

# Remediation Summary and Closure Report

December 20, 2024

Chem State #001 API No. 30-025-08012 Incident No. nAPP2426159828 Lea County, New Mexico

# **Prepared For:**

Octane Energy (For Cambrian Management Ltd.) 310 West Wall Street, Suite 300 Midland, Texas 79701

# Prepared By:

Crain Environmental 2925 East 17<sup>th</sup> Street Odessa, Texas 79761

Gynthia K. Crain, P.G.



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### 1.0 Introduction

Crain Environmental (CE), on behalf of Octane Energy (Octane) for Cambrian Management Ltd. (Cambrian), has prepared this *Remediation Summary and Closure Report* for the crude oil release at Chem State #001 (Site), located approximately 23 miles northwest of Lovington, in Lea County, New Mexico. The global positioning system (GPS) coordinates for the release point are 33.05048, -103.715914. The property surface rights are owned by the State of New Mexico. Land use in the Site vicinity is primarily oil and gas production activity and cattle grazing. The location of the Site is depicted on Figure 1.

# 2.0 Background

Pending Cambrian plans to plug and abandon (P&A) the Chem State #1 well, CE conducted a site inspection on October 25, 2023. Hydrocarbon staining was observed at the wellhead and along a flowline to the south of the well.

On December 14, 2023, Octane received a letter from the New Mexico State Land Office (SLO) Environmental Compliance Office (ECO) that provided results of a historical aerial review, and notification of a suspected release at a flowline located to the south of the wellhead.

On March 12, 2024, CE conducted an initial soil investigation at the suspect area south of the wellhead and provided a Notice of Violation (NOV) to the New Mexico Oil Conservation Division (NMOCD) on September 17, 2024. On September 18, 2024, an Initial C-141 was provided to the NMOCD for Incident #nAPP2426159828.

Soil remediation and P&A activities have been conducted, and this Remediation Summary and Closure Report is being submitted in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC) for this historical release.

### 3.0 NMOCD Closure Criteria

Cleanup standards for produced water spills are provided in 19.15.29 NMAC. The cleanup standards (described in the rule as "Closure Criteria") are based primarily on depth to groundwater but are also based on other criteria. Three different Closure Criteria are provided in the rule. The most stringent apply to sites where groundwater is found within 50 feet of the ground surface or if the release occurred within one of the following areas:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Within 1,000 feet of any fresh water well or spring.



- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
- Within 300 feet of a wetland.
- Within the area overlying a subsurface mine.
- Within an unstable area such as a karst formation.
- Within a 100-year floodplain.

CE reviewed available information to determine the Closure Criteria for the Site. The findings of this evaluation are summarized below.

### 3.1 Groundwater Evaluation

A review of the New Mexico Office of the State Engineer (NMOSE) records indicated there are no water wells located within 0.5 mile of the Site that provide data less than 25 years old. Based on the absence of water well data, the most stringent NMOCD Closure Criteria will apply to the Site.

# 3.2 Surface Features and Other Development

CE reviewed recent aerial photographs, topographic maps, the NMOSE Point of Discharge (POD) GIS website, and information available from the Lea County, New Mexico Central Appraisal District website. As shown on Figure 1, the Site is **not** located:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
  - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the topographic map (Figure 1).
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
  - The topographic map (Figure 1) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
  - The Site Location Map (Figure 1) and information available from the Lea County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution or church located within 300 feet of the Site.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
  - No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed by CE. A freshwater pond is located approximately 4,370 feet west of the Site.
- Within 1,000 feet of any fresh water well or spring.
  - No freshwater wells or springs located within 1,000 feet of the Site appear in any of the records reviewed by CE. Freshwater emergent wetlands are located approximately 4,350 feet west and 4,660 feet southeast of the Site.



- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
  - Based on the property and other records review by CE, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within the area overlying a subsurface mine.
  - Based on the property and other records reviewed by CE, the Site is not located within an area overlying a subsurface mine.

# 3.3 Wetlands, Floodplain, and Karst Geology

A review of the United States Fish and Wildlife Service (USFWS) wetlands map indicated the Site is not located within 300 feet of a wetland; however, freshwater emergent wetlands are located approximately 4,350 feet west and 4,660 feet southeast of the Site, and a freshwater pond is located approximately 4,370 feet west of the Site. The New Mexico Bureau of Land Management (BLM) karst potential map indicates the Site is located within a "low karst potential" area. Finally, review of the Federal Emergency Management Act (FEMA) floodplain map indicates the release at the Site is located outside of a 100-year floodplain. Figures 4, 5, and 6 depict the USFWS map, the FEMA floodplain map, and the karst potential map, respectively.

# 3.4 Closure Criteria Currently Assumed Applicable to the Site

The Closure Criteria applicable to the Site will be based on the estimated depth to groundwater, which dictates the most stringent regulatory guidelines typically associated with groundwater depths of less than fifty (50) feet below ground surface (bgs). A summary of the Closure Criteria is provided in the table below and in Table 1.

# **NMOCD Closure Criteria**

|           |                      | Closure Criteria | a Based on Depth to Grou | undwater (mg/kg) |
|-----------|----------------------|------------------|--------------------------|------------------|
| Consti    | tuent of Concern     | ≤ 50 feet bgs    | 51 feet to 100 feet bgs  | > 100 feet bgs   |
| Chlo      | ride (EPA 300)       | 600              | 10,000                   | 20,000           |
| TPH (EPA  | GRO + DRO + MRO      | 100              | 2,500                    | 2,500            |
| 8015M)    | GRO + DRO            | NA               | 1,000                    | 1,000            |
| Total BTE | ( (EPA 8021 or 8260) | 50               | 50                       | 50               |
| Benzene   | (EPA 8021 or 8260)   | 10               | 10                       | 10               |

Notes: NA = not applicable

bgs = below ground surface mg/kg = milligrams per kilogram GRO = gasoline range organics DRO = diesel range organics MRO = motor oil range organics

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, and total xylenes Green highlighted cells denote applicable Closure Criteria.



### 4.0 Site Assessment/Characterization Results

As per 19.15.29.11 NMAC, a Site Characterization Report will have the components described in Sections 4.1 through 4.5 of this document.

# 4.1 Site Map

As required by 19.15.29.11 NMAC, a scaled diagram showing significant Site infrastructure, sample point locations, and known subsurface features such as utilities is provided as Figure 2.

# 4.2 Depth to Groundwater

As discussed in Section 3.1, the exact depth to groundwater beneath the Site is unknown. During investigation activities, a maximum depth of 2.5 feet bgs was reached, at which groundwater was not encountered.

### 4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 3. No known water wells are located within 0.5 mile of the Site that provide groundwater information more recent than 25 years ago. A review of the USFWS wetlands map indicated freshwater emergent wetlands are located approximately 4,350 feet west and 4,660 feet southeast of the Site, and a freshwater pond is located approximately 4,370 feet west of the Site. There were no other water sources, springs, or other sources of freshwater extraction identified within 0.5-mile of the Site.

# 4.4 Distance to Nearest Significant Watercourse

The horizontal distance to the nearest significant watercourse as defined in Subsection P of 19.15.17.7 NMAC is greater than 0.5-mile from the Site.

# 4.5 Summary of Remediation Activities

On March 12, 2024, soil samples were collected at one location (S-7) using a backhoe. Samples collected at depths of 1' bgs and 2' bgs were placed in laboratory prepared containers, properly labeled, immediately placed on ice, and hand delivered to Eurofins Environment Testing (Eurofins) in Midland, Texas for analysis of total petroleum hydrocarbons (TPH) by EPA Method SW846 8015 Modified, benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX) by EPA Method SW 846 8021B, and chlorides by EPA Method 300.0.

Table 1 provides a summary of the laboratory results. Figure 2 shows the sample locations. The laboratory report and chain of custody documentation are provided in Appendix A. Photographic documentation is provided in Appendix B.

Referring to Table 1, concentrations of BTEX and chlorides were reported below the test method detection limits or Closure Criteria in each sample. Concentrations of TPH were reported above the Closure Criteria in sample S-7 at depths of 1' bgs (394 mg/kg) and 2' bgs (162 mg/kg).



Excavation was conducted until confirmation samples (S-7, and S-32 to S-35) were collected from the bottom and sidewalls of the excavation on September 26, 2024. All confirmation samples were collected pursuant to 19.15.29.12(D) NMAC, and were placed in clean glass sample jars, properly labeled, immediately placed on ice and hand delivered to Eurofins under proper chain-of-custody control for analysis of TPH, BTEX, and chlorides.

Table 1 provides a summary of the laboratory results, and sample locations are provided on Figure 2. The laboratory report and chain-of-custody documentation are provided in Appendix A. Photographic documentation is provided in Appendix B.

Referring to Table 1, concentrations of BTEX and chlorides were reported below the NMOCD Closure Criteria in all confirmation samples. Concentrations of TPH exceeded the Closure Criteria in sidewall samples S-32 (274 mg/kg) and S-34 (309 mg/kg), each five-point composite sample collected from a depth of 0 to 2.5' bgs. Additional excavation was conducted from the north and south sidewalls and final five-point composite confirmation samples were collected on November 4, 2024.

Referring to Table 1, all final concentrations of TPH, BTEX, and chlorides were reported below the NMOCD Closure Criteria. Approximately 40 cubic yards (cy) of excavated soil were hauled to disposal at GM Inc.

Upon NMOCD approval of this Closure Report, the excavation will be backfilled to grade with non-impacted similar material obtained from a nearby pit. Pursuant to 19.15.29.13 NMAC, the impacted surface areas will be restored to pre-release conditions. Surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.

# 4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results

Data reported in Job Numbers 880-49112-1, 880-49103-1, and 880-50851-1 generated by Eurofins in Midland, Texas, was reviewed to ensure that reported analytical results met data quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes are defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided in Appendix A.

# 5.0 Request for Closure

A total of 40 cubic yards of soil was excavated and hauled to disposal at GM Inc. All confirmation samples collected from the bottom and sidewalls of the excavation reported TPH, Benzene, BTEX, and chloride concentrations below the NMOCD Closure Criteria.

Upon NMOCD approval of this Closure Report, the excavation will be backfilled to grade with non-impacted similar material obtained from a nearby pit. Pursuant to 19.15.29.13 NMAC, the impacted surface areas will be restored to pre-release conditions. Surface grading will be performed to near



original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.

On behalf of Cambrian Management Ltd, Octane respectfully requests the closure of Incident #nAPP2426159828.

# 6.0 Distribution

Copy 1: Mike Bratcher

New Mexico Energy, Minerals, and Natural Resources Department

Oil Conservation Division, District 2

811 S. First Street

Artesia, New Mexico 88210

Copy 2: New Mexico State Land Office

**Environmental Compliance Office** 

Via email: eco@nmslo.gov



# **TABLE**

# TABLE 1 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS CAMBRIAN MANAGEMENT, LTD. CHEM STATE #001 INCIDENT #nAPP2426159828 (Flowline to South of Well)

| Sample ID     | Sample<br>Date | Sample<br>Depth | Soil Status | TPH<br>(GRO) | TPH<br>(DRO)                    | TPH<br>(MRO) | Total<br>TPH | Benzene  | Toluene  | Ethylbenzene | Total<br>Xylenes | Total BTEX | Chloride |  |
|---------------|----------------|-----------------|-------------|--------------|---------------------------------|--------------|--------------|----------|----------|--------------|------------------|------------|----------|--|
|               | Date           | Deptii          |             |              | milligrams per kilogram (mg/kg) |              |              |          |          |              |                  |            |          |  |
| NMOCD Close   | ure Criteria   | (Surface to     | 4' bgs)     |              |                                 |              | 100          | 10       | -        | -            | -                | 50         | 600      |  |
|               |                |                 |             |              |                                 |              |              |          |          |              |                  |            |          |  |
|               |                |                 |             |              |                                 |              |              |          |          |              |                  |            |          |  |
| S-7 (1')      | 03/12/24       | 1'              | Excavated   | <49.9        | 394                             | <49.9        | 394          | <0.00200 | 0.00203  | <0.00200     | <0.00399         | <0.00399   | 75.8     |  |
| S-7 (2')      | 03/12/24       | 2'              | Excavated   | <49.8        | 162                             | <49.8        | 162          | <0.00201 | <0.00201 | <0.00201     | <0.00402         | <0.00402   | 92.5     |  |
| S-7 (2.5')    | 09/26/24       | 2.5'            | In Situ     | <49.7        | <49.7                           | <49.7        | <49.7        | <0.00201 | <0.00201 | <0.00201     | <0.00402         | <0.00402   | 27.9     |  |
|               |                |                 |             |              |                                 |              |              |          |          |              |                  |            |          |  |
| S-32 (0-2.5') | 09/26/24       | 0-2.5'          | Excavated   | <50.0        | 274                             | <50.0        | 274          | <0.00199 | <0.00199 | <0.00199     | <0.00398         | <0.00398   | 24.7     |  |
| S-32 (0-2.5') | 11/04/24       | 0-2.5'          | In Situ     | <49.8        | <49.8                           | <49.8        | <49.8        |          |          |              |                  |            | 40.5     |  |
|               |                |                 |             |              |                                 |              |              |          |          |              |                  |            |          |  |
| S-33 (0-2.5') | 09/26/24       | 0-2.5'          | In Situ     | <49.9        | <49.9                           | <49.9        | <49.9        | <0.00200 | <0.00200 | <0.00200     | <0.00399         | <0.00399   | 20.7     |  |
|               |                |                 |             |              |                                 |              |              |          |          |              |                  |            |          |  |
| S-34 (0-2.5') | 09/26/24       | 0-2.5'          | Excavated   | <50.0        | 309                             | <50.0        | 309          | <0.00200 | <0.00200 | <0.00200     | <0.00401         | <0.00401   | 20.1     |  |
| S-34 (0-2.5') | 11/04/24       | 0-2.5'          | In Situ     | <49.8        | <49.8                           | <49.8        | <49.8        |          |          |              |                  |            | 17.4     |  |
|               |                |                 |             |              |                                 |              |              | •        |          |              |                  |            |          |  |
| S-35 (0-2.5') | 09/26/24       | 0-2.5'          | In Situ     | <49.9        | <49.9                           | <49.9        | <49.9        | <0.00199 | <0.00199 | <0.00199     | <0.00398         | <0.00398   | 31.5     |  |
|               |                |                 |             |              |                                 |              |              |          |          |              |                  |            |          |  |

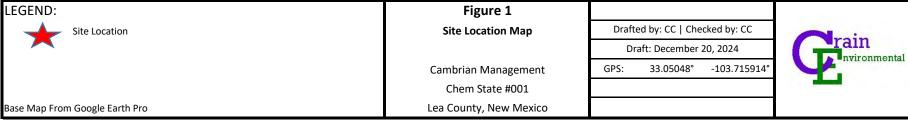
# Notes:

- 1. GRO: Gasoline Range Organics
- 2. DRO: Diesel Range Organics
- 3. MRO: Motor Oil Range Organics
- 4. -: No NMOCD Closure Criteria established.
- 5. bgs: Below Ground Surface
- 6. Bold indicates the COC was above the appropriate laboratory method/sample detection limit.
- 7. < indicates the COC was below the appropriate laboratory method/sample detection limit.
- 8. Bold and yellow highlighting indicates the COC was above the appropriate NMOCD Closure Criteria.
- 9. Green highlighting indicates soil was excavated and disposed.

