



Jason Michelson
Operations Lead, Portfolio Operations Central

July 12, 2024

Ms. Ashley Maxwell
Environmental Specialist
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: Bass #4
Case No. 1RP-1196
Incident No. nPAC0704334283
Remediation Summary and Soil Closure Request Report

Ms. Maxwell,

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

- Bass # 4 Remediation Summary and Soil Closure Request Report

Arcadis U.S., Inc. (Arcadis) has prepared this Remediation Summary and Soil Closure Request Report on behalf of Chevron U.S.A. Inc., for soil remediation activities at the Bass #4 (Site), located in Lea County, New Mexico. Please do not hesitate to call Scott Foord with Arcadis at 713-953-4853 or myself at 832-854-5601, should you have any questions.

Respectfully,

Jason Michelson

Encl. Bass #4 Remediation Summary and Soil Closure Request Report

C.C. Amy Barnhill, Chevron/MCBU

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Portfolio Operations - Central
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Chevron U.S.A., Inc.

Remediation Summary and Soil Closure Request Report

Bass #4

Case No. 1RP-1196

Incident No. nPAC0704334283

July 12, 2024

Remediation Summary and Soil Closure Request Report

Remediation Summary and Soil Closure Request Report

Bass #4

Case No. 1RP-1196

Incident No. nPAC0704334283

July 12, 2024

Prepared By:

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Prepared For:

Mid-Continent Business Unit
Chevron North America Exploration and
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Morgan Jordan
Project Manager



Scott Foord, PG
Program Manager

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Remediation Summary and Soil Closure Request Report

Contents

1 Introduction 1

2 Project Summary 1

3 Pre-Remediation Soil Assessments and Site Characterization 1

4 Closure Criteria for Soils Impacted by a Release 2

5 Remediation Activities Summary..... 2

 5.1 Soil Removal 2

 5.2 Excavation Confirmation Sampling Activities 2

 5.3 BTEX 3

 5.4 TPH..... 3

 5.5 Chloride 3

6 Restoration and Reclamation 3

7 Summary 3

8 Soil Closure Request..... 3

Tables

Table 1. 2023 Soil Analytical Results

Figures

Figure 1. Site Location Map

Figure 2. Excavation Base Soil Sample Locations Map

Figure 3. Excavation Sidewall Soil Sample Locations Map

Appendices

Appendix A. Initial C-141 Form Incident # nPAC0704334283

Appendix B. Boring Log- POD # CP 01090 POD 1

Appendix C. Work Plan

Appendix D. Soil Remediation Photographic Log

Appendix E. Laboratory Analytical Reports

Remediation Summary and Soil Closure Request Report

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Remediation Summary and Soil Closure Request Report (Report), on behalf of Chevron U.S.A., Inc. (Chevron), for the release site known as the Bass #4 (Site) located at coordinates: 32.538221, -103.698416.

2 Project Summary

The Site is located approximately 18 miles southwest of Eunice, in Unit G, Section 30, Township 20 South, Range 33 East, Lea County, New Mexico. As of October 2023, the site is currently active. The Site is located on New Mexico State Land; the lease is currently operated by Chevron U.S.A., Inc. A Site Location Map is included as **Figure 1**.

On January 27, 2007, a coupling on the water transfer pump failed causing the water tank to overflow and release approximately 5.5 barrels (bbls) of produced water and oil at the Site. Oil was reportedly contained within the dike area covering approximately 120 square feet (sq ft). According to the Initial C-141 Form submitted on January 27, 2007, a vacuum truck was dispatched upon discovery and recovered approximately 5 bbls of standing fluid. The Initial C-141 Form was approved with conditions and assigned remediation permit number 1RP-1196 and incident number nPAC0704334283. The Initial C-141 Form is included as **Appendix A**.

According to the New Mexico Office of the State Engineers (NMOSE) database, there is a well log on file for POD # CP 01090 POD 1 from 2022 stating an exploratory soil boring was drilled to 55 ft below ground surface (bgs) approximately 0.25 miles south of the Site and no groundwater was encountered. The well log is included as **Appendix B**.

On August 15, 2023, Chevron submitted a Remediation and Restoration Work Plan to the New Mexico Oil Conservation Division (NMOCD) and New Mexico State Land Office (NMSLO), and on August 16, 2023 the NMOCD approved the Work Plan. The approved Work Plan is included as **Appendix C**.

3 Pre-Remediation Soil Assessment and Site Characterization

In 2020 Arcadis personnel collected soil samples from six locations (SB-1 through SB-6) within the release area (bermed tank battery). The soil samples were collected with a hand auger at depths ranging from the surface to approximately 4 ft bgs. Hand auger refusal was encountered within all boring locations. The soil samples collected were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) by United States Environmental Protection Agency (USEPA) Method 8021B; total petroleum hydrocarbons (TPH) including diesel range organics (DRO), gasoline range organics (GRO), and oil range organics (ORO) by USEPA Method 8015; and chloride by USEPA Method 300. TPH exceeded the NMAC reclamation standard for soil within the first 4 feet of 100 milligrams per kilogram (mg/kg) at shallow depths (0.25 - 0.50 ft bgs) at five sample locations SB-1 through SB-4 and SB-6.

Remediation Summary and Soil Closure Request Report

4 Closure Criteria for Soils Impacted by a Release

The soil analytical results were compared to the revised New Mexico Administration Code (NMAC) screening levels for restoration standards specified in NMAC 19.15.29.13 D (1).

| Constituent | Limit (mg/kg) |
|-------------------|---------------|
| Benzene | 10 mg/kg |
| BTEX | 50 mg/kg |
| TPH (GRO+DRO+MRO) | 100 mg/kg |
| Chloride | 600 mg/kg |

5 Remediation Activities Summary

5.1 Soil Removal

Soil remediation activities were performed by Arcadis from October 16 through 19, 2023. PID readings, chloride field screening utilizing Hach® test strip results, and analytical results from the pre-remediation assessment activities were evaluated prior to and during remediation activities to determine the horizontal and vertical extent to the surface affected by the spill.

The western excavated area covered an approximate 280 square foot area on west side of tank battery. The center excavated area covered an approximate 125 square foot area on north side of the tank battery. The eastern excavated area covered an approximate 150 square foot area on the east side of tank battery. Excavation activities were conducted from the surface to a maximum depth of approximately 1 foot bgs within the release area. Approximately 18 cubic yards of impacted soil was excavated, stockpiled on-site adjacent to the release area on 20 mil plastic sheeting, and covered with 20 mil plastic sheeting during remediation activities prior to disposal activities. The limits of the excavations are presented on **Figure 2**.

The stockpiled soil was transported off site and disposed of at the Lea Land Landfill facility located at Mile Marker 64, US Highway 62/180 East, Carlsbad, New Mexico as Class 2 non-hazardous material on October 27, 2023. Copies of disposal manifests can be provided upon request. Photographic documentation of the excavation activities is included in **Appendix D**.

5.2 Excavation Confirmation Sampling Activities

Arcadis, personnel conducted excavation confirmation soil sampling activities on October 16 through 19, 2023 for laboratory analysis. These activities included collection of a total of four composite base samples (B-1 through B-4) and three composite sidewall samples (SW-1 through SW-3). All composite samples were collected at intervals to maintain an approximate 200 square foot sample space or less. Composite base samples (B-1, B-2, & B-4) and sidewall samples (SW-1 and SW-2) were determined to have concentrations greater than the applicable NMAC standards specified within 19.15.29 for Total TPH. Additional soil was excavated from those areas and composite

Remediation Summary and Soil Closure Request Report

base samples (B-1A, B-2A, & B-4A) and sidewall samples (SW-1A and SW-2A) were subsequently collected for laboratory analyses.

The soil confirmation soil samples were collected in four-ounce jars provided by Eurofins/Xenco (Eurofins) located in Midland, Texas, then placed on ice and shipped to Eurofins to be analyzed for BTEX by USEPA Method 8021, TPH by USEPA Method 8015M for GRO, DRO, and ORO, and chloride by USEPA Method 300. Confirmation soil analytical results are shown in **Table 1**. Base composite confirmation sample locations are depicted on **Figure 2** and sidewall composite confirmation sample locations are depicted on **Figure 3**. Laboratory analytical reports are included in **Appendix E**.

5.3 BTEX

Benzene concentrations were reported below the NMAC standard of 10 mg/kg at all composite confirmation soil sample locations. BTEX concentrations were reported below the NMAC standard of 50 mg/kg at all composite confirmation soil sample locations.

5.4 TPH

Total TPH concentrations were reported below the NMAC screening standard of 100 mg/kg at all composite confirmation soil sample locations following remediation activities.

5.5 Chloride

All base and sidewall composite confirmation soil samples collected within the excavated area were below the NMAC reclamation limit of 600 mg/kg following remediation activities.

6 Restoration and Reclamation

Upon receiving laboratory analytical results from the excavation confirmation soil samples, the excavated areas were backfilled with locally sourced, non-impacted "like" material. The affected area was contoured and compacted to achieve erosion control and stability. Photographic documentation of the excavation areas following backfilling activities is included in **Appendix D**.

7 Summary

Analytical results associated with remediation activities conducted in 2023 indicate that the horizontal and vertical extent of BTEX, TPH, and chloride impact in soil above NMAC Closure Criteria have been delineated both horizontally and vertically, and impacted soil above the applicable NMAC Closure Criteria has been excavated from the release areas.

8 Soil Closure Request

Remediation activities were conducted in accordance with the NMOCD regulatory guidelines stipulated in NMAC 19.15.29. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was

Remediation Summary and Soil Closure Request Report

excavated and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria in each of the submitted soil samples collected from the remediated areas.

Based on laboratory analytical results and field activities conducted to date, no additional soil assessment or remediation activities are recommended at this time for the Site. Arcadis requests closure be granted to the Bass #4 site for Case No. 1RP-1196, Incident No. nPAC0704334283.

Tables

Table 1
2023 Confirmation Soil Sample Analytical Results
Bass #4
Case No. 1RP-1196, Incident No. nPAC0704334283
Eddy County, New Mexico



| Location ID | Depth (Feet) | Date Collected | Soil Status | Benzene mg/kg | Total BTEX mg/kg | Total TPH mg/kg | Chloride, Dissolved mg/kg |
|---------------------------------|--------------|----------------|-------------|---------------|------------------|-----------------|---------------------------|
| Restoration Requirements | | | | 10 | 50 | 100 | 600 |
| B-1 | 0.5 | 10/16/2023 | Removed | <0.000387 | <0.00102 | 418 | 116 |
| B-1A | 1 | 10/19/2023 | In-Situ | <0.000383 | <0.00100 | 93.4 | 81.8 |
| B-2 | 0.5 | 10/16/2023 | Removed | <0.000386 | <0.00101 | 570 | 100 |
| B-2A | 1 | 10/19/2023 | In-Situ | <0.000384 | <0.00101 | 69.4 | 86.3 |
| B-3 | 0.5 | 10/16/2023 | In-Situ | <0.000383 | <0.00101 | 92.6 | 244 |
| B-4 | 0.5 | 10/16/2023 | Removed | <0.000383 | <0.00100 | 105 | 145 |
| B-4A | 1 | 10/19/2023 | In-Situ | <0.000386 | <0.00101 | 20.6 J | 62.2 |
| SW-1 | 0.5 | 10/16/2023 | Removed | <0.000383 | <0.00101 | 443 | 116 |
| SW-1A | 0.9 | 10/19/2023 | In-Situ | <0.000383 | <0.00101 | 66.1 | 95.8 |
| SW-2 | 0.75 | 10/16/2023 | Removed | <0.000383 | <0.00100 | 112 | 215 |
| SW-2A | 0.9 | 10/19/2023 | In-Situ | <0.000383 | <0.00100 | <15.2 | 31 |
| SW-3 | 0.75 | 10/16/2023 | In-Situ | <0.000386 | <0.00101 | 87.9 | 139 |

Legend:

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

Analytes exceeding New Mexico Administration Code Standards are indicated in **bold**

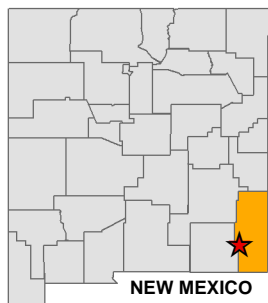
'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)

mg/kg: Milligram per Kilogram

Notes:

1. Chloride analyzed by EPA Method 300
2. TPH analyzed by EPA Method 8015 M
3. BTEX analyzed by EPA Method 8260B
4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

Figures



NOTES:
1. Datum: D_WGS_1984
2. Site Location: 32.538277, -103.698055

Chevron Environmental Management Company
Bass #4
Lea County, New Mexico

SITE LOCATION MAP



FIGURE
1



City: Houston Div/Group: Remediation West-Air Group Created By: W Berry Last Saved By: wberry : Client (Project #)
Tl_EH655ArcGIS_ProLand\Chevron\Bass_4\Bass_4_Closure.aprx 11/16/2023 2:53 PM

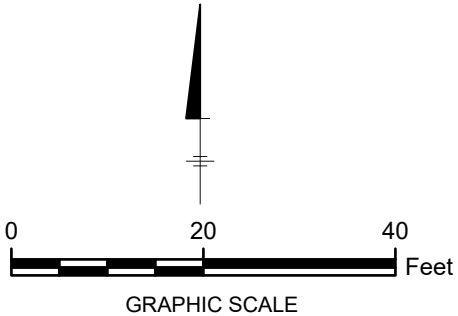


NOTES:

- 1. Datum: GCS_WGS_1984
- 2. Site Location: 103.6980555°W 32.5382777°N

Legend

-  Composite Base Soil Sample
-  Excavation (1 feet)



Chevron Environmental Management Company
Bass #4
Lea County, New Mexico

**EXCAVATION BASE
SOIL SAMPLE RESULTS MAP**





FIGURE
2

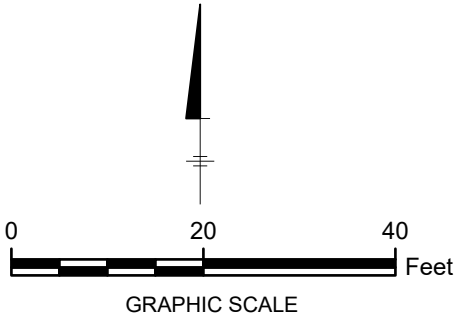


NOTES:

- 1. Datum: GCS_WGS_1984
- 2. Site Location: 103.6980555°W 32.5382777°N

Legend

-  Composite Sidewall Soil Sample
-  Excavation (1 feet)



Chevron Environmental Management Company
Bass #4
Lea County, New Mexico

**EXCAVATION SIDEWALL
SOIL SAMPLE RESULTS MAP**



FIGURE
3

Appendix A

Initial C-141 Form Incident # nPAC0704334283

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

| | | | |
|-----------------|------------------------------------|---------------|-------------------|
| Name of Company | Chevron Midcontinent LP | Contact | Larry Ridenour |
| Address | HCR 60 Box 423 Lovington, NM 88260 | Telephone No. | 505-396-4414 x102 |
| Facility Name | Bass #4 | Facility Type | tank battery |

| | | | | |
|---------------|-------|---------------|-------|-----------|
| Surface Owner | State | Mineral Owner | State | Lease No. |
|---------------|-------|---------------|-------|-----------|

LOCATION OF RELEASE

| | | | | | | | | |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
| G | 30 | 20S | 33E | 1700 | N | 1815 | East | Lea |

Latitude 32 deg 32 min 17.8 sec Longitude 103 deg 41 min 53 sec

NATURE OF RELEASE

| | | | | | |
|-----------------------------|---|---|-----------------|----------------------------|-----------------|
| Type of Release | Oil | Volume of Release | 5.5 bbls | Volume Recovered | 5 |
| Source of Release | tank spill | Date and Hour of Occurrence | 1/27/07 1:00 AM | Date and Hour of Discovery | 1/27/07 2:15 AM |
| Was Immediate Notice Given? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | Pat Caperton | | |
| By Whom? | Larry Ridenour | Date and Hour | 1/27/07 11:15AM | | |
| Was a Watercourse Reached? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | | | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Coupling on water transfer pump failed. Water tank filled up and caused tanks to run over.

