

Jason Michelson Operations Lead, Portfolio Operations Central

June 6, 2024

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

APPROVED By Mike Buchanan at 10:01 am, Jan 14, 2025

Re: Federal 4 Com #001 Incident #nAB189450649 2024 Assessment Activities Work Plan Eddy County, New Mexico

Dear whom it concerns,

Please find enclosed for your files, copies of the following work plan:

• Federal 4 Com #001 2024 Assessment Activities Work Plan

The submittal was prepared by Arcadis U.S., Inc. (Arcadis) for Chevron Environmental Management Company (CEMC) on behalf of Chevron U.S.A Inc.

Please do not hesitate to call Russell Grant with Arcadis at 432-217-2064 or myself at 832-854-5601, should you have any questions.

Respectfully,

Jason Michelson

Jason Michelson

Encl. Federal 4 Com #001 2024 Assessment Activities Work Plan

C.C. Amy Barnhill, Chevron/MCBU

Review of the 2024 Assessment Activities Work Plan for Federal 4
Com #001: Content is satisfactory is hereby approved with the
following condition:
1 As groundwater has been confirmed to be impacted at this site,
please collect soil samples at every foot to a depth of 14 feet; depth to
groundwater is approximately 14 feet from surface.
2. Install eight (8) soil borings as proposed at locations, with the
additional four feet to groundwater.
3 Submit soil samples for BTEX, TPH and chloride analyses.
4. Please submit the work plan results to OCD within sixty (60) days
from the receipt of this approval.

Jason Michelson Operations Lead Central Portfolio Operations - Central 1500 Louisiana Street, Houston, TX 77002 Tel 832 854 5601 Mobile 281 660 8564 jmichelson@chevron.com



Mr. Jason Michelson Operations Lead Upstream Business Unit Chevron Environmental Management Company. 1500 Louisiana Street, Floor 38 Houston, TX 77002

Date: June 6, 2024 2024 Assessment Activities Work Plan Federal 4 COM #001 Incident #nAB1819450649 Carlsbad, New Mexico Arcadis U.S., Inc. 10205 Westheimer Road Suite 800 Houston Texas 77042 Phone: 713 953 4800 Fax: 713 977 4620 www.arcadis.com

TX Engineering License # F-533 TX Geoscientist License # 50158

Dear Mr. Michelson,

At the request of Chevron Environmental Management Company (CEMC) on behalf of Chevron U.S.A. Inc., through its division Chevron North America Exploration and Production Company, Arcadis U.S., Inc. (Arcadis) is providing this work plan (WP) to perform additional soil assessment activities for the Federal 4 COM #001 Site located in Carlsbad, New Mexico (Site). This WP are for tasks anticipated to be completed as part of the 2024 scope of work (SOW) from June 1, 2024, through March 31, 2025. The tasks in this WP include:

- Project Management and Coordination
- Utility Locate
- Delineation Soil Borings
- Annual Reporting

Project Information

The Site is located approximately seven miles northeast of Carlsbad, New Mexico. The Bureau of Land Management legal description is the northeast quarter of the southwest quarter of Section 4, Township 21-South, Range 27-East. The property's surface rights are owned by the Bureau of Land Management (BLM) and Chevron Midcontinent, L.P., holds the oil and gas lease.

The Site is located on the western edge of the Permian Basin, a 75,000-square-mile area in Texas and New Mexico that is populated by numerous oil and gas production wells. In New Mexico, the Permian Basin extends to Roosevelt County to the north, Chaves and Eddy County to the west, and to Texas to the south. Additional Site history and previous investigation summaries are provided in **Attachment 1**.

Scope of Work

Arcadis will perform consulting services for the work tasks described below. Key assumptions that may affect the schedule and costs are noted.

Task 1 – Project Management and Coordination

This task includes professional labor services for project coordination with CEMC, Chevron Mid-Continent Business Unit (MCBU), the New Mexico Oil Conservation Division (NMOCD), Bureau of Land Management (BLM), and New Mexico Office of the State Engineer (NMOSE). Work will include project planning with the CEMC operations lead, including one meeting with the NMOCD.

In addition, the following activities associated with project controls will also be completed:

- Reviewing and processing of vendor invoices,
- Monthly budget tracking, general project communications, correspondence, and coordination,
- Reviewing and updating the site-specific health and safety plan (HASP).

Task 2 – Utility Locate

Prior to initiating any intrusive work, the presence of subsurface and overhead utilities will be investigated in accordance with Arcadis Utility Location and Clearance Standard (Health and Safety Standard No. ARCHSFS019) and CEMC Ground Disturbance Standard and supplemental Subsurface Line Strike Prevention Guidance, requiring a minimum of three lines of evidence consisting of the following:

- Notify New Mexico 811 a minimum of 48 hours in advance of commencing intrusive activities at the Site. The notification will allow its member utilities to review all proposed soil boring locations at the Site and identify potential subsurface utility conflicts,
- Contract a licensed private utility locating service to complete a geophysical survey of the proposed soil boring locations at the Site. The private utility locating service will utilize ground penetrating radar and electromagnetic equipment, among other utility locating techniques, to identify any subsurface utilities near the proposed soil boring locations. Located utilities will be surveyed using Trimble GeoExplorer 6000 series global positioning system equipment, or equivalent,
- Arcadis will prepare and submit a dig plan to the Chevron MCBU Functional Operations Team for approval,
- Attempt to clear all proposed soil boring locations utilizing air knifing equipment (by drilling subcontractor) to at least 5 feet below ground surface (bgs). In the event clearance is not feasible, the subcontractor will follow variance requirements.

The geophysical survey will require oversight by one Arcadis field staff and is assumed to take one (12-hour/day) to complete.

Task 3 – Delineation Soil Borings

Arcadis proposes conducting further soil investigation activities at the Site which include the advancement of eight (8) shallow soil borings (SB-28, SB-29, SB-30, SB-31, SB-32, SB-33, SB-34, and SB-35) utilizing an air rotary drilling rig as depicted on **Figure 1**. Arcadis assumes that soil investigation activities will take two Arcadis staff a total of three days (12-hour/day) to complete. Arcadis assumes Chevron currently holds an active Oil and Gas Lease for the Site and that the Sundry Notice is valid. Additionally, Arcadis assumes that the MCBU Land Group will complete all requirements to secure an easement agreement with the BLM, prior to Arcadis commencing

This proposal and its contents shall not be duplicated, used or disclosed — in whole or in part — for any purpose other than to evaluate the proposal. This proposal is not intended to be binding or form the terms of a contract. The scope and price of this proposal will be superseded by the contract. If this proposal is accepted and a contract is awarded to Arcadis as a result of — or in connection with — the submission of this proposal, Arcadis and/or the client shall have the right to make appropriate revisions of its terms, including scope and price, for purposes of the contract. Further, client shall have the right to duplicate, use or disclose the data contained in this proposal only to the extent provided in the resulting contract.

fieldwork. Arcadis proposes to use White Drilling to complete the soil boring installations. The drilling company will complete the following tasks, with oversight provided by Arcadis field personnel:

- Notify NM811 a minimum of 48 hours in advance of commencing intrusive activities at the Site. The notification will allow its member utilities to review proposed sample locations at the Site and identify potential subsurface utility conflicts.
- Clear all locations utilizing air knifing equipment to at least 5 feet bgs. In the event clearance to 5 feet bgs is not feasible, Arcadis will follow CEMC's variance process.
- Eight soil borings will be advanced to approximately 10 feet bgs. Groundwater in this area is known to be approximately 14 feet bgs. Arcadis will prepare a Well Plugging Plan of Operations and submit to NMOSE for review and approval if groundwater is encountered. Arcadis assume that NMOSE will not require the submittal of the WR-07 to proceed with soil boring activities or approval of the plugging plan.
- Soil cuttings will be stored in 55-gallon drums, properly labeled as Investigative derived waste (IDW), and stored onsite.
- Abandon the 8 shallow soil borings using hydrated bentonite chips. If groundwater is encountered, the boring will be plug as detailed on the approved Well Plugging Plan of Operations.
- Mobilization and demobilization of the drill rig, a field support truck, an operator, and two drilling helpers.

The 8 shallow soil borings will be logged by an Arcadis geologist according to Unifed Soil Classification System (USCS) guidelines. Arcadis will collect grab soil samples from the advancement of each soil boring at:

- surface
 - o 0 to 1 feet bgs
- subsurface
 - o 1 to 2 feet bgs,
 - o 2 to 3 feet bgs,
 - o 3 to 4 feet bgs,
 - o 4 to 5 feet bgs,
 - o 5 to 6 feet bgs,
 - o 6 to 7 feet bgs,
 - o 7 to 8 feet bgs,
 - o 8 to 9 feet bgs, and
 - o 9 to 10 feet bgs

The soil samples will be collected in clean, laboratory-supplied sample containers, labeled, placed on ice, cooled to approximately 4 degrees Celsius, and transported via overnight courier to Pace Labs located in Mt. Juliet, Tennessee, a State of New Mexico-certified laboratory, under chain-of-custody protocol for the following analysis:

- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260B,
- Total petroleum hydrocarbons (TPH) gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) by USEPA Method 8015M, and

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• Chloride by USEPA Method 300.0

Results of the soil assessment activities will be included in the annual monitoring report (see Task 4).

Soil cuttings from drilling activities, will be stored in 55-gallon drums, properly labeled, and stored onsite. The drums will be sampled to determine disposal classification of the waste. The IDW is assumed to be classified as non-hazardous. Arcadis will arrange for a disposal company to transfer the drums to a CEMC-approved waste disposal facility. Arcadis assumes that waste pick-up for transport to an approved disposal facility will require oversite by an Arcadis representative, requiring one 12-hour day.

Task 4 – Annual Assessment Reporting

The results of the soil assessment activities will be summarized in a report to be submitted to the NMOCD. The report will include analytical data, figures showing locations and results, boring logs, and laboratory analytical data sheets. Recommendations for Site closure and/or additional work to move the Site towards closure will be provided in a cover letter and discussed with CEMC. The report will be submitted prior to the end of the first quarter of 2025.

Assumptions

- Mobilization fees estimated based on travel costs to / from Midland, TX,
- No additional field efforts will be requested,
- Field activities will be completed in 12-hour days,
- Assumes one annual report,
- Assumes weather conditions will allow access and field tasks to be completed during the scheduled events.

Project Team

The Arcadis Project Manager will be Russell Grant, Associate Project Manager will be Sheila Hernandez, and Ross Brady will be the Task Manager. Scott Foord will provide program management support.

Contact

Arcadis appreciates the opportunity to provide site support services to CEMC. If you have any questions or comments, please contact either Russell Grant by phone at 432.217.2064 or by e-mail at <u>russell.grant@arcadis.com</u> or Scott Foord by phone at 713.953.4853 or by email at <u>William.foord@arcadis.com</u>. Sincerely, Arcadis U.S., Inc.