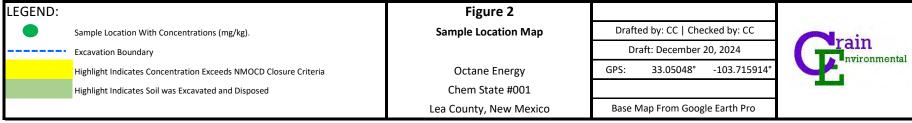


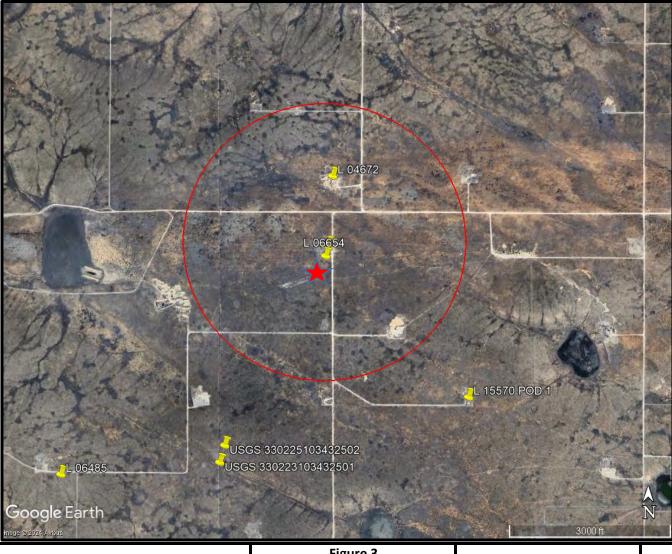
# **FIGURES**













# Figure 3 Wellhead Protection Area Map Cambrian Management Chem State #001

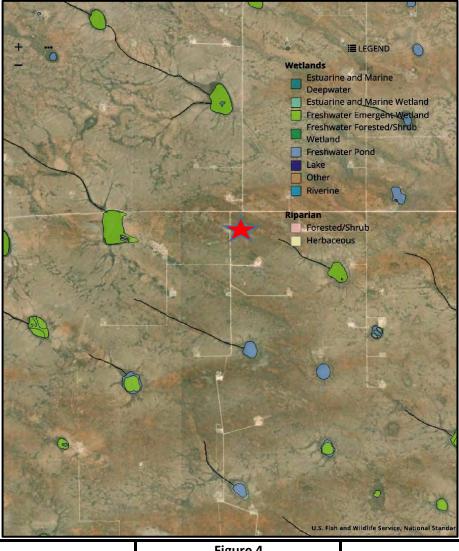
Lea County, New Mexico

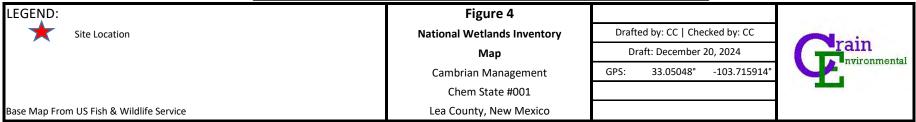
Drafted by: CC | Checked by: CC

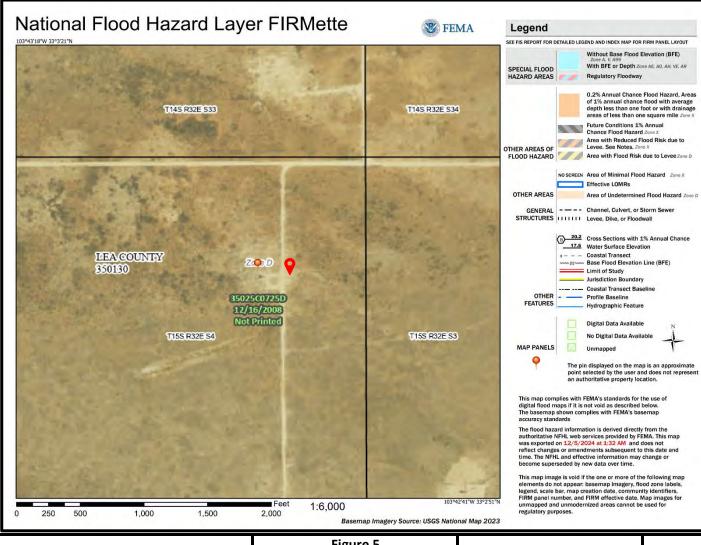
Draft: December 20, 2024

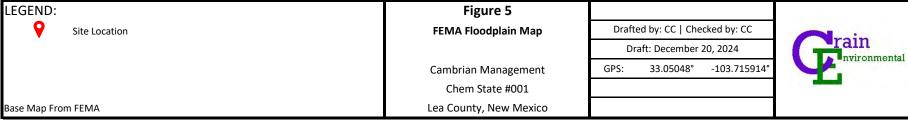
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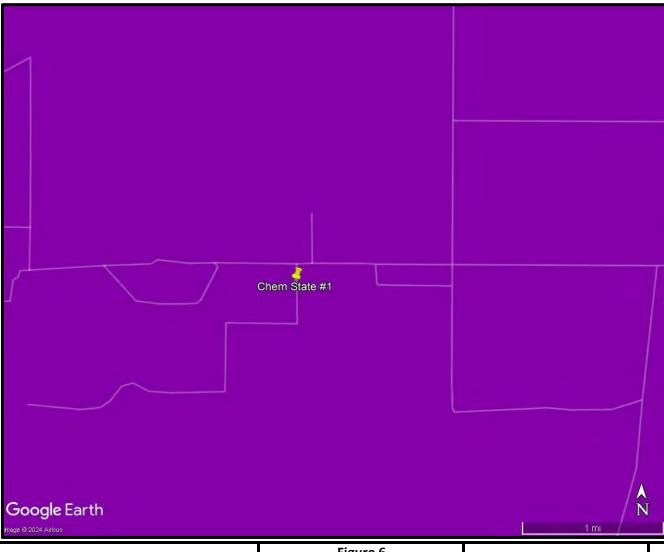


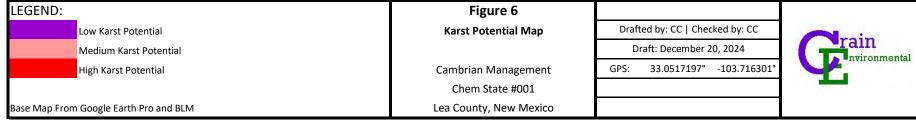














Appendix A: Laboratory Reports and Chain-of-Custody Documentation

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Cindy Crain Crain Environmental 2925 E. 17th St. Odessa, Texas 79761

Generated 10/4/2024 2:45:15 PM

# **JOB DESCRIPTION**

Chem State #1 E FL Lea Co., NM

# **JOB NUMBER**

880-49112-1

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 10/4/2024 2:45:15 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 1

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Client: Crain Environmental Laboratory Job ID: 880-49112-1 Project/Site: Chem State #1 E FL

SDG: Lea Co., NM

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# Definitions/Glossary

Client: Crain Environmental Job ID: 880-49112-1
Project/Site: Chem State #1 E FL SDG: Lea Co., NM

MM

# **Qualifiers**

**GC VOA** 

 Qualifier
 Qualifier Description

 S1+
 Surrogate recovery exceeds control limits, high biased.

 U
 Indicates the analyte was analyzed for but not detected.

# **GC Semi VOA**

 Qualifier
 Qualifier Description

 \*1
 LCS/LCSD RPD exceeds control limits.

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

č

# 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: Crain Environmental Job ID: 880-49112-1 Project: Chem State #1 E FL

**Eurofins Midland** Job ID: 880-49112-1

### Job Narrative 880-49112-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 9/27/2024 1:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C.

### **GC VOA**

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-92120 and analytical batch 880-92039 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-26 (0-1.5') (880-49112-14) and S-31 (0-1.5') (880-49112-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-91951 and analytical batch 880-92039 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-25 (0-1.5') (880-49112-13) and S-30 (0-1.5') (880-49112-18). 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.

# **Diesel Range Organics**

Method 8015MOD\_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-92044/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-92044 and analytical batch 880-92508 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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.

Job ID: 880-49112-1 SDG: Lea Co., NM

Project/Site: Chem State #1 E FL

Date Received: 09/27/24 13:45

Client: Crain Environmental

**Client Sample ID: S-2 (0-1.5')** Lab Sample ID: 880-49112-1 Date Collected: 09/26/24 10:15

Matrix: Solid

Sample Depth: 0-1.5'

| Analyte                     | Result            | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-------------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199          | U         | 0.00199  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 15:02 | 1       |
| Toluene                     | <0.00199          | U         | 0.00199  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 15:02 | 1       |
| Ethylbenzene                | <0.00199          | U         | 0.00199  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 15:02 | 1       |
| m-Xylene & p-Xylene         | <0.00398          | U         | 0.00398  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 15:02 | 1       |
| o-Xylene                    | <0.00199          | U         | 0.00199  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 15:02 | 1       |
| Xylenes, Total              | <0.00398          | U         | 0.00398  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 15:02 | 1       |
| Surrogate                   | %Recovery         | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 95                |           | 70 - 130 |     |       |   | 09/30/24 10:59 | 10/01/24 15:02 | 1       |
| 1,4-Difluorobenzene (Surr)  | 87                |           | 70 - 130 |     |       |   | 09/30/24 10:59 | 10/01/24 15:02 | 1       |
| Method: TAL SOP Total BTEX  | - Total BTEX Cald | culation  |          |     |       |   |                |                |         |
| Analyte                     | Result            | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total BTEX                  | <0.00398          | U         | 0.00398  |     | mg/Kg |   |                | 10/01/24 15:02 | 1       |

| Analyte   | •   | Qualifier | RL   | MDL U | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|-----|-----------|------|-------|-------|---|----------|----------------|---------|
| Total TPH | 233 | <u> </u>  | 49.8 | r     | mg/Kg |   | <u> </u> | 10/03/24 18:34 | 1       |
| Г., .,    | _   |           |      |       |       |   |          |                |         |

| Analyte                                 | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.8     | U         | 49.8     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 18:34 | 1       |
| Diesel Range Organics (Over C10-C28)    | 233       | *1        | 49.8     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 18:34 | 1       |
| Oil Range Organics (Over C28-C36)       | <49.8     | U         | 49.8     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 18:34 | 1       |
| Surrogate                               | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                          | 114       |           | 70 - 130 |     |       |   | 09/29/24 20:42 | 10/03/24 18:34 | 1       |

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble |          |        |           |      |     |       |   |          |                |         |
|--|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
|  | Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|  | Chloride | 71.0   |           | 4.96 |     | mg/Kg |   |          | 10/02/24 19:19 | 1       |

70 - 130

102

Client Sample ID: S-3 (2.5') Lab Sample ID: 880-49112-2 Date Collected: 09/26/24 10:20 **Matrix: Solid** 

Date Received: 09/27/24 13:45

Sample Depth: 1.5'

o-Terphenyl

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 16:26 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 16:26 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 16:26 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 16:26 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 16:26 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 16:26 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 95        |           | 70 - 130 |     |       |   | 09/30/24 10:59 | 10/01/24 16:26 |         |

**Eurofins Midland** 

09/29/24 20:42 10/03/24 18:34

Job ID: 880-49112-1

SDG: Lea Co., NM

Client Sample ID: S-3 (2.5')

Project/Site: Chem State #1 E FL

Client: Crain Environmental

Date Collected: 09/26/24 10:20 Date Received: 09/27/24 13:45

Sample Depth: 1.5'

Lab Sample ID: 880-49112-2

Matrix: Solid

Lab Sample ID: 880-49112-3

**Matrix: Solid** 

| Method: SW846 8021B     | - Volatile Organio | Compounds | (GC)       | (Continued)  |
|-------------------------|--------------------|-----------|------------|--------------|
| Mothiod. Offo-to cor ib | Tolutile Organie   | Compounds | ( <b>–</b> | (Gontiniaca) |

| Surrogate                  | %Recovery Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|---------------------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 88                  | 70 - 130 | 09/30/24 10:59 | 10/01/24 16:26 | 1       |