Describe Area Affected and Cleanup Action Taken.*

Oil was contained in dike area. Oil pooled up in one corner of the dike covering approximately 120 square feet. Vacuum truck picked up oil. Loose oily dirt and pea gravel will be removed and fresh dirt/gravel put back in place area.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

| | | | |
|--|--|---|-------------------------|
| Signature: <u>Larry D. Ridenour</u> | | OIL CONSERVATION DIVISION | |
| Printed Name: Larry D. Ridenour | | Approved by District Supervisor: <u>[Signature]</u> | |
| Title: Operations Representative | | Approval Date: 2-9-07 | Expiration Date: 4-9-07 |
| E-mail Address: LRidenour@Chevron.com | | Conditions of Approval: | |
| Date: 1/30/07 Phone: 505-396-4414 x102 | | Attached <input type="checkbox"/> | |

* Attach Additional Sheets If Necessary

Facility # PAC-0704334209
Incident # PAC0704334283
Application # PAC0704334374

① SUBMIT FINAL C-141 w/

CONFIRMATION OF DISPOSAL
OF AFFECTED MATERIAL

② PROVIDE VERTICAL DELINEATION OF POOLED AREA

2RP# 1196

Appendix B

Boring Log



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

| | | | | | | | |
|--|---|-----------------------------|---|---|--|---|-----------------------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.) POD1 | | WELL TAG ID NO. | | OSE FILE NO(S) CP-1090 | | |
| | WELL OWNER NAME(S) Devon Energy Corporation | | | | PHONE (OPTIONAL) 405-318-4697 | | |
| | WELL OWNER MAILING ADDRESS 6488 Seven Rivers Highway | | | | CITY Artesia | STATE NM | |
| | | | | | ZIP 88210 | | |
| | WELL LOCATION (FROM GPS) | DEGREES LATITUDE 32 | MINUTES 36 | SECONDS 39.32 N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84 | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit Letter "N", Section 33, T19S, R29E | | | | | | | |
| 2. DRILLING & CASING INFORMATION | LICENSE NO. 1755 | | NAME OF LICENSED DRILLER John Norris | | NAME OF WELL DRILLING COMPANY Hungry Horse, LLC | | |
| | DRILLING STARTED 7/15/2022 | DRILLING ENDED 7/15/2022 | DEPTH OF COMPLETED WELL (FT) | BORE HOLE DEPTH (FT) 55 | DEPTH WATER FIRST ENCOUNTERED (FT) NA | | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) NA | DATE STATIC MEASURED | |
| | DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY: | | | | | | |
| | DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY: | | | | | CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/> | |
| | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) |
| | FROM | TO | | | | | |
| | | | | No Casing | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | AMOUNT (cubic feet) | METHOD OF PLACEMENT | |
| | FROM | TO | | | | | |
| | 0 | 55 | 6 | Bentonite grout | 10.8 | tremie | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

| | | |
|---------------------------|-----------------|----------------|
| FILE NO. CP-01090 | POD NO. 1 | TRN NO. 602836 |
| LOCATION 205-33E.31.1.1.2 | WELL TAG ID NO. | PAGE 1 OF 2 |

| | | | | | | | |
|---|---|-----------|---|---|------------------------------|---|--|
| 4. HYDROGEOLOGIC LOG OF WELL | DEPTH (feet bgl) | | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units) | WATER BEARING? (YES / NO) | ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm) | |
| | FROM | TO | | | | | |
| | 0 | 20 | 20 | Sand | Y ✓ N | | |
| | 20 | 30 | 10 | Caliche | Y ✓ N | | |
| | 30 | 35 | 5 | Clay | Y ✓ N | | |
| | 35 | 55 | 20 | Gypsum | Y ✓ N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | | | | | Y N | | |
| | METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input checked="" type="checkbox"/> OTHER – SPECIFY: Not tested | | | | | TOTAL ESTIMATED WELL YIELD (gpm): 0.00 | |
| | 5. TEST; RIG SUPERVISION | WELL TEST | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. | | | | |
| MISCELLANEOUS INFORMATION: Borehole was drilled as per NMOCD. Drill a 55' borehole, wait 72 hours, then gauge for presence of water. No water was present so borehole was plugged. <div style="text-align: right;">USE ON AUG 5 2022 PM 1:42</div> | | | | | | | |
| PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Dean Parent | | | | | | | |
| 6. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: | | | | | | |
| |  | | | John Norris | 7/25/2022 | | |
| | SIGNATURE OF DRILLER / PRINT SIGNEE NAME | | | DATE | | | |

| | | | |
|----------------------|----------|--|-------------|
| FOR OSE INTERNAL USE | | WR-20 WELL RECORD & LOG (Version 01/28/2022) | |
| FILE NO. | CP-01090 | POD NO. | 1 |
| LOCATION | | TRN NO. | 602836 |
| 205-33E-31-1-1-2 | | WELL TAG ID NO | PAGE 2 OF 2 |

Appendix C

Work Plan

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

| | |
|----------------|----------------|
| Incident ID | nPAC0704334283 |
| District RP | 1RP- 1196 |
| Facility ID | fPAC0704334209 |
| Application ID | pPAC0704334374 |

Release Notification

Responsible Party

| | |
|---------------------------------------|---------------------------|
| Responsible Party: Chevron USA Inc. | OGRID: 4323 |
| Contact Name: Jason Michelson | Contact Telephone |
| Contact email: jmichelson@chevron.com | Incident # nPAC0704334283 |
| Contact mailing address: | |

Location of Release Source

Latitude 32.538214 _____ Longitude -103.698426 _____
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|---|-------------------------|
| Site Name: Bass #4 | Site Type: Tank Battery |
| Date Release Discovered: January 27, 2007 | API# NA |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| G | 30 | 20S | 33E | Lea |

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | |
|---|--|---|
| <input checked="" type="checkbox"/> Crude Oil | Volume Released (bbls) 5.5 | Volume Recovered (bbls) 5 |
| <input type="checkbox"/> Produced Water | Volume Released (bbls) | Volume Recovered (bbls) |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release
A coupling on the water transfer pump failed causing the water tank to overflow and release approximately 5.5 barrels (bbls) of produced water and oil at the Site. Oil was reportedly contained within the dike area covering approximately 120 square feet (sq ft). According to the Initial C-141 Form submitted on January 27, 2007, a vacuum truck was dispatched upon discovery and recovered approximately 5 bbls of standing fluid. The Initial C-141 Form was approved with conditions and assigned remediation permit number 1RP-1196 and incident number nPAC0704334283.

| | |
|----------------|----------------|
| Incident ID | nPAC0704334283 |
| District RP | 1RP- 1196 |
| Facility ID | fPAC0704334209 |
| Application ID | pPAC0704334374 |

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? Release was less than 25 barrels. |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? | |

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

| | |
|--|--------------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped. | |
| <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. | |
| <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. | |
| <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. | |
| If all the actions described above have <u>not</u> been undertaken, explain why: | |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. | |
| 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. | |
| Printed Name: <u>Jason Michelson</u> | Title: <u>Operation Lead Central</u> |
| Signature: _____ | Date: <u>7/28/2023</u> |
| email: <u>jmichelson@chevron.com</u> | Telephone: _____ |
| <u>OCD Only</u> | |
| Received by: _____ | Date: _____ |

| | |
|----------------|----------------|
| Incident ID | nPAC0704334283 |
| District RP | IRP- 1196 |
| Facility ID | fPAC0704334209 |
| Application ID | pPAC0704334374 |

Site Assessment/Characterization

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? | <u>> 55</u> (ft bgs) |
| Did this release impact groundwater or surface water? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production, or storage site? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs- **Not Applicable**
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

| | |
|----------------|----------------|
| Incident ID | nPAC0704334283 |
| District RP | 1RP- 1196 |
| Facility ID | fPAC0704334209 |
| Application ID | pPAC0704334374 |

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.

Printed Name: Jason Michelson Title: Operation Lead Central

Signature: _____ Date: 7/28/2023

email: jmichelson@chevron.com Telephone: _____

OCD Only

Received by: _____ Date: _____

| | |
|----------------|----------------|
| Incident ID | nPAC0704334283 |
| District RP | IRP- 1196 |
| Facility ID | fPAC0704334209 |
| Application ID | pPAC0704334374 |

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Jason Michelson Title: Operation Lead Central

Signature: _____ Date: 7/28/2023

email: jmichelson@chevron.com Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____



Jason Michelson
Operations Lead, Portfolio Operations Central

VIA ELECTRONIC MAIL

July 28, 2023

New Mexico Oil Conservation Division
District I
1625 N. French Drive
Hobbs, New Mexico 88240

Re: Bass #4 2023 Remediation and Restoration Work Plan

Dear Whom it May Concern:

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

- Bass #4 2023 Remediation and Restoration Work Plan

The 2023 Remediation and Restoration Work Plan was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Chevron Environmental Management Company (CEMC) for Chevron USA.

Please do not hesitate to call Scott Foord with Arcadis at 713.953.4853, or myself at 832.854.5601, should you have any questions.

Sincerely,

Jason Michelson

Encl. Bass #4 2023 Remediation and Restoration Work Plan

cc. Scott Foord – Arcadis
Morgan Jordan – Arcadis

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



New Mexico Oil Conservation Division
District I
1625 N. French Drive
Hobbs, New Mexico 88240

Arcadis U.S., Inc.
10205 Westheimer Road
Suite 800
Houston
Texas 77042
Phone: 713 953 4800
Fax: 713 977 4620
www.arcadis.com

Date: July 28, 2023
Subject: 2023 Remediation and Restoration
Bass #4 Work Plan
Case No. 1RP-1196
Incident No. nPAC0704334283
Lea County, New Mexico

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

Dear Whom it May Concern,

Arcadis U.S., Inc. (Arcadis) has prepared this Work Plan for Chevron Environmental Management Company (CEMC) on behalf of Chevron U.S.A. Inc., through its division Chevron North America Exploration and Production Company to perform environmental remediation services for the Bass #4 (Site), located in Lea County, New Mexico on New Mexico State Land. Environmental remediation at the Site is required by the New Mexico Oil Conservation Division (NMOCD) and New Mexico State Land Office (NMSLO).

The Site is located approximately 18 miles southwest of Eunice, in Unit G, Section 30, Township 20 South, Range 33 East, Lea County, New Mexico.

On January 27, 2007, a coupling on the water transfer pump failed causing the water tank to overflow and release approximately 5.5 barrels (bbls) of produced water and oil at the Site. Oil was reportedly contained within the dike area covering approximately 120 square feet (sq ft). According to the Initial C-141 Form submitted on January 27, 2007, a vacuum truck was dispatched upon discovery and recovered approximately 5 bbls of standing fluid. The Initial C-141 Form was approved with conditions and assigned remediation permit number 1RP-1196 and incident number nPAC0704334283. The Initial C-141 Form is included as **Attachment 1**.

According to the New Mexico Office of the State Engineers (NMOSE) database, there is a well log on file from 2022 stating an exploratory soil boring was drilled to 55 ft below ground surface (bgs) approximately 0.25 miles south of the Site and no groundwater was encountered.

In 2020 Arcadis personnel collected soil samples from six locations (SB-1 through SB-6) within the release area (bermed tank battery). The soil samples were collected with a hand auger at depths ranging from the surface to approximately 4 ft bgs. Hand auger refusal was encountered within all boring locations. The soil samples collected were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) by United States Environmental Protection Agency (USEPA) Method 8021B; total petroleum hydrocarbons (TPH) including diesel range organics (DRO), gasoline range organics (GRO), and oil range organics (ORO) by USEPA Method 8015; and chloride by USEPA Method 300. TPH exceeded the NMAC reclamation standard for soil within the first 4 feet of 100 milligrams per kilogram (mg/kg) at shallow depths (0.25-0.50 ft bgs) at five sample locations SB-1 through SB-4 and SB-6.

NMOCD
July 28, 2023

Scope of Work

Soil Remediation and Restoration

Arcadis proposes to conduct soil remediation activities in areas with impacted soil located inside the active tank battery. Impacted soil will be excavated manually by hand digging with shovels accompanied by confirmation soil sample analysis. Field screening of soils for chloride and petroleum hydrocarbons will be performed to guide excavation activities and confirmation samples. Subsequently, the excavation will be backfilled with clean caliche. The following outlines basic project details that will be completed by Arcadis and Arcadis subcontractors.

- Prior to mobilizing excavation equipment to the Site, a New Mexico 811 utility notification will be made at least 48-hours prior to mobilization.
- Arcadis will contract GPRS to locate subsurface utilities prior to starting any excavation.
- Arcadis will contract Standard Environmental for excavation/ hand digging with shovels inside the active tank battery.
- Excavated soils will be stored on bermed plastic sheeting during excavation activities.
- It is anticipated that approximately 15 cubic yards (cy) of shallow soil will be excavated. Impacted soil in the affected areas will be excavated to a depth directly below previous assessment exceedance depths or when confirmation field screening indicates that the soil is below the restoration limits for benzene (10 mg/kg), BTEX (50 mg/kg), TPH (100 mg/kg), and chloride (600 mg/kg) as specified in NMMAC 19.15.29.13 D (1).
- Soils will be field screened for chloride during excavation activities utilizing Hach chloride test strips and for volatile organic compounds (VOCs) utilizing a photo-ionization detector (PID).
- Excavated soils will be transported to the Lea Land Landfill facility for disposal.
- Five-point composite confirmation soil samples will be collected from the excavation floor and sidewalls at 200 square foot intervals for laboratory analysis.
- Soil samples will be collected by Arcadis and shipped overnight via FedEx to Eurofins Xenco Laboratory in Midland, Texas.
- The excavation will then be backfilled with caliche and gravel.

The confirmation samples will be collected in clean, laboratory-supplied sample containers, labeled, placed on ice, cooled to approximately 4 degrees Celsius and shipped to Pace Analytical Laboratory located in Mt Juliet, Tennessee under chain-of-custody protocol. Soil samples will be analyzed for the following analyses:

- BTEX by USEPA Method 8021B;
- TPH-GRO by USEPA Method 8015;
- TPH-DRO by USEPA Method 8015;
- TPH-ORO by USEPA Method 8015; and
- Chloride by USEPA Method 300.

A cultural resource inventory (CRI), in compliance with the New Mexico State Land Office (NMSLO) Cultural Properties Protection (CPP) Rule, will not be required due to all excavation activities will be performed on the well pad at the Site.

NMOCD
July 28, 2023

Schedule - The proposed remediation activities will be implemented within 90 days following approval of this work plan by the NMSLO and NMOCD. The anticipated schedule includes 30 days to setup field work and confirm sub-contractors, 30 days to complete on-site remediation activities, and 30 days to prepare a soil remediation summary and closure request report.

Reporting

A report summarizing the Bass 4 Site 2023 field activities will be submitted to the NMOCD and the NMSLO. The report will summarize the results of the remediation activities and will include a sample location map, tabulation of the soil analytical results, excavation boundaries map, waste disposal documentation, and photographic documentation.

Work Plan Approval Request

Arcadis is prepared to initiate the scope of work within 30 days of receiving written approval from the NMSLO and NMOCD. If you have any questions or comments with regards to this work plan, please do not hesitate to contact Scott Foord at our Houston office at (713) 953-4853 or william.foord@arcadis.com or Jason Michelson with CEMC at (832) 854-5601 or jmichelson@chevron.com. Your timely response to this correspondence is appreciated.

Sincerely,
Arcadis U.S., Inc.