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Scott Foord Program Manager

- CC. Jason Michelson CEMC Enclosures: Tables
 - 1. Historical Soil Analytical Data

Figures

- 1. 2021 Soil Analytical data and 2024 Proposed Soil Boring Locations Attachments
 - 1. Additional Site History and Previous Investigation Summaries

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Table 1 Historical Soil Investigation Analytical Data CEMC Federal 4 Com #001 Eddy County, New Mexico

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11/17/2020 0.01 -0.00002 -0.00102 -0.00103 -0.00037 -0.72 -2.23 -6.53 7.860/H B 23.6 11/17/2020 1.10 -0.00002 -0.00173 -0.00037 -0.722 15.9 57.7 7.800/H B 15.1 11/17/2020 3.10.4 -0.000654 -0.00173 -0.00113 -0.00113 -0.00113 -0.00118 -0.0012 -0.00118 <th></th> <td></td>													
11/17/2020 11/12/202 20.000682 -0.000775 -0.00188 -0.000717 -0.0728 75.7 7.880/H B 21.1 11/17/2020 210.3 -0.000683 -0.00173 -0.00113 -0.00112 -0.00116 -0.0112 -0.00116 -0.0112 -0.00116 -0.0112 -0.00116 -0.0112 -0.00116 -0.0112 -0.00116 -0.0112 -0.00116 -0.00126 -0.0112 -0.00116 -0.00126 -0.0113 -0.00116 -0.00116 -0.00116 -0.00116 -0.0016 -0.0113 -0.00111 -0.00116 -0.00114 -0.00116 -0.00114 -0.00116 -0.00114 -0.00114 -0.00114 -0.00116 -0.00114													
SB-12 11/17/2020 210 3 0.00028 0.00137 -0.00111 -0.00112 -0.00128 -0.0128 15.5 71.2 2010 HB 19.3 11/17/2020 310 4 0.00028 -0.00137 -0.00111 -0.00112 -0.00112 -0.00112 -0.00112 -0.00112 -0.00112 -0.00112 -0.00112 -0.00112 -0.00112 -0.00112 -0.00116 -0.00163 -0.00113 -0.00116 -0.00113 -0.00116 -0.00113 -0.00116 -0.00113 -0.00116 -0.00114 -0.00013 -0.00107 -0.00364 -0.0017 -0.00145 -0.0016 -0.00174 -0.00174 -0.00164 -0.0017 -0.00164 -0.0017 -0.00174 -0.0017 -0.2018 -0.00173 -0.00171 -0.2018 -0.00173 -0.00171 -0.2018 -0.00173 -0.00171 -0.2017 -2.22 -0.70 1.50 2.51 2.51 2.51 2.51 2.51 2.51 2.51 2.51 2.51 2.51 2.51 2.51 2.51 2.51													
11/17/2020 51 6 0.00022 0.0017 -0.00112 -0.00112 -0.0012 -0.012 9.92.J 52.1 3990 HB 2.35 11/17/2020 710.8 -0.00022 -0.0013 -0.00113 -0.00415 -0.00456 -21.87 24.4 25.24 HB 21.7 24.86 11/17/2020 110.1 -0.000534 -0.00103 -0.00107 -0.003926 -0.73 -2.27 -6.52 21.7 24.85 11/17/2020 110.2 -0.000544 -0.00103 -0.001048 -0.00104 -0.00174 -0.004946 -0.00174 -0.00174 -0.00174 -0.22 -6.70 -1.5 2.5 11/17/2020 3 10.4 -0.000964 -0.00170 -0.00174 -0.00174 -0.00174 -0.0177 -2.28 6.70 2.5 2.5 11/17 2.2 -6.70 1.5 2.5 11/17 2.20 1.5 2.5 1.5 2.5 2.5 11/17 2.0 1.5 2.2 1.5 2.5 1.5 2.5 <th></th> <td></td>													
H11/72020 9 10 16 -0.000138 -0.001013 -0.00113 -0.004161 -0.006451 -0.0064 -2.18 2.21 5.21 H B 2.20 11/17/2020 10 10 -0.000581 -0.00103 -0.00017 -0.003866 -0.0137 -2.000586 -0.0114 -0.003866 -0.0138 -2.21 -6.62 2.17 -2.66 2.17 2.66 2.23 -6.79 2.01 2.00 -2.000586 -0.00128 -0.000386 -0.00124 -0.0017 -0.003846 -0.0007 -2.22 -6.70 3.15 2.53 11/17/2020 10.16 -0.000598 -0.00170 -0.003946 -0.0807 2.64 133 -7.89 2.69 11/17/2020 9.10 -0.000589 -0.00132 -0.000799 -0.00168 -0.0701 1.150 2.230 159 2.230 11/17/2020 9.10 -0.00054 -0.00152 -0.000799 -0.00112 -0.01243 -0.700 1.150 2.30 159 17.7 2.41 1.1177 2.240<	SB-12												
H11/72020 90 10 c.000051 c.000130 c.000111 c.000112 c.000111 c.000111 c.000111 c.000112 c.000111 c.000111 c.000112 c.000112 c.000114 c.00112 c.000114 c.00112 c.000114 c.00112 c.000114 c.00112 c.000114 c.00112 c.000114 c.00111 <thc.001114< th=""> <thc.001114< th=""> <thc.0011< td=""><th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td></thc.0011<></thc.001114<></thc.001114<>											-		
11/17/2020 1102 -000083 -000103 -000114 -000115 -00088 -2.28 -6.88 33.5 25.3 SB-13 11/17/2020 3 to 4 -0000884 -000107 -0003944 -00017 -2.28 -6.70 9.15 J 25.7 11/17/2020 7 to 6 -0000594 -00017 -0003944 -000394 -00017 -2.28 -6.70 9.15 J 25.7 11/17/2020 7 to 6 -0000594 -000370 -000107 -0003944 -00174 -003984 -0.71 -2.28 -0.87 -2.14 -6.27 05.9 H B 20 12.8 2.30 118 2.30 158 2.30 158 2.30 158 2.30 158 2.30 158 2.30 158 2.30 158 2.30 158 159 2.30 158 159 2.30 158 159 2.30 158 159 159 2.31 158 159 159 159 159 159 159													
SB-13 11/17/2020 2 to 3 -0.00986 -0.00164 -0.00164 -0.00884 -0.007 -2.32 -6.79 20 28.5 11/17/2020 5 to 6 -0.000694 -0.0017 -0.003949 -0.0071 -2.22 -6.70 9.15 J 25.7 11/17/2020 5 to 6 -0.000696 -0.0017 -0.003949 -0.0814 -2.14 -6.25 20.18 B Fl 26.9 11/17/2020 9 to 10 -0.000644 -0.00132 -0.000797 -0.001084 -0.770 1.150 2.300 115 B 23.9 115 B 12.9 14.6 5.85 11.0 1.570 24.8 15.1 11.1													
SB-13 11/17/2020 3 to 4 -0.00124 -0.001124 -0.00114 -0.20114 -0.221 -2.28 -6.70 9.15 J 2.57 11/17/2020 7 to 6 -0.000589 -0.00131 -0.000970 -0.001849 -0.807 26.4 133 7.80 J 26.5 11/17/2020 7 to 6 -0.000589 -0.00179 -0.000384 -0.0711 <2.13													
11/17/2020 5 to 6 c0.000599 c0.00107 c0.003949 c0.807 28.4 133 7.80 J 28.9 11/17/2020 16 c0.000596 c0.00131 c0.000970 c0.00108 c0.003940 c0.8013 c2.13 c5.2 28.18 Pf 1 23.0 11/17/2020 10 c1 c0.000614 c0.00121 c0.00124 c0.703 1.300 2.280 1138 7.80 J 2.280 1138 7.80 J 2.280 1138 7.80 J 2.80 1138 7.80 J 2.80 1138 7.80 J 2.80 1138 7.80 J 2.80 1138 7.80 J 1.80 J	SB-13												
11/17/2020 9 to 10 c0.00065 c0.00132 c0.00079 c0.00108 c0.003984 c0.781 c2.13 c6.22 66.5 J H B 20.1 11/17/2020 1 to 1 c0.000674 c0.00112 c0.000124 c0.0753 1.330 2.390 159 2.39 11/17/2020 2 to 3 0.00190 J c0.0013 c0.00124 c0.0753 1.330 2.390 113 B 17.4 11/17/2020 3 to 4 0.0158 c0.00153 1.7 0.204 1.92133 160 2.510 3.130 c4.96 19.1 11/17/2020 5 to 6 - 2.38 6.33 8.71 654 5.970 10,700 46.7 J B 19.6 11/17/2020 7 to 8 - 2.38 6.33 8.71 654 5.970 10,700 46.7 J B 19.6 11/17/2020 1 to 2 d0.000579 d0.00721 d0.003827 c0.837 110 38 102 23.1 J B 19.3 J B 19.3		11/17/2020	5 to 6	<0.000599	< 0.00131	< 0.000970	<0.00107	<0.003949	<0.807	-		7.80 J	26.9
SB-14 11/17/2020 0 to 1 40.00013/2 0.00129 J 0.001264 d -0.00112 d -0.00124 d -0.0112 d -0.00124 d -0.0112 d -0.01243 d -0.750 d 1,330 d 2,380 d 113 B 17.4 11/17/2020 3 10 d 0.0158 d -0.00113 d -0.00112 d -0.01243 d 20.2 d 1,120 d 1,870 d 2,380 d 113 B 17.4 11/17/2020 3 10 d 0.0158 d -0.0013 d 1.7 0.204 d 1,9213 d 160 d 2,510 d 3,130 d 4.96 d 19.1 11/17/2020 7 10 8 - - 2.12 d 3.46 d 5.58 d 410 5,110 5,710 d 25.3 d 20.2 1,12 d 1,870 d 25.3 d 20.2 11/17/2020 7 10 8 - - 2.12 d 3.46 d 0.00327 d 0.337 d 10.3 d 25.3 d 12 d 25.0 d 11.2 d 0.0014 d 0.00327 d 0.437 d 1.33 d 2.0 d 1.33 d 1.3 d 1.33 d 1.33 d 1.33 d 1.33 d <th></th> <td></td>													
11/1/72020 11 0 2 <0.000124 <0.00112 <0.001124 <0.0733 1.330 2.390 113 B 17.4 11/17/2020 2 to 3 0.00190 <0.00136			0 to 1										
SB-14 11/17/2020 31 o4 0.0158 <0.00153 1.7.7 0.240 1.9.213 160 2.101 3.130 <4.96 19.1 11/17/2020 5166 2.12 3.46 5.58 410 5.10 5.70 10.70 45.7 JB 19.2 11/17/2020 71 08 2.38 6.33 5.71 654 5.970 10.700 45.7 JB 19.8 11/17/2020 11 02 0.000962 J< 0.00127		11/17/2020		<0.000624	< 0.00137	<0.00101	<0.00112	< 0.004124	<0.753	1,330	2,390	113 B	17.4
11/17/2020 5 to 6 2.12 3.46 5.58 410 5,710 5,710 253 B 20.2 11/17/2020 7 to 8 - 2.38 6.33 8.71 654 5,970 10,700 46.7 J B 19.6 11/17/2020 0 to 1 -0.000902 J -0.00127 <0.000388	SB-14												
11/17/2020 7 to 8 - 2.38 6.33 8.71 654 5.970 10,700 46.7 J B 19.6 11/17/2020 8 to 9 0.000672 -0.000372 -0.00372 3.3.8 809 943 21.3 J B 19.8 11/17/2020 10 to 1 -0.000575 -0.00127 -0.003327 -0.873 1107 255 312 23.0 11/17/2020 10 to 1 -0.000555 -0.00127 -0.00138 -0.00123 -0.873 1107 255 312 23.0 11/17/2020 10 to 4 0.000511 2.008 -0.00123 1.03123 208 998 811 404 18.8 11/17/2020 7 to 8 -0.00573 -0.0125 0.00118 -0.003462 -0.865 139 241 414 11.6 11/17/2020 7 to 8 -0.00572 -0.00152 -0.00118 -0.003426 0.865 139 241 414 11.6 11/17/2020 10 to 1 -0.000652	30-14												
11/17/2020 0101 <0.000678 <0.00127 <0.000938 <0.00104 <0.003827 <0.873 190 384 119.j 25.4 11/17/2020 1102 <0.000665		11/17/2020	7 to 8			2.38	6.33	8.71	654	5,970	10,700	46.7 J B	19.6
11/17/2020 11 to 2 <0.000565 <0.00124 <0.00011 <0.003729 <0.873 117 255 312 29.0 11/17/2020 2 to 3 0.00404 0.00251 J 2.08 <0.00120													
SB-15 11/17/2020 2 to 3 0.0040 J 0.00251 J 2.08 <0.00120 2.0812 274 1,770 1,620 140 J 19.1 SB-15 11/17/2020 3 to 4 0.00216 J 0.00186 J 1.03 <0.00123													
SB-15 11/17/2020 310 4 0.00216 J 0.00165 J 1.03 <0.00123 1.03123 208 998 811 404 18.8 11/17/2020 510 6 <0.00046													
11/17/2020 710 8 <0.00573 <0.0125 0.0238 J <0.0033 0.02853 <0.0665 139 241 414 11.6 11/17/2020 810 9 <0.00662	SB-15												
11/17/2020 81 09 <0.000682 0.00116 J <0.00124 0.003452 0.005 J 30.7 85 419 12.7 11/17/2020 0 to 1 <0.000686													
S8-16 11/1/72020 110 2 <0.000816 <0.00035 <0.000998 <0.00114 <0.00474 <0.289 <2.29 <6.69 663 B 25.4 11/17/2020 2 10 3 <0.00063												419	
Sb-16 11/17/2020 210.3 <0.00083 <0.0013 <0.0014 <0.001495 <0.720 <2.21 <6.6.5 803.B 22.7 11/17/2020 3 to 4 <0.000685													
11/17/2020 310 4	SB-16												
SB-17 11/17/2020 0 to 1 0.000808 0.002923 0.588 5.41 J 46.4 1.240 B 28.0 SB-17 11/17/2020 1 to 2 0.000842 0.00115 0.002923 0.588 5.41 J 46.4 1.240 B 28.0 11/17/2020 1 to 2 0.00042 0.00115 <													
SB-17 11/17/2020 210 3 <0.000872 <0.0019 <0.00192 <0.001432 <0.776 <2.28 <6.67 1.820 B 25.4 11/17/2020 3 to 4 <0.000672		11/17/2020	0 to 1	<0.000608	< 0.00133	<0.000985	0.00337 J	0.002923	<0.588	5.41 J	46.4	1,240 B	28.0
11/17/2020 210 3 < <	SB-17												
SB-18 11/10/2021 0 to 1 0.000779 0.00173 0.00173 0.00173 0.000779 0.0289 2.5 11/10/2021 1 to 2 0.00081 0.00123 0.000861 0.000861 0.00123 0.000861 0.289 2.5 0.176 B J 341 116.5 11/10/2021 2 to 3 0.00173 0.00173 0.000861 0.00173 2.25 0.71 B J 88.4 28.4 11/10/2021 3 to 4 0.00128 2.50 1.05 B J 344 14.65 11/10/2021 4 to 5 <													
11/10/2021 11 to 2													
11/10/2021 310.4 <0.000810 co.00025 <0.00128 <0.00153 <0.000810 <0.0296 <2.20 1.05 B.J 42.7 26.8 11/10/2021 4 to 5 <0.000729		11/10/2021	1 to 2	<0.000651	<0.00181	<0.00103	<0.00123	<0.000651	<0.0260	<1.93	1.05 B J	341	16.5
SB-18 11/10/2021 4 to 5 0.000729 0.000729 0.000729 0.000729 0.000729 0.000729 0.000729 0.000729 0.000740 0.000741 0.000741 0.000741 0.000741 0.000741 0.000741 0.000741 0.0000741													
Sb-te 11/10/2021 5 to 6 <0.000740 <0.00206 <0.00117 0.00182 J <0.000740 <0.0280 <2.08 4.21 B J 14.2 J 22.6 11/10/2021 6 to 7 <0.00068	05.44												
11/10/2021 7 to 8 <0.000734 <0.00174 <0.000987 0.00147 J <0.000734 <0.0254 <1.88 2.32 B J 12.4 14.5 11/10/2021 8 to 9 <0.000784	SB-18	11/10/2021	5 to 6	<0.000740	< 0.00206	<0.00117	0.00182 J	<0.000740	<0.0280	<2.08	4.21 B J	14.2 J	22.6
11/10/2021 8 to 9 <0.000784 <0.00218 <0.00124 0.00190 J <0.000784 0.0291 <2.16 2.72 B J 20.9 J 25.3													