# **Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL Unit | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|----------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg    |   |          | 10/01/24 16:26 | 1       |

| Method: SW846 8015 NM - Diesel Range Organics (DR |                     |
|---|---------------------|
|   | Organica (DDO) (CC) |
|   | Ordanics (DRO) (GC) |

| Analyte   | Result | Qualifier | RL   | MDL Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|----------|---|----------|----------------|---------|
| Total TPH | <49.7  | U         | 49 7 | ma/Ka    |   | ·        | 10/03/24 18:51 | 1       |

| Method: SW846 8015B NM - Diesel Range Organics        | (DRO)  | (GC)      | ١ |
|---|--------|-----------|---|
| motified. Offerto College Ithin Biodol Rungo Organico | (5.10) | , , , , , | , |

|   |           | (,        | ( /    |     |       |   |                |                |         |
|---|-----------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Analyte                                 | Result    | Qualifier | RL     | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.7     | U         | 49.7   |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 18:51 | 1       |
| Diesel Range Organics (Over C10-C28)    | <49.7     | U *1      | 49.7   |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 18:51 | 1       |
| Oil Range Organics (Over C28-C36)       | <49.7     | U         | 49.7   |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 18:51 | 1       |
| Surrogate                               | %Recovery | Qualifier | Limits |     |       |   | Prepared       | Analyzed       | Dil Fac |

| Surrogate      | %Recovery Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|---------------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 124                 | 70 - 130 | 09/29/24 20:42 | 10/03/24 18:51 | 1       |
| o-Terphenyl    | 111                 | 70 - 130 | 09/29/24 20:42 | 10/03/24 18:51 | 1       |

# Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 15.5   |           | 5.04 |     | mg/Kg |   |          | 10/02/24 19:25 | 1       |

Client Sample ID: S-4 (2.5')

Date Collected: 09/26/24 10:25

Date Received: 09/27/24 13:45

Sample Depth: 1.5'

| Mothodi CIMO46 0004D | Valatila Organia Compounda (CC) |
|----------------------|---------------------------------|

| Welliou. Syvo46 6021B - Volat | ne Organic Comp | iounus (GC | )        |     |       |   |                |                |         |
|-------------------------------|-----------------|------------|----------|-----|-------|---|----------------|----------------|---------|
| Analyte                       | Result          | Qualifier  | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Benzene                       | <0.00201        | U          | 0.00201  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 16:47 | 1       |
| Toluene                       | <0.00201        | U          | 0.00201  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 16:47 | 1       |
| Ethylbenzene                  | <0.00201        | U          | 0.00201  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 16:47 | 1       |
| m-Xylene & p-Xylene           | <0.00402        | U          | 0.00402  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 16:47 | 1       |
| o-Xylene                      | <0.00201        | U          | 0.00201  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 16:47 | 1       |
| Xylenes, Total                | <0.00402        | U          | 0.00402  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 16:47 | 1       |
| Surrogate                     | %Recovery       | Qualifier  | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)   | 93              |            | 70 - 130 |     |       |   | 09/30/24 10:59 | 10/01/24 16:47 | 1       |
| 1.4-Difluorobenzene (Surr)    | 89              |            | 70 - 130 |     |       |   | 09/30/24 10:59 | 10/01/24 16:47 | 1       |

| Mothod: TAI | SOP Total RTFY | - Total RTFY | Calculation |
|-------------|----------------|--------------|-------------|

| Analyte    | Result    | Qualifier | RL      | MDL Unit | D  | Prepared | Analyzed       | Dil Fac |
|------------|-----------|-----------|---------|----------|----|----------|----------------|---------|
| Total BTEX | < 0.00402 | U         | 0.00402 | ma/ł     | (a |          | 10/01/24 16:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|----------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg    |   | -        | 10/03/24 19:08 | 1       |

Job ID: 880-49112-1 SDG: Lea Co., NM

Client: Crain Environmental Project/Site: Chem State #1 E FL

Lab Sample ID: 880-49112-3

Matrix: Solid

Client Sample ID: S-4 (2.5') Date Collected: 09/26/24 10:25 Date Received: 09/27/24 13:45

Sample Depth: 1.5'

| Analyte                           | Result       | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|--------------|-------------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics           | <50.0        | U           | 50.0     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 19:08 | 1       |
| (GRO)-C6-C10                      |              |             |          |     |       |   |                |                |         |
| Diesel Range Organics (Over       | <50.0        | U *1        | 50.0     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 19:08 | 1       |
| C10-C28)                          |              |             |          |     |       |   |                |                |         |
| Oil Range Organics (Over C28-C36) | <50.0        | U           | 50.0     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 19:08 | 1       |
| Surrogate                         | %Recovery    | Qualifier   | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 113          |             | 70 - 130 |     |       |   | 09/29/24 20:42 | 10/03/24 19:08 | 1       |
| o-Terphenyl                       | 102          |             | 70 - 130 |     |       |   | 09/29/24 20:42 | 10/03/24 19:08 | 1       |
| Method: EPA 300.0 - Anions, Ion   | Chromatograp | hy - Solubl | e        |     |       |   |                |                |         |
| Analyte                           | Result       | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| -                                 |              |             | 4.97     |     | mg/Kg |   |                | 10/02/24 19:32 |         |

**Client Sample ID: S-16 (0-1.5')** Lab Sample ID: 880-49112-4 **Matrix: Solid** 

Date Collected: 09/26/24 10:30 Date Received: 09/27/24 13:45

Sample Depth: 0-1.5'

| Analyte   | Result                   | Qualifier               | RL                | MDL | Unit          | D        | Prepared   | Analyzed   | Dil Fac |
|---|--------------------------|-------------------------|-------------------|-----|---------------|----------|--|--|---------|
| Benzene   | <0.00202                 | U                       | 0.00202           |     | mg/Kg         |          | 09/30/24 10:59                                     | 10/01/24 17:08                                     | 1       |
| Toluene   | <0.00202                 | U                       | 0.00202           |     | mg/Kg         |          | 09/30/24 10:59                                     | 10/01/24 17:08                                     | 1       |
| Ethylbenzene  | <0.00202                 | U                       | 0.00202           |     | mg/Kg         |          | 09/30/24 10:59                                     | 10/01/24 17:08                                     | 1       |
| m-Xylene & p-Xylene   | <0.00404                 | U                       | 0.00404           |     | mg/Kg         |          | 09/30/24 10:59                                     | 10/01/24 17:08                                     | 1       |
| o-Xylene  | <0.00202                 | U                       | 0.00202           |     | mg/Kg         |          | 09/30/24 10:59                                     | 10/01/24 17:08                                     | 1       |
| Xylenes, Total  | <0.00404                 | U                       | 0.00404           |     | mg/Kg         |          | 09/30/24 10:59                                     | 10/01/24 17:08                                     | 1       |
| Surrogate   | %Recovery                | Qualifier               | Limits            |     |               |          | Prepared   | Analyzed   | Dil Fac |
| 4-Bromofluorobenzene (Surr)   | 88                       |                         | 70 - 130          |     |               |          | 09/30/24 10:59                                     | 10/01/24 17:08                                     | 1       |
| 1,4-Difluorobenzene (Surr)  | 94                       |                         | 70 - 130          |     |               |          | 09/30/24 10:59                                     | 10/01/24 17:08                                     | 1       |
| Method: TAL SOP Total BTEX - 1  | otal BTEX Cald           | culation                |                   |     |               |          |  |  |         |
| Analyte   | Result                   | Qualifier               | RL                | MDL | Unit          | D        | Prepared   | Analyzed   | Dil Fac |
| Total BTEX  | <0.00404                 | U                       | 0.00404           |     | mg/Kg         |          |  | 10/01/24 17:08                                     | 1       |
| Method: SW846 8015 NM - Diese   | l Range Organ            | ics (DRO) (             | GC)               |     |               |          |  |  |         |
| Analyte   | Result                   | Qualifier               | RL                | MDL | Unit          | D        | Prepared   | Analyzed   | Dil Fac |
| Total TPH   | <50.0                    | U                       | 50.0              |     | mg/Kg         |          |  | 10/03/24 19:25                                     | 1       |
| _   |                          |                         |                   |     |               |          |  |  |         |
| Method: SW846 8015B NM - Dies   | sel Range Orga           | nics (DRO)              | (GC)              |     |               |          |  |  |         |
|   |                          | nics (DRO)<br>Qualifier | (GC)              | MDL | Unit          | D        | Prepared   | Analyzed   | Dil Fac |
|   |                          | Qualifier               | • •               | MDL | Unit<br>mg/Kg | <u>D</u> | Prepared 09/29/24 20:42                            | Analyzed 10/03/24 19:25                            | Dil Fac |
| Analyte Gasoline Range Organics   | Result                   | Qualifier<br>U          | RL                | MDL |               | <u>D</u> |  |  | 1       |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)                                   |                          | Qualifier<br>U<br>U *1  | RL 50.0           | MDL | mg/Kg         | <u>D</u> | 09/29/24 20:42                                     | 10/03/24 19:25                                     |         |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) | Result <50.0 <50.0       | Qualifier U U*1         | FL 50.0           | MDL | mg/Kg         | <u>D</u> | 09/29/24 20:42                                     | 10/03/24 19:25<br>10/03/24 19:25                   | 1 1     |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over  | Result <50.0 <50.0 <50.0 | Qualifier U U*1         | FL 50.0 50.0 50.0 | MDL | mg/Kg         | <u>D</u> | 09/29/24 20:42<br>09/29/24 20:42<br>09/29/24 20:42 | 10/03/24 19:25<br>10/03/24 19:25<br>10/03/24 19:25 | 1       |

Job ID: 880-49112-1

SDG: Lea Co., NM

**Client Sample ID: S-16 (0-1.5')** 

Date Collected: 09/26/24 10:30 Date Received: 09/27/24 13:45

Project/Site: Chem State #1 E FL

Client: Crain Environmental

Sample Depth: 0-1.5'

Lab Sample ID: 880-49112-4

Matrix: Solid

|  | Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|--|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
|  | Chloride | 42.4   |           | 4.99 |     | mg/Kg |   |          | 10/02/24 19:38 | 1       |

**Client Sample ID: S-17 (0-1.5')** Lab Sample ID: 880-49112-5 **Matrix: Solid** 

Date Collected: 09/26/24 10:35 Date Received: 09/27/24 13:45

Sample Depth: 0-1.5'

| Analyte  | Result                                    | Qualifier                                 | RL                          | MDL | Unit                     | D        | Prepared                               | Analyzed   | Dil Fac   |
|--|---|---|-----------------------------|-----|--------------------------|----------|--|--|-----------|
| Benzene  | <0.00199                                  | U   | 0.00199                     |     | mg/Kg                    |          | 09/30/24 10:59                         | 10/01/24 17:28   | 1         |
| Toluene  | < 0.00199                                 | U   | 0.00199                     |     | mg/Kg                    |          | 09/30/24 10:59                         | 10/01/24 17:28   | 1         |
| Ethylbenzene   | < 0.00199                                 | U   | 0.00199                     |     | mg/Kg                    |          | 09/30/24 10:59                         | 10/01/24 17:28   | 1         |
| m-Xylene & p-Xylene  | <0.00398                                  | U   | 0.00398                     |     | mg/Kg                    |          | 09/30/24 10:59                         | 10/01/24 17:28   | 1         |
| o-Xylene   | < 0.00199                                 | U   | 0.00199                     |     | mg/Kg                    |          | 09/30/24 10:59                         | 10/01/24 17:28   | 1         |
| Xylenes, Total   | <0.00398                                  | U   | 0.00398                     |     | mg/Kg                    |          | 09/30/24 10:59                         | 10/01/24 17:28   | 1         |
| Surrogate  | %Recovery                                 | Qualifier                                 | Limits                      |     |                          |          | Prepared                               | Analyzed   | Dil Fac   |
| 4-Bromofluorobenzene (Surr)  | 88  |   | 70 - 130                    |     |                          |          | 09/30/24 10:59                         | 10/01/24 17:28   | 1         |
| 1,4-Difluorobenzene (Surr)   | 95  |   | 70 - 130                    |     |                          |          | 09/30/24 10:59                         | 10/01/24 17:28   | 1         |
| -<br>-   |   |   |                             |     |                          |          |  |  |           |
| Method: SW846 8015 NM - Diese  | •   | , , ,                                     | •                           |     |                          |          |  |  |           |
| Analyte  | Result                                    | Qualifier                                 | RL                          | MDL | Unit                     | <u>D</u> | Prepared                               | Analyzed   | Dil Fac   |
| Analyte Total TPH  |   | Qualifier U                               | RL 49.9                     | MDL | Unit<br>mg/Kg            | <u>D</u> | Prepared                               | Analyzed 10/03/24 19:41                                | Dil Fac   |
| Analyte Total TPH  Method: SW846 8015B NM - Dies   | Result <49.9                              | Qualifier U                               | RL 49.9 (GC)                |     |                          | D_       | <u> </u>                               | 10/03/24 19:41   | 1         |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte   | Result <49.9  sel Range Orga Result       | Qualifier Unics (DRO) Qualifier           | RL 49.9 (GC)                |     | mg/Kg                    |          | Prepared                               | 10/03/24 19:41  Analyzed                               |           |
| Analyte Total TPH  Method: SW846 8015B NM - Dies   | Result <49.9                              | Qualifier Unics (DRO) Qualifier           | RL 49.9 (GC)                |     | mg/Kg                    |          | <u> </u>                               | 10/03/24 19:41   | 1         |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics   | Result <49.9  sel Range Orga Result       | Qualifier U  nics (DRO) Qualifier U       | RL 49.9 (GC)                |     | mg/Kg                    |          | Prepared                               | 10/03/24 19:41  Analyzed                               | 1         |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10                                      | Result <49.9  Sel Range Orga Result <49.9 | Qualifier U  nics (DRO) Qualifier U       | (GC) RL 49.9                |     | mg/Kg  Unit mg/Kg        |          | Prepared 09/29/24 20:42                | 10/03/24 19:41  Analyzed  10/03/24 19:41               | Dil Fac   |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over          | Result <49.9  Sel Range Orga Result <49.9 | Qualifier U  nics (DRO) Qualifier U  U *1 | (GC) RL 49.9                |     | mg/Kg  Unit mg/Kg        |          | Prepared 09/29/24 20:42                | 10/03/24 19:41  Analyzed  10/03/24 19:41               | Dil Fac   |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result                                    | Qualifier U  nics (DRO) Qualifier U  U *1 | RL 49.9  (GC) RL 49.9  49.9 |     | mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 09/29/24 20:42 09/29/24 20:42 | 10/03/24 19:41  Analyzed 10/03/24 19:41 10/03/24 19:41 | 1 Dil Fac |