Scott Foord
Program Manager

Email: william.foord@arcadis.com
Direct Line: 713.953.4853

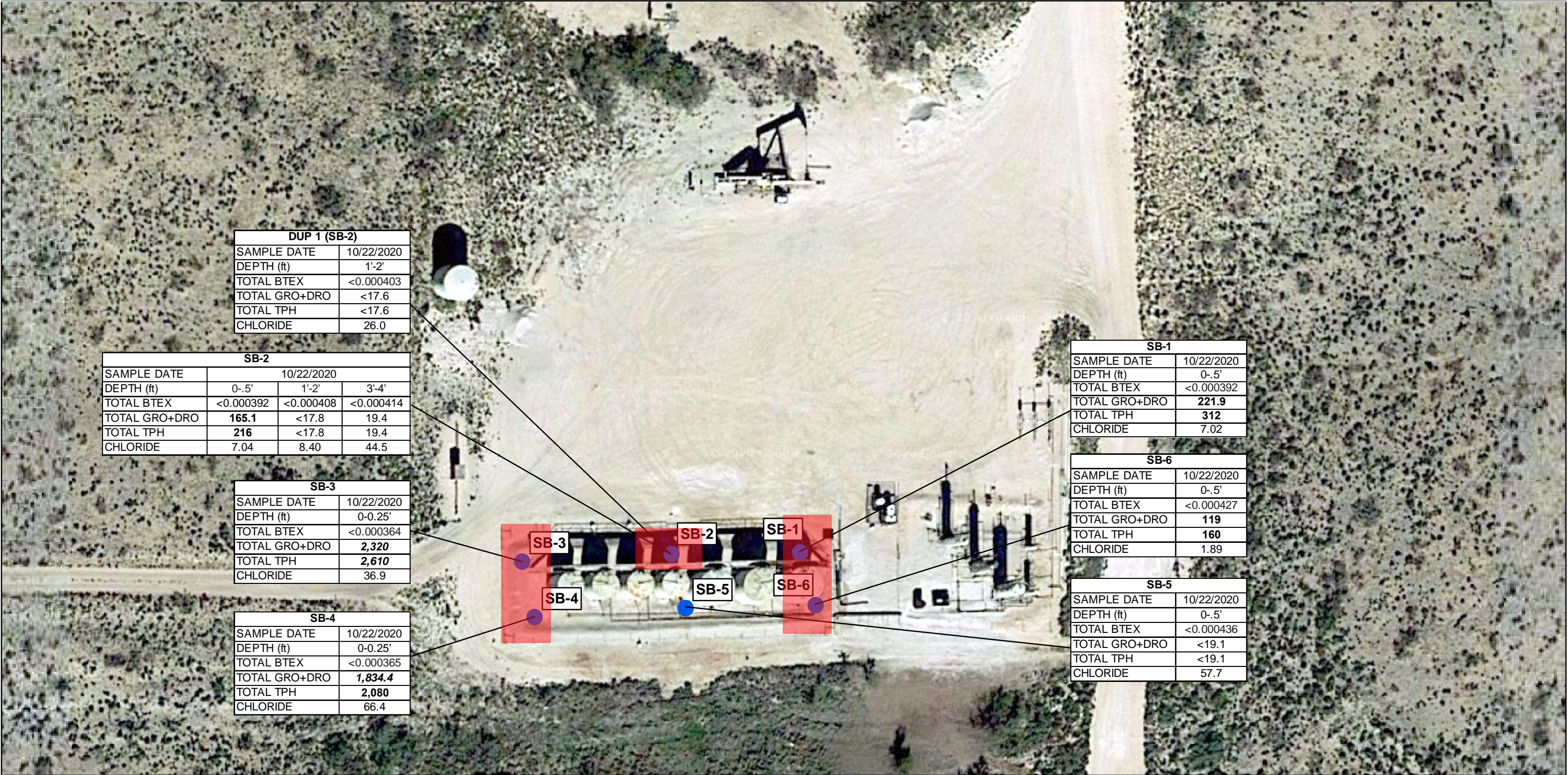
CC. Jason Michelson - CEMC

Enclosures:

Figure 1. Proposed Excavation Area
Attachment 1. Initial C-141 Form

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.

Figures



| DUP 1 (SB-2) | |
|---------------|------------|
| SAMPLE DATE | 10/22/2020 |
| DEPTH (ft) | 1'-2' |
| TOTAL BTEX | <0.000403 |
| TOTAL GRO+DRO | <17.6 |
| TOTAL TPH | <17.6 |
| CHLORIDE | 26.0 |

| SB-2 | | | |
|---------------|--------------|-----------|-----------|
| SAMPLE DATE | 10/22/2020 | | |
| DEPTH (ft) | 0-.5' | 1'-2' | 3'-4' |
| TOTAL BTEX | <0.000392 | <0.000408 | <0.000414 |
| TOTAL GRO+DRO | 165.1 | <17.8 | 19.4 |
| TOTAL TPH | 216 | <17.8 | 19.4 |
| CHLORIDE | 7.04 | 8.40 | 44.5 |

| SB-3 | |
|---------------|--------------|
| SAMPLE DATE | 10/22/2020 |
| DEPTH (ft) | 0-0.25' |
| TOTAL BTEX | <0.000364 |
| TOTAL GRO+DRO | 2,320 |
| TOTAL TPH | 2,610 |
| CHLORIDE | 36.9 |

| SB-4 | |
|---------------|----------------|
| SAMPLE DATE | 10/22/2020 |
| DEPTH (ft) | 0-0.25' |
| TOTAL BTEX | <0.000365 |
| TOTAL GRO+DRO | 1,834.4 |
| TOTAL TPH | 2,080 |
| CHLORIDE | 66.4 |

| SB-1 | |
|---------------|--------------|
| SAMPLE DATE | 10/22/2020 |
| DEPTH (ft) | 0-.5' |
| TOTAL BTEX | <0.000392 |
| TOTAL GRO+DRO | 221.9 |
| TOTAL TPH | 312 |
| CHLORIDE | 7.02 |

| SB-6 | |
|---------------|------------|
| SAMPLE DATE | 10/22/2020 |
| DEPTH (ft) | 0-.5' |
| TOTAL BTEX | <0.000427 |
| TOTAL GRO+DRO | 119 |
| TOTAL TPH | 160 |
| CHLORIDE | 1.89 |

| SB-5 | |
|---------------|------------|
| SAMPLE DATE | 10/22/2020 |
| DEPTH (ft) | 0-.5' |
| TOTAL BTEX | <0.000436 |
| TOTAL GRO+DRO | <19.1 |
| TOTAL TPH | <19.1 |
| CHLORIDE | 57.7 |

LEGEND:

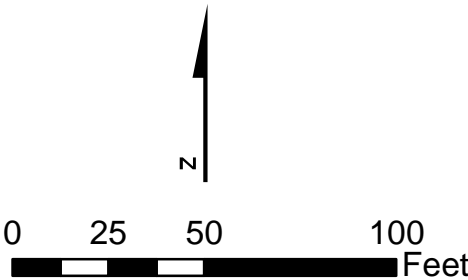
● Soil Sample Locations

Proposed Excavation Area

NOTES:

- 1. Datum: GCS_WGS_1984
- 2. Site Location: 32.538277, -103.698055

- Notes:
- 1. **BOLD** = Analytes exceeding NMAC standards and restoration requirements for Chloride
 - 2. '<' Indicates the analyte was not detected at or above the Method Detection Limit (MDL).
 - 3. J Indicates Result is less than the Reporting Limit but greater than or equal to the MDL and the concentration is an approximate value.
 - 4. NMAC Indicates New Mexico Administration Code.
 - 5. All values are in mg/kg (Milligram per Kilogram).
 - 6. ' ' ' ' Indicates one foot.
 - 7. BTEX Indicates Benzene, Toluene, Ethylbenzene, and Total Xylenes.
 - 8. TPH GRO Indicates Total Petroleum Hydrocarbons Gasoline Range Organics.
 - 9. TPH MRO Indicates Total Petroleum Hydrocarbons Motor Oil Range Organics.
 - 10. TPH DRO Indicates Total Petroleum Hydrocarbon Diesel Range Organics.
 - 11. *Revised screening limit and restoration criteria within the first 4 feet below ground surface per Rule 19.15.29 effective August 14, 2018
 - 12. Chloride analyzed by USEPA Method 300.0.
 - 13. TPH analyzed by DRO/ORO Method SW8015.
 - 14. BTEX analyzed by USEPA Method 8021B.
 - 15. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2).



Chevron Environmental Management Company
Bass #4
Lea County, New Mexico

PROPOSED EXCAVATION AREA



FIGURE
1

Attachment 1

Initial C-141 Form

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

| | | | |
|-----------------|------------------------------------|---------------|-------------------|
| Name of Company | Chevron Midcontinent LP | Contact | Larry Ridenour |
| Address | HCR 60 Box 423 Lovington, NM 88260 | Telephone No. | 505-396-4414 x102 |
| Facility Name | Bass #4 | Facility Type | tank battery |

| | | | | |
|---------------|-------|---------------|-------|-----------|
| Surface Owner | State | Mineral Owner | State | Lease No. |
|---------------|-------|---------------|-------|-----------|

LOCATION OF RELEASE

| | | | | | | | | |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
| G | 30 | 20S | 33E | 1700 | N | 1815 | East | Lea |

Latitude 32 deg 32 min 17.8 sec Longitude 103 deg 41 min 53 sec

NATURE OF RELEASE

| | | | | | |
|-----------------------------|---|---|-----------------|----------------------------|-----------------|
| Type of Release | Oil | Volume of Release | 5.5 bbls | Volume Recovered | 5 |
| Source of Release | tank spill | Date and Hour of Occurrence | 1/27/07 1:00 AM | Date and Hour of Discovery | 1/27/07 2:15 AM |
| Was Immediate Notice Given? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | Pat Caperton | | |
| By Whom? | Larry Ridenour | Date and Hour | 1/27/07 11:15AM | | |
| Was a Watercourse Reached? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | | | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Coupling on water transfer pump failed. Water tank filled up and caused tanks to run over.

Describe Area Affected and Cleanup Action Taken.*

Oil was contained in dike area. Oil pooled up in one corner of the dike covering approximately 120 square feet. Vacuum truck picked up oil. Loose oily dirt and pea gravel will be removed and fresh dirt/gravel put back in place area.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

| | | | |
|--|--|---|-------------------------|
| Signature: <u>Larry D. Ridenour</u> | | OIL CONSERVATION DIVISION | |
| Printed Name: Larry D. Ridenour | | Approved by District Supervisor: <u>[Signature]</u> | |
| Title: Operations Representative | | Approval Date: 2-9-07 | Expiration Date: 4-9-07 |
| E-mail Address: LRidenour@Chevron.com | | Conditions of Approval: | |
| Date: 1/30/07 Phone: 505-396-4414 x102 | | Attached <input type="checkbox"/> | |

* Attach Additional Sheets If Necessary

Facility # PAC-0704334209
Incident # PAC0704334283
Application # PAC0704334374

① SUBMIT FINAL C-141 w/

CONFIRMATION OF DISPOSAL
OF AFFECTED MATERIAL

② PROVIDE VERTICAL DELINEATION OF POOLED AREA

2RP# 1196

Appendix D

2023 Soil Remediation Photographic Log




PHOTOGRAPHIC LOG

| | | | |
|---|----------------------------|--|-----------------------------|
| Property Name: Bass #4 | | Location: Lea County, NM | Case No. 1RP-1196 |
| Photo No. 1 | Date: 10/18/2023 |  | |
| Direction Photo Taken: Facing South | | | |
| Description: West excavation. | | | |




PHOTOGRAPHIC LOG

| | | | |
|--|----------------------------|--|-----------------------------|
| Property Name: Bass #4 | | Location: Lea County, NM | Case No. 1RP-1196 |
| Photo No. 2 | Date: 10/18/2023 |  | |
| Direction Photo Taken: Facing East | | | |
| Description: Central excavation, north side of tank battery. | | | |





PHOTOGRAPHIC LOG


| | | | |
|--|----------------------------|---|-----------------------------|
| Property Name: Bass #4 | | Location: Lea County, NM | Case No. 1RP-1196 |
| Photo No. 3 | Date: 10/18/2023 |  A photograph showing an excavation site. On the left is a large, light-colored concrete structure. To the right is a pile of gravel and dirt. A shadow of the person taking the photo is cast on the ground. In the background, there are some industrial structures and a clear blue sky. | |
| Direction Photo Taken: Facing West | | | |
| Description: East excavation. | | | |







PHOTOGRAPHIC LOG

| | | | |
|---|----------------------------|--|-----------------------------|
| Property Name: Bass #4 | | Location: Lea County, NM | Case No. 1RP-1196 |
| Photo No. 4 | Date: 10/18/2023 |  A photograph of a desert landscape. In the foreground is a large, flat, gravelly area. In the middle ground, there is a small pile of excavated soil. To the left, there is a small red building. To the right, a red pickup truck is parked. The background shows some sparse vegetation and a clear blue sky. | |
| Direction Photo Taken: Facing NW | | | |
| Description: Excavated soil pile. | | | |

| ARCADIS | | PHOTOGRAPHIC LOG | |
|--|----------------------------|--|-----------------------------|
| Property Name: Bass #4 | | Location: Lea County, NM | Case No. 1RP-1196 |
| Photo No. 5 | Date: 10/19/2023 |  | |
| Direction Photo Taken: Facing South | | | |
| Description: West excavation backfilled. | | | |

| ARCADIS | | PHOTOGRAPHIC LOG | |
|---|----------------------------|--|-----------------------------|
| Property Name: Bass #4 | | Location: Lea County, NM | Case No. 1RP-1196 |
| Photo No. 6 | Date: 10/19/2023 |  | |
| Direction Photo Taken: Facing East | | | |
| Description: Central excavation backfilled. | | | |

|  | | PHOTOGRAPHIC LOG | |
|---|----------------------------|--|-----------------------------|
| Property Name: Bass #4 | | Location: Lea County, NM | Case No. 1RP-1196 |
| Photo No. 7 | Date: 10/19/2023 |  | |
| Direction Photo Taken: Facing West | | | |
| Description: East excavation backfilled. | | | |

|  | | PHOTOGRAPHIC LOG | |
|---|----------------------------|--|-----------------------------|
| Property Name: Bass #4 | | Location: Lea County, NM | Case No. 1RP-1196 |
| Photo No. 8 | Date: 10/19/2023 |  | |
| Direction Photo Taken: Facing West | | | |
| Description: East excavation backfilled. | | | |

Appendix E

Laboratory Analytical Reports



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
ARCADIS US Inc
98 San Jacinto Blvd.
Suite 414
Austin, Texas 78701

Generated 10/18/2023 4:43:36 PM

JOB DESCRIPTION

Bass 4 Site
SDG NUMBER Lea County, NM

JOB NUMBER

880-34522-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
10/18/2023 4:43:36 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Laboratory Job ID: 880-34522-1
SDG: Lea County, NM

Table of Contents

| | |
|----------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 3 |
| Definitions/Glossary | 4 |
| Case Narrative | 5 |
| Client Sample Results | 6 |
| Surrogate Summary | 12 |
| QC Sample Results | 13 |
| QC Association Summary | 16 |
| Lab Chronicle | 18 |
| Certification Summary | 21 |
| Method Summary | 22 |
| Sample Summary | 23 |
| Chain of Custody | 24 |
| Receipt Checklists | 25 |

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

Qualifiers

GC VOA

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| S1- | Surrogate recovery exceeds control limits, low biased. |
| U | Indicates the analyte was analyzed for but not detected. |