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ARCADIS Design & Consultancy for natural and tuilt assets

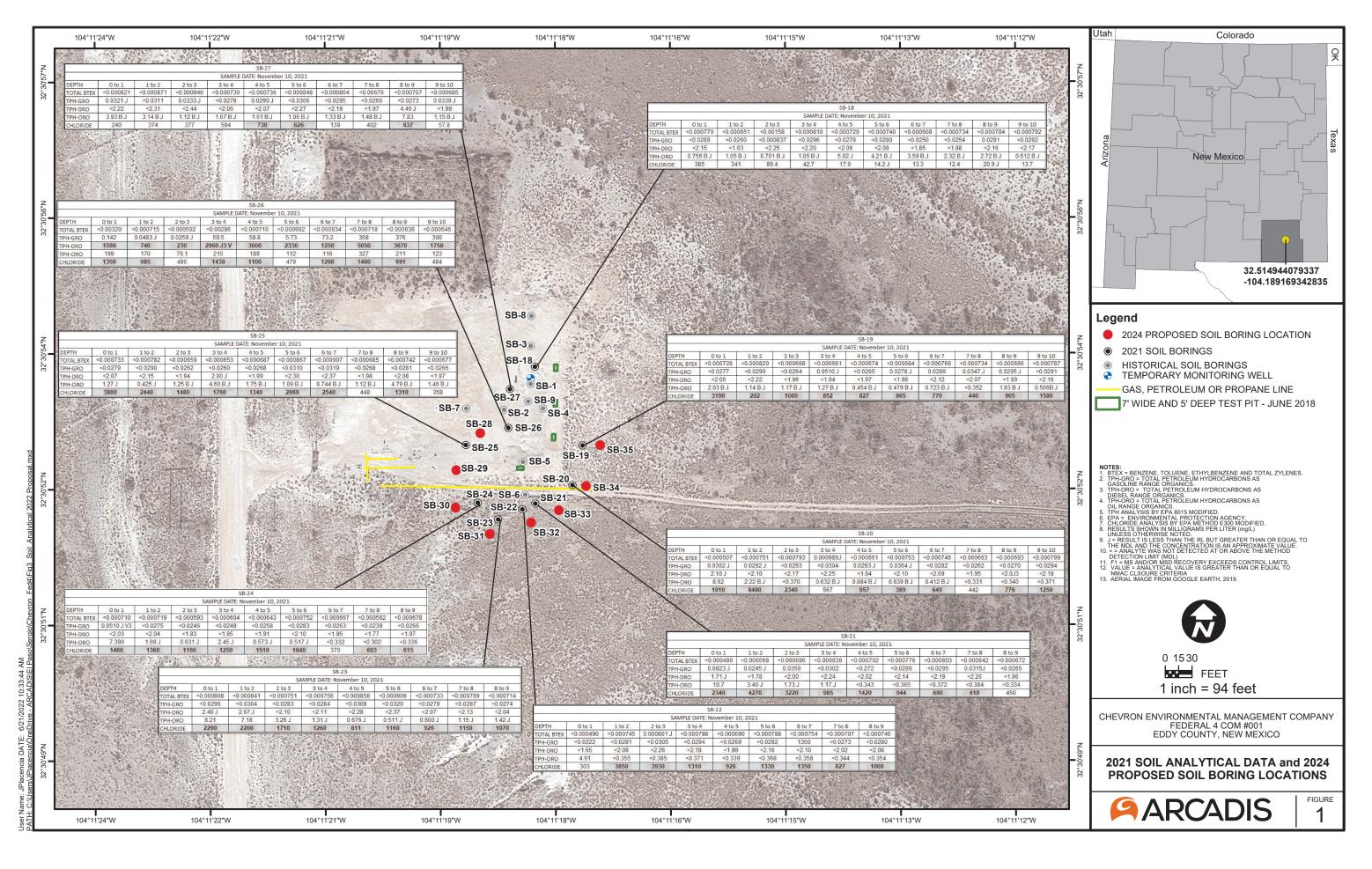
Table 1 Historical Soil Investigation Analytical Data CEMC Federal 4 Com #001 Eddy County, New Mexico