70 - 130

RL

4.99

MDL Unit

mg/Kg

104

22.0

Result Qualifier

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

**Eurofins Midland** 

09/29/24 20:42

Prepared

D

10/03/24 19:41

Analyzed

10/02/24 19:44

Dil Fac

o-Terphenyl

Analyte

Chloride

Matrix: Solid

Lab Sample ID: 880-49112-6

Job ID: 880-49112-1

Client: Crain Environmental Project/Site: Chem State #1 E FL SDG: Lea Co., NM

Date Collected: 09/26/24 10:40 Date Received: 09/27/24 13:45

Client Sample ID: S-18 (1.5')

Sample Depth: 1.5'

| Analyte                                 | Result          | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---|-----------------|-------------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                                 | <0.00200        | U           | 0.00200  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 17:49 | 1       |
| Toluene                                 | <0.00200        | U           | 0.00200  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 17:49 | 1       |
| Ethylbenzene                            | <0.00200        | U           | 0.00200  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 17:49 | 1       |
| m-Xylene & p-Xylene                     | <0.00400        | U           | 0.00400  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 17:49 | 1       |
| o-Xylene                                | <0.00200        | U           | 0.00200  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 17:49 | 1       |
| Xylenes, Total                          | <0.00400        | U           | 0.00400  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 17:49 | 1       |
| Surrogate                               | %Recovery       | Qualifier   | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)             | 91              |             | 70 - 130 |     |       |   | 09/30/24 10:59 | 10/01/24 17:49 | 1       |
| 1,4-Difluorobenzene (Surr)              | 97              |             | 70 - 130 |     |       |   | 09/30/24 10:59 | 10/01/24 17:49 | 1       |
| -<br>Method: TAL SOP Total BTEX - 1     | Total BTEX Cald | culation    |          |     |       |   |                |                |         |
| Analyte                                 | Result          | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total BTEX                              | <0.00400        | U           | 0.00400  |     | mg/Kg |   |                | 10/01/24 17:49 | 1       |
| -<br>Method: SW846 8015 NM - Diese      | el Range Organ  | ics (DRO) ( | GC)      |     |       |   |                |                |         |
| Analyte                                 |                 | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                               | 186             |             | 49.7     |     | mg/Kg |   |                | 10/03/24 19:58 | 1       |
| -<br>Method: SW846 8015B NM - Die:      | sel Range Orga  | nics (DRO)  | (GC)     |     |       |   |                |                |         |
| Analyte                                 | Result          | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.7           | U           | 49.7     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 19:58 | 1       |
| Diesel Range Organics (Over C10-C28)    | 186             | *1          | 49.7     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 19:58 | 1       |
| Oil Range Organics (Over C28-C36)       | <49.7           | U           | 49.7     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 19:58 | 1       |
| Surrogate                               | %Recovery       | Qualifier   | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                          | 108             |             | 70 - 130 |     |       |   | 09/29/24 20:42 | 10/03/24 19:58 | 1       |
| o-Terphenyl                             | 99              |             | 70 - 130 |     |       |   | 09/29/24 20:42 | 10/03/24 19:58 | 1       |
| Method: EPA 300.0 - Anions, Ion         | Chromatogran    | hy - Solubl | e        |     |       |   |                |                |         |
|   |                 |             |          |     |       |   |                |                |         |

**Client Sample ID: S-19 (0-1.5')** 

Date Collected: 09/26/24 10:45 Date Received: 09/27/24 13:45

Sample Depth: 0-1.5'

Chloride

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 18:09 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 18:09 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 18:09 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 18:09 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 18:09 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 18:09 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 92        |           | 70 - 130 |     |       |   | 09/30/24 10:59 | 10/01/24 18:09 |         |

4.96

12.9

mg/Kg

**Eurofins Midland** 

10/02/24 19:51

Matrix: Solid

Lab Sample ID: 880-49112-7

Client: Crain Environmental Project/Site: Chem State #1 E FL

Job ID: 880-49112-1

SDG: Lea Co., NM

**Client Sample ID: S-19 (0-1.5')** Date Collected: 09/26/24 10:45

Lab Sample ID: 880-49112-7

Lab Sample ID: 880-49112-8

**Matrix: Solid** 

Date Received: 09/27/24 13:45

Matrix: Solid

Sample Depth: 0-1.5'

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

| Surrogate                  | %Recovery Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|---------------------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 84                  | 70 - 130 | 09/30/24 10:59 | 10/01/24 18:09 | 1       |

# **Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result    | Qualifier | RL      | MDL Unit | D | Prepared | Analyzed       | Dil Fac |
|------------|-----------|-----------|---------|----------|---|----------|----------------|---------|
| Total BTEX | < 0.00402 | U         | 0.00402 | mg/Kg    |   | _        | 10/01/24 18:09 | 1       |

| Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) |
|--|
| Wethod: 5W646 6U15 NW - Diesel Rande Ordanics (DRO) (GC) |
|  |

| Analyte   | Result Qualifier | RL   | MDL Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|------------------|------|----------|---|----------|----------------|---------|
| Total TPH | <49.8 U          | 49.8 | ma/Ka    |   |          | 10/03/24 20:14 | 1       |

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

| Analyte                                 | Result    | Qualifier | RL     | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---|-----------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.8     | U         | 49.8   |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 20:14 | 1       |
| Diesel Range Organics (Over C10-C28)    | <49.8     | U *1      | 49.8   |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 20:14 | 1       |
| Oil Range Organics (Over C28-C36)       | <49.8     | U         | 49.8   |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 20:14 | 1       |
| Surrogate                               | %Recovery | Qualifier | Limits |     |       |   | Prepared       | Analyzed       | Dil Fac |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 106       |           | 70 - 130 | 09/29/24 20:42 | 10/03/24 20:14 | 1       |
| o-Terphenyl    | 97        |           | 70 - 130 | 09/29/24 20:42 | 10/03/24 20:14 | 1       |

# Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | 1 | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|---|----------|----------------|---------|
| Chloride | 39.9   |           | 5.01 |     | mg/Kg |   | _ |          | 10/02/24 19:57 | 1       |

Client Sample ID: S-20 (0-1.5')

Date Collected: 09/26/24 10:50

Date Received: 09/27/24 13:45 Sample Depth: 0-1.5'

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

| Organic Comp | ounus (GC)  | ,                  |          |  |   |   |  |   |
|--------------|---|--------------------|----------|--|---|---|--|---|
| Result       | Qualifier   | RL                 | MDL      | Unit   | D   | Prepared  | Analyzed   | Dil Fac   |
| <0.00199     | U   | 0.00199            |          | mg/Kg  |   | 09/30/24 10:59  | 10/01/24 18:30   | 1   |
| <0.00199     | U   | 0.00199            |          | mg/Kg  |   | 09/30/24 10:59  | 10/01/24 18:30   | 1   |
| <0.00199     | U   | 0.00199            |          | mg/Kg  |   | 09/30/24 10:59  | 10/01/24 18:30   | 1   |
| <0.00398     | U   | 0.00398            |          | mg/Kg  |   | 09/30/24 10:59  | 10/01/24 18:30   | 1   |
| <0.00199     | U   | 0.00199            |          | mg/Kg  |   | 09/30/24 10:59  | 10/01/24 18:30   | 1   |
| <0.00398     | U   | 0.00398            |          | mg/Kg  |   | 09/30/24 10:59  | 10/01/24 18:30   | 1   |
| %Recovery    | Qualifier   | Limits             |          |  |   | Prepared  | Analyzed   | Dil Fac   |
| 87           |   | 70 - 130           |          |  |   | 09/30/24 10:59  | 10/01/24 18:30   | 1   |
|              | Result   <0.00199   <0.00199   <0.00199   <0.00398   <0.00398   <0.00398   <%Recovery | Result   Qualifier | <0.00199 | Result         Qualifier         RL         MDL           <0.00199 | Result         Qualifier         RL         MDL         Unit           <0.00199 | Result         Qualifier         RL         MDL         Unit         D           <0.00199 | Result         Qualifier         RL         MDL         Unit         D         Prepared           <0.00199 | Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           <0.00199 |

| Surrogate                   | %Recovery Q | ualitier Limits | Prepared       | Anaiyzea       | DII Fac |
|-----------------------------|-------------|-----------------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 87          | 70 - 130        | 09/30/24 10:59 | 10/01/24 18:30 | 1       |
| 1,4-Difluorobenzene (Surr)  | 72          | 70 - 130        | 09/30/24 10:59 | 10/01/24 18:30 | 1       |

# **Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result    | Qualifier | RL      | MDL Unit | D | Prepared | Analyzed       | Dil Fac |
|------------|-----------|-----------|---------|----------|---|----------|----------------|---------|
| Total BTEX | < 0.00398 | U         | 0.00398 | ma/Ka    |   |          | 10/01/24 18:30 | 1       |

| Analyte   | Result | Qualifier | RL   | MDL U | nit   | D | Prepared | Analyzed       | Dil Fac |  |
|-----------|--------|-----------|------|-------|-------|---|----------|----------------|---------|--|
| Total TPH | 68.7   |           | 50.0 | m     | ıg/Kg |   |          | 10/03/24 20:31 | 1       |  |

**Matrix: Solid** 

Lab Sample ID: 880-49112-8

10/03/24 20:31

Lab Sample ID: 880-49112-9

**Matrix: Solid** 

Job ID: 880-49112-1 SDG: Lea Co., NM

09/29/24 20:42

Project/Site: Chem State #1 E FL

Client: Crain Environmental

Client Sample ID: S-20 (0-1.5')

Date Collected: 09/26/24 10:50 Date Received: 09/27/24 13:45

Sample Depth: 0-1.5'

C10-C28)

o-Terphenyl

| oumpro zopum o mo                    |   |           |      |     |       |   |                |                |         |  |
|--------------------------------------|---|-----------|------|-----|-------|---|----------------|----------------|---------|--|
|                                      | 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 | <50.0   | U         | 50.0 |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 20:31 | 1       |  |
| Diesel Range Organics (Over          | 68.7  | *1        | 50.0 |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 20:31 | 1       |  |

Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 09/29/24 20:42 10/03/24 20:31 %Recovery Qualifier Limits Analyzed Dil Fac Surrogate Prepared 1-Chlorooctane 70 - 130 09/29/24 20:42 10/03/24 20:31 116

70 - 130

106

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Chloride 7.86 4.99 mg/Kg 10/01/24 23:36 1

Client Sample ID: S-21 (0-1.5')

Date Collected: 09/26/24 10:55 Date Received: 09/27/24 13:45

Occasile Develop 0.4 51

Sample Depth: 0-1.5'

| I N | llethod: SW846 8021B - Volatile Oi | ganic Comp | ounds (GC) | )       |     |       |   |                |                |         |
|-----|------------------------------------|------------|------------|---------|-----|-------|---|----------------|----------------|---------|
| Α   | nalyte                             | Result     | Qualifier  | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| В   | enzene                             | <0.00200   | U          | 0.00200 |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 18:50 | 1       |
| T   | oluene                             | <0.00200   | U          | 0.00200 |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 18:50 | 1       |
| E   | thylbenzene                        | <0.00200   | U          | 0.00200 |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 18:50 | 1       |
| m   | n-Xylene & p-Xylene                | <0.00399   | U          | 0.00399 |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 18:50 | 1       |
| 0   | -Xylene                            | <0.00200   | U          | 0.00200 |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 18:50 | 1       |
| Х   | ylenes, Total                      | < 0.00399  | U          | 0.00399 |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 18:50 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 90        |           | 70 - 130 | 09/30/24 10:59 | 10/01/24 18:50 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 | 09/30/24 10:59 | 10/01/24 18:50 | 1       |

Method: TAL SOP Total BTEX - Total BTEX CalculationAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacTotal BTEX<0.00399</td>U0.00399mg/Kg10/01/24 18:501

| Method: SW846 8015 NM - Diesel F | Range Organi | ics (DRO) (0 | SC)  |     |       |   |          |                |         |
|----------------------------------|--------------|--------------|------|-----|-------|---|----------|----------------|---------|
| Analyte                          | Result       | Qualifier    | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Total TPH                        | <49.8        | U            | 49.8 |     | mg/Kg |   |          | 10/03/24 21:03 | 1       |

| Analyte                                 | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.8  | U         | 49.8 |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 21:03 | 1       |
| Diesel Range Organics (Over<br>C10-C28) | <49.8  | U *1      | 49.8 |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 21:03 | 1       |
| Oil Range Organics (Over C28-C36)       | <49.8  | U         | 49.8 |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 21:03 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 111       |           | 70 - 130 | 09/29/24 20:42 | 10/03/24 21:03 | 1       |
| o-Terphenyl    | 102       |           | 70 - 130 | 09/29/24 20:42 | 10/03/24 21:03 | 1       |

**Eurofins Midland** 

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Job ID: 880-49112-1

SDG: Lea Co., NM

Project/Site: Chem State #1 E FL

Client: Crain Environmental

**Client Sample ID: S-21 (0-1.5')** Date Collected: 09/26/24 10:55

Lab Sample ID: 880-49112-9

Matrix: Solid

Date Received: 09/27/24 13:45 Sample Depth: 0-1.5'

| Method: EPA 300.0 - Anions, Ion C | hromatograp | hy - Soluble |      |     |       |   |          |                |         |
|-----------------------------------|-------------|--------------|------|-----|-------|---|----------|----------------|---------|
| Analyte                           | Result      | Qualifier    | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride                          | 20.2        |              | 4.96 |     | mg/Kg |   |          | 10/01/24 23:53 | 1       |