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

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

Case Narrative

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

Job ID: 880-34522-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-34522-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/17/2023 11:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-1-S-6"-101623 (880-34522-1), B-2-S-6"-101623 (880-34522-2), B-3-S-6"-101623 (880-34522-3), B-4-S-6"-101623 (880-34522-4), SW-1-S-0-6"-101623 (880-34522-5), SW-2-S-0-.75"-101623 (880-34522-6) and SW-3-S-0-.75"-101623 (880-34522-7).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-3-S-0-.75"-101623 (880-34522-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-64905 and analytical batch 880-64848 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-1-S-6"-101623 (880-34522-1), B-2-S-6"-101623 (880-34522-2), B-4-S-6"-101623 (880-34522-4), SW-1-S-0-6"-101623 (880-34522-5) and SW-3-S-0-.75"-101623 (880-34522-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-64848/31) and (CCV 880-64848/47). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

Client Sample ID: B-1-S-6"-101623

Lab Sample ID: 880-34522-1

Date Collected: 10/16/23 10:30

Matrix: Solid

Date Received: 10/17/23 11:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|---------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.000387 | U | 0.00201 | 0.000387 | mg/Kg | | 10/17/23 13:18 | 10/17/23 17:00 | 1 |
| Toluene | <0.000459 | U | 0.00201 | 0.000459 | mg/Kg | | 10/17/23 13:18 | 10/17/23 17:00 | 1 |
| Ethylbenzene | <0.000568 | U | 0.00201 | 0.000568 | mg/Kg | | 10/17/23 13:18 | 10/17/23 17:00 | 1 |
| m-Xylene & p-Xylene | <0.00102 | U | 0.00402 | 0.00102 | mg/Kg | | 10/17/23 13:18 | 10/17/23 17:00 | 1 |
| o-Xylene | <0.000346 | U | 0.00201 | 0.000346 | mg/Kg | | 10/17/23 13:18 | 10/17/23 17:00 | 1 |
| Xylenes, Total | <0.00102 | U | 0.00402 | 0.00102 | mg/Kg | | 10/17/23 13:18 | 10/17/23 17:00 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 | 10/17/23 13:18 | 10/17/23 17:00 | 1 |
| 4-Bromofluorobenzene (Surr) | 75 | | 70 - 130 | 10/17/23 13:18 | 10/17/23 17:21 | 1 |
| 1,4-Difluorobenzene (Surr) | 78 | | 70 - 130 | 10/17/23 13:18 | 10/17/23 17:00 | 1 |
| 1,4-Difluorobenzene (Surr) | 80 | | 70 - 130 | 10/17/23 13:18 | 10/17/23 17:21 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00102 | U | 0.00402 | 0.00102 | mg/Kg | | | 10/17/23 17:00 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|------|-------|---|----------|----------------|---------|
| Total TPH | 418 | | 49.6 | 14.9 | mg/Kg | | | 10/17/23 22:23 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 45.1 | J | 49.6 | 14.9 | mg/Kg | | 10/17/23 15:26 | 10/17/23 22:23 | 1 |
| Diesel Range Organics (Over C10-C28) | 373 | | 49.6 | 14.9 | mg/Kg | | 10/17/23 15:26 | 10/17/23 22:23 | 1 |
| Oil Range Organics (Over C28-C36) | <14.9 | U | 49.6 | 14.9 | mg/Kg | | 10/17/23 15:26 | 10/17/23 22:23 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 134 | S1+ | 70 - 130 | 10/17/23 15:26 | 10/17/23 22:23 | 1 |
| o-Terphenyl | 113 | | 70 - 130 | 10/17/23 15:26 | 10/17/23 22:23 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------|----------------|---------|
| Chloride | 116 | | 5.04 | 0.398 | mg/Kg | | | 10/18/23 05:31 | 1 |

Client Sample ID: B-2-S-6"-101623

Lab Sample ID: 880-34522-2

Date Collected: 10/16/23 11:45

Matrix: Solid

Date Received: 10/17/23 11:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|---------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.000386 | U | 0.00200 | 0.000386 | mg/Kg | | 10/17/23 13:18 | 10/17/23 17:41 | 1 |
| Toluene | <0.000457 | U | 0.00200 | 0.000457 | mg/Kg | | 10/17/23 13:18 | 10/17/23 17:41 | 1 |
| Ethylbenzene | <0.000566 | U | 0.00200 | 0.000566 | mg/Kg | | 10/17/23 13:18 | 10/17/23 17:41 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00401 | 0.00101 | mg/Kg | | 10/17/23 13:18 | 10/17/23 17:41 | 1 |
| o-Xylene | <0.000345 | U | 0.00200 | 0.000345 | mg/Kg | | 10/17/23 13:18 | 10/17/23 17:41 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00401 | 0.00101 | mg/Kg | | 10/17/23 13:18 | 10/17/23 17:41 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 86 | | 70 - 130 | 10/17/23 13:18 | 10/17/23 17:41 | 1 |

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

Client Sample ID: B-2-S-6"-101623

Lab Sample ID: 880-34522-2

Date Collected: 10/16/23 11:45

Matrix: Solid

Date Received: 10/17/23 11:07

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 86 | | 70 - 130 | 10/17/23 13:18 | 10/17/23 17:41 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00101 | U | 0.00401 | 0.00101 | mg/Kg | | | 10/17/23 17:41 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|------|-------|---|----------|----------------|---------|
| Total TPH | 570 | | 50.3 | 15.1 | mg/Kg | | | 10/17/23 22:45 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 32.4 | J | 50.3 | 15.1 | mg/Kg | | 10/17/23 15:26 | 10/17/23 22:45 | 1 |
| Diesel Range Organics (Over C10-C28) | 538 | | 50.3 | 15.1 | mg/Kg | | 10/17/23 15:26 | 10/17/23 22:45 | 1 |
| Oil Range Organics (Over C28-C36) | <15.1 | U | 50.3 | 15.1 | mg/Kg | | 10/17/23 15:26 | 10/17/23 22:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 132 | S1+ | 70 - 130 | | | | 10/17/23 15:26 | 10/17/23 22:45 | 1 |
| o-Terphenyl | 106 | | 70 - 130 | | | | 10/17/23 15:26 | 10/17/23 22:45 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------|----------------|---------|
| Chloride | 100 | | 5.02 | 0.397 | mg/Kg | | | 10/18/23 05:38 | 1 |

Client Sample ID: B-3-S-6"-101623

Lab Sample ID: 880-34522-3

Date Collected: 10/16/23 13:30

Matrix: Solid

Date Received: 10/17/23 11:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.000383 | U | 0.00199 | 0.000383 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:02 | 1 |
| Toluene | <0.000454 | U | 0.00199 | 0.000454 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:02 | 1 |
| Ethylbenzene | <0.000563 | U | 0.00199 | 0.000563 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:02 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:02 | 1 |
| o-Xylene | <0.000343 | U | 0.00199 | 0.000343 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:02 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 82 | | 70 - 130 | | | | 10/17/23 13:18 | 10/17/23 18:02 | 1 |
| 1,4-Difluorobenzene (Surr) | 92 | | 70 - 130 | | | | 10/17/23 13:18 | 10/17/23 18:02 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | | 10/17/23 18:02 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|------|-------|---|----------|----------------|---------|
| Total TPH | 92.6 | | 50.5 | 15.2 | mg/Kg | | | 10/17/23 21:17 | 1 |

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

Client Sample ID: B-3-S-6"-101623
Date Collected: 10/16/23 13:30
Date Received: 10/17/23 11:07

Lab Sample ID: 880-34522-3
Matrix: Solid

| Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) | | | | | | | | | | |
|---|-----------|-----------|----------|------|-------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Gasoline Range Organics (GRO)-C6-C10 | 34.6 | J | 50.5 | 15.2 | mg/Kg | | 10/17/23 15:26 | 10/17/23 21:17 | 1 | |
| Diesel Range Organics (Over C10-C28) | 58.0 | | 50.5 | 15.2 | mg/Kg | | 10/17/23 15:26 | 10/17/23 21:17 | 1 | |
| Oil Range Organics (Over C28-C36) | <15.2 | U | 50.5 | 15.2 | mg/Kg | | 10/17/23 15:26 | 10/17/23 21:17 | 1 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac | |
| 1-Chlorooctane | 128 | | 70 - 130 | | | | 10/17/23 15:26 | 10/17/23 21:17 | 1 | |
| o-Terphenyl | 108 | | 70 - 130 | | | | 10/17/23 15:26 | 10/17/23 21:17 | 1 | |

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | | |
|--|--------|-----------|------|-------|-------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Chloride | 244 | | 4.98 | 0.393 | mg/Kg | | | 10/18/23 05:58 | 1 | |

Client Sample ID: B-4-S-6"-101623
Date Collected: 10/16/23 14:15
Date Received: 10/17/23 11:07

Lab Sample ID: 880-34522-4
Matrix: Solid

| Method: SW846 8021B - Volatile Organic Compounds (GC) | | | | | | | | | | |
|---|-----------|-----------|----------|----------|-------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Benzene | <0.000383 | U | 0.00199 | 0.000383 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:22 | 1 | |
| Toluene | <0.000453 | U | 0.00199 | 0.000453 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:22 | 1 | |
| Ethylbenzene | <0.000562 | U | 0.00199 | 0.000562 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:22 | 1 | |
| m-Xylene & p-Xylene | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:22 | 1 | |
| o-Xylene | <0.000342 | U | 0.00199 | 0.000342 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:22 | 1 | |
| Xylenes, Total | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:22 | 1 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac | |
| 4-Bromofluorobenzene (Surr) | 91 | | 70 - 130 | | | | 10/17/23 13:18 | 10/17/23 18:22 | 1 | |
| 1,4-Difluorobenzene (Surr) | 75 | | 70 - 130 | | | | 10/17/23 13:18 | 10/17/23 18:22 | 1 | |

| Method: TAL SOP Total BTEX - Total BTEX Calculation | | | | | | | | | | |
|---|----------|-----------|---------|---------|-------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Total BTEX | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | | 10/17/23 18:22 | 1 | |

| Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) | | | | | | | | | | |
|--|--------|-----------|------|------|-------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Total TPH | 105 | | 49.9 | 15.0 | mg/Kg | | | 10/17/23 23:07 | 1 | |

| Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) | | | | | | | | | | |
|---|-----------|-----------|----------|------|-------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Gasoline Range Organics (GRO)-C6-C10 | 25.4 | J | 49.9 | 15.0 | mg/Kg | | 10/17/23 15:26 | 10/17/23 23:07 | 1 | |
| Diesel Range Organics (Over C10-C28) | 79.9 | | 49.9 | 15.0 | mg/Kg | | 10/17/23 15:26 | 10/17/23 23:07 | 1 | |
| Oil Range Organics (Over C28-C36) | <15.0 | U | 49.9 | 15.0 | mg/Kg | | 10/17/23 15:26 | 10/17/23 23:07 | 1 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac | |
| 1-Chlorooctane | 138 | S1+ | 70 - 130 | | | | 10/17/23 15:26 | 10/17/23 23:07 | 1 | |
| o-Terphenyl | 115 | | 70 - 130 | | | | 10/17/23 15:26 | 10/17/23 23:07 | 1 | |

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

Client Sample ID: B-4-S-6"-101623

Lab Sample ID: 880-34522-4

Date Collected: 10/16/23 14:15

Matrix: Solid

Date Received: 10/17/23 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------|----------------|---------|
| Chloride | 146 | | 4.99 | 0.394 | mg/Kg | | | 10/18/23 06:05 | 1 |

Client Sample ID: SW-1-S-0-6"-101623

Lab Sample ID: 880-34522-5

Date Collected: 10/16/23 14:20

Matrix: Solid

Date Received: 10/17/23 11:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.000383 | U | 0.00199 | 0.000383 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:43 | 1 |
| Toluene | <0.000454 | U | 0.00199 | 0.000454 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:43 | 1 |
| Ethylbenzene | <0.000563 | U | 0.00199 | 0.000563 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:43 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:43 | 1 |
| o-Xylene | <0.000343 | U | 0.00199 | 0.000343 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:43 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | 10/17/23 13:18 | 10/17/23 18:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 86 | | 70 - 130 | | | | 10/17/23 13:18 | 10/17/23 18:43 | 1 |
| 1,4-Difluorobenzene (Surr) | 79 | | 70 - 130 | | | | 10/17/23 13:18 | 10/17/23 18:43 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | | 10/17/23 18:43 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|------|-------|---|----------|----------------|---------|
| Total TPH | 443 | | 49.6 | 14.9 | mg/Kg | | | 10/17/23 23:30 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 39.9 | J | 49.6 | 14.9 | mg/Kg | | 10/17/23 15:26 | 10/17/23 23:30 | 1 |
| Diesel Range Organics (Over C10-C28) | 403 | | 49.6 | 14.9 | mg/Kg | | 10/17/23 15:26 | 10/17/23 23:30 | 1 |
| Oil Range Organics (Over C28-C36) | <14.9 | U | 49.6 | 14.9 | mg/Kg | | 10/17/23 15:26 | 10/17/23 23:30 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 137 | S1+ | 70 - 130 | | | | 10/17/23 15:26 | 10/17/23 23:30 | 1 |
| o-Terphenyl | 108 | | 70 - 130 | | | | 10/17/23 15:26 | 10/17/23 23:30 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------|----------------|---------|
| Chloride | 116 | | 5.02 | 0.397 | mg/Kg | | | 10/18/23 06:11 | 1 |

Client Sample ID: SW-2-S-0-.75'-101623

Lab Sample ID: 880-34522-6

Date Collected: 10/16/23 14:25

Matrix: Solid

Date Received: 10/17/23 11:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|-----------|-----------|---------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.000383 | U | 0.00199 | 0.000383 | mg/Kg | | 10/17/23 13:18 | 10/17/23 19:03 | 1 |
| Toluene | <0.000453 | U | 0.00199 | 0.000453 | mg/Kg | | 10/17/23 13:18 | 10/17/23 19:03 | 1 |
| Ethylbenzene | <0.000562 | U | 0.00199 | 0.000562 | mg/Kg | | 10/17/23 13:18 | 10/17/23 19:03 | 1 |

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

Client Sample ID: SW-2-S-0-.75'-101623

Lab Sample ID: 880-34522-6

Date Collected: 10/16/23 14:25

Matrix: Solid

Date Received: 10/17/23 11:07

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|-------|---|----------------|----------------|---------|
| m-Xylene & p-Xylene | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | 10/17/23 13:18 | 10/17/23 19:03 | 1 |
| o-Xylene | <0.000342 | U | 0.00199 | 0.000342 | mg/Kg | | 10/17/23 13:18 | 10/17/23 19:03 | 1 |
| Xylenes, Total | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | 10/17/23 13:18 | 10/17/23 19:03 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 85 | | 70 - 130 | | | | 10/17/23 13:18 | 10/17/23 19:03 | 1 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 | | | | 10/17/23 13:18 | 10/17/23 19:03 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | | 10/17/23 19:03 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|------|-------|---|----------|----------------|---------|
| Total TPH | 112 | | 50.2 | 15.0 | mg/Kg | | | 10/17/23 23:52 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 40.4 | J | 50.2 | 15.0 | mg/Kg | | 10/17/23 15:26 | 10/17/23 23:52 | 1 |
| Diesel Range Organics (Over C10-C28) | 71.6 | | 50.2 | 15.0 | mg/Kg | | 10/17/23 15:26 | 10/17/23 23:52 | 1 |
| Oil Range Organics (Over C28-C36) | <15.0 | U | 50.2 | 15.0 | mg/Kg | | 10/17/23 15:26 | 10/17/23 23:52 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 129 | | 70 - 130 | | | | 10/17/23 15:26 | 10/17/23 23:52 | 1 |
| o-Terphenyl | 104 | | 70 - 130 | | | | 10/17/23 15:26 | 10/17/23 23:52 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------|----------------|---------|
| Chloride | 215 | | 5.01 | 0.396 | mg/Kg | | | 10/18/23 06:18 | 1 |