			Sample	Dentene	Teluene	Ethylbonzono	Total Vulence		TPU CRO			Chlorida	9/
101820 010 02000 <th< th=""><th>Boring Location ID</th><th>Sample Date</th><th></th><th>Benzene (mg/Kg)</th><th>Toluene (mg/Kg)</th><th>Ethylbenzene (mg/Kg)</th><th>Total Xylenes (mg/Kg)</th><th>Total BTEX (mg/Kg)</th><th>TPH-GRO (mg/Kg)</th><th>TPH-DRO (mg/Kg)</th><th>TPH-ORO (mg/Kg)</th><th>Chloride (mg/Kg)</th><th>% Moisture</th></th<>	Boring Location ID	Sample Date		Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH-GRO (mg/Kg)	TPH-DRO (mg/Kg)	TPH-ORO (mg/Kg)	Chloride (mg/Kg)	% Moisture
100000 100 40000 400000 400000 400000			e Criteria ^(a)										
100000 100000 100000<													
10 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 10000000 10000000													
1170000 0 00000 0.00000 <t< th=""><th></th><td></td><td>3 to 4</td><td></td><td></td><td></td><td></td><td><0.000661</td><td></td><td></td><td></td><td></td><td></td></t<>			3 to 4					<0.000661					
1100000 0 00000 0.00000 <t< th=""><th>SB-19</th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td></t<>	SB-19									-			
11/10000 0.0000 0.0000 0.0000 0.0000<		11/10/2021	6 to 7	<0.000766	< 0.00213	<0.00121	0.00238 J	< 0.000766	0.0286	<2.12	0.723 B J	770	24.2
11 0													
1 1 0													
99-00 1000000 30.6 000000 <th></th> <td>11/10/2021</td> <td>1 to 2</td> <td><0.000751</td> <td>< 0.00209</td> <td><0.00119</td> <td>0.00225 J</td> <td><0.000751</td> <td>0.0292 J</td> <td><2.10</td> <td>2.22 B J</td> <td>8480</td> <td>23.3</td>		11/10/2021	1 to 2	<0.000751	< 0.00209	<0.00119	0.00225 J	<0.000751	0.0292 J	<2.10	2.22 B J	8480	23.3
94.00 11100001 10.00 0.00001 0				<0.000793									
1 1 0	SB-20	11/10/2021	4 to 5	<0.000661	<0.00184	<0.00104	<0.00124	< 0.000661	0.0293 J	<1.94	0.884 B J	957	17.2
11000000 1000000 000000 0000000 0000000 0000000 0000000 000000													
11000200 0 0.00000 0.0000 0.00000 0.00000 0.0000								<0.000663					
Image Image <th< th=""><th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>													
11/10/2012 12/10/2		11/10/2021	0 to 1									2340	
11/10201 20.3 6 20.0110 40.0101 40.0088 60.008 42.00 42.00 40.008 40.0088 40.008 <th></th> <td>11/10/2021</td> <td>1 to 2</td> <td>8</td> <td><0.00158</td> <td><0.000896</td> <td><0.00107</td> <td><0.000568</td> <td>0.0245 J</td> <td><1.78</td> <td>3.40 J</td> <td>4270</td> <td>9.7</td>		11/10/2021	1 to 2	8	<0.00158	<0.000896	<0.00107	<0.000568	0.0245 J	<1.78	3.40 J	4270	9.7
11102021 31.04 4.0003 4.0011 4.00072 4.00072 4.02 4.24 1.71 985 23.3 11102021 4.05 4.0007 4.0017 4.00072 4.02 4.02 4.02 4.02 4.02 4.02 4.02 4.02 4.02 4.02 4.0011 4.00072 4.02 4.02 4.02 4.0011 4.00072 4.02 4.0015 4.00084 4.02 4.0015 4.00084 4.02 4.0015 4.00084 4.02 4.011 4.0017 4.00084 4.0021 4.0016 4.00097 4.00097 4.00097 4.00097 4.00097 4.00097 4.00097 4.00097 4.00097 4.00097 4.00097 4.00097 4.00097 4.00097 4.00097 4.00097 4.00097 4.0019 4.00197 4.00197 4.00197 4.00197 4.00197 4.00197 4.00197 4.00197 4.00197 4.00197 4.00197 4.00197 4.00197 4.00197 4.00197 4.00197 4.00197 4.00197		11/10/2021	2 to 3		<0.00194	<0.00110	<0.00131	<0.000696	0.0359	<2.00	1.73 J	3220	19.7
11/10/2011 3/9 d.0000 d.0011 d.00122 d.00072 d.022 d.02 d.024 d.036 y.44 11/10/2021 5/0.6 d.0007 d.0012 d.00114 d.00076 d.028 d.012 d.00076 d.028 d.216 d.038 y.44 24.8 d.038 y.46 24.8 d.038 y.46 24.8 d.038 d.0399 d.038 d.0399 d.038 d.0399 d.038 d.0399 d.038 d.0399 d.038 d.0399 d				< 0.00083	<0.00233	<0.00132	<0.00157	<0.000836	<0.0302	<2.24	1.17.1		28.3
B21 11/10221 46.5 4 0.00110 0.00110 0.001000 0.00100 0.00000 0.00100 0.00000 </th <th></th> <td>11/10/2021</td> <td>3 to 4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>985</td> <td></td>		11/10/2021	3 to 4									985	
11/10/2021 610 6 00022 00013 000081 000280 001081 000081 000280 001081 000080 000080 000080	SB-21	11/10/2021	4 to 5	2	<0.00195	<0.00111	<0.00132	<0.000702	<0.272	<2.02	<0.343	1420	20.1
11/102021 610 0.00000 0.0024 0.0017 0.00001 0.00001 0.00151 0.20 0.0324 0.0019 0.00001 <th< th=""><th></th><td>11/10/2021</td><td>5 to 6</td><td></td><td><0.00216</td><td><0.00122</td><td><0.00146</td><td><0.000776</td><td><0.0289</td><td><2.14</td><td><0.365</td><td>944</td><td>24.8</td></th<>		11/10/2021	5 to 6		<0.00216	<0.00122	<0.00146	<0.000776	<0.0289	<2.14	<0.365	944	24.8
111102021 16.97 0.00054 0.00150 0.00160 0.00167 0.00067 0.00176 0.00167 0.00176 <t< th=""><th></th><td></td><td></td><td><0.00080</td><td><0.00223</td><td><0.00127</td><td><0.00151</td><td><0.000803</td><td><0.0295</td><td><2.19</td><td><0.372</td><td></td><td>26.4</td></t<>				<0.00080	<0.00223	<0.00127	<0.00151	<0.000803	<0.0295	<2.19	<0.372		26.4
11/10/2021 11/16 2 000/03 00/03 0/00/03 0/00/03 0/00/03					<0.00224			<0.000040					28 F
11100220 8 0 0 2 0.00070 <		11/10/2021	7 to 8	2									
11100221 0001 0 000073 0000073 0000007 0000007 0000007 0000007 0000007 0000075 0000075 0000075 0000075 0000075 0000075 0000075 0000075 0000075 0000075 0000075 0000075 000075		11/10/2021	8 to 9	2	<0.00187	<0.00106	<0.00127	<0.000672	<0.0265	<1.96	<0.334	450	18
11100221 1102 0.00074 0.00140 0.00074 0.00074 0.0036 0.0037 0.0037 0.033 0.0037 0.0037 0.036 0.0366 0.0036 0.0037 0.0037 0.033 0.0037 0.0037 0.0037 0.036 0.0037<		11/10/2021	0 to 1		<0.00136	<0.000773	<0.000923	<0.000490	<0.0222	<1.65	4.91	303	2.4
11/10/2021 2 0.0000000 0.000			1 to 2	< 0.00074	< 0.00207	<0.00118	< 0.00140	<0.000745	<0.0281	<2.09	< 0.355		22.9
11/10/2021 3104 80/0000 0.00022 0.00150 0.000780 0.0024 2.18 0.0371 3339 2339 11/10/2021 4 to 5 0.00000 0.00120 0.00150 0.000780 0.00228 0.18 0.0330 2.28 0.0330 2.28 0.0330 2.28 0.0330 2.28 0.0329 2.16 0.338 2.22 133 11/10/2021 5 to 6 0.00074 0.00171 0.00074 0.00074 0.00074 0.00074 0.00077 0.00074 0.00014 0.00074 0.00014 0.00014 <		11/10/2021										3850	00.0
B8-20 11/10/2021 3104 8 40.00780 40.00780 40.00780 40.00780 40.00780 40.00780 40.0180 40.00780 40.00780 40.0180 40.0080 40.00780 40.00780 40.00780 40.00780 40.00780 40.0071		11/10/2021	2 to 3	J		<0.00134	<0.00159	0.000861 J	<0.0305	<2.26	<0.385	3930	28.9
Ba-22 11/10/2021 4 10 5 0 000078 0000078 0000078 0000078		11/10/2021	3 to 4	8	<0.00222	<0.00126	<0.00150	<0.000798	<0.0294	<2.18	<0.371	1310	26.1
11/10/2021 5166 -0.00078 -0.00120 -0.00120 -0.00120 -0.00078 -0.0027 -0.0027 -0.0027 -0.0027 -0.0027 -0.00120 -0.00120 -0.00120 -0.00170 -0.00074 1150 <-1.0	SB-22	11/10/2021	4 to 5		<0.00192	<0.00109	<0.00130	<0.000690	<0.0269	<1.99	<0.339	926	19.3
11/10/2021 6107 40.0076 40.0019 40.00142 40.00754 1350 42.10 40.38 1350 25.1 11/10/2021 710.8 40.00077 40.01197 40.00133 40.00770 40.0277 40.0280 40.0271 40.0280 40.0271 40.0280 40.0271 40.0280 40.0280 40.0280 40.0280 40.0280 40.0280 40.0280 40.0280 40.0280 40.0280 40.0283 40.0114 40.00141 40.00141 40.00141 40.00141 40.00141 40.00141 40.00141 40.00141 40.00141 40.00174 40.0110 40.00141 40.00076 40.0140 40.00076 40.0140 40.00076 40.0141 40.00076 40.0141 40.00076 40.0141 40.00076 40.0141 40.00073 40.0141 40.00076 40.0141 40.00076 40.0141 40.00076 40.0141 40.00076 40.0141 40.00076 40.0141 40.00076 40.0141 40.00076 40.0141 40.00076 40.0142 40.0142 40.00076<			5 to 6	<0.00078	<0.00219	< 0.00124	< 0.00148	<0.000788	<0.0292	<2.16	<0.368		25.6
11/10/2021 610 4 600/07		11/10/2021										1330	
11/10/2021 710 200/19 0.00/12 0.00/13 0.00/14 0.00/23 0.00/13 0.00/14		11/10/2021	6 to 7	4	<0.00210	<0.00119	<0.00142	<0.000754	1350	<2.10	<0.358	1350	23.5
11/10/2021 819 0 0.00000 0.00000 0.00011 0.00000 0.00020 0.00020 0.00020 0.00020 0.00020 0.00020 0.00020 0.00020 0.00020 0.00020 0.00020 0.00020 0.00020 0.00020 0.00020 0.00020 0.00020 0.00020 0.00010 0.00020 0.00010 0.00000 0.00020 0.00110 0.00011 0.00001 0.00020 2.601 1.11 2.200 2.85 11/10/2021 416 0.00000 0.00013 0.00110 0.00015 0.00005 0.00030 2.281 0.71 1.31 1.260 2.85 11/10/2021 416 0.00000 0.00013 0.00114 0.00171 0.00086 0.0033 2.281 0.71 1.11 1.11 1.11 2.81 11/10/2021 516 0.00070 0.00073 0.00071 0.00073 0.00071 0.00074 0.00274 2.04 1.42 1.70 2.99 11/10/2021 110 0.00071 <th></th> <td>11/10/2021</td> <td>7 to 8</td> <td></td> <td><0.00197</td> <td><0.00112</td> <td><0.00133</td> <td><0.000707</td> <td><0.0273</td> <td><2.02</td> <td><0.344</td> <td>827</td> <td>20.4</td>		11/10/2021	7 to 8		<0.00197	<0.00112	<0.00133	<0.000707	<0.0273	<2.02	<0.344	827	20.4
11/102021 010 000000 000000 0000000 000000 000000 000000 0000000 0000000 0000000 0000000 0000000 0000000 0000000 000000 000000 0000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 0000000 000000 000000 000000 000000 0000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 0000000 0000000 0000000<		11/10/2021	8 to 9		<0.00206	<0.00117	<0.00139	<0.000740	<0.0280	<2.08	< 0.354	1000	22.6
Bit 1002021 1102 000004 0.00034 0.00133 0.00136 0.000041 0.00034 2.67 7.18 2200 SB-23 111/102021 210.3 0.00004 0.00133 0.00133 0.00076 0.00234 2.67 7.18 2200 2.85 SB-24 111/102021 310.4 0.00004 0.00119 0.00143 0.000766 0.0224 2.11 1.31.J 1200 2.35 111/102021 510.6 0.00007 0.00133 0.00142 0.00088 0.0038 2.230 0.0133 2.21 111/102021 510.6 0.00070 0.00011 0.00118 0.00013 0.00073 0.0227 2.27 0.511.J 1160 22.1 111/102021 710.8 200071 0.00113 0.00113 0.00073 0.00274 2.001 2.207 0.600 J 926 22.1 111/102021 710.8 200071 0.00170 0.00113 0.000714 0.00071 0.00071 0.00171 0.00075		11/10/2021	0 to 1		<0.00225	-0.00128	<0.00152	-0.000808	-0.0206	2.40.1	9.21	2200	26.7