**Client Sample ID: S-22 (0-1.5')** Lab Sample ID: 880-49112-10 **Matrix: Solid** 

Date Collected: 09/26/24 11:00 Date Received: 09/27/24 13:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Sample Depth: 0-1.5'

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 19:11 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 19:11 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 19:11 | 1       |
| m-Xylene & p-Xylene         | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 19:11 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 19:11 | 1       |
| Xylenes, Total              | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 19:11 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 95        |           | 70 - 130 |     |       |   | 09/30/24 10:59 | 10/01/24 19:11 | 1       |
| 1,4-Difluorobenzene (Surr)  | 92        |           | 70 - 130 |     |       |   | 09/30/24 10:59 | 10/01/24 19:11 | 1       |

| Analyte                          | Result      | Qualifier    | RL      | MDL Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------------------|-------------|--------------|---------|----------|---|----------|----------------|---------|
| Total BTEX                       | <0.00401    | U            | 0.00401 | mg/Kg    |   |          | 10/01/24 19:11 | 1       |
| Mark and OWO 40 CO45 NM Discoul  |             | : (DDO) (    | 00)     |          |   |          |                |         |
| Method: SW846 8015 NM - Diesel F | kange Organ | ICS (DRO) (I | GC)     |          |   |          |                |         |

| Analyte                         | Result     | Qualifier    | RL   | MDL Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------|------------|--------------|------|----------|---|----------|----------------|---------|
| Total TPH                       | <49.8      | U            | 49.8 | mg/Kg    |   |          | 10/03/24 21:19 | 1       |
| Method: SW846 8015B NM - Diesel | Range Orga | nics (DRO) ( | 3C)  |          |   |          |                |         |

| Method: SW846 8015B NM - Dies     | el Range Orga | nics (DRO) | (GC)     |     |       |   |                |                |         |
|-----------------------------------|---------------|------------|----------|-----|-------|---|----------------|----------------|---------|
| Analyte                           | Result        | Qualifier  | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics           | <49.8         | U          | 49.8     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 21:19 | 1       |
| (GRO)-C6-C10                      |               |            |          |     |       |   |                |                |         |
| Diesel Range Organics (Over       | <49.8         | U *1       | 49.8     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 21:19 | 1       |
| C10-C28)                          |               |            |          |     |       |   |                |                |         |
| Oil Range Organics (Over C28-C36) | <49.8         | U          | 49.8     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 21:19 | 1       |
| Surrogate                         | %Recovery     | Qualifier  | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 94            |            | 70 - 130 |     |       |   | 09/29/24 20:42 | 10/03/24 21:19 | 1       |
| o-Terphenyl                       | 86            |            | 70 - 130 |     |       |   | 09/29/24 20:42 | 10/03/24 21:19 | 1       |

| Method: EPA 300.0 - Anions, Ion Cl | hromatography | / - Soluble |     |       |   |          |                |         |
|------------------------------------|---------------|-------------|-----|-------|---|----------|----------------|---------|
| Analyte                            | Result Q      | ualifier RL | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride                           | 12.5          | 5.00        |     | mg/Kg |   |          | 10/01/24 23:58 | 1       |

Matrix: Solid

Lab Sample ID: 880-49112-11

Job ID: 880-49112-1

Client: Crain Environmental Project/Site: Chem State #1 E FL SDG: Lea Co., NM

Client Sample ID: S-23 (1.5') Date Collected: 09/26/24 11:05

Date Received: 09/27/24 13:45

Sample Depth: 1.5'

| Analyte                                 | Result         | Qualifier   | RL       | MDL | Unit  | D           | Prepared       | Analyzed       | Dil Fac |
|---|----------------|-------------|----------|-----|-------|-------------|----------------|----------------|---------|
| Benzene                                 | <0.00199       | U           | 0.00199  |     | mg/Kg |             | 09/30/24 10:59 | 10/01/24 19:31 | 1       |
| Toluene                                 | <0.00199       | U           | 0.00199  |     | mg/Kg |             | 09/30/24 10:59 | 10/01/24 19:31 | 1       |
| Ethylbenzene                            | <0.00199       | U           | 0.00199  |     | mg/Kg |             | 09/30/24 10:59 | 10/01/24 19:31 | 1       |
| m-Xylene & p-Xylene                     | <0.00398       | U           | 0.00398  |     | mg/Kg |             | 09/30/24 10:59 | 10/01/24 19:31 | 1       |
| o-Xylene                                | <0.00199       | U           | 0.00199  |     | mg/Kg |             | 09/30/24 10:59 | 10/01/24 19:31 | 1       |
| Xylenes, Total                          | <0.00398       | U           | 0.00398  |     | mg/Kg |             | 09/30/24 10:59 | 10/01/24 19:31 | 1       |
| Surrogate                               | %Recovery      | Qualifier   | Limits   |     |       |             | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)             | 110            |             | 70 - 130 |     |       |             | 09/30/24 10:59 | 10/01/24 19:31 | 1       |
| 1,4-Difluorobenzene (Surr)              | 99             |             | 70 - 130 |     |       |             | 09/30/24 10:59 | 10/01/24 19:31 | 1       |
| Method: TAL SOP Total BTEX - T          | otal BTEX Cald | culation    |          |     |       |             |                |                |         |
| Analyte                                 | Result         | Qualifier   | RL       | MDL | Unit  | D           | Prepared       | Analyzed       | Dil Fac |
| Total BTEX                              | <0.00398       | U           | 0.00398  |     | mg/Kg | <del></del> |                | 10/01/24 19:31 | 1       |
| Method: SW846 8015 NM - Diese           | l Range Organ  | ics (DRO) ( | GC)      |     |       |             |                |                |         |
| Analyte                                 | Result         | Qualifier   | RL       | MDL | Unit  | D           | Prepared       | Analyzed       | Dil Fac |
| Total TPH                               | <49.6          | U           | 49.6     |     | mg/Kg |             |                | 10/03/24 21:35 | 1       |
| Method: SW846 8015B NM - Dies           | sel Range Orga | nics (DRO)  | (GC)     |     |       |             |                |                |         |
| Analyte                                 | Result         | Qualifier   | RL       | MDL | Unit  | D           | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.6          | U           | 49.6     |     | mg/Kg |             | 09/29/24 20:42 | 10/03/24 21:35 | 1       |
| Diesel Range Organics (Over C10-C28)    | <49.6          | U *1        | 49.6     |     | mg/Kg |             | 09/29/24 20:42 | 10/03/24 21:35 | 1       |
| Oil Range Organics (Over C28-C36)       | <49.6          | U           | 49.6     |     | mg/Kg |             | 09/29/24 20:42 | 10/03/24 21:35 | 1       |
| Surrogate                               | %Recovery      | Qualifier   | Limits   |     |       |             | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                          | 108            |             | 70 - 130 |     |       |             | 09/29/24 20:42 | 10/03/24 21:35 | 1       |
|   |                |             |          |     |       |             |                |                |         |

Client Sample ID: S-24 (0-1.5') Lab Sample ID: 880-49112-12

RL

5.00

Result Qualifier

18.6

MDL Unit

mg/Kg

D

Prepared

Analyzed

10/02/24 00:03

Dil Fac

**Matrix: Solid** 

Date Collected: 09/26/24 11:10 Date Received: 09/27/24 13:45

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Sample Depth: 0-1.5'

Analyte

Chloride

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:28 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:28 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:28 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:28 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:28 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:28 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 |     |       |   | 09/30/24 11:16 | 10/01/24 00:28 |         |

Client: Crain Environmental Project/Site: Chem State #1 E FL

Job ID: 880-49112-1

Lab Sample ID: 880-49112-12

Lab Sample ID: 880-49112-13

**Matrix: Solid** 

SDG: Lea Co., NM

Matrix: Solid

**Client Sample ID: S-24 (0-1.5')** 

Date Collected: 09/26/24 11:10 Date Received: 09/27/24 13:45

Sample Depth: 0-1.5'

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

| Surrogate                  | %Recovery Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|---------------------|----------|----------------|----------------|---------|
| 1 4-Difluorobenzene (Surr) | 109                 | 70 - 130 | 09/30/24 11:16 | 10/01/24 00:28 | 1       |

# Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result Qualifier | RL      | MDL Unit | D | Prepared | Analyzed       | Dil Fac |
|------------|------------------|---------|----------|---|----------|----------------|---------|
| Total BTEX | <0.00402 U       | 0.00402 | ma/Ka    |   |          | 10/01/24 00:28 | 1       |

| Method: SW846 8015 NM - Diesel Range Organics (DRO) (0 | н |                             |                 |          |       |    |    |
|--|---|-----------------------------|-----------------|----------|-------|----|----|
|  | ı | Mothod: CIMOAC OOAE NIM     | Discal Bangs    | Organica | (DDO) |    | ١. |
|  | н | MELITOU. SYVO40 OUTS INIVI- | · Diesei Kaliue | Organics | IURUI | uu |    |

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D    | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|------|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 |     | mg/Kg | <br> |          | 10/03/24 21:51 | 1       |

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

|   |           | ,         | • •    |     |       |   |                |                |         |
|---|-----------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Analyte                                 | Result    | Qualifier | RL     | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.8     | U         | 49.8   |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 21:51 | 1       |
| Diesel Range Organics (Over C10-C28)    | <49.8     | U *1      | 49.8   |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 21:51 | 1       |
| Oil Range Organics (Over C28-C36)       | <49.8     | U         | 49.8   |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 21:51 | 1       |
| Surrogate                               | %Recovery | Qualifier | Limits |     |       |   | Prepared       | Analyzed       | Dil Fac |

| Surrogate      | %Recovery Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|---------------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 113                 | 70 - 130 | 09/29/24 20:42 | 10/03/24 21:51 | 1       |
| o-Terphenyl    | 100                 | 70 - 130 | 09/29/24 20:42 | 10/03/24 21:51 | 1       |

# Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 14.6   |           | 5.01 |     | mg/Kg |   |          | 10/02/24 00:09 | 1       |

**Client Sample ID: S-25 (0-1.5')** 

Date Collected: 09/26/24 11:15 Date Received: 09/27/24 13:45

Sample Depth: 0-1.5'

| <br>Mathad. | CIMO 4C | 0024D   | Valatila Ossania   | Compounds (GC)   |
|-------------|---------|---------|--------------------|------------------|
| viernoa:    | SVVA4n  | AUZID . | · voiatile Organic | : Compounds (GC) |

| method. 544540 6021B - Volatile Organic Compounds (CO) |           |           |          |     |       |   |                |                |         |
|--|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Analyte  | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Benzene  | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:49 | 1       |
| Toluene  | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:49 | 1       |
| Ethylbenzene   | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:49 | 1       |
| m-Xylene & p-Xylene                                    | <0.00399  | U         | 0.00399  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:49 | 1       |
| o-Xylene   | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:49 | 1       |
| Xylenes, Total   | <0.00399  | U         | 0.00399  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:49 | 1       |
| Surrogate  | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)                            | 132       | S1+       | 70 - 130 |     |       |   | 09/30/24 11:16 | 10/01/24 00:49 | 1       |
| 1 4-Diffuorobenzene (Surr)                             | 120       |           | 70 130   |     |       |   | 09/30/24 11:16 | 10/01/24 00:49 | 1       |

| Mothod: TAI | SOP Total RTFY | - Total RTFY | Calculation |
|-------------|----------------|--------------|-------------|

| Analyte    | Result    | Qualifier | RL      | MDL U | Jnit  | D | Prepared | Analyzed       | Dil Fac |
|------------|-----------|-----------|---------|-------|-------|---|----------|----------------|---------|
| Total BTEX | < 0.00399 | U         | 0.00399 | n     | na/Ka |   |          | 10/01/24 00:49 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|----------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg    |   |          | 10/03/24 22:07 | 1       |

Job ID: 880-49112-1 SDG: Lea Co., NM

Client: Crain Environmental Project/Site: Chem State #1 E FL

Lab Sample ID: 880-49112-13

10/02/24 00:25

Matrix: Solid

Matrix: Solid

**Client Sample ID: S-25 (0-1.5')** Date Collected: 09/26/24 11:15

Date Received: 09/27/24 13:45

Sample Depth: 0-1.5'

| Analyte                           | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics           | <50.0     | U         | 50.0     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 22:07 | 1       |
| (GRO)-C6-C10                      |           |           |          |     |       |   |                |                |         |
| Diesel Range Organics (Over       | <50.0     | U *1      | 50.0     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 22:07 | 1       |
| C10-C28)                          |           |           |          |     |       |   |                |                |         |
| Oil Range Organics (Over C28-C36) | <50.0     | U         | 50.0     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 22:07 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 115       |           | 70 - 130 |     |       |   | 09/29/24 20:42 | 10/03/24 22:07 | 1       |
| o-Terphenyl                       | 104       |           | 70 - 130 |     |       |   | 09/29/24 20:42 | 10/03/24 22:07 | 1       |

**Client Sample ID: S-26 (0-1.5')** Lab Sample ID: 880-49112-14

4.99

mg/Kg

9.13

Date Collected: 09/26/24 11:20 Date Received: 09/27/24 13:45

Sample Depth: 0-1.5'