Client Sample ID: SW-3-S-0-.75'-101623

Lab Sample ID: 880-34522-7

Date Collected: 10/16/23 14:30

Matrix: Solid

Date Received: 10/17/23 11:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.000386 | U | 0.00200 | 0.000386 | mg/Kg | | 10/17/23 13:18 | 10/17/23 19:24 | 1 |
| Toluene | <0.000457 | U | 0.00200 | 0.000457 | mg/Kg | | 10/17/23 13:18 | 10/17/23 19:24 | 1 |
| Ethylbenzene | <0.000566 | U | 0.00200 | 0.000566 | mg/Kg | | 10/17/23 13:18 | 10/17/23 19:24 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00401 | 0.00101 | mg/Kg | | 10/17/23 13:18 | 10/17/23 19:24 | 1 |
| o-Xylene | 0.000393 | J | 0.00200 | 0.000345 | mg/Kg | | 10/17/23 13:18 | 10/17/23 19:24 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00401 | 0.00101 | mg/Kg | | 10/17/23 13:18 | 10/17/23 19:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 68 | S1- | 70 - 130 | | | | 10/17/23 13:18 | 10/17/23 19:24 | 1 |
| 1,4-Difluorobenzene (Surr) | 84 | | 70 - 130 | | | | 10/17/23 13:18 | 10/17/23 19:24 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00101 | U | 0.00401 | 0.00101 | mg/Kg | | | 10/17/23 19:24 | 1 |

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

Client Sample ID: SW-3-S-0-.75'-101623
Date Collected: 10/16/23 14:30
Date Received: 10/17/23 11:07

Lab Sample ID: 880-34522-7
Matrix: Solid

| Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) | | | | | | | | | | |
|---|-----------|-----------|----------|-------|-------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Total TPH | 87.9 | | 50.5 | 15.2 | mg/Kg | | | 10/18/23 00:15 | 1 | |
| Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) | | | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Gasoline Range Organics (GRO)-C6-C10 | 38.2 | J | 50.5 | 15.2 | mg/Kg | | 10/17/23 15:26 | 10/18/23 00:15 | 1 | |
| Diesel Range Organics (Over C10-C28) | 49.7 | J | 50.5 | 15.2 | mg/Kg | | 10/17/23 15:26 | 10/18/23 00:15 | 1 | |
| Oil Range Organics (Over C28-C36) | <15.2 | U | 50.5 | 15.2 | mg/Kg | | 10/17/23 15:26 | 10/18/23 00:15 | 1 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac | |
| 1-Chlorooctane | 146 | S1+ | 70 - 130 | | | | 10/17/23 15:26 | 10/18/23 00:15 | 1 | |
| o-Terphenyl | 119 | | 70 - 130 | | | | 10/17/23 15:26 | 10/18/23 00:15 | 1 | |
| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Chloride | 139 | | 4.97 | 0.393 | mg/Kg | | | 10/18/23 06:25 | 1 | |

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 880-34522-1 | B-1-S-6"-101623 | 97 | 78 |
| 880-34522-1 | B-1-S-6"-101623 | 75 | 80 |
| 880-34522-2 | B-2-S-6"-101623 | 86 | 86 |
| 880-34522-3 | B-3-S-6"-101623 | 82 | 92 |
| 880-34522-4 | B-4-S-6"-101623 | 91 | 75 |
| 880-34522-5 | SW-1-S-0-6"-101623 | 86 | 79 |
| 880-34522-6 | SW-2-S-0-.75"-101623 | 85 | 93 |
| 880-34522-7 | SW-3-S-0-.75"-101623 | 68 S1- | 84 |
| LCS 880-64865/1-A | Lab Control Sample | 119 | 121 |
| LCSD 880-64865/2-A | Lab Control Sample Dup | 117 | 116 |
| MB 880-64865/5-A | Method Blank | 77 | 96 |
| Surrogate Legend | | | |
| BFB = 4-Bromofluorobenzene (Surr) | | | |
| DFBZ = 1,4-Difluorobenzene (Surr) | | | |

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

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-------------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 880-34522-1 | B-1-S-6"-101623 | 134 S1+ | 113 |
| 880-34522-2 | B-2-S-6"-101623 | 132 S1+ | 106 |
| 880-34522-3 | B-3-S-6"-101623 | 128 | 108 |
| 880-34522-3 MS | B-3-S-6"-101623 | 127 | 96 |
| 880-34522-3 MSD | B-3-S-6"-101623 | 126 | 94 |
| 880-34522-4 | B-4-S-6"-101623 | 138 S1+ | 115 |
| 880-34522-5 | SW-1-S-0-6"-101623 | 137 S1+ | 108 |
| 880-34522-6 | SW-2-S-0-.75"-101623 | 129 | 104 |
| 880-34522-7 | SW-3-S-0-.75"-101623 | 146 S1+ | 119 |
| LCS 880-64905/2-A | Lab Control Sample | 95 | 89 |
| LCSD 880-64905/3-A | Lab Control Sample Dup | 87 | 86 |
| MB 880-64905/1-A | Method Blank | 171 S1+ | 147 S1+ |
| Surrogate Legend | | | |
| 1CO = 1-Chlorooctane | | | |
| OTPH = o-Terphenyl | | | |

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64865/5-A

Matrix: Solid

Analysis Batch: 64863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64865

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------------|-----------------|---------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.000385 | U | 0.00200 | 0.000385 | mg/Kg | | 10/17/23 09:11 | 10/17/23 11:43 | 1 |
| Toluene | <0.000456 | U | 0.00200 | 0.000456 | mg/Kg | | 10/17/23 09:11 | 10/17/23 11:43 | 1 |
| Ethylbenzene | <0.000565 | U | 0.00200 | 0.000565 | mg/Kg | | 10/17/23 09:11 | 10/17/23 11:43 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00400 | 0.00101 | mg/Kg | | 10/17/23 09:11 | 10/17/23 11:43 | 1 |
| o-Xylene | <0.000344 | U | 0.00200 | 0.000344 | mg/Kg | | 10/17/23 09:11 | 10/17/23 11:43 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00400 | 0.00101 | mg/Kg | | 10/17/23 09:11 | 10/17/23 11:43 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 77 | | 70 - 130 | 10/17/23 09:11 | 10/17/23 11:43 | 1 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 | 10/17/23 09:11 | 10/17/23 11:43 | 1 |

Lab Sample ID: LCS 880-64865/1-A

Matrix: Solid

Analysis Batch: 64863

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64865

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Benzene | 0.100 | 0.1161 | | mg/Kg | | 116 | 70 - 130 |
| Toluene | 0.100 | 0.1054 | | mg/Kg | | 105 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1098 | | mg/Kg | | 110 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.2404 | | mg/Kg | | 120 | 70 - 130 |
| o-Xylene | 0.100 | 0.1193 | | mg/Kg | | 119 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 119 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 121 | | 70 - 130 |

Lab Sample ID: LCSD 880-64865/2-A

Matrix: Solid

Analysis Batch: 64863

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64865

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Benzene | 0.100 | 0.1053 | | mg/Kg | | 105 | 70 - 130 | 10 | 35 |
| Toluene | 0.100 | 0.09393 | | mg/Kg | | 94 | 70 - 130 | 11 | 35 |
| Ethylbenzene | 0.100 | 0.09872 | | mg/Kg | | 99 | 70 - 130 | 11 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2163 | | mg/Kg | | 108 | 70 - 130 | 11 | 35 |
| o-Xylene | 0.100 | 0.1076 | | mg/Kg | | 108 | 70 - 130 | 10 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|-------------------|-------------------|----------|
| 4-Bromofluorobenzene (Surr) | 117 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 116 | | 70 - 130 |

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

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

| Lab Sample ID: MB 880-64905/1-A | | | | | | | Client Sample ID: Method Blank | | |
|--------------------------------------|--------------|--------------|----------|------|-------|---|--------------------------------|----------------|---------|
| Matrix: Solid | | | | | | | Prep Type: Total/NA | | |
| Analysis Batch: 64848 | | | | | | | Prep Batch: 64905 | | |
| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <15.0 | U | 50.0 | 15.0 | mg/Kg | | 10/17/23 15:26 | 10/17/23 20:10 | 1 |
| Diesel Range Organics (Over C10-C28) | <15.0 | U | 50.0 | 15.0 | mg/Kg | | 10/17/23 15:26 | 10/17/23 20:10 | 1 |
| Oil Range Organics (Over C28-C36) | <15.0 | U | 50.0 | 15.0 | mg/Kg | | 10/17/23 15:26 | 10/17/23 20:10 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 171 | S1+ | 70 - 130 | | | | 10/17/23 15:26 | 10/17/23 20:10 | 1 |
| o-Terphenyl | 147 | S1+ | 70 - 130 | | | | 10/17/23 15:26 | 10/17/23 20:10 | 1 |

| Lab Sample ID: LCS 880-64905/2-A | | | | | | | Client Sample ID: Lab Control Sample | | |
|--------------------------------------|---------------|---------------|------------|---------------|-------|---|--------------------------------------|-------------|--|
| Matrix: Solid | | | | | | | Prep Type: Total/NA | | |
| Analysis Batch: 64848 | | | | | | | Prep Batch: 64905 | | |
| Analyte | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | |
| Gasoline Range Organics (GRO)-C6-C10 | | 1000 | 1073 | | mg/Kg | | 107 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | | 1000 | 964.6 | | mg/Kg | | 96 | 70 - 130 | |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 95 | | 70 - 130 | | | | | | |
| o-Terphenyl | 89 | | 70 - 130 | | | | | | |

| Lab Sample ID: LCSD 880-64905/3-A | | | | | | | Client Sample ID: Lab Control Sample Dup | | | |
|--------------------------------------|----------------|----------------|-------------|----------------|-------|---|--|-------------|-----|-----------|
| Matrix: Solid | | | | | | | Prep Type: Total/NA | | | |
| Analysis Batch: 64848 | | | | | | | Prep Batch: 64905 | | | |
| Analyte | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
| Gasoline Range Organics (GRO)-C6-C10 | | 1000 | 1033 | | mg/Kg | | 103 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | | 1000 | 926.6 | | mg/Kg | | 93 | 70 - 130 | 4 | 20 |
| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits | | | | | | | |
| 1-Chlorooctane | 87 | | 70 - 130 | | | | | | | |
| o-Terphenyl | 86 | | 70 - 130 | | | | | | | |

| Lab Sample ID: 880-34522-3 MS | | | | | | | Client Sample ID: B-3-S-6"-101623 | | | |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|-----------------------------------|------|-------------|--|
| Matrix: Solid | | | | | | | Prep Type: Total/NA | | | |
| Analysis Batch: 64848 | | | | | | | Prep Batch: 64905 | | | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | |
| Gasoline Range Organics (GRO)-C6-C10 | 34.6 | J | 994 | 959.3 | | mg/Kg | | 93 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | 58.0 | | 994 | 1151 | | mg/Kg | | 110 | 70 - 130 | |

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

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

Lab Sample ID: 880-34522-3 MS

Matrix: Solid

Analysis Batch: 64848

Client Sample ID: B-3-S-6"-101623

Prep Type: Total/NA

Prep Batch: 64905

| | MS | MS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 127 | | 70 - 130 |
| o-Terphenyl | 96 | | 70 - 130 |

Lab Sample ID: 880-34522-3 MSD

Matrix: Solid

Analysis Batch: 64848

Client Sample ID: B-3-S-6"-101623

Prep Type: Total/NA

Prep Batch: 64905

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 34.6 | J | 994 | 939.8 | | mg/Kg | | 91 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | 58.0 | | 994 | 1133 | | mg/Kg | | 108 | 70 - 130 | 2 | 20 |
| | MSD | MSD | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 126 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 94 | | 70 - 130 | | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64868/1-A

Matrix: Solid

Analysis Batch: 64884

Client Sample ID: Method Blank

Prep Type: Soluble

| | MB | MB | | | | | | | | |
|----------|--------|-----------|------|-------|-------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Chloride | <0.395 | U | 5.00 | 0.395 | mg/Kg | | | 10/17/23 11:59 | 1 | |

Lab Sample ID: LCS 880-64868/2-A

Matrix: Solid

Analysis Batch: 64884

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| | Spike | LCS | LCS | | | | | %Rec | | |
|----------|-------|--------|-----------|-------|---|------|----------|------|--|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | | | |
| Chloride | 250 | 228.0 | | mg/Kg | | 91 | 90 - 110 | | | |

Lab Sample ID: LCSD 880-64868/3-A

Matrix: Solid

Analysis Batch: 64884

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| | Spike | LCSD | LCSD | | | | | %Rec | | RPD |
|----------|-------|--------|-----------|-------|---|------|----------|------|-------|-----|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Chloride | 250 | 226.6 | | mg/Kg | | 91 | 90 - 110 | 1 | 20 | |

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 64863

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-34522-1 | B-1-S-6"-101623 | Total/NA | Solid | 8021B | 64865 |
| 880-34522-1 | B-1-S-6"-101623 | Total/NA | Solid | 8021B | 64865 |
| 880-34522-2 | B-2-S-6"-101623 | Total/NA | Solid | 8021B | 64865 |
| 880-34522-3 | B-3-S-6"-101623 | Total/NA | Solid | 8021B | 64865 |
| 880-34522-4 | B-4-S-6"-101623 | Total/NA | Solid | 8021B | 64865 |
| 880-34522-5 | SW-1-S-0-6"-101623 | Total/NA | Solid | 8021B | 64865 |
| 880-34522-6 | SW-2-S-0-.75"-101623 | Total/NA | Solid | 8021B | 64865 |
| 880-34522-7 | SW-3-S-0-.75"-101623 | Total/NA | Solid | 8021B | 64865 |
| MB 880-64865/5-A | Method Blank | Total/NA | Solid | 8021B | 64865 |
| LCS 880-64865/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 64865 |
| LCSD 880-64865/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 64865 |

Prep Batch: 64865

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-34522-1 | B-1-S-6"-101623 | Total/NA | Solid | 5030B | |
| 880-34522-2 | B-2-S-6"-101623 | Total/NA | Solid | 5030B | |
| 880-34522-3 | B-3-S-6"-101623 | Total/NA | Solid | 5030B | |
| 880-34522-4 | B-4-S-6"-101623 | Total/NA | Solid | 5030B | |
| 880-34522-5 | SW-1-S-0-6"-101623 | Total/NA | Solid | 5030B | |
| 880-34522-6 | SW-2-S-0-.75"-101623 | Total/NA | Solid | 5030B | |
| 880-34522-7 | SW-3-S-0-.75"-101623 | Total/NA | Solid | 5030B | |
| MB 880-64865/5-A | Method Blank | Total/NA | Solid | 5030B | |
| LCS 880-64865/1-A | Lab Control Sample | Total/NA | Solid | 5030B | |
| LCSD 880-64865/2-A | Lab Control Sample Dup | Total/NA | Solid | 5030B | |

Analysis Batch: 65013

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|----------------------|-----------|--------|------------|------------|
| 880-34522-1 | B-1-S-6"-101623 | Total/NA | Solid | Total BTEX | |
| 880-34522-2 | B-2-S-6"-101623 | Total/NA | Solid | Total BTEX | |
| 880-34522-3 | B-3-S-6"-101623 | Total/NA | Solid | Total BTEX | |
| 880-34522-4 | B-4-S-6"-101623 | Total/NA | Solid | Total BTEX | |
| 880-34522-5 | SW-1-S-0-6"-101623 | Total/NA | Solid | Total BTEX | |
| 880-34522-6 | SW-2-S-0-.75"-101623 | Total/NA | Solid | Total BTEX | |
| 880-34522-7 | SW-3-S-0-.75"-101623 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 64848