Bit 11/10/2021 1 for 2 1 00.0054 00.00136 00.00164 00.00241 00.0084 2.8034 2.803 2.803 2.803 2.803 2.803 2.803 2.803 2.803 2.803 2.813 11/10 2.203 11/10 2.203 11/10 2.201 1.81 1.231 1.233 1.231 1.236 1.231 1.231 1.231 1.236 2.366 2.316 <th></th> <td>11/10/2021</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.21</td> <td></td> <td></td>		11/10/2021									0.21		
Bit 1/1/02021 3103 4 00.0078 00.0013 00.0076 00.0283 62.10 32.83 1/10 22.83 Bit 23 11/10/2021 3104 4 00.0076 00.0028 0.00284 <2.11 1.31 1.360 23.6 11/10/2021 4 105 0.00086 0.00233 0.00135 <0.00086 <0.00284 <0.00284 <0.00284 <0.00284 <0.00284 <0.00284 <0.00284 <0.00284 <0.00284 <0.00285 <0.00162 <0.000736 <0.00274 <0.00073 <0.00274 <0.00073 <0.00274 <0.00173 <0.00274 <0.00773 <0.00274 <0.00774 <0.00274 <0.00774 <0.00274 <0.00774 <0.00274 <0.00774 <0.00274 <0.00774 <0.00274 <0.00774 <0.00275 <2.04 1.82 1.85 1.85 <1.85 <1.85 <1.85 <1.20 <0.00714 <0.00275 <0.0027 <0.0027 <0.0027 <0.0027 <0.0027 <0.0027 <0.0027 <0.0027 <0.0027		11/10/2021	1 to 2	1	<0.00234	<0.00133	<0.00158	<0.000841	<0.0304	2.67 J	7.18	2200	28.5
B1100201 3104 -0.00076 0.00211 0.00119 0.00136 0.00076 0.00284 0.211 1.31J 1260 23.8 11/02021 4105 -0.00236 0.00135 -0.00162 -0.00086 -0.0038 -0.230 0.231 0.511J 1160 32.1 11/102021 6107 -0.00076 0.00214 -0.00161 -0.00076 0.00274 0.027 0.0017 0.00274 0.0017 0.00274 0.0017 0.0017 0.00274 0.017 0.00174 0.0274 0.01 1.15J 1160 22.1 11/102021 010 -0.00077 0.0019 0.00113 -0.00174 0.0074 0.023 7.30 1.42J 1070 209 11/102021 0110 -0.00077 0.0019 0.00113 -0.00174 0.0075 0.0023 0.00171 0.00174 0.0214 0.00174 0.0214 0.00174 0.0214 0.00171 0.00174 0.0214 0.00174 0.0214 0.00174 0.0214 0.0124 <th></th> <td>11/10/2021</td> <td>2 to 3</td> <td></td> <td><0.00209</td> <td><0.00118</td> <td><0.00141</td> <td><0.000751</td> <td><0.0283</td> <td><2.10</td> <td>3.26 J</td> <td>1710</td> <td>23.3</td>		11/10/2021	2 to 3		<0.00209	<0.00118	<0.00141	<0.000751	<0.0283	<2.10	3.26 J	1710	23.3
B8-23 11/10/2021 4 to 5 0.00285 0.00135 <0.00162			3 to 4		< 0.00211	<0.00119	< 0.00143	< 0.000756	< 0.0284	<2.11	1.31 J	1260	23.6
Bit 1/10/2021 5 to 6 8.0009 (-0.0023) -0.00143 -0.00171 -0.00099 (-0.0027) -0.0270 -0.217 0.511 J 1160 32.1 11/10/2021 6 to 7 -0.00073 -0.0024 -0.00173 -0.00276 -2.27 0.600J 32.6 22.1 11/10/2021 7 to 8 -0.00076 -0.00113 -0.00145 -0.00076 -0.0274 -2.07 0.600J 32.6 22.1 11/10/2021 7 to 8 -0.00071 -0.0019 -0.00113 -0.00145 -0.000714 -0.0274 -2.04 1.42 J 1070 20.9 11/10/2021 1 to 2 -0.00071 -0.0019 -0.00112 -0.00134 -0.000716 -0.051 J -2.23 7.390 1460 20.7 11/10/2021 1 to 2 -0.00071 -0.0013 -0.0013 -0.00076 -0.0024 -1.48 0.631 J 1190 11.8 11/10/2021 1 to 2 -0.0016 -0.00164 -0.00112 -0.00064 -0.0246 -1.88 2.45 J 12	6B 33	11/10/2021								-0.00			
Bit Bit <th>36-23</th> <td>11/10/2021</td> <td>4105</td> <td></td> <td><0.00239</td> <td><0.00133</td> <td>K0.00102</td> <td><0.000838</td> <td><0.0308</td> <td>\$2.20</td> <td>0.070 3</td> <td>011</td> <td>29.5</td>	36-23	11/10/2021	4105		<0.00239	<0.00133	K0.00102	<0.000838	<0.0308	\$2.20	0.070 3	011	29.5
Bit 11/10/2021 6 10 / 10 3 20.0024 20.0016 20.0073 20.0073 20.07		11/10/2021	5 to 6	9	<0.00253	<0.00143	<0.00171	<0.000909	<0.0320	<2.37	0.511 J	1160	32.1
11/10/2021 7 to 8 -0.00076 -0.00121 <0.00145			6 to 7		<0.00204	<0.00116	<0.00138	<0.000733	<0.0279	<2.07	0.600 J	926	22.1
BB-24 11/10/2021 8 to 9 0 0.0013 0.00135 0.000714 0.00274 <2.04			7 to 8	< 0.00076	< 0.00214	<0.00121	< 0.00145	<0.000769	<0.0287	<2.13	1.15 J	1150	24.4
11/10/2021 0 103 4 0.00193 0.00013 0.000134 0.000134 0.001014 0.001014 0.001014 0.001014 0.001014 0.00014 0.000114 0.000114 0.000114 0.000114 0.000114 0.000114 0.000110 0.000114 0.000114 0.000114 0.000114 0.000114 0.000114 0.000114 0.000114 0.000114 0.000114 0.000114 0.000114 0.000114 0.000114 0.000114 0.000114 0.000114 0.000125 0.00112 0.000114 0.000124 0.00124 0.000124 0.00124 0.00124 0.00124 0.00164 0.00125 0.00264 0.00114 0.000164 0.00124 0.00164 0.00124 0.00123 0.00263 0.128 0.0218 0.00166 0.00166 0.00166 0.00166 0.00166 0.00166 0.00166 0.00166 0.00166 0.00166 0.00166 0.00166 0.00166 0.00166 0.00166 0.00166 0.00166 0.00166 0.00166 0.000166 0.000166 0.000166		11/10/2021											
SB-24 110 100 0.00071 3 0.00200 0.00113 0.00135 0.000719 0.0275 0.2.04 1.69 J 1360 21.2 11/10/2021 2 to 3 0.00060 0.00165 0.000935 0.00112 0.000533 0.0246 1.83 0.631 J 1190 11.8 11/10/2021 3 to 4 0.00060 0.00168 0.000954 0.00114 0.000644 0.0246 1.83 0.631 J 1190 11.8 11/10/2021 4 to 5 0.00064 0.00179 0.00102 0.00121 0.000643 0.0258 c1.91 0.573 J 1510 15.9 11/10/2021 5 to 6 2 0.00105 0.00126 0.000667 c0.0283 c1.95 c0.332 370 17.6 11/10/2021 6 to 7 7 0.00066 c0.00166 c0.00168 c0.00168 c0.00168 c0.00168 c0.00168 c0.00168 c0.00067 c0.0283 c1.95 c0.332 370 17.6 11/10/2021 1 to 8 <th></th> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				4									
BB-24 11/10/2021 11/10 2 9 <0.002/0		11/10/2021											
11/10/2021 2103 3 20.00165 20.000935 20.00112 20.000835 20.00124 21.0046 21.13 0.0313 1190 11.8 11/10/2021 3 to 4 40.00060 <0.00168 <0.000954 <0.00114 <0.00064 <0.0249 <1.85 2.45 J 1250 12.8 11/10/2021 4 to 5 <0.00064 <0.00179 <0.00102 <0.00121 <0.000643 <0.0258 <1.91 0.573 J 1510 15.9 11/10/2021 5 to 6 <0.00067 <0.00126 <0.00072 <0.0203 <2.10 0.517 J 1640 23.4 11/10/2021 6 to 7 7 <0.00166 <0.00166 <0.00067 <0.0263 <1.95 <0.332 370 17.6 11/10/2021 7 to 8 <0.00076 <0.00186 <0.0016 <0.00073 <0.0266 <1.97 <0.336 615 18.4 11/10/2021 8 to 9 <0.00073 <0.00204 <0.00173 <0.0026 <0.00173 <0.00276 <0.00		11/10/2021		9	<0.00200								
SB-24 11/10/2021 3.04 4 0.00168 <0.00094		11/10/2021	2 to 3	3		<0.000935	<0.00112	<0.000593	<0.0246	<1.83	0.631 J	1190	11.8
SB-24 11/10/2021 4 to 5 0.00064 0.00075 <0.00179		11/10/2021	3 to 4		<0.00168	<0.000954	<0.00114	<0.000604	<0.0249	<1.85	2.45 J	1250	12.8
SB-24 11/10/2021 5 to 6 -0.00075 2 -0.00075 2 -0.00142 -0.000752 -0.0283 -2.10 0.517 J 1640 23.4 11/10/2021 5 to 6 -0.00075 2 -0.00142 -0.000752 -0.0283 -2.10 0.517 J 1640 23.4 11/10/2021 6 to 7 -7 -0.00066 -0.00126 -0.000667 -0.0283 -1.95 -0.332 370 17.6 11/10/2021 7 to 8 -0.00066 -0.00166 -0.00106 -0.000667 -0.0263 -1.95 -0.332 370 17.6 11/10/2021 7 to 8 -0.00067 -0.00188 -0.00168 -0.00168 -0.00075 -0.0266 -1.97 -0.336 615 18.4 11/10/2021 0 to 1 -0.00073 -0.00116 -0.00138 -0.000752 -0.0266 -1.97 -0.336 615 18.4 11/10/2021 1 to 2 -0.0018 -0.00114 -0.00174 -0.000752 -0.0266 -1.97 1.27 J 3880 </th <th>6D 04</th> <td></td> <td>4 to 5</td> <td>< 0.00064</td> <td><0.00179</td> <td>< 0.00102</td> <td><0.00121</td> <td>< 0.000643</td> <td><0.0258</td> <td><1.91</td> <td>0.573 J</td> <td>1510</td> <td>15.9</td>	6D 04		4 to 5	< 0.00064	<0.00179	< 0.00102	<0.00121	< 0.000643	<0.0258	<1.91	0.573 J	1510	15.9
11/10/2021 5 10 6 2 0.002/9 0.001/9 0.001/2 0.000/12 0.000/12 0.000/12 0.000/12 0.001/12 0.001/12 0.001/12 0.001/12 0.001/12 0.001/12 0.001/12 0.001/12 0.001/12 0.00067 0.001/23 0.001/12 0.0001/12 <th>SB-24</th> <td>11/10/2021</td> <td></td>	SB-24	11/10/2021											
11/10/2021 0 b1 7 0.00160 0.00160 0.00120 0.00067 0.00073 0.00073 0.00017 0.00118 0.00073 0.00073 0.00017 0.00118 0.00073		11/10/2021		2									
Bit 11/10/2021 71.6 2 00.016 <0.00086		11/10/2021	6 to 7	7	<0.00186	<0.00105	<0.00126	<0.000667	<0.0263	<1.95	<0.332	370	17.6
Bit 0 8 to 9 0.00067 8 0.00199 0.00107 0.00128 0.000678 0.00266 0.197 0.0366 0.000678 0.0366 0.197 0.0366 0.000678 0.0366 0.197 0.0366 0.000678 0.0378 0.02066 0.197 0.0366 0.00073 0.0279 0.2.07 1.27 J 3880 22.1 11/10/2021 1 to 2 0.00078 0.00218 0.000123 0.00078 0.00206 0.00147 0.000769 0.0220 2.15 0.425 J 2440 25.2 11/10/2021 2 to 3 9 0.00184 0.00123 0.000659 0.0260 2.00 J 4.60 J 17.1 11/10/2021 3 to 4 0.00065 0.00184 0.00123 0.000659 0.0026 2.00 J 4.60 J 17.60 16.6 11/10/2021 3 to 4 0.0019 0.00103 0.00123 0.000657 0.0028 2.00 J 4.60 J 2.00 J 4.60 J 2.00 J 4.60 J 2.00 J 4.60 J 2.00 J		11/10/2021	7 to 8		<0.00156	<0.000886	<0.00106	<0.000562	<0.0239	<1.77	<0.302	603	9.2
SB-25 11/10/2021 0 to 1 -0.00073 3 -0.00214 <0.00173 -0.00204 <0.00116			8 to 9	< 0.00067	<0.00189	<0.00107	<0.00128	<0.000678	<0.0266	<1 97	<0.336	615	18.4
SB-25 11/10/2021 0101 3 <0.002/4		11/10/2021		8 <0.00073									
SB-25 11/10/2021 10.2 2 0.00173 <0.00173		11/10/2021	0 to 1	3	<0.00204	<0.00116	<0.00138	<0.000733	<0.0279	<2.07	1.27 J	3880	22.1
B8-25 11/10/2021 2 to 3 0.00065 9 <0.00184		11/10/2021	1 to 2		<0.00218	<0.000123	<0.00147	<0.000782	<0.0290	<2.15	0.425 J	2440	25.2
SB-25 11/10/2021 3 to 4 -0.00065 3 -0.00182 <0.00103			2 to 3	< 0.00065	<0.00184	< 0.00104	<0.00124	<0.000659	<0.0262	<1.94	1.25 B J	1480	17.1
SB-25 11/10/2021 3164 3 clubral clubral <thclubra< th=""> <thclubra< th=""> clubra<th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thclubra<></thclubra<>													
SB-25 11/10/2021 4105 7 <0.00191		11/10/2021	3 to 4	3									
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	SB-25			7									
11/10/2021 0.07 7 2000233 2000133 2000171 2000097 2000139 22.37 0.744.83 2340 32 11/10/2021 7 to 8 5 0.00191 <0.00108 <0.00129 <0.000685 <0.0268 <1.98 1.12 B J 448 18.9 11/10/2021 8 to 9 <0.00074 <0.00106 <0.00140 <0.000742 <0.0281 <2.08 4.79 B J 1310 22.77 11/10/2021 0 <0.000677 <0.00107 <0.00177 <0.000742 <0.0281 <2.08 4.79 B J 1310 22.77													
11/10/2021 7/10 5 <0.00191		11/10/2021	6 to 7	7	<0.00253	<0.00143	<0.00171	<0.000907	<0.0319	<2.37	0.744 B J	2540	32
11/10/2021 8 to 9 <0.00074		11/10/2021	7 to 8		<0.00191	<0.00108	<0.00129	<0.000685	<0.0268	<1.98	1.12 B J	448	18.9
			8 to 9	< 0.00074	<0.00206	<0.00117	<0.00140	<0.000742	<0.0281	<2.08	4.79 B.J	1310	22.7
		11/10/2021											
		11/10/2021	9 to 10		<0.00189	<0.00107	<0.00128	<0.000677	<0.0266	<1.97	1.46 B J	358	18.4