Chloride

| Analyte   | Result        | Qualifier   | RL                  | MDL | Unit          | D        | Prepared       | Analyzed                | Dil Fac |
|---|---------------|-------------|---------------------|-----|---------------|----------|----------------|-------------------------|---------|
| Benzene   | <0.00199      | U           | 0.00199             |     | mg/Kg         |          | 09/30/24 11:16 | 10/01/24 01:09          | 1       |
| Toluene   | < 0.00199     | U           | 0.00199             |     | mg/Kg         |          | 09/30/24 11:16 | 10/01/24 01:09          | 1       |
| Ethylbenzene  | < 0.00199     | U           | 0.00199             |     | mg/Kg         |          | 09/30/24 11:16 | 10/01/24 01:09          | 1       |
| m-Xylene & p-Xylene                                     | <0.00398      | U           | 0.00398             |     | mg/Kg         |          | 09/30/24 11:16 | 10/01/24 01:09          | 1       |
| o-Xylene  | < 0.00199     | U           | 0.00199             |     | mg/Kg         |          | 09/30/24 11:16 | 10/01/24 01:09          | 1       |
| Xylenes, Total  | <0.00398      | U           | 0.00398             |     | mg/Kg         |          | 09/30/24 11:16 | 10/01/24 01:09          | 1       |
| Surrogate   | %Recovery     | Qualifier   | Limits              |     |               |          | Prepared       | Analyzed                | Dil Fac |
| 4-Bromofluorobenzene (Surr)                             | 137           | S1+         | 70 - 130            |     |               |          | 09/30/24 11:16 | 10/01/24 01:09          | 1       |
| 1,4-Difluorobenzene (Surr)                              | 114           |             | 70 - 130            |     |               |          | 09/30/24 11:16 | 10/01/24 01:09          | 1       |
| Method: TAL SOP Total BTEX - T<br>Analyte<br>Total BTEX |               | Qualifier   | RL                  | MDL | Unit<br>mg/Kg | <u>D</u> | Prepared       | Analyzed 10/01/24 01:09 | Dil Fac |
| Method: SW846 8015 NM - Diese<br>Analyte                |               | ics (DRO) ( | GC)                 | MDL | Unit          | D        | Prepared       | Analyzed                | Dil Fac |
| Total TPH   | <49.8         | U           | 49.8                |     | mg/Kg         |          | <u> </u>       | 10/03/24 22:23          | 1       |
| Method: SW846 8015B NM - Dies                           | el Range Orga | nics (DRO)  | (GC)                |     |               |          |                |                         |         |
| Analyte   |               | Qualifier   | RL                  | MDL | Unit          | D        | Prepared       | Analyzed                | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10                 | <49.8         | U           | 49.8                |     | mg/Kg         |          | 09/29/24 20:42 | 10/03/24 22:23          | 1       |
| Diesel Range Organics (Over C10-C28)                    | <49.8         | U *1        | 49.8                |     | mg/Kg         |          | 09/29/24 20:42 | 10/03/24 22:23          | 1       |
| Oil Range Organics (Over C28-C36)                       | <49.8         | U           | 49.8                |     | mg/Kg         |          | 09/29/24 20:42 | 10/03/24 22:23          | 1       |
| Surrogate   | %Recovery     | Qualifier   | Limits              |     |               |          | Prepared       | Analyzed                | Dil Fac |
| 1-Chlorooctane  | 109           |             | 70 - 130            |     |               |          | 09/29/24 20:42 | 10/03/24 22:23          | 1       |
| o-Terphenyl   | 98            |             | 70 <sub>-</sub> 130 |     |               |          | 09/29/24 20:42 | 10/03/24 22:23          | 1       |

Job ID: 880-49112-1 SDG: Lea Co., NM

Project/Site: Chem State #1 E FL

Client Sample ID: S-26 (0-1.5')

Lab Sa

Lab Sample ID: 880-49112-14

Date Collected: 09/26/24 11:20 Date Received: 09/27/24 13:45

Client: Crain Environmental

Matrix: Solid

Sample Depth: 0-1.5'

| Method: EPA 300.0 - Anions, Ion Ch | romatograp | hy - Soluble |      |          |   |          |                |         |
|------------------------------------|------------|--------------|------|----------|---|----------|----------------|---------|
| Analyte                            | Result     | Qualifier    | RL   | MDL Unit | D | Prepared | Analyzed       | Dil Fac |
| Chloride                           | <4.96      | U            | 4.96 | mg/Kg    |   |          | 10/02/24 00:31 | 1       |

Client Sample ID: S-27 (0-1.5')

Lab Sample ID: 880-49112-15

Date Collected: 09/26/24 11:25

Matrix: Solid

Date Received: 09/27/24 13:45

Sample Depth: 0-1.5'

| Analyte   | Result  | Qualifier                      | RL  | MDL | Unit                            | D | Prepared   | Analyzed   | Dil Fa  |
|---|---|--------------------------------|---|-----|---------------------------------|---|--|--|---------|
| Benzene   | <0.00201  | U                              | 0.00201   |     | mg/Kg                           |   | 09/30/24 11:16   | 10/01/24 01:30   |         |
| Toluene   | <0.00201  | U                              | 0.00201   |     | mg/Kg                           |   | 09/30/24 11:16   | 10/01/24 01:30   |         |
| Ethylbenzene  | < 0.00201                                       | U                              | 0.00201   |     | mg/Kg                           |   | 09/30/24 11:16   | 10/01/24 01:30   |         |
| m-Xylene & p-Xylene   | <0.00402  | U                              | 0.00402   |     | mg/Kg                           |   | 09/30/24 11:16   | 10/01/24 01:30   |         |
| o-Xylene  | < 0.00201                                       | U                              | 0.00201   |     | mg/Kg                           |   | 09/30/24 11:16   | 10/01/24 01:30   |         |
| Xylenes, Total  | <0.00402  | U                              | 0.00402   |     | mg/Kg                           |   | 09/30/24 11:16   | 10/01/24 01:30   |         |
| Surrogate   | %Recovery                                       | Qualifier                      | Limits  |     |                                 |   | Prepared   | Analyzed   | Dil Fa  |
| 4-Bromofluorobenzene (Surr)   | 127   |                                | 70 - 130  |     |                                 |   | 09/30/24 11:16   | 10/01/24 01:30   |         |
| 1,4-Difluorobenzene (Surr)  | 112   |                                | 70 - 130  |     |                                 |   | 09/30/24 11:16   | 10/01/24 01:30   |         |
| Method: TAL SOP Total BTEX - 1  | Total BTEX Cald                                 | culation                       |   |     |                                 |   |  |  |         |
| Analyte   | Result  | Qualifier                      | RL  | MDL | Unit                            | D | Prepared   | Analyzed   | Dil Fac |
| Total BTEX  | <0.00402  | U                              | 0.00402   |     | mg/Kg                           |   |  | 10/01/24 01:30   | •       |
| Method: SW846 8015 NM - Diese   | el Range Organ                                  | ics (DRO) (                    | GC)   |     |                                 |   |  |  |         |
| Analyte   |   | Qualifier                      | RL  | MDL | Unit                            | D | Prepared   | A I  | D:: F-  |
|   |   |                                | • • • •   |     |                                 |   | Frepareu   | Analyzed   | DII Fa  |
| Total TPH   | <49.9   | U                              | 49.9  |     | mg/Kg                           |   |  | 10/03/24 22:39   | Dil Fac |
| •<br>•  |   |                                | 49.9  |     | mg/Kg                           | = |  |  |         |
| :<br>Method: SW846 8015B NM - Dies  | sel Range Orga                                  |                                | 49.9  | MDL |                                 |   | Prepared   |  |         |
| Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics   | sel Range Orga                                  | nics (DRO)<br>Qualifier        | 49.9 (GC)   |     |                                 |   |  | 10/03/24 22:39   |         |
| Method: SW846 8015B NM - Dies<br>Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over   | sel Range Orga<br>Result                        | nics (DRO)<br>Qualifier        | 49.9 (GC)   |     | Unit                            |   | Prepared   | 10/03/24 22:39  Analyzed   | Dil Fa  |
| Method: SW846 8015B NM - Dies<br>Analyte Gasoline Range Organics<br>(GRO)-C6-C10 Diesel Range Organics (Over<br>C10-C28)  | sel Range Orga<br>Result<br><49.9               | nics (DRO) Qualifier U *1      | (GC) RL 49.9  |     | Unit<br>mg/Kg                   |   | Prepared 09/29/24 20:42  | 10/03/24 22:39  Analyzed  10/03/24 22:39   | Dil Fac |
| Method: SW846 8015B NM - Dies<br>Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over<br>C10-C28) Oil Range Organics (Over C28-C36)                                 | sel Range Orga<br>Result<br><49.9               | nics (DRO) Qualifier U *1      | (GC) RL 49.9 49.9   |     | Unit<br>mg/Kg<br>mg/Kg          |   | Prepared 09/29/24 20:42 09/29/24 20:42   | 10/03/24 22:39  Analyzed  10/03/24 22:39  10/03/24 22:39                                     | Dil Fac |
| Method: SW846 8015B NM - Dies<br>Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over<br>C10-C28) Oil Range Organics (Over C28-C36)                                 | sel Range Orga<br>Result<br><49.9<br><49.9      | nics (DRO) Qualifier U *1      | 49.9  (GC)  RL 49.9  49.9  49.9                           |     | Unit<br>mg/Kg<br>mg/Kg          |   | Prepared 09/29/24 20:42 09/29/24 20:42 09/29/24 20:42                          | Analyzed 10/03/24 22:39 10/03/24 22:39 10/03/24 22:39 10/03/24 22:39                         | Dil Fac |
| Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane             | sel Range Orga Result <49.9 <49.9 <%Recovery    | nics (DRO) Qualifier U *1      | 49.9  (GC)  RL  49.9  49.9  49.9  Limits                  |     | Unit<br>mg/Kg<br>mg/Kg          |   | Prepared 09/29/24 20:42 09/29/24 20:42 09/29/24 20:42 Prepared                 | Analyzed 10/03/24 22:39  Analyzed 10/03/24 22:39 10/03/24 22:39 Analyzed                     | Dil Fa  |
| Method: SW846 8015B NM - Dies<br>Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over<br>C10-C28) Oil Range Organics (Over C28-C36)  Surrogate                      | sel Range Orga           Result           <49.9 | DRO) Qualifier U*1 U Qualifier | 49.9  (GC)  RL 49.9  49.9  49.9  Limits 70 - 130 70 - 130 |     | Unit<br>mg/Kg<br>mg/Kg          |   | Prepared 09/29/24 20:42 09/29/24 20:42 09/29/24 20:42  Prepared 09/29/24 20:42 | Analyzed 10/03/24 22:39 10/03/24 22:39 10/03/24 22:39 10/03/24 22:39 Analyzed 10/03/24 22:39 | Dil Fac |
| Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl | Name  | DRO) Qualifier U*1 U Qualifier | 49.9  (GC)  RL 49.9  49.9  49.9  Limits 70 - 130 70 - 130 |     | Unit<br>mg/Kg<br>mg/Kg<br>mg/Kg |   | Prepared 09/29/24 20:42 09/29/24 20:42 09/29/24 20:42  Prepared 09/29/24 20:42 | Analyzed 10/03/24 22:39 10/03/24 22:39 10/03/24 22:39 10/03/24 22:39 Analyzed 10/03/24 22:39 | Dil Fac |

# **Client Sample Results**

Client: Crain EnvironmentalJob ID: 880-49112-1Project/Site: Chem State #1 E FLSDG: Lea Co., NM

Client Sample ID: S-28 (1.5')

Lab Sample ID: 880-49112-16

Date Collected: 09/26/24 11:30 Matrix: Solid
Date Received: 09/27/24 13:45

Sample Depth: 1.5'

| Analyte                                 | Result          | Qualifier                | RL         | MDL | Unit          | D        | Prepared       | Analyzed                | Dil Fac |
|---|-----------------|--------------------------|------------|-----|---------------|----------|----------------|-------------------------|---------|
| Benzene                                 | <0.00200        | U                        | 0.00200    |     | mg/Kg         |          | 09/30/24 11:16 | 10/01/24 01:50          | 1       |
| Toluene                                 | <0.00200        | U                        | 0.00200    |     | mg/Kg         |          | 09/30/24 11:16 | 10/01/24 01:50          | 1       |
| Ethylbenzene                            | <0.00200        | U                        | 0.00200    |     | mg/Kg         |          | 09/30/24 11:16 | 10/01/24 01:50          | 1       |
| m-Xylene & p-Xylene                     | <0.00399        | U                        | 0.00399    |     | mg/Kg         |          | 09/30/24 11:16 | 10/01/24 01:50          | 1       |
| o-Xylene                                | <0.00200        | U                        | 0.00200    |     | mg/Kg         |          | 09/30/24 11:16 | 10/01/24 01:50          | 1       |
| Xylenes, Total                          | <0.00399        | U                        | 0.00399    |     | mg/Kg         |          | 09/30/24 11:16 | 10/01/24 01:50          | 1       |
| Surrogate                               | %Recovery       | Qualifier                | Limits     |     |               |          | Prepared       | Analyzed                | Dil Fac |
| 4-Bromofluorobenzene (Surr)             | 123             |                          | 70 - 130   |     |               |          | 09/30/24 11:16 | 10/01/24 01:50          | 1       |
| 1,4-Difluorobenzene (Surr)              | 112             |                          | 70 - 130   |     |               |          | 09/30/24 11:16 | 10/01/24 01:50          | 1       |
| Method: TAL SOP Total BTEX - 1          | Total BTEX Cald | culation                 |            |     |               |          |                |                         |         |
| Analyte                                 | Result          | Qualifier                | RL         | MDL | Unit          | D        | Prepared       | Analyzed                | Dil Fac |
| Analyte Total TPH                       |                 | Qualifier                | RL<br>49.8 | MDL | Unit<br>mg/Kg | D        | Prepared       | Analyzed 10/03/24 22:55 | Dil Fac |
| -<br>-                                  |                 |                          |            |     | mg/Kg         |          |                | 10/03/24 22:55          | Į.      |
| Method: SW846 8015B NM - Dies           |                 |                          | (GC)       |     |               |          |                |                         |         |
| Analyte                                 |                 | Qualifier                | RL         | MDL | Unit          | D        | Prepared       | Analyzed                | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.8           | U                        | 49.8       |     | mg/Kg         |          | 09/29/24 20:42 | 10/03/24 22:55          | 1       |
| Diesel Range Organics (Over C10-C28)    | <49.8           | U *1                     | 49.8       |     | mg/Kg         |          | 09/29/24 20:42 | 10/03/24 22:55          | 1       |
| Oil Range Organics (Over C28-C36)       | <49.8           | U                        | 49.8       |     | mg/Kg         |          | 09/29/24 20:42 | 10/03/24 22:55          | 1       |
| Surrogate                               | %Recovery       | Qualifier                | Limits     |     |               |          | Prepared       | Analyzed                | Dil Fac |
| 1-Chlorooctane                          | 109             |                          | 70 - 130   |     |               |          | 09/29/24 20:42 | 10/03/24 22:55          | 1       |
| o-Terphenyl                             | 99              |                          | 70 - 130   |     |               |          | 09/29/24 20:42 | 10/03/24 22:55          | 1       |
|   |                 |                          |            |     |               |          |                |                         |         |
| Method: EPA 300.0 - Anions, Ion         | • •             | •                        |            |     |               |          |                |                         |         |
|   | • •             | hy - Solubl<br>Qualifier | RL 4.97    | MDL | Unit<br>mg/Kg | <u>D</u> | Prepared       | Analyzed 10/02/24 00:42 | Dil Fac |