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-34522-1 | B-1-S-6"-101623 | Total/NA | Solid | 8015B NM | 64905 |
| 880-34522-2 | B-2-S-6"-101623 | Total/NA | Solid | 8015B NM | 64905 |
| 880-34522-3 | B-3-S-6"-101623 | Total/NA | Solid | 8015B NM | 64905 |
| 880-34522-4 | B-4-S-6"-101623 | Total/NA | Solid | 8015B NM | 64905 |
| 880-34522-5 | SW-1-S-0-6"-101623 | Total/NA | Solid | 8015B NM | 64905 |
| 880-34522-6 | SW-2-S-0-.75"-101623 | Total/NA | Solid | 8015B NM | 64905 |
| 880-34522-7 | SW-3-S-0-.75"-101623 | Total/NA | Solid | 8015B NM | 64905 |
| MB 880-64905/1-A | Method Blank | Total/NA | Solid | 8015B NM | 64905 |
| LCS 880-64905/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 64905 |
| LCSD 880-64905/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 64905 |
| 880-34522-3 MS | B-3-S-6"-101623 | Total/NA | Solid | 8015B NM | 64905 |
| 880-34522-3 MSD | B-3-S-6"-101623 | Total/NA | Solid | 8015B NM | 64905 |

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

GC Semi VOA

Prep Batch: 64905

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-34522-1 | B-1-S-6"-101623 | Total/NA | Solid | 8015NM Prep | |
| 880-34522-2 | B-2-S-6"-101623 | Total/NA | Solid | 8015NM Prep | |
| 880-34522-3 | B-3-S-6"-101623 | Total/NA | Solid | 8015NM Prep | |
| 880-34522-4 | B-4-S-6"-101623 | Total/NA | Solid | 8015NM Prep | |
| 880-34522-5 | SW-1-S-0-6"-101623 | Total/NA | Solid | 8015NM Prep | |
| 880-34522-6 | SW-2-S-0-.75"-101623 | Total/NA | Solid | 8015NM Prep | |
| 880-34522-7 | SW-3-S-0-.75"-101623 | Total/NA | Solid | 8015NM Prep | |
| MB 880-64905/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-64905/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-64905/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-34522-3 MS | B-3-S-6"-101623 | Total/NA | Solid | 8015NM Prep | |
| 880-34522-3 MSD | B-3-S-6"-101623 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 64985

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|----------------------|-----------|--------|---------|------------|
| 880-34522-1 | B-1-S-6"-101623 | Total/NA | Solid | 8015 NM | |
| 880-34522-2 | B-2-S-6"-101623 | Total/NA | Solid | 8015 NM | |
| 880-34522-3 | B-3-S-6"-101623 | Total/NA | Solid | 8015 NM | |
| 880-34522-4 | B-4-S-6"-101623 | Total/NA | Solid | 8015 NM | |
| 880-34522-5 | SW-1-S-0-6"-101623 | Total/NA | Solid | 8015 NM | |
| 880-34522-6 | SW-2-S-0-.75"-101623 | Total/NA | Solid | 8015 NM | |
| 880-34522-7 | SW-3-S-0-.75"-101623 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 64868

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-34522-1 | B-1-S-6"-101623 | Soluble | Solid | DI Leach | |
| 880-34522-2 | B-2-S-6"-101623 | Soluble | Solid | DI Leach | |
| 880-34522-3 | B-3-S-6"-101623 | Soluble | Solid | DI Leach | |
| 880-34522-4 | B-4-S-6"-101623 | Soluble | Solid | DI Leach | |
| 880-34522-5 | SW-1-S-0-6"-101623 | Soluble | Solid | DI Leach | |
| 880-34522-6 | SW-2-S-0-.75"-101623 | Soluble | Solid | DI Leach | |
| 880-34522-7 | SW-3-S-0-.75"-101623 | Soluble | Solid | DI Leach | |
| MB 880-64868/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-64868/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-64868/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

Analysis Batch: 64884

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-34522-1 | B-1-S-6"-101623 | Soluble | Solid | 300.0 | 64868 |
| 880-34522-2 | B-2-S-6"-101623 | Soluble | Solid | 300.0 | 64868 |
| 880-34522-3 | B-3-S-6"-101623 | Soluble | Solid | 300.0 | 64868 |
| 880-34522-4 | B-4-S-6"-101623 | Soluble | Solid | 300.0 | 64868 |
| 880-34522-5 | SW-1-S-0-6"-101623 | Soluble | Solid | 300.0 | 64868 |
| 880-34522-6 | SW-2-S-0-.75"-101623 | Soluble | Solid | 300.0 | 64868 |
| 880-34522-7 | SW-3-S-0-.75"-101623 | Soluble | Solid | 300.0 | 64868 |
| MB 880-64868/1-A | Method Blank | Soluble | Solid | 300.0 | 64868 |
| LCS 880-64868/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 64868 |
| LCSD 880-64868/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 64868 |

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

Client Sample ID: B-1-S-6"-101623
Date Collected: 10/16/23 10:30
Date Received: 10/17/23 11:07

Lab Sample ID: 880-34522-1
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5030B | | | 4.97 g | 5 mL | 64865 | 10/17/23 13:18 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 64863 | 10/17/23 17:00 | MNR | EET MID |
| Total/NA | Prep | 5030B | | | 4.97 g | 5 mL | 64865 | 10/17/23 13:18 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 64863 | 10/17/23 17:21 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 65013 | 10/17/23 17:00 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 64985 | 10/17/23 22:23 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.09 g | 10 mL | 64905 | 10/17/23 15:26 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 64848 | 10/17/23 22:23 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 64868 | 10/17/23 12:18 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 64884 | 10/18/23 05:31 | CH | EET MID |

Client Sample ID: B-2-S-6"-101623
Date Collected: 10/16/23 11:45
Date Received: 10/17/23 11:07

Lab Sample ID: 880-34522-2
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5030B | | | 4.99 g | 5 mL | 64865 | 10/17/23 13:18 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 64863 | 10/17/23 17:41 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 65013 | 10/17/23 17:41 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 64985 | 10/17/23 22:45 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.94 g | 10 mL | 64905 | 10/17/23 15:26 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 64848 | 10/17/23 22:45 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 64868 | 10/17/23 12:18 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 64884 | 10/18/23 05:38 | CH | EET MID |

Client Sample ID: B-3-S-6"-101623
Date Collected: 10/16/23 13:30
Date Received: 10/17/23 11:07

Lab Sample ID: 880-34522-3
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5030B | | | 5.02 g | 5 mL | 64865 | 10/17/23 13:18 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 64863 | 10/17/23 18:02 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 65013 | 10/17/23 18:02 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 64985 | 10/17/23 21:17 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.90 g | 10 mL | 64905 | 10/17/23 15:26 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 64848 | 10/17/23 21:17 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 64868 | 10/17/23 12:18 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 64884 | 10/18/23 05:58 | CH | EET MID |

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

Client Sample ID: B-4-S-6"-101623
Date Collected: 10/16/23 14:15
Date Received: 10/17/23 11:07

Lab Sample ID: 880-34522-4
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5030B | | | 5.03 g | 5 mL | 64865 | 10/17/23 13:18 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 64863 | 10/17/23 18:22 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 65013 | 10/17/23 18:22 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 64985 | 10/17/23 23:07 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 64905 | 10/17/23 15:26 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 64848 | 10/17/23 23:07 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 64868 | 10/17/23 12:18 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 64884 | 10/18/23 06:05 | CH | EET MID |

Client Sample ID: SW-1-S-0-6"-101623
Date Collected: 10/16/23 14:20
Date Received: 10/17/23 11:07

Lab Sample ID: 880-34522-5
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5030B | | | 5.02 g | 5 mL | 64865 | 10/17/23 13:18 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 64863 | 10/17/23 18:43 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 65013 | 10/17/23 18:43 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 64985 | 10/17/23 23:30 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.08 g | 10 mL | 64905 | 10/17/23 15:26 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 64848 | 10/17/23 23:30 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 64868 | 10/17/23 12:18 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 64884 | 10/18/23 06:11 | CH | EET MID |

Client Sample ID: SW-2-S-0-.75'-101623
Date Collected: 10/16/23 14:25
Date Received: 10/17/23 11:07

Lab Sample ID: 880-34522-6
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5030B | | | 5.03 g | 5 mL | 64865 | 10/17/23 13:18 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 64863 | 10/17/23 19:03 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 65013 | 10/17/23 19:03 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 64985 | 10/17/23 23:52 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.97 g | 10 mL | 64905 | 10/17/23 15:26 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 64848 | 10/17/23 23:52 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 64868 | 10/17/23 12:18 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 64884 | 10/18/23 06:18 | CH | EET MID |

Client Sample ID: SW-3-S-0-.75'-101623
Date Collected: 10/16/23 14:30
Date Received: 10/17/23 11:07

Lab Sample ID: 880-34522-7
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5030B | | | 4.99 g | 5 mL | 64865 | 10/17/23 13:18 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 64863 | 10/17/23 19:24 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 65013 | 10/17/23 19:24 | SM | EET MID |

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

Client Sample ID: SW-3-S-0-.75'-101623
Date Collected: 10/16/23 14:30
Date Received: 10/17/23 11:07

Lab Sample ID: 880-34522-7
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 64985 | 10/18/23 00:15 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.90 g | 10 mL | 64905 | 10/17/23 15:26 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 64848 | 10/18/23 00:15 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 64868 | 10/17/23 12:18 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 64884 | 10/18/23 06:25 | CH | EET MID |

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|---|-------------|-----------------------|-----------------|
| Texas | NELAP | T104704400-23-26 | 06-30-24 |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. | | | |
| Analysis Method | Prep Method | Matrix | Analyte |
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

Method Summary

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

| Method | Method Description | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B | Volatile Organic Compounds (GC) | SW846 | EET MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | EET MID |
| 8015 NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 8015B NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 300.0 | Anions, Ion Chromatography | EPA | EET MID |
| 5030B | Purge and Trap | SW846 | EET MID |
| 8015NM Prep | Microextraction | SW846 | EET MID |
| DI Leach | Deionized Water Leaching Procedure | ASTM | EET MID |

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34522-1
SDG: Lea County, NM

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|----------------------|--------|----------------|----------------|
| 880-34522-1 | B-1-S-6"-101623 | Solid | 10/16/23 10:30 | 10/17/23 11:07 |
| 880-34522-2 | B-2-S-6"-101623 | Solid | 10/16/23 11:45 | 10/17/23 11:07 |
| 880-34522-3 | B-3-S-6"-101623 | Solid | 10/16/23 13:30 | 10/17/23 11:07 |
| 880-34522-4 | B-4-S-6"-101623 | Solid | 10/16/23 14:15 | 10/17/23 11:07 |
| 880-34522-5 | SW-1-S-0-6"-101623 | Solid | 10/16/23 14:20 | 10/17/23 11:07 |
| 880-34522-6 | SW-2-S-0-.75'-101623 | Solid | 10/16/23 14:25 | 10/17/23 11:07 |
| 880-34522-7 | SW-3-S-0-.75'-101623 | Solid | 10/16/23 14:30 | 10/17/23 11:07 |



Eurofins Midland

1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

34522

Environmental Testing

[illegible]

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-34522-1
SDG Number: Lea County, NM

Login Number: 34522
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
ARCADIS US Inc
98 San Jacinto Blvd.
Suite 414
Austin, Texas 78701

Generated 10/23/2023 11:13:16 PM

JOB DESCRIPTION

Bass 4 Site
SDG NUMBER Lea County, NM

JOB NUMBER

880-34738-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
10/23/2023 11:13:16 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Laboratory Job ID: 880-34738-1
SDG: Lea County, NM

Table of Contents

| | |
|----------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 3 |
| Definitions/Glossary | 4 |
| Case Narrative | 5 |
| Client Sample Results | 6 |
| Surrogate Summary | 10 |
| QC Sample Results | 11 |
| QC Association Summary | 14 |
| Lab Chronicle | 16 |
| Certification Summary | 18 |
| Method Summary | 19 |
| Sample Summary | 20 |
| Chain of Custody | 21 |
| Receipt Checklists | 22 |

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

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34738-1
SDG: Lea County, NM

Qualifiers

GC VOA

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U | Indicates the analyte was analyzed for but not detected. |

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

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

Case Narrative

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34738-1
SDG: Lea County, NM

Job ID: 880-34738-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-34738-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/23/2023 8:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-1A-S-1'-101923 (880-34738-1), B-2A-S-1'-101923 (880-34738-2), B-4A-S-1'-101923 (880-34738-3), SW-1A-S-0-9"-101923 (880-34738-4) and SW-2A-S-0-9"-101923 (880-34738-5).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-65275 and analytical batch 880-65322 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: B-1A-S-1'-101923 (880-34738-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34738-1
SDG: Lea County, NM

Client Sample ID: B-1A-S-1'-101923

Lab Sample ID: 880-34738-1

Date Collected: 10/19/23 10:30

Matrix: Solid

Date Received: 10/23/23 08:40

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.000383 | U | 0.00199 | 0.000383 | mg/Kg | | 10/23/23 11:00 | 10/23/23 17:34 | 1 |
| Toluene | <0.000453 | U | 0.00199 | 0.000453 | mg/Kg | | 10/23/23 11:00 | 10/23/23 17:34 | 1 |
| Ethylbenzene | 0.000879 | J | 0.00199 | 0.000562 | mg/Kg | | 10/23/23 11:00 | 10/23/23 17:34 | 1 |
| m-Xylene & p-Xylene | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | 10/23/23 11:00 | 10/23/23 17:34 | 1 |
| o-Xylene | <0.000342 | U | 0.00199 | 0.000342 | mg/Kg | | 10/23/23 11:00 | 10/23/23 17:34 | 1 |
| Xylenes, Total | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | 10/23/23 11:00 | 10/23/23 17:34 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 232 | S1+ | 70 - 130 | | | | 10/23/23 11:00 | 10/23/23 17:34 | 1 |
| 1,4-Difluorobenzene (Surr) | 205 | S1+ | 70 - 130 | | | | 10/23/23 11:00 | 10/23/23 17:34 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | | 10/23/23 17:34 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|------|-------|---|----------|----------------|---------|
| Total TPH | 93.4 | | 49.9 | 15.0 | mg/Kg | | | 10/23/23 17:46 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 18.7 | J | 49.9 | 15.0 | mg/Kg | | 10/23/23 09:31 | 10/23/23 17:46 | 1 |
| Diesel Range Organics (Over C10-C28) | 74.7 | | 49.9 | 15.0 | mg/Kg | | 10/23/23 09:31 | 10/23/23 17:46 | 1 |
| Oil Range Organics (Over C28-C36) | <15.0 | U | 49.9 | 15.0 | mg/Kg | | 10/23/23 09:31 | 10/23/23 17:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 77 | | 70 - 130 | | | | 10/23/23 09:31 | 10/23/23 17:46 | 1 |
| o-Terphenyl | 87 | | 70 - 130 | | | | 10/23/23 09:31 | 10/23/23 17:46 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------|----------------|---------|
| Chloride | 81.8 | | 5.04 | 0.398 | mg/Kg | | | 10/23/23 12:24 | 1 |

Client Sample ID: B-2A-S-1'-101923

Lab Sample ID: 880-34738-2

Date Collected: 10/19/23 10:45

Matrix: Solid

Date Received: 10/23/23 08:40

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.000384 | U | 0.00200 | 0.000384 | mg/Kg | | 10/23/23 11:00 | 10/23/23 17:55 | 1 |
| Toluene | <0.000455 | U | 0.00200 | 0.000455 | mg/Kg | | 10/23/23 11:00 | 10/23/23 17:55 | 1 |
| Ethylbenzene | <0.000564 | U | 0.00200 | 0.000564 | mg/Kg | | 10/23/23 11:00 | 10/23/23 17:55 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00399 | 0.00101 | mg/Kg | | 10/23/23 11:00 | 10/23/23 17:55 | 1 |
| o-Xylene | 0.000425 | J | 0.00200 | 0.000343 | mg/Kg | | 10/23/23 11:00 | 10/23/23 17:55 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00399 | 0.00101 | mg/Kg | | 10/23/23 11:00 | 10/23/23 17:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 90 | | 70 - 130 | | | | 10/23/23 11:00 | 10/23/23 17:55 | 1 |
| 1,4-Difluorobenzene (Surr) | 112 | | 70 - 130 | | | | 10/23/23 11:00 | 10/23/23 17:55 | 1 |