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Table 1 Historical Soil Investigation Analytical Data CEMC Federal 4 Com #001 Eddy County, New Mexico

		Sample										
Boring Location ID	Sample Date	Depth (feet bgs)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH-GRO (mg/Kg)	TPH-DRO (mg/Kg)	TPH-ORO (mg/Kg)	Chloride (mg/Kg)	% Moisture
l.	NMAC Closure		10				50		100		600	
	11/10/2021	0 to 1	< 0.00320	<0.00889	< 0.00504	< 0.00602	< 0.00320	0.142	1590	199	1350	26.2
			< 0.00071	< 0.00199	<0.00113		<0.000715	0.0483 J	740		985	
	11/10/2021	1 to 2	5	<0.00199	<0.00113	<0.00135	<0.000715	0.0463 J	740	170	965	20.9
		2 to 3	<0.00050	< 0.00140	<0.000793	< 0.000946	<0.000502	0.0259 J	230	79.1	486	3.6
-	11/10/2021		2							-		
-	11/10/2021	3 to 4	<0.00286 <0.00071	< 0.00796	<0.00451	< 0.00539	< 0.00286	59.5	2960 J3 V	215	1430	21
SB-26	11/10/2021	4 to 5	0	<0.00198	<0.0012	<0.00134	<0.000710	58.8	3000	189	1100	20.6
	11/10/2021	5 to 6	<0.00090 2	<0.00251	<0.00142	<0.00170	<0.000902	5.73	2330	112	479	31.7
	11/10/2021	6 to 7	<0.00093 4	<0.00260	<0.00147	<0.00176	<0.000934	73.2	1250	116	1260	33.3
	11/10/2021	7 to 8	<0.00071 8	0.00341 J	<0.00113	<0.00135	<0.000718	358	5050	327	1460	21.2
	11/10/2021	8 to 9	<0.000636	0.00238 J	< 0.00100	< 0.00120	< 0.000636	376	3670	211	691	15.3
ľ	11/10/2021	9 to 10		0.00267 J	0.00218 J	0.0640	<0.000646	300	1750	123	484	16
	11/10/2021	0 to 1	< 0.000821	< 0.00229	< 0.00130	< 0.00155	< 0.000821	0.0321 J	<2.22	3.93 B J	240	27.5
	11/10/2021	1 to 2	<0.000871	< 0.00242	<0.00137	< 0.00164	<0.000871	< 0.0311	<2.31	3.14 B J	374	30.2
_	11/10/2021	2 to 3	<0.000946		< 0.00149	< 0.00178	< 0.000946	0.0333 J	<2.44	1.12 B J	377	33.9
-	11/10/2021	3 to 4	< 0.000730		< 0.00115	< 0.00138	< 0.000730	<0.0278	<2.06	1.67 B J	594	22
SB-27	11/10/2021	4 to 5	< 0.000736		< 0.00116	< 0.00139	<0.000736	0.0290 J <0.0306	<2.07	1.61 B J 1.06 B J	730 626	22.4
-	11/10/2021	5 to 6	< 0.000848		< 0.00134	< 0.00160			<2.27			29
-	11/10/2021 11/10/2021	6 to 7 7 to 8	<0.000804 <0.000676	<0.00224	<0.00127 <0.00107	<0.00152 <0.00127	<0.000804 <0.00676	<0.0295 <0.0266	<2.19 <1.97	1.33 B J 1.49 B J	139 402	26.5 18.3
-	11/10/2021	8 to 9	<0.000878	< 0.00188	<0.00107	<0.00127	<0.000707	<0.0200	<1.97 4.46 J	7.83	637	20.4
	11/10/2021	9 to 10	<0.000685	<0.00191	<0.00108	<0.00129	<0.000685	0.0339 J	<1.99	1.15 B J	57.8	18.9
	10/14/2019	0 to 1	0.000633	0.00139	0.00102	0.00113	0.004173	0.0648	229	153	178	20.2
	10/14/2019	1 to 2	0.000548	0.0012	0.000887	0.000983	0.003618	0.0637	604	300	233	25.4
MW-1	10/14/2019	4 to 5	0.000625	0.00137	0.00101	0.00112	0.004125	0.179	1600	806	114 J	20.3
	10/14/2019	9 to 10	0.000669	0.00146	0.00108	0.0012	0.004409	0.0642	34.7	34.7	97.3 J	32.2
	10/14/2019	14 to 15	0.000601	0.00132	0.000973	0.00108	0.003974	0.0887 J	394	175	127 J	29.6
Legend:												
	Analytical value is gre	ater than or ec	ual to NMAC	closure criter	ia							
	Percent	1										
	Milligram(s) per kilogra	am										
	Analyte was not detec		specified met	thod reporting	limit							
	Below ground surface											
	Benzene, toluene, eth											
	Total Petroleum Hy											
	Total Petroleum Hy				ics							
	Total Petroleum Hy			ge Organics	1							
	New Mexico Admir											
MS/MSD	Matrix spike/matrix	spike duplic	ate									
Lab Qualifiers:												
	Compound was for	ind in the bla	ank and sar	nnle								
	The sample(s) wer				over the highest	point of the calib	ration curve or c	lue to matrix i	nterference		-	-
	Sample was prepp					point or the callo			inclierence			
	The target analyte					and above the det	ection limit					-
	MS/MSD recoverie	s were found	to be outsi	te of the lah	oratory control li	nits due to possil	ole matrix/chemir	al interference	e. or a conce	entration of t	arget	
	analyte high enoug	h to affect th	e recovery	of the spike	concentration				0, 0, 0 00100		Gigot	
Notes:			2 . 000 roly	2. 210 opiko								