Client Sample ID: S-29 (0-1.5')

Lab Sample ID: 880-49112-17

Date Collected: 09/26/24 11:35 Date Received: 09/27/24 13:45

Sample Depth: 0-1.5'

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 02:10 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 02:10 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 02:10 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 02:10 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 02:10 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 02:10 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 130       |           | 70 - 130 |     |       |   | 09/30/24 11:16 | 10/01/24 02:10 |         |

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Matrix: Solid

Job ID: 880-49112-1 SDG: Lea Co., NM

Client Sample ID: S-29 (0-1.5')

Date Collected: 09/26/24 11:35 Date Received: 09/27/24 13:45

Client: Crain Environmental Project/Site: Chem State #1 E FL

Sample Depth: 0-1.5'

Lab Sample ID: 880-49112-17

Lab Sample ID: 880-49112-18

**Matrix: Solid** 

Matrix: Solid

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

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 09/30/24 11:16 1,4-Difluorobenzene (Surr) 114 10/01/24 02:10

**Method: TAL SOP Total BTEX - Total BTEX Calculation** 

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00402 0.00402 10/01/24 02:10 mg/Kg

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

RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <49.7 U 49.7 10/03/24 23:11 mg/Kg

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

**MDL** Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <49.7 U mg/Kg Gasoline Range Organics 49.7 09/29/24 20:42 10/03/24 23:11 (GRO)-C6-C10 <49.7 U \*1 49.7 09/29/24 20:42 10/03/24 23:11 Diesel Range Organics (Over mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <49.7 U 49.7 mg/Kg 09/29/24 20:42 10/03/24 23:11

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 115 70 - 130 09/29/24 20:42 10/03/24 23:11 102 70 - 130 09/29/24 20:42 10/03/24 23:11 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 4.98 10/02/24 00:47 Chloride 10.6 mg/Kg

Client Sample ID: S-30 (0-1.5')

Date Collected: 09/26/24 11:40

Date Received: 09/27/24 13:45

Sample Depth: 0-1.5'

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00201 U 0.00201 mg/Kg 09/30/24 11:16 10/01/24 02:31 Toluene <0.00201 U 0.00201 09/30/24 11:16 10/01/24 02:31 mg/Kg Ethylbenzene <0.00201 U 0.00201 09/30/24 11:16 10/01/24 02:31 mg/Kg 10/01/24 02:31 m-Xylene & p-Xylene <0.00402 U 0.00402 09/30/24 11:16 mg/Kg o-Xylene <0.00201 U 0.00201 mg/Kg 09/30/24 11:16 10/01/24 02:31 Xylenes, Total <0.00402 U 0.00402 mg/Kg 09/30/24 11:16 10/01/24 02:31

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed S1+ 70 - 130 4-Bromofluorobenzene (Surr) 131 09/30/24 11:16 10/01/24 02:31 1,4-Difluorobenzene (Surr) 112 70 - 130 09/30/24 11:16 10/01/24 02:31

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL D Unit Prepared Analyzed Dil Fac Total BTEX <0.00402 0.00402 mg/Kg 10/01/24 02:31

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <49.9 U Total TPH 49.9 10/03/24 23:27 mg/Kg

Job ID: 880-49112-1

SDG: Lea Co., NM

**Client Sample ID: S-30 (0-1.5')** 

Date Collected: 09/26/24 11:40 Date Received: 09/27/24 13:45

Project/Site: Chem State #1 E FL

Client: Crain Environmental

Sample Depth: 0-1.5'

Lab Sample ID: 880-49112-18

Matrix: Solid

| Analyte                           | Result       | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|--------------|-------------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics           | <49.9        | U           | 49.9     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 23:27 | 1       |
| (GRO)-C6-C10                      |              |             |          |     |       |   |                |                |         |
| Diesel Range Organics (Over       | <49.9        | U *1        | 49.9     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 23:27 | 1       |
| C10-C28)                          |              |             |          |     |       |   |                |                |         |
| Oil Range Organics (Over C28-C36) | <49.9        | U           | 49.9     |     | mg/Kg |   | 09/29/24 20:42 | 10/03/24 23:27 | 1       |
| Surrogate                         | %Recovery    | Qualifier   | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 110          |             | 70 - 130 |     |       |   | 09/29/24 20:42 | 10/03/24 23:27 | 1       |
| o-Terphenyl                       | 100          |             | 70 - 130 |     |       |   | 09/29/24 20:42 | 10/03/24 23:27 | 1       |
| Method: EPA 300.0 - Anions, Ion   | Chromatograp | hy - Solubl | e        |     |       |   |                |                |         |
| Analyte                           | Result       | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|                                   |              |             |          |     |       |   |                |                |         |

**Client Sample ID: S-31 (0-1.5')** Lab Sample ID: 880-49112-19 **Matrix: Solid** 

Date Collected: 09/26/24 11:45 Date Received: 09/27/24 13:45

Sample Depth: 0-1.5'

| Analyte  | Result   | Qualifier                                 | RL                                | MDL        | Unit                     | D        | Prepared  | Analyzed  | Dil Fac     |
|--|--|---|-----------------------------------|------------|--------------------------|----------|---|---|-------------|
| Benzene  | <0.00200   | U   | 0.00200                           |            | mg/Kg                    |          | 09/30/24 11:16  | 10/01/24 02:51  | 1           |
| Toluene  | <0.00200   | U   | 0.00200                           |            | mg/Kg                    |          | 09/30/24 11:16  | 10/01/24 02:51  | 1           |
| Ethylbenzene   | <0.00200   | U   | 0.00200                           |            | mg/Kg                    |          | 09/30/24 11:16  | 10/01/24 02:51  | 1           |
| m-Xylene & p-Xylene  | <0.00399   | U   | 0.00399                           |            | mg/Kg                    |          | 09/30/24 11:16  | 10/01/24 02:51  | 1           |
| o-Xylene   | <0.00200   | U   | 0.00200                           |            | mg/Kg                    |          | 09/30/24 11:16  | 10/01/24 02:51  | 1           |
| Xylenes, Total   | <0.00399   | U   | 0.00399                           |            | mg/Kg                    |          | 09/30/24 11:16  | 10/01/24 02:51  | 1           |
| Surrogate  | %Recovery  | Qualifier                                 | Limits                            |            |                          |          | Prepared  | Analyzed  | Dil Fac     |
| 4-Bromofluorobenzene (Surr)  | 138  | S1+                                       | 70 - 130                          |            |                          |          | 09/30/24 11:16  | 10/01/24 02:51  | 1           |
| 1,4-Difluorobenzene (Surr)   | 120  |   | 70 - 130                          |            |                          |          | 09/30/24 11:16  | 10/01/24 02:51  | 1           |
| -<br>Method: TAL SOP Total BTEX - 1  | Total BTEX Cald                                      | culation                                  |                                   |            |                          |          |   |   |             |
| Analyte  | Result   | Qualifier                                 | RL                                | MDL        | Unit                     | D        | Prepared  | Analyzed  | Dil Fac     |
| Total BTEX   | <0.00399   | U   | 0.00399                           |            | mg/Kg                    |          |   | 10/01/24 02:51  | 1           |
| -  |  |   |                                   |            |                          |          |   |   |             |
| -<br>  | I D  | : (DDO) (                                 | 00)                               |            |                          |          |   |   |             |
|  | •  | , , ,                                     | •                                 | MDI        | 1114                     | _        | Danie and   | Austral   | D!! F       |
| Method: SW846 8015 NM - Diese  | Result   | Qualifier                                 | RL                                | MDL        | Unit                     | <u>D</u> | Prepared  | Analyzed  | Dil Fac     |
|  | •  | Qualifier                                 | •                                 | MDL        | Unit<br>mg/Kg            | <u>D</u> | Prepared  | Analyzed 10/03/24 17:28   | Dil Fac     |
| Analyte  |  | Qualifier U                               |                                   | MDL        |                          | <u>D</u> | Prepared  |   | Dil Fac     |
| Analyte Total TPH  | Result <50.0   | Qualifier U                               |                                   | MDL<br>MDL | mg/Kg                    | <u>D</u> | Prepared Prepared                                     |   | Dil Fac     |
| Analyte Total TPH Method: SW846 8015B NM - Dies  | Result <50.0   | Qualifier Unics (DRO) Qualifier           | RL 50.0                           |            | mg/Kg                    |          |   | 10/03/24 17:28  | 1           |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte  Gasoline Range Organics (GRO)-C6-C10   | Result<br><50.0<br>sel Range Orga<br>Result<br><50.0 | Qualifier U  nics (DRO) Qualifier U       | RL                                |            | mg/Kg                    |          | Prepared 09/29/24 20:42                               | 10/03/24 17:28  Analyzed  10/03/24 17:28                                | 1 Dil Fac   |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over  | Result <50.0  sel Range Orga Result                  | Qualifier U  nics (DRO) Qualifier U       | RL 50.0                           |            | mg/Kg                    |          | Prepared  | 10/03/24 17:28  Analyzed  | 1 Dil Fac   |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)                                   | Result   | Qualifier U  nics (DRO) Qualifier U  U *1 | RL 50.0 (GC) RL 50.0 50.0         |            | mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 09/29/24 20:42 09/29/24 20:42                | 10/03/24 17:28  Analyzed 10/03/24 17:28 10/03/24 17:28                  | 1 Dil Fac 1 |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over  | Result<br><50.0<br>sel Range Orga<br>Result<br><50.0 | Qualifier U  nics (DRO) Qualifier U  U *1 | RL                                |            | mg/Kg  Unit mg/Kg        |          | Prepared 09/29/24 20:42                               | 10/03/24 17:28  Analyzed  10/03/24 17:28                                | Dil Fac     |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)                                   | Result   | Qualifier U  nics (DRO) Qualifier U  U *1 | RL 50.0 (GC) RL 50.0 50.0         |            | mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 09/29/24 20:42 09/29/24 20:42                | 10/03/24 17:28  Analyzed 10/03/24 17:28 10/03/24 17:28                  | 1 Dil Fac 1 |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) | Result   | Qualifier U  nics (DRO) Qualifier U  U *1 | RL 50.0  (GC) RL 50.0  50.0  50.0 |            | mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 09/29/24 20:42 09/29/24 20:42 09/29/24 20:42 | Analyzed 10/03/24 17:28  10/03/24 17:28  10/03/24 17:28  10/03/24 17:28 | 1 Dil Fac 1 |

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Released to Imaging: 1/14/2025 9:38:29 AM

# **Client Sample Results**

Client: Crain Environmental Job ID: 880-49112-1
Project/Site: Chem State #1 E FL SDG: Lea Co., NM

Client Sample ID: S-31 (0-1.5')

Lab Sample ID: 880-49112-19

Date Collected: 09/26/24 11:45

Date Received: 09/27/24 13:45

Matrix: Solid

Sample Depth: 0-1.5'

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble |        |           |      |     |       |   |          |                |         |  |
|--|--------|-----------|------|-----|-------|---|----------|----------------|---------|--|
| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |  |
| Chloride   | 7.03   |           | 4.96 |     | mg/Kg |   |          | 10/02/24 01:09 | 1       |  |