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34738-1
SDG: Lea County, NM

Client Sample ID: B-2A-S-1'-101923

Lab Sample ID: 880-34738-2

Date Collected: 10/19/23 10:45

Matrix: Solid

Date Received: 10/23/23 08:40

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00101 | U | 0.00399 | 0.00101 | mg/Kg | | | 10/23/23 17:55 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|------|-------|---|----------|----------------|---------|
| Total TPH | 69.4 | | 50.1 | 15.0 | mg/Kg | | | 10/23/23 18:07 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 25.9 | J | 50.1 | 15.0 | mg/Kg | | 10/23/23 09:31 | 10/23/23 18:07 | 1 |
| Diesel Range Organics (Over C10-C28) | 43.5 | J | 50.1 | 15.0 | mg/Kg | | 10/23/23 09:31 | 10/23/23 18:07 | 1 |
| Oil Range Organics (Over C28-C36) | <15.0 | U | 50.1 | 15.0 | mg/Kg | | 10/23/23 09:31 | 10/23/23 18:07 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 87 | | 70 - 130 | | | | 10/23/23 09:31 | 10/23/23 18:07 | 1 |
| o-Terphenyl | 99 | | 70 - 130 | | | | 10/23/23 09:31 | 10/23/23 18:07 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------|----------------|---------|
| Chloride | 86.3 | | 5.02 | 0.397 | mg/Kg | | | 10/23/23 12:30 | 1 |

Client Sample ID: B-4A-S-1'-101923

Lab Sample ID: 880-34738-3

Date Collected: 10/19/23 14:00

Matrix: Solid

Date Received: 10/23/23 08:40

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.000386 | U | 0.00200 | 0.000386 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:15 | 1 |
| Toluene | <0.000457 | U | 0.00200 | 0.000457 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:15 | 1 |
| Ethylbenzene | <0.000566 | U | 0.00200 | 0.000566 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:15 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00401 | 0.00101 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:15 | 1 |
| o-Xylene | 0.000406 | J | 0.00200 | 0.000345 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:15 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00401 | 0.00101 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:15 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 | | | | 10/23/23 11:00 | 10/23/23 18:15 | 1 |
| 1,4-Difluorobenzene (Surr) | 112 | | 70 - 130 | | | | 10/23/23 11:00 | 10/23/23 18:15 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00101 | U | 0.00401 | 0.00101 | mg/Kg | | | 10/23/23 18:15 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|------|-------|---|----------|----------------|---------|
| Total TPH | 20.6 | J | 50.0 | 15.0 | mg/Kg | | | 10/23/23 18:28 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 20.6 | J | 50.0 | 15.0 | mg/Kg | | 10/23/23 09:31 | 10/23/23 18:28 | 1 |
| Diesel Range Organics (Over C10-C28) | <15.0 | U | 50.0 | 15.0 | mg/Kg | | 10/23/23 09:31 | 10/23/23 18:28 | 1 |

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34738-1
SDG: Lea County, NM

Client Sample ID: B-4A-S-1'-101923
Date Collected: 10/19/23 14:00
Date Received: 10/23/23 08:40

Lab Sample ID: 880-34738-3
Matrix: Solid

| Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) | | | | | | | | | |
|---|-----------|-----------|----------|------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Oil Range Organics (Over C28-C36) | <15.0 | U | 50.0 | 15.0 | mg/Kg | | 10/23/23 09:31 | 10/23/23 18:28 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 73 | | 70 - 130 | | | | 10/23/23 09:31 | 10/23/23 18:28 | 1 |
| o-Terphenyl | 85 | | 70 - 130 | | | | 10/23/23 09:31 | 10/23/23 18:28 | 1 |

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | |
|--|--------|-----------|------|-------|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 62.2 | | 5.03 | 0.397 | mg/Kg | | | 10/23/23 12:37 | 1 |

Client Sample ID: SW-1A-S-0-9"-101923
Date Collected: 10/19/23 11:00
Date Received: 10/23/23 08:40

Lab Sample ID: 880-34738-4
Matrix: Solid

| Method: SW846 8021B - Volatile Organic Compounds (GC) | | | | | | | | | |
|---|-----------|-----------|----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.000383 | U | 0.00199 | 0.000383 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:35 | 1 |
| Toluene | <0.000454 | U | 0.00199 | 0.000454 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:35 | 1 |
| Ethylbenzene | <0.000563 | U | 0.00199 | 0.000563 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:35 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:35 | 1 |
| o-Xylene | <0.000343 | U | 0.00199 | 0.000343 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:35 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:35 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 91 | | 70 - 130 | | | | 10/23/23 11:00 | 10/23/23 18:35 | 1 |
| 1,4-Difluorobenzene (Surr) | 109 | | 70 - 130 | | | | 10/23/23 11:00 | 10/23/23 18:35 | 1 |

| Method: TAL SOP Total BTEX - Total BTEX Calculation | | | | | | | | | |
|---|----------|-----------|---------|---------|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00101 | U | 0.00398 | 0.00101 | mg/Kg | | | 10/23/23 18:35 | 1 |

| Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) | | | | | | | | | |
|--|--------|-----------|------|------|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | 66.1 | | 50.5 | 15.1 | mg/Kg | | | 10/23/23 18:49 | 1 |

| Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) | | | | | | | | | |
|---|-----------|-----------|----------|------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | 30.0 | J | 50.5 | 15.1 | mg/Kg | | 10/23/23 09:31 | 10/23/23 18:49 | 1 |
| Diesel Range Organics (Over C10-C28) | 36.1 | J | 50.5 | 15.1 | mg/Kg | | 10/23/23 09:31 | 10/23/23 18:49 | 1 |
| Oil Range Organics (Over C28-C36) | <15.1 | U | 50.5 | 15.1 | mg/Kg | | 10/23/23 09:31 | 10/23/23 18:49 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 77 | | 70 - 130 | | | | 10/23/23 09:31 | 10/23/23 18:49 | 1 |
| o-Terphenyl | 88 | | 70 - 130 | | | | 10/23/23 09:31 | 10/23/23 18:49 | 1 |

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | |
|--|--------|-----------|------|-------|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 95.8 | | 5.03 | 0.397 | mg/Kg | | | 10/23/23 12:44 | 1 |

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34738-1
SDG: Lea County, NM

Client Sample ID: SW-2A-S-0-9"-101923

Lab Sample ID: 880-34738-5

Date Collected: 10/19/23 11:30

Matrix: Solid

Date Received: 10/23/23 08:40

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|---------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.000383 | U | 0.00199 | 0.000383 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:56 | 1 |
| Toluene | <0.000453 | U | 0.00199 | 0.000453 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:56 | 1 |
| Ethylbenzene | <0.000562 | U | 0.00199 | 0.000562 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:56 | 1 |
| m-Xylene & p-Xylene | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:56 | 1 |
| o-Xylene | <0.000342 | U | 0.00199 | 0.000342 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:56 | 1 |
| Xylenes, Total | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | 10/23/23 11:00 | 10/23/23 18:56 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 92 | | 70 - 130 | 10/23/23 11:00 | 10/23/23 18:56 | 1 |
| 1,4-Difluorobenzene (Surr) | 115 | | 70 - 130 | 10/23/23 11:00 | 10/23/23 18:56 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00100 | U | 0.00398 | 0.00100 | mg/Kg | | | 10/23/23 18:56 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|------|-------|---|----------|----------------|---------|
| Total TPH | <15.2 | U | 50.5 | 15.2 | mg/Kg | | | 10/23/23 19:30 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <15.2 | U | 50.5 | 15.2 | mg/Kg | | 10/23/23 09:31 | 10/23/23 19:30 | 1 |
| Diesel Range Organics (Over C10-C28) | <15.2 | U | 50.5 | 15.2 | mg/Kg | | 10/23/23 09:31 | 10/23/23 19:30 | 1 |
| Oil Range Organics (Over C28-C36) | <15.2 | U | 50.5 | 15.2 | mg/Kg | | 10/23/23 09:31 | 10/23/23 19:30 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 75 | | 70 - 130 | 10/23/23 09:31 | 10/23/23 19:30 | 1 |
| o-Terphenyl | 84 | | 70 - 130 | 10/23/23 09:31 | 10/23/23 19:30 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------|----------------|---------|
| Chloride | 31.2 | | 5.00 | 0.395 | mg/Kg | | | 10/23/23 13:04 | 1 |

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34738-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB1 | DFBZ1 |
|--------------------|------------------------|----------|----------|
| | | (70-130) | (70-130) |
| 880-34738-1 | B-1A-S-1'-101923 | 232 S1+ | 205 S1+ |
| 880-34738-2 | B-2A-S-1'-101923 | 90 | 112 |
| 880-34738-3 | B-4A-S-1'-101923 | 100 | 112 |
| 880-34738-4 | SW-1A-S-0-9"-101923 | 91 | 109 |
| 880-34738-5 | SW-2A-S-0-9"-101923 | 92 | 115 |
| LCS 880-65275/1-A | Lab Control Sample | 100 | 100 |
| LCSD 880-65275/2-A | Lab Control Sample Dup | 106 | 101 |
| MB 880-65275/5-A | Method Blank | 105 | 132 S1+ |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | 1CO1 | OTPH1 |
|--------------------|------------------------|----------|----------|
| | | (70-130) | (70-130) |
| 880-34738-1 | B-1A-S-1'-101923 | 77 | 87 |
| 880-34738-2 | B-2A-S-1'-101923 | 87 | 99 |
| 880-34738-3 | B-4A-S-1'-101923 | 73 | 85 |
| 880-34738-4 | SW-1A-S-0-9"-101923 | 77 | 88 |
| 880-34738-5 | SW-2A-S-0-9"-101923 | 75 | 84 |
| LCS 880-65337/2-A | Lab Control Sample | 90 | 100 |
| LCSD 880-65337/3-A | Lab Control Sample Dup | 89 | 97 |
| MB 880-65337/1-A | Method Blank | 107 | 126 |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34738-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-65275/5-A

Matrix: Solid

Analysis Batch: 65322

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65275

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------------|-----------------|---------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.000385 | U | 0.00200 | 0.000385 | mg/Kg | | 10/21/23 15:12 | 10/23/23 12:11 | 1 |
| Toluene | <0.000456 | U | 0.00200 | 0.000456 | mg/Kg | | 10/21/23 15:12 | 10/23/23 12:11 | 1 |
| Ethylbenzene | <0.000565 | U | 0.00200 | 0.000565 | mg/Kg | | 10/21/23 15:12 | 10/23/23 12:11 | 1 |
| m-Xylene & p-Xylene | <0.00101 | U | 0.00400 | 0.00101 | mg/Kg | | 10/21/23 15:12 | 10/23/23 12:11 | 1 |
| o-Xylene | <0.000344 | U | 0.00200 | 0.000344 | mg/Kg | | 10/21/23 15:12 | 10/23/23 12:11 | 1 |
| Xylenes, Total | <0.00101 | U | 0.00400 | 0.00101 | mg/Kg | | 10/21/23 15:12 | 10/23/23 12:11 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 | 10/21/23 15:12 | 10/23/23 12:11 | 1 |
| 1,4-Difluorobenzene (Surr) | 132 | S1+ | 70 - 130 | 10/21/23 15:12 | 10/23/23 12:11 | 1 |

Lab Sample ID: LCS 880-65275/1-A

Matrix: Solid

Analysis Batch: 65322

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65275

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Benzene | 0.100 | 0.08759 | | mg/Kg | | 88 | 70 - 130 |
| Toluene | 0.100 | 0.07851 | | mg/Kg | | 79 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.08016 | | mg/Kg | | 80 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1842 | | mg/Kg | | 92 | 70 - 130 |
| o-Xylene | 0.100 | 0.08963 | | mg/Kg | | 90 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 |

Lab Sample ID: LCSD 880-65275/2-A

Matrix: Solid

Analysis Batch: 65322

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65275

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Benzene | 0.100 | 0.09701 | | mg/Kg | | 97 | 70 - 130 | 10 | 35 |
| Toluene | 0.100 | 0.08247 | | mg/Kg | | 82 | 70 - 130 | 5 | 35 |
| Ethylbenzene | 0.100 | 0.08707 | | mg/Kg | | 87 | 70 - 130 | 8 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1945 | | mg/Kg | | 97 | 70 - 130 | 5 | 35 |
| o-Xylene | 0.100 | 0.09524 | | mg/Kg | | 95 | 70 - 130 | 6 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|-------------------|-------------------|----------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 |

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34738-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-65337/1-A
Matrix: Solid
Analysis Batch: 65295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65337

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|--------------|------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <15.0 | U | 50.0 | 15.0 | mg/Kg | | 10/23/23 07:31 | 10/23/23 07:59 | 1 |
| Diesel Range Organics (Over C10-C28) | <15.0 | U | 50.0 | 15.0 | mg/Kg | | 10/23/23 07:31 | 10/23/23 07:59 | 1 |
| Oil Range Organics (Over C28-C36) | <15.0 | U | 50.0 | 15.0 | mg/Kg | | 10/23/23 07:31 | 10/23/23 07:59 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 107 | | 70 - 130 | 10/23/23 07:31 | 10/23/23 07:59 | 1 |
| o-Terphenyl | 126 | | 70 - 130 | 10/23/23 07:31 | 10/23/23 07:59 | 1 |

Lab Sample ID: LCS 880-65337/2-A
Matrix: Solid
Analysis Batch: 65295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65337

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 843.5 | | mg/Kg | | 84 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 843.8 | | mg/Kg | | 84 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|----------------|---------------|---------------|----------|
| 1-Chlorooctane | 90 | | 70 - 130 |
| o-Terphenyl | 100 | | 70 - 130 |

Lab Sample ID: LCSD 880-65337/3-A
Matrix: Solid
Analysis Batch: 65295

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65337

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 862.0 | | mg/Kg | | 86 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 865.3 | | mg/Kg | | 87 | 70 - 130 | 3 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|----------------|----------------|----------------|----------|
| 1-Chlorooctane | 89 | | 70 - 130 |
| o-Terphenyl | 97 | | 70 - 130 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65339/1-A
Matrix: Solid
Analysis Batch: 65345

Client Sample ID: Method Blank
Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|-------|---|----------|----------------|---------|
| Chloride | <0.395 | U | 5.00 | 0.395 | mg/Kg | | | 10/23/23 11:44 | 1 |

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34738-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

| | | | | | | | | | |
|----------------------------------|-------------|------------|---------------|-------|--------------------------------------|------|-------------|--|--|
| Lab Sample ID: LCS 880-65339/2-A | | | | | Client Sample ID: Lab Control Sample | | | | |
| Matrix: Solid | | | | | Prep Type: Soluble | | | | |
| Analysis Batch: 65345 | | | | | | | | | |
| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
| Chloride | 250 | 241.1 | | mg/Kg | | 96 | 90 - 110 | | |

| | | | | | | | | | |
|-----------------------------------|-------------|-------------|----------------|-------|--|------|-------------|-----|-----------|
| Lab Sample ID: LCSD 880-65339/3-A | | | | | Client Sample ID: Lab Control Sample Dup | | | | |
| Matrix: Solid | | | | | Prep Type: Soluble | | | | |
| Analysis Batch: 65345 | | | | | | | | | |
| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
| Chloride | 250 | 241.7 | | mg/Kg | | 97 | 90 - 110 | 0 | 20 |