SITE DESCRIPTION AND BACKGROUND

The following site description and background section provides an overview of the site location and regional setting including geology, hydrogeology, nearby drinking water wells, surface water, and climate.

Site Location and Description

The site is located approximately seven miles northeast of Carlsbad, New Mexico along the northeast quarter of the southwest quarter of Section 4, Township 21- South, Range 27-East. The properties surface ownership is owned by Bureau of Land Management and Chevron Midcontinent, L.P. holds the oil and gas lease. The site is located on the western edge of the Permian Basin, a 75,000-square-mile area in Texas and New Mexico that is populated by numerous oil and gas production wells. In New Mexico, the Permian Basin extends to Roosevelt County to the north, Chaves and Eddy County to the west, and to Texas to the south.

Nearby Water Wells and Surface Water

Based on review of satellite imagery, Lake Avalon is located approximately 3 miles southwest of the site (GoogleEarth 2019). In January 2019, Arcadis reviewed information obtained from the New Mexico Office of the State Engineer (NMOSE) online database (NMOSE 2019), which indicated that there is one water supply well located approximately 760 ft (ft) to the east southeast from the Federal 4 COM #001 oil well. The primary use for this water well is for domestic and livestock watering. The NMOSE online database identified one water-supply well within a 1,000-meter radius of the site (NMOSE 2019). In addition, results of the database review indicate average depth to groundwater in the area is approximately 14 ft below ground surface (bgs).

Climate

Monthly average temperatures near the site vary from a minimum of 27.8 degrees Fahrenheit (°F) in January to a maximum of 95.6°F in July (Western Regional Climate Center [WRCC] Carlsbad, New Mexico [291469] weather station). Average annual precipitation recorded for the area of the site from the available WRCC period of record between 1900 and 2016 was approximately 12.84 inches per year (WRCC 2019a). Due to the arid climate, the site experiences low precipitation and high evaporation rates. Average annual evaporation from the available WRCC period of record between 1914 and 2005 was approximately 87.68 inches per year (WRCC 2019b).

Regional Geology and Hydrogeology

The site elevation is approximately 3,190 ft above mean sea level and is located above the Capitan Reef (Limestone) bed along the northern edge of the Paleozoic Era Delaware Basin with the Pecos River to the east and the Guadalupe Mountains to the west (Bachman 1980). In the early Permian, the Delaware Basin was a shallow marine environment supplied with seawater through the Hovey Channel and

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resulted in limestone and shale deposits. Throughout the Permian, the basin underwent subsidence.

Patch reefs, built primarily from calcareous sponges, encrusting algae, and limy mud, began forming along the shoreline edges, eventually resulting in the formation of the Capitan Reef. The Capitan Limestone is characterized as a massive white to gray, fossiliferous limestone bed. In the vicinity of the site, the limestone is further described as the fore-reef facies and is defined by evaporites and thin bedded limestone, shale, and sandstone units (Standen 2009). Sediment deposition continued as sea level dropped and continued to fill the basin area. The Delaware Basin is overlain with evaporites, primarily gypsum and halite, from the Castile and Salado Formations, followed by the carbonate, evaporite, and clastic sediments of the Rustler Formation, and lastly, by the red beds of the Dewey Lake Formation. The Delaware Basin and Capitan Reef area underwent extensive erosion and dissolution throughout the Mesozoic and Cenozoic eras and resulted in an ancient karst plain that was subsequently filled in by alluvial deposits known as the Pecos Valley Alluvium (TWBD 2019). The Pecos Valley Alluvium is predominantly composed of surficial deposits of transmissive sands and gravels mixed with low-permeability clays, primarily from the Pecos River (Barrol 2004).

The main source of fresh groundwater in the area comes from the subterranean karstic carbonate Permian Capitan Reef Aquifer which, in the vicinity of the site, is approximately 10 to 14 miles wide and has an average thickness of approximately 1,600 ft. The aquifer is confined by the Rustler, Salado, and Castile formations beneath it (Barrol 2004). Average depth to water based on the current wells in the vicinity of the site is approximately 32 bgs (NMOSE 2019). The primary natural aquifer recharge source is from the west by the precipitation over and area to of approximately 800 square miles in and west of the Guadalupe Mountains. Percolation, direct infiltration, and surface water are secondary natural recharge sources. Leakage from Lake Avalon to the west is the main source of artificial aquifer recharge (Barrol 2004).

INITIAL RELEASE RESPONSE

On June 2018, four above ground storage tanks (ASTs) were removed and reclamation of the site was initiated. During reclamation activities, potential hydrocarbon impacts were identified beneath the former location of the ASTs and within test pits located east and south of the former ASTs. Based on field observations, CEMC excavated soils beneath the former AST battery. The soil beneath AST 1 and 3 exhibited higher hydrocarbon impacts than the soil beneath AST 2 and 4. CEMC personnel indicated potential hydrocarbon impacts appeared to be consistently observed between 45 and 60-degree angles from the ASTs. Four test trenches approximately 6 to 7 ft by 5 ft were excavated on the east and south sides of the former AST battery as depicted on Figure 2. Field observations indicated potential hydrocarbon impacts at a minimum of 5 ft below ground surface. A total of 225 yards of investigative derived material was removed and transported to R360 Environmental Solutions for proper disposal. Additionally, associated production equipment was decommissioned and removed from the site. Pursuant to New Mexico Oil Conservation Division (NMOCD) requirements (NMOCD 1993), Chevron MCBU submitted a Notification of Release and Correction (Form C-141) to the NMOCD, detailing the location, volume of release, and initial and planned cleanup efforts for the site.

2018 SOIL INVESTIGATION

In November 2018, Arcadis conducted site assessment activities to facilitate the subsurface geology characterization, evaluation of hydrocarbons, and soil sample collection. Soil boring locations were

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selected based on the locations of observed staining during the AST removal and trenching as well as proximity of pipelines and other equipment at the site.

On November 7, 2018, to evaluate the potential extent of impact to soil at the site, Arcadis advanced five shallow soil borings to approximately 10 to 15 ft bgs. B-1 was installed beneath former AST 1and B-2 through B-5 were advanced around the perimeter of the former tank battery berms to support delineation (Figure 2). Although B-1 was initially proposed as a deep soil boring, targeting 50 ft bgs, wet soil was encountered at approximately 12 ft bgs indicating a shallow groundwater table exists at the site. Prior to conducting drilling activities, each boring location was cleared for subsurface utilities with an air knife. Once cleared, air rotary technology was used to advance the soil borings and collect grab samples. Soil was continuously logged for stratigraphic characteristics according to the United Soil Classification System (USCS). Field personnel recorded soil types and other pertinent geologic data on boring logs. Elevated photo ionization detection (PID) readings (1,341 to 15,000 parts per million [ppm]) were recorded at soil boring location B-1 while locations B-2 through B-5 exhibited lower PID readings (15.9 to 52.8 ppm). Lithologic data indicated the subsurface material consisted primarily of gypsiferous caliche and sand layers from approximately 0 to 10 ft bgs. Three soil samples were collected from each boring location at varying upper, middle, and lower depths, which were determined based on field and PID observations. A total of 15 samples were collected in clean, laboratory-supplied glass jars, labeled, in an ice-chilled cooler, and submitted under appropriate chain of custody protocols to Xenco Laboratories in Lubbock, TX. Soil samples collected from

each boring were analyzed for:

- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B
- Total petroleum hydrocarbons (TPH) gasoline range organics (GRO, diesel range organics (DRO), oil range organics (ORO) by EPA Method 8015B
- Chloride by EPA Method 300.0
- Percent moisture by SM 2540B

Following sampling, the boreholes were filled with soil cuttings from total depth to ground surface. The ground surface was restored to match the surrounding conditions.

Soil Sample Results

The analytical data from the soil samples collected in November 2018 are compared to the closure criteria (CC) outlined in Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) concerning natural resources and wildlife, oil and gas, and releases which became effective on

August 14, 2018. The analytical results for the 15 soil assessment samples are summarized below:

- Benzene was not detected above the laboratory reporting limit in any of the 15 samples
- Toluene was not detected above the laboratory reporting limit in any of the 15 samples
- Ethylbenzene was detected in each of the three samples collected at B-1 with concentrations ranging from 0.374 milligrams per kilogram (mg/kg) (2 to 3 ft bgs) to 6.29 mg/kg (9 to 10 ft bgs)
- Total Xylenes were detected in each of the three samples collected at B-1 with concentrations ranging from 0.747 mg/kg (2 to 3 ft bgs) to 23.6 mg/kg (9 to 10 ft bgs)
- Total BTEX compounds were detected in each of the three samples collected at B-1 with concentrations ranging from 1.12 mg/kg (2 to 3 ft bgs) to 29.9 mg/kg (9 to 10 ft bgs). Total BTEX concentrations do not the exceed the 2018 NMAC CC of 50 mg/kg.

- Chloride was detected in each of the 15 samples collected at the site with concentrations ranging from an estimated 12.9 mg/kg at B-1 (6 to 7 ft bgs) to 2,710 mg/kg at B-5 (6 to 7 ft bgs). Chloride concentrations exceed the 2018 NMAC CC of 600 mg/kg in each of the samples collected from B-5 as well as one sample collected at B-2 (0 to 1 ft bgs) and one sample collected from B-3 (14to 15 ft bgs)
- TPH-GRO was detected in each of the three samples collected at B-1 with concentrations ranging from 74.4 mg/kg (2 to 3 ft bgs) to 903 mg/kg (9 to 10 ft bgs)
- TPH-DRO was detected in each of the three samples collected at B-1 with concentrations ranging from 1,810 mg/kg (2 to 3 ft bgs) to 4,800 mg/kg (9 to 10 ft bgs). TPH-DRO was also detected in one soil sample collected from B-5 (6 to 7 ft bgs) with an estimated concentration of 10.5 mg/kg
- TPH-ORO was detected in each of the three samples collected at B-1 with estimated concentrations ranging from 224 mg/kg (2 to 3 ft bgs) to 453 mg/kg (9 to 10 ft bgs)
 The 2018 NMAC CC for total TPH compounds (summation of ORO, GRO, and DRO) concentrations is 100 mg/kg. Total TPH concentrations exceed the CC in each of the three samples collected from B-1.

2019 SOIL INVESTIGATION

In October 2019, Arcadis conducted site assessment activities to characterize the lateral and vertical extents of potential soil impacts at the Site. Soil boring locations were selected based on the locations of observed staining during the AST removal and trenching, proximity of pipelines and other equipment at the site, as well as results of previous soil sampling activities completed at the Site in November 2018.

In October 2019, to evaluate the potential extent of impacts to soil at the Site, Arcadis advanced four shallow soil borings (B-6 through B-9) and one temporary monitoring well (MW-1). Prior to conducting drilling activities, each boring location was cleared for subsurface utilities with an air knife. Soil was continuously logged for stratigraphic characteristics according to the Unified Soil Classification System (USCS). Slightly elevated (>3.0 PPM) photo ionization detection (PID) readings (6.1 to 192 parts ppm) were recorded at soil boring/temporary monitoring well location MW-1, as well as at soil boring location B-9 (9.5 to 379 ppm). Lower PID readings (0.0 to 4.1 ppm) were recorded at soil boring locations B-6, B-7, and B-8.

Four soil samples were collected from each boring location, and five soil samples were collected from temporary monitoring well MW-1. A total of 21 samples were collected in clean, laboratory-supplied glass jars, labeled, placed in an ice-chilled cooler, and were shipped by Fed-Ex priority overnight to Eurofins TestAmerica analytical laboratory under chain-of-custody protocol. Soil samples collected from each boring were analyzed for the following:

- Chloride by USEPA Method 300
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by USEPA Method 8260B
- Total petroleum hydrocarbons (TPH) diesel range organics (DRO), oil range organics (ORO), and gasoline range organics (GRO) by Method SW8015B

Soil Sample Results

The analytical data from the soil samples collected in October 2019 were compared to the closure criteria (CC) outlined in Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) concerning natural resources and wildlife, oil and gas, and releases which became effective on August 14, 2018. The analytical results for the soil assessment samples are summarized below:

- BTEX concentrations were reported below the NMAC standard of 50 milligrams per kilogram (mg/Kg) at all sample locations
- The 2019 NMAC CC for total TPH compound (summation of ORO, GRO, and DRO) concentrations is 100 mg/kg for a site with groundwater less than 50 feet bgs. TPH concentrations exceeded the NMAC standard of 100 mg/kg in:
 - o All sample depths collected at B-9:
 - 0 1 ft bgs: 224 mg/kg
 - 1 2 ft bgs: 223 mg/kg
 - 4 5 ft bgs: 281 mg/kg
 - 9 10 ft bgs: 135 mg/kg
 - Four sample intervals collected at MW-1
 - 0 1 ft bgs: 229 mg/kg
 - 1 2 ft bgs: 604 mg/kg
 - 4 5 ft bgs: 1,600 mg/kg
 - 14 15 ft bgs: 394 mg/kg
- Chloride concentrations exceeded the NMAC standard of 600 mg/Kg in;
 - One sample interval collected at B-6:
 - 1 2 ft bgs: 2,310 mg/kg
 - Two sample intervals collected at B-7:
 - 0 1 ft bgs: 1,680 mg/kg
 - 1 2 ft bgs: 2,350 mg/kg
 - Two samples collected from B-9:
 - 0 1 ft bgs: 1,300 mg/kg
 - 1 2 ft bgs: 754 mg/kg

2019 GROUNDWATER ASSESSMENT

Monitoring Well Installation and Groundwater Sampling

Groundwater was gauged and samples were collected at the Site in 2019 from temporary monitoring well MW-1. The sample collected from MW-1 was analyzed for BTEX, TPH, and TDS (total dissolved solids). Temporary monitoring well MW-1 was plugged and abandoned after sampling.

Groundwater Sample Results

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Groundwater analytical results were compared to the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards. The analytical results for the groundwater sample collected from MW-1 in October 2019 are summarized below.

• Chloride was detected at a concentration of 387 milligrams per liter (mg/L) in the groundwater sample collected from MW-1 which exceeded the NMWQCC standard of 250 mg/L.

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- Benzene, toluene, ethylbenzene, and total xylenes reported below the NMWQCC standards of 0.01, 0.75, 0.75, and 0.62 mg/L, respectively, in MW-1 in October 2019.
- TDS exceeded the NMWQCC standard of 1,000 mg/L in monitoring well MW-1 at a concentration of 4,790 mg/L in October 2019

2020 SOIL INVESTIGATION

In November 2020, Arcadis conducted site assessment activities to characterize the lateral and vertical extents of potential soil impacts at the Site. Soil boring locations were selected based on the locations of observed staining during the AST removal and trenching, proximity of pipelines and other equipment at the site, as well as results of previous soil sampling activities completed at the Site in November 2018 and October 2019.

In November 2020, to evaluate the potential extent of impacts to soil at the Site, Arcadis advanced nine shallow soil borings (SB-9 through SB-17). Prior to conducting drilling activities, each boring location was cleared for subsurface utilities with an air knife. Soil was continuously logged for stratigraphic characteristics according to the Unified Soil Classification System (USCS). Elevated (>3.0 parts per million (ppm)) photo ionizing device (PID) readings were observed at SB-14 and SB-15 at depths of 1 to 9 ft bgs ranging from 6.9 to 238 ppm, and at depths of 2 to 8 ft bgs ranging from 6.0 to 187 ppm, respectively.

Soil samples were collected from each boring location at surface (0-1 ft bgs) and every foot to a total depth of 10 ft bgs for SB-9 through SB-13, 9 ft bgs for SB-14 and 15, and 4 ft bgs for SB-16 and 17. A total of 49 samples were collected in clean, laboratory-supplied glass jars, labeled, placed in an ice-chilled cooler, and were shipped by Fed-Ex priority overnight to Eurofins TestAmerica analytical laboratory under chain-of-custody protocol. Soil samples collected from each boring were analyzed for the following:

- Chloride by USEPA Method 300
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by USEPA Method 8260
- Total petroleum hydrocarbons (TPH) diesel range organics (DRO), oil range organics (ORO), and gasoline range organics (GRO) by Method SW8015B

Soil Sample Results

The analytical data from the soil samples collected in November 2020 were compared to the closure criteria (CC) outlined in Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) concerning natural resources and wildlife, oil and gas, and releases which became effective on August 14, 2018. The analytical results for the soil assessment samples are summarized below:

- BTEX concentrations were reported below the NMAC standard of 50 milligrams per kilogram (mg/Kg) at all sample locations
- The 2019 NMAC CC for total TPH compound (summation of ORO, GRO, and DRO) concentrations is 100 mg/kg for a site with groundwater less than 50 feet bgs. TPH concentrations exceeded the NMAC standard of 100 mg/kg in:
 - o All seven (7) sample locations at SB-14
 - 0 1 ft bgs: 1,150 mg/kg
 - 1 2 ft bgs: 1,330 mg/kg
 - 2 3 ft bgs: 1,120 mg/kg
 - 3 4 ft bgs: 2,510 mg/kg

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- 5 6 ft bgs: 5,110 mg/kg
- 7 8 ft bgs: 5,970 mg/kg
- 8 9 ft bgs: 809 mg/kg
- Five (5) locations at SB-15
 - 0 1 ft bgs: 190 mg/kg
 - 1 2 ft bgs: 117 mg/kg
 - 2 3 ft bgs: 1,770 mg/kg
 - 3 4 ft bgs: 998 mg/kg
 - 7 8 ft bgs: 139 mg/kg
- Chloride concentrations exceeded the NMAC standard of 600 mg/Kg in;
 - o All seven (7) sample locations at SB-9
 - 0 1 ft bgs: 1,360 mg/kg
 - 1 2 ft bgs: 4,210 mg/kg
 - 2 3 ft bgs: 2,070 mg/kg
 - 3 4 ft bgs: 1,460 mg/kg
 - 5 6 ft bgs: 2,760 mg/kg
 - 7 8 ft bgs: 1,390 mg/kg
 - 9 10 ft bgs: 1,690 mg/kg
 - Six (6) sample locations in SB-11
 - 0 1 ft bgs: 715 mg/kg
 - 1 2 ft bgs: 789 mg/kg
 - 3 4 ft bgs: 2,300 mg/kg
 - 5 6 ft bgs: 2,480 mg/kg
 - 7 8 ft bgs: 1,090 mg/kg
 - 9 10 ft bgs: 917 mg/kg
 - Five (5) sample locations in SB-12
 - 0 1 ft bgs: 7,660 mg/kg
 - 1 2 ft bgs: 7,850 mg/kg
 - 2 3 ft bgs: 2,010 mg/kg
 - 3 4 ft bgs: 936 mg/kg
 - 5 6 ft bgs: 3,990 mg/kg
 - Three (3) sample locations in SB-16
 - 0 1 ft bgs: 1,230 mg/kg
 - 1 2 ft bgs: 863 mg/kg
 - 2 3 ft bgs: 803 mg/kg
 - All four (4) sample locations in SB-17
 - 0 1 ft bgs: 1,240 mg/kg
 - 1 2 ft bgs: 602 mg/kg
 - 2 3 ft bgs: 1,820 mg/kg
 - 3 4 ft bgs: 942 mg/kg

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

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CONDITIONS

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Action 395106

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	395106
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS		
Created By	Condition	Condition Date
michael.buchanan	Review of the 2024 Assessment Activities Work Plan for Federal 4 Com #001: Content is satisfactory is hereby approved with the following condition: 1 As groundwater has been confirmed to be impacted at this site, please collect soil samples at every foot to a depth of 14 feet; depth to groundwater is approximately 14 feet from surface. 2. Install eight (8) soil borings as proposed at locations, with the additional four feet to groundwater. 3 Submit soil samples for BTEX, TPH and chloride analyses. 4. Please submit the work plan results to OCD within sixty (60) days from the receipt of this approval.	1/14/2025