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34738-1
SDG: Lea County, NM

GC VOA

Prep Batch: 65275

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-34738-1 | B-1A-S-1'-101923 | Total/NA | Solid | 5030B | |
| 880-34738-2 | B-2A-S-1'-101923 | Total/NA | Solid | 5030B | |
| 880-34738-3 | B-4A-S-1'-101923 | Total/NA | Solid | 5030B | |
| 880-34738-4 | SW-1A-S-0-9"-101923 | Total/NA | Solid | 5030B | |
| 880-34738-5 | SW-2A-S-0-9"-101923 | Total/NA | Solid | 5030B | |
| MB 880-65275/5-A | Method Blank | Total/NA | Solid | 5030B | |
| LCS 880-65275/1-A | Lab Control Sample | Total/NA | Solid | 5030B | |
| LCSD 880-65275/2-A | Lab Control Sample Dup | Total/NA | Solid | 5030B | |

Analysis Batch: 65322

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-34738-1 | B-1A-S-1'-101923 | Total/NA | Solid | 8021B | 65275 |
| 880-34738-2 | B-2A-S-1'-101923 | Total/NA | Solid | 8021B | 65275 |
| 880-34738-3 | B-4A-S-1'-101923 | Total/NA | Solid | 8021B | 65275 |
| 880-34738-4 | SW-1A-S-0-9"-101923 | Total/NA | Solid | 8021B | 65275 |
| 880-34738-5 | SW-2A-S-0-9"-101923 | Total/NA | Solid | 8021B | 65275 |
| MB 880-65275/5-A | Method Blank | Total/NA | Solid | 8021B | 65275 |
| LCS 880-65275/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 65275 |
| LCSD 880-65275/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 65275 |

Analysis Batch: 65428

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|---------------------|-----------|--------|------------|------------|
| 880-34738-1 | B-1A-S-1'-101923 | Total/NA | Solid | Total BTEX | |
| 880-34738-2 | B-2A-S-1'-101923 | Total/NA | Solid | Total BTEX | |
| 880-34738-3 | B-4A-S-1'-101923 | Total/NA | Solid | Total BTEX | |
| 880-34738-4 | SW-1A-S-0-9"-101923 | Total/NA | Solid | Total BTEX | |
| 880-34738-5 | SW-2A-S-0-9"-101923 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 65295

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-34738-1 | B-1A-S-1'-101923 | Total/NA | Solid | 8015B NM | 65337 |
| 880-34738-2 | B-2A-S-1'-101923 | Total/NA | Solid | 8015B NM | 65337 |
| 880-34738-3 | B-4A-S-1'-101923 | Total/NA | Solid | 8015B NM | 65337 |
| 880-34738-4 | SW-1A-S-0-9"-101923 | Total/NA | Solid | 8015B NM | 65337 |
| 880-34738-5 | SW-2A-S-0-9"-101923 | Total/NA | Solid | 8015B NM | 65337 |
| MB 880-65337/1-A | Method Blank | Total/NA | Solid | 8015B NM | 65337 |
| LCS 880-65337/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 65337 |
| LCSD 880-65337/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 65337 |

Prep Batch: 65337

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-34738-1 | B-1A-S-1'-101923 | Total/NA | Solid | 8015NM Prep | |
| 880-34738-2 | B-2A-S-1'-101923 | Total/NA | Solid | 8015NM Prep | |
| 880-34738-3 | B-4A-S-1'-101923 | Total/NA | Solid | 8015NM Prep | |
| 880-34738-4 | SW-1A-S-0-9"-101923 | Total/NA | Solid | 8015NM Prep | |
| 880-34738-5 | SW-2A-S-0-9"-101923 | Total/NA | Solid | 8015NM Prep | |
| MB 880-65337/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-65337/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-65337/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34738-1
SDG: Lea County, NM

GC Semi VOA

Analysis Batch: 65433

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|---------------------|-----------|--------|---------|------------|
| 880-34738-1 | B-1A-S-1'-101923 | Total/NA | Solid | 8015 NM | |
| 880-34738-2 | B-2A-S-1'-101923 | Total/NA | Solid | 8015 NM | |
| 880-34738-3 | B-4A-S-1'-101923 | Total/NA | Solid | 8015 NM | |
| 880-34738-4 | SW-1A-S-0-9"-101923 | Total/NA | Solid | 8015 NM | |
| 880-34738-5 | SW-2A-S-0-9"-101923 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 65339

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-34738-1 | B-1A-S-1'-101923 | Soluble | Solid | DI Leach | |
| 880-34738-2 | B-2A-S-1'-101923 | Soluble | Solid | DI Leach | |
| 880-34738-3 | B-4A-S-1'-101923 | Soluble | Solid | DI Leach | |
| 880-34738-4 | SW-1A-S-0-9"-101923 | Soluble | Solid | DI Leach | |
| 880-34738-5 | SW-2A-S-0-9"-101923 | Soluble | Solid | DI Leach | |
| MB 880-65339/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-65339/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-65339/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

Analysis Batch: 65345

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-34738-1 | B-1A-S-1'-101923 | Soluble | Solid | 300.0 | 65339 |
| 880-34738-2 | B-2A-S-1'-101923 | Soluble | Solid | 300.0 | 65339 |
| 880-34738-3 | B-4A-S-1'-101923 | Soluble | Solid | 300.0 | 65339 |
| 880-34738-4 | SW-1A-S-0-9"-101923 | Soluble | Solid | 300.0 | 65339 |
| 880-34738-5 | SW-2A-S-0-9"-101923 | Soluble | Solid | 300.0 | 65339 |
| MB 880-65339/1-A | Method Blank | Soluble | Solid | 300.0 | 65339 |
| LCS 880-65339/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 65339 |
| LCSD 880-65339/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 65339 |

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34738-1
SDG: Lea County, NM

Client Sample ID: B-1A-S-1'-101923
Date Collected: 10/19/23 10:30
Date Received: 10/23/23 08:40

Lab Sample ID: 880-34738-1
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5030B | | | 5.03 g | 5 mL | 65275 | 10/23/23 11:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65322 | 10/23/23 17:34 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 65428 | 10/23/23 17:34 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65433 | 10/23/23 17:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 65337 | 10/23/23 09:31 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65295 | 10/23/23 17:46 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 65339 | 10/23/23 09:33 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 65345 | 10/23/23 12:24 | CH | EET MID |

Client Sample ID: B-2A-S-1'-101923
Date Collected: 10/19/23 10:45
Date Received: 10/23/23 08:40

Lab Sample ID: 880-34738-2
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5030B | | | 5.01 g | 5 mL | 65275 | 10/23/23 11:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65322 | 10/23/23 17:55 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 65428 | 10/23/23 17:55 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65433 | 10/23/23 18:07 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.98 g | 10 mL | 65337 | 10/23/23 09:31 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65295 | 10/23/23 18:07 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 65339 | 10/23/23 09:33 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 65345 | 10/23/23 12:30 | CH | EET MID |

Client Sample ID: B-4A-S-1'-101923
Date Collected: 10/19/23 14:00
Date Received: 10/23/23 08:40

Lab Sample ID: 880-34738-3
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5030B | | | 4.99 g | 5 mL | 65275 | 10/23/23 11:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65322 | 10/23/23 18:15 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 65428 | 10/23/23 18:15 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65433 | 10/23/23 18:28 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 65337 | 10/23/23 09:31 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65295 | 10/23/23 18:28 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 65339 | 10/23/23 09:33 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 65345 | 10/23/23 12:37 | CH | EET MID |

Client Sample ID: SW-1A-S-0-9"-101923
Date Collected: 10/19/23 11:00
Date Received: 10/23/23 08:40

Lab Sample ID: 880-34738-4
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5030B | | | 5.02 g | 5 mL | 65275 | 10/23/23 11:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65322 | 10/23/23 18:35 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 65428 | 10/23/23 18:35 | SM | EET MID |

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34738-1
SDG: Lea County, NM

Client Sample ID: SW-1A-S-0-9"-101923
Date Collected: 10/19/23 11:00
Date Received: 10/23/23 08:40

Lab Sample ID: 880-34738-4
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 65433 | 10/23/23 18:49 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.91 g | 10 mL | 65337 | 10/23/23 09:31 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65295 | 10/23/23 18:49 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 65339 | 10/23/23 09:33 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 65345 | 10/23/23 12:44 | CH | EET MID |

Client Sample ID: SW-2A-S-0-9"-101923
Date Collected: 10/19/23 11:30
Date Received: 10/23/23 08:40

Lab Sample ID: 880-34738-5
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5030B | | | 5.03 g | 5 mL | 65275 | 10/23/23 11:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65322 | 10/23/23 18:56 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 65428 | 10/23/23 18:56 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65433 | 10/23/23 19:30 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.90 g | 10 mL | 65337 | 10/23/23 09:31 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65295 | 10/23/23 19:30 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 65339 | 10/23/23 09:33 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 65345 | 10/23/23 13:04 | CH | EET MID |

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34738-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|---|-------------|-----------------------|-----------------|
| Texas | NELAP | T104704400-23-26 | 06-30-24 |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. | | | |
| Analysis Method | Prep Method | Matrix | Analyte |
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

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Method Summary

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34738-1
SDG: Lea County, NM

| Method | Method Description | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B | Volatile Organic Compounds (GC) | SW846 | EET MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | EET MID |
| 8015 NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 8015B NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 300.0 | Anions, Ion Chromatography | EPA | EET MID |
| 5030B | Purge and Trap | SW846 | EET MID |
| 8015NM Prep | Microextraction | SW846 | EET MID |
| DI Leach | Deionized Water Leaching Procedure | ASTM | EET MID |

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: ARCADIS US Inc
Project/Site: Bass 4 Site

Job ID: 880-34738-1
SDG: Lea County, NM

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|---------------------|--------|----------------|----------------|
| 880-34738-1 | B-1A-S-1'-101923 | Solid | 10/19/23 10:30 | 10/23/23 08:40 |
| 880-34738-2 | B-2A-S-1'-101923 | Solid | 10/19/23 10:45 | 10/23/23 08:40 |
| 880-34738-3 | B-4A-S-1'-101923 | Solid | 10/19/23 14:00 | 10/23/23 08:40 |
| 880-34738-4 | SW-1A-S-0-9"-101923 | Solid | 10/19/23 11:00 | 10/23/23 08:40 |
| 880-34738-5 | SW-2A-S-0-9"-101923 | Solid | 10/19/23 11:30 | 10/23/23 08:40 |

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fins Midland

Florida Ave
TX 79701

Phone (432) 704-5440

Chain of Custody Record

eurofins
738

Environ Monit Assess

[illegible]

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-34738-1
SDG Number: Lea County, NM

Login Number: 34738
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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10205 Westheimer Road, Suite 800
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Texas 77042
Phone: 713 953 4800
Fax: 713 977 4620
www.arcadis.com

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 364363

QUESTIONS

| | |
|---|----------------|
| Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706 | OGRID: |
| | 4323 |
| | Action Number: |
| | 364363 |
| Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) | |

QUESTIONS

| | |
|-------------------|-------------------------------------|
| Prerequisites | |
| Incident ID (n#) | nPAC0704334283 |
| Incident Name | NPAC0704334283 BASS #4 @ 0 |
| Incident Type | Oil Release |
| Incident Status | Remediation Closure Report Received |
| Incident Facility | [fPAC0704334209] CHEVRON BASS #4 |

| | |
|--|------------|
| Location of Release Source | |
| Please answer all the questions in this group. | |
| Site Name | BASS #4 |
| Date Release Discovered | 01/27/2007 |
| Surface Owner | State |

| | |
|--|-------------|
| Incident Details | |
| Please answer all the questions in this group. | |
| Incident Type | Oil Release |
| 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 | Cause: Equipment Failure Pump Crude Oil Released: 6 BBL Recovered: 5 BBL Lost: 1 BBL. |
| 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 | Not answered. |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Not answered. |

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QUESTIONS, Page 2

Action 364363

QUESTIONS (continued)

| | | |
|--|----------------|---|
| Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706 | OGRID: | 4323 |
| | Action Number: | 364363 |
| | Action Type: | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
| | | |

QUESTIONS

| Nature and Volume of Release (continued) | |
|---|---|
| Is this a gas only submission (i.e. only significant Mcf values reported) | No, according to supplied volumes this does not appear to be a "gas only" report. |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | No |
| 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: 07/16/2024 |

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QUESTIONS, Page 3

Action 364363

QUESTIONS (continued)

| | |
|--|---|
| Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706 | OGRID: |
| | 4323 |
| | Action Number: 364363 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

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 51 and 75 (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 1 and 5 (mi.) |
| 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 | Greater than 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 1000 (ft.) and ½ (mi.) |
| A subsurface mine | Between 1 and 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) | 244 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 570 |
| GRO+DRO (EPA SW-846 Method 8015M) | 570 |
| BTEX (EPA SW-846 Method 8021B or 8260B) | 0 |
| Benzene (EPA SW-846 Method 8021B or 8260B) | 0 |

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 | 10/16/2023 |
| On what date will (or did) the final sampling or liner inspection occur | 10/16/2023 |
| On what date will (or was) the remediation complete(d) | 10/25/2023 |
| What is the estimated surface area (in square feet) that will be reclaimed | 555 |
| What is the estimated volume (in cubic yards) that will be reclaimed | 18 |
| What is the estimated surface area (in square feet) that will be remediated | 555 |
| What is the estimated volume (in cubic yards) that will be remediated | 18 |

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, Page 4
Action 364363

QUESTIONS (continued)

| | | |
|--|----------------|---|
| Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706 | OGRID: | 4323 |
| | Action Number: | 364363 |
| | Action Type: | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
| | | |

QUESTIONS

| | |
|--|---|
| Remediation Plan (continued) | |
| <i>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.</i> | |
| This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: | |
| <i>(Select all answers below that apply.)</i> | |
| (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. |
| <i>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> | |
| 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: 07/16/2024 |
| <i>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.</i> | |

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QUESTIONS, Page 5

Action 364363

QUESTIONS (continued)

| | |
|--|---|
| Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706 | OGRID: 4323 |
| | Action Number: 364363 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| | |
|---|----|
| Deferral Requests Only | |
| <i>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.</i> | |
| Requesting a deferral of the remediation closure due date with the approval of this submission | No |

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 6

Action 364363

QUESTIONS (continued)

| | | |
|--|----------------|---|
| Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706 | OGRID: | 4323 |
| | Action Number: | 364363 |
| | Action Type: | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
| | | |

QUESTIONS

| Sampling Event Information | |
|---|------------|
| Last sampling notification (C-141N) recorded | 294604 |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 10/16/2023 |
| What was the (estimated) number of samples that were to be gathered | 7 |
| What was the sampling surface area in square feet | 555 |

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 | Yes |
| Have the lateral and vertical extents of contamination been fully delineated | Yes |
| Was this release entirely contained within a lined containment area | No |
| All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion | Yes |
| What was the total surface area (in square feet) remediated | 555 |
| What was the total volume (cubic yards) remediated | 18 |
| All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene | Yes |
| What was the total surface area (in square feet) reclaimed | 0 |
| What was the total volume (in cubic yards) reclaimed | 0 |
| Summarize any additional remediation activities not included by answers (above) | Still active tank battery. Restored, backfilled with local sourced, like material. |

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

| | |
|--|---|
| I hereby agree and sign off to the above statement | Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 07/16/2024 |
|--|---|

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QUESTIONS, Page 7

Action 364363

QUESTIONS (continued)

| | |
|--|---|
| Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706 | OGRID: 4323 |
| | Action Number: 364363 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| | |
|---|----|
| Reclamation Report | |
| Only answer the questions in this group if all reclamation steps have been completed. | |
| Requesting a reclamation approval with this submission | No |

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CONDITIONS

Action 364363

CONDITIONS

| | |
|--|---|
| Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706 | OGRID: 4323 |
| | Action Number: 364363 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
| | |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| amaxwell | Remediation closure approved. | 7/29/2024 |
| amaxwell | A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable. | 7/29/2024 |
| amaxwell | The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan. | 7/29/2024 |