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# **Surrogate Summary**

Client: Crain Environmental Job ID: 880-49112-1 Project/Site: Chem State #1 E FL SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

|                   |                        |          |          | Percent Surrogate Recovery (Acceptance L |
|-------------------|------------------------|----------|----------|--|
|                   |                        | BFB1     | DFBZ1    |  |
| Lab Sample ID     | Client Sample ID       | (70-130) | (70-130) |  |
| 380-49112-1       | S-2 (0-1.5')           | 95       | 87       |  |
| 80-49112-2        | S-3 (2.5')             | 95       | 88       |  |
| 380-49112-3       | S-4 (2.5')             | 93       | 89       |  |
| 80-49112-4        | S-16 (0-1.5')          | 88       | 94       |  |
| 80-49112-5        | S-17 (0-1.5')          | 88       | 95       |  |
| 80-49112-6        | S-18 (1.5')            | 91       | 97       |  |
| 380-49112-7       | S-19 (0-1.5')          | 92       | 84       |  |
| 80-49112-8        | S-20 (0-1.5')          | 87       | 72       |  |
| 80-49112-9        | S-21 (0-1.5')          | 90       | 95       |  |
| 80-49112-10       | S-22 (0-1.5')          | 95       | 92       |  |
| 80-49112-11       | S-23 (1.5')            | 110      | 99       |  |
| 30-49112-12       | S-24 (0-1.5')          | 103      | 109      |  |
| 30-49112-12 MS    | S-24 (0-1.5')          | 121      | 102      |  |
| 80-49112-12 MSD   | S-24 (0-1.5')          | 125      | 100      |  |
| 30-49112-13       | S-25 (0-1.5')          | 132 S1+  | 129      |  |
| 80-49112-14       | S-26 (0-1.5')          | 137 S1+  | 114      |  |
| 0-49112-15        | S-27 (0-1.5')          | 127      | 112      |  |
| 80-49112-16       | S-28 (1.5')            | 123      | 112      |  |
| 80-49112-17       | S-29 (0-1.5')          | 130      | 114      |  |
| 0-49112-18        | S-30 (0-1.5')          | 131 S1+  | 112      |  |
| 80-49112-19       | S-31 (0-1.5')          | 138 S1+  | 120      |  |
| S 880-92116/1-A   | Lab Control Sample     | 95       | 124      |  |
| CS 880-92120/1-A  | Lab Control Sample     | 119      | 98       |  |
| CSD 880-92116/2-A | Lab Control Sample Dup | 88       | 122      |  |
| CSD 880-92120/2-A | Lab Control Sample Dup | 116      | 97       |  |
| B 880-91951/5-A   | Method Blank           | 262 S1+  | 162 S1+  |  |
| B 880-92116/5-A   | Method Blank           | 82       | 100      |  |
| B 880-92120/5-A   | Method Blank           | 142 S1+  | 86       |  |
| 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) |
|---------------|------------------|----------|----------|--|
|               |                  | 1CO1     | OTPH1    |  |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) |  |
| 880-49112-1   | S-2 (0-1.5')     | 114      | 102      |  |
| 380-49112-2   | S-3 (2.5')       | 124      | 111      |  |
| 880-49112-3   | S-4 (2.5')       | 113      | 102      |  |
| 880-49112-4   | S-16 (0-1.5')    | 107      | 94       |  |
| 880-49112-5   | S-17 (0-1.5')    | 114      | 104      |  |
| 880-49112-6   | S-18 (1.5')      | 108      | 99       |  |
| 880-49112-7   | S-19 (0-1.5')    | 106      | 97       |  |
| 880-49112-8   | S-20 (0-1.5')    | 116      | 106      |  |
| 880-49112-9   | S-21 (0-1.5')    | 111      | 102      |  |
| 880-49112-10  | S-22 (0-1.5')    | 94       | 86       |  |
| 880-49112-11  | S-23 (1.5')      | 108      | 96       |  |

# **Surrogate Summary**

Client: Crain Environmental Job ID: 880-49112-1
Project/Site: Chem State #1 E FL SDG: Lea Co., NM

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

Matrix: Solid Prep Type: Total/NA

|                      |                        |          |          | Percent Surrogate Recovery (Acceptance Limits) |
|----------------------|------------------------|----------|----------|--|
|                      |                        | 1CO1     | OTPH1    |  |
| Lab Sample ID        | Client Sample ID       | (70-130) | (70-130) |  |
| 880-49112-12         | S-24 (0-1.5')          | 113      | 100      |  |
| 880-49112-13         | S-25 (0-1.5')          | 115      | 104      |  |
| 880-49112-14         | S-26 (0-1.5')          | 109      | 98       |  |
| 880-49112-15         | S-27 (0-1.5')          | 106      | 94       |  |
| 880-49112-16         | S-28 (1.5')            | 109      | 99       |  |
| 880-49112-17         | S-29 (0-1.5')          | 115      | 102      |  |
| 880-49112-18         | S-30 (0-1.5')          | 110      | 100      |  |
| 880-49112-19         | S-31 (0-1.5')          | 107      | 100      |  |
| 880-49112-19 MS      | S-31 (0-1.5')          | 115      | 111      |  |
| 880-49112-19 MSD     | S-31 (0-1.5')          | 118      | 113      |  |
| LCS 880-92044/2-A    | Lab Control Sample     | 110      | 113      |  |
| LCSD 880-92044/3-A   | Lab Control Sample Dup | 137 S1+  | 140 S1+  |  |
| MB 880-92044/1-A     | Method Blank           | 150 S1+  | 144 S1+  |  |
| Surrogate Legend     |                        |          |          |  |
| 1CO = 1-Chlorooctane |                        |          |          |  |
| OTPH = o-Ternhenyl   |                        |          |          |  |

OTPH = o-Terphenyl

Client: Crain Environmental Project/Site: Chem State #1 E FL Job ID: 880-49112-1 SDG: Lea Co., NM

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

Lab Sample ID: MB 880-91951/5-A

**Matrix: Solid** 

Analysis Batch: 92039

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 91951

|                     | MB       | MB        |         |     |       |   |                |                |         |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 09/27/24 14:56 | 09/30/24 12:26 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 09/27/24 14:56 | 09/30/24 12:26 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 09/27/24 14:56 | 09/30/24 12:26 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 09/27/24 14:56 | 09/30/24 12:26 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 09/27/24 14:56 | 09/30/24 12:26 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 09/27/24 14:56 | 09/30/24 12:26 | 1       |
|                     |          |           |         |     |       |   |                |                |         |

MB MB

| Surrogate                   | %Recovery | Qualifier | Limits   |  |  |
|-----------------------------|-----------|-----------|----------|--|--|
| 4-Bromofluorobenzene (Surr) | 262       | S1+       | 70 - 130 |  |  |
| 1,4-Difluorobenzene (Surr)  | 162       | S1+       | 70 - 130 |  |  |

Dil Fac Prepared Analyzed 09/27/24 14:56 09/30/24 12:26 09/27/24 14:56 09/30/24 12:26

> Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 92116

Matrix: Solid Analysis Batch: 92216

Lab Sample ID: MB 880-92116/5-A

|                     | INID     | IVID      |         |     |       |   |                |                |         |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 11:35 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 11:35 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 11:35 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 11:35 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 11:35 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 09/30/24 10:59 | 10/01/24 11:35 | 1       |
|                     |          |           |         |     |       |   |                |                |         |

мв мв

| Surrogate                   | %Recovery Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|---------------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 82                  | 70 - 130 | 09/30/24 10:59 | 10/01/24 11:35 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100                 | 70 - 130 | 09/30/24 10:59 | 10/01/24 11:35 | 1       |

Lab Sample ID: LCS 880-92116/1-A

**Matrix: Solid** 

Analysis Batch: 92216

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 92116

|                     | Spike | LCS     | LCS       |       |   |      | %Rec     |  |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte             | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   |  |
| Benzene             | 0.100 | 0.1020  |           | mg/Kg |   | 102  | 70 - 130 |  |
| Toluene             | 0.100 | 0.09374 |           | mg/Kg |   | 94   | 70 - 130 |  |
| Ethylbenzene        | 0.100 | 0.08694 |           | mg/Kg |   | 87   | 70 - 130 |  |
| m-Xylene & p-Xylene | 0.200 | 0.1688  |           | mg/Kg |   | 84   | 70 - 130 |  |
| o-Xylene            | 0.100 | 0.08385 |           | mg/Kg |   | 84   | 70 - 130 |  |

LCS LCS

| Surrogate                   | %Recovery | Qualifier | Limits   |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 95        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 124       |           | 70 - 130 |

Lab Sample ID: LCSD 880-92116/2-A

Matrix: Solid

Analysis Batch: 92216

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 92116

|         | <b>Spike</b> | LCSD LCSD        |       |   |      | %Rec     |     | RPD   |  |
|---------|--------------|------------------|-------|---|------|----------|-----|-------|--|
| Analyte | Added        | Result Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |  |
| Benzene | 0.100        | 0.1011           | mg/Kg |   | 101  | 70 - 130 | 1   | 35    |  |

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### **QC Sample Results**

Client: Crain Environmental Job ID: 880-49112-1 Project/Site: Chem State #1 E FL SDG: Lea Co., NM

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

Lab Sample ID: LCSD 880-92116/2-A

**Matrix: Solid** Analysis Batch: 92216 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 92116

|                     | Spike | LCSD    | LCSD      |       |   |      | %Rec     |     | RPD   |
|---------------------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte             | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Toluene             | 0.100 | 0.08761 |           | mg/Kg |   | 88   | 70 - 130 | 7   | 35    |
| Ethylbenzene        | 0.100 | 0.08184 |           | mg/Kg |   | 82   | 70 - 130 | 6   | 35    |
| m-Xylene & p-Xylene | 0.200 | 0.1543  |           | mg/Kg |   | 77   | 70 - 130 | 9   | 35    |
| o-Xylene            | 0.100 | 0.07753 |           | mg/Kg |   | 78   | 70 - 130 | 8   | 35    |
|                     |       |         |           |       |   |      |          |     |       |

LCSD LCSD

| Surrogate                   | %Recovery Qualifier | Limits   |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 88                  | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 122                 | 70 - 130 |

Lab Sample ID: MB 880-92120/5-A Client Sample ID: Method Blank

**Matrix: Solid** 

Analysis Batch: 92039

Prep Type: Total/NA

Prep Batch: 92120

|                     | IVID     | IVID      |         |     |       |   |                |                |         |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:00 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:00 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:00 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:00 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:00 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 09/30/24 11:16 | 10/01/24 00:00 | 1       |
|                     |          |           |         |     |       |   |                |                |         |

MB MB

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 142       | S1+       | 70 - 130 | 09/30/24 11:16 | 10/01/24 00:00 | 1       |
| 1,4-Difluorobenzene (Surr)  | 86        |           | 70 - 130 | 09/30/24 11:16 | 10/01/24 00:00 | 1       |

Lab Sample ID: LCS 880-92120/1-A

**Matrix: Solid** 

Analysis Batch: 92039

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 92120

|                     | <b>Spike</b> | LCS     | LCS       |       |   |      | %Rec     |  |
|---------------------|--------------|---------|-----------|-------|---|------|----------|--|
| Analyte             | Added        | Result  | Qualifier | Unit  | D | %Rec | Limits   |  |
| Benzene             | 0.100        | 0.08764 |           | mg/Kg |   | 88   | 70 - 130 |  |
| Toluene             | 0.100        | 0.08271 |           | mg/Kg |   | 83   | 70 - 130 |  |
| Ethylbenzene        | 0.100        | 0.1065  |           | mg/Kg |   | 106  | 70 - 130 |  |
| m-Xylene & p-Xylene | 0.200        | 0.2359  |           | mg/Kg |   | 118  | 70 - 130 |  |
| o-Xylene            | 0.100        | 0.1089  |           | mg/Kg |   | 109  | 70 - 130 |  |
|                     |              |         |           |       |   |      |          |  |

LCS LCS

| Surrogate                   | %Recovery Qualifie | er Limits |
|-----------------------------|--------------------|-----------|
| 4-Bromofluorobenzene (Surr) | 119                | 70 - 130  |
| 1,4-Difluorobenzene (Surr)  | 98                 | 70 - 130  |

Lab Sample ID: LCSD 880-92120/2-A

**Matrix: Solid** 

Analysis Batch: 92039

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 92120

| -            | Spike | LCSD    | LCSD      |       |   |      | %Rec     |     | RPD   |
|--------------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte      | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Benzene      | 0.100 | 0.09365 |           | mg/Kg |   | 94   | 70 - 130 | 7   | 35    |
| Toluene      | 0.100 | 0.08167 |           | mg/Kg |   | 82   | 70 - 130 | 1   | 35    |
| Ethylbenzene | 0.100 | 0.08929 |           | mg/Kg |   | 89   | 70 - 130 | 18  | 35    |

### QC Sample Results

Client: Crain Environmental Job ID: 880-49112-1 Project/Site: Chem State #1 E FL SDG: Lea Co., NM

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

Lab Sample ID: LCSD 880-92120/2-A

**Matrix: Solid** 

Analysis Batch: 92039

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 92120

Prep Batch: 92120

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 0.200 0.2031 102 70 - 130 15 35 m-Xylene & p-Xylene mg/Kg o-Xylene 0.100 0.1039 mg/Kg 104 70 - 130

LCSD LCSD

| Surrogate                   | %Recovery Q | ualifier | Limits   |
|-----------------------------|-------------|----------|----------|
| 4-Bromofluorobenzene (Surr) | 116         |          | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 97          |          | 70 - 130 |

Lab Sample ID: 880-49112-12 MS Client Sample ID: S-24 (0-1.5') Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 92039

%Rec Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene <0.00201 U 0.100 0.1016 mg/Kg 102 70 - 130 Toluene <0.00201 U 0.100 0.08717 mg/Kg 87 70 - 130 <0.00201 U 0.100 109 Ethylbenzene 0.1093 mg/Kg 70 - 130 m-Xylene & p-Xylene <0.00402 U 0.200 0.2132 mg/Kg 107 70 - 130 <0.00201 U 0.100 0.1069 o-Xylene mg/Kg 107 70 - 130

MS MS

| Surrogate                   | %Recovery Qual | ifier Limits |
|-----------------------------|----------------|--------------|
| 4-Bromofluorobenzene (Surr) | 121            | 70 - 130     |
| 1.4-Difluorobenzene (Surr)  | 102            | 70 - 130     |

Lab Sample ID: 880-49112-12 MSD Client Sample ID: S-24 (0-1.5')

**Matrix: Solid** 

**Analysis Batch: 92039** 

Prep Type: Total/NA

Prep Batch: 92120

|                     | Sample    | Sample    | Spike | MSD     | MSD       |       |   |      | %Rec     |     | RPD   |
|---------------------|-----------|-----------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte             | Result    | Qualifier | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Benzene             | <0.00201  | U         | 0.100 | 0.09911 |           | mg/Kg |   | 99   | 70 - 130 | 2   | 35    |
| Toluene             | <0.00201  | U         | 0.100 | 0.08875 |           | mg/Kg |   | 89   | 70 - 130 | 2   | 35    |
| Ethylbenzene        | < 0.00201 | U         | 0.100 | 0.1078  |           | mg/Kg |   | 108  | 70 - 130 | 1   | 35    |
| m-Xylene & p-Xylene | <0.00402  | U         | 0.200 | 0.2369  |           | mg/Kg |   | 118  | 70 - 130 | 11  | 35    |
| o-Xylene            | <0.00201  | U         | 0.100 | 0.1215  |           | mg/Kg |   | 122  | 70 - 130 | 13  | 35    |
|                     |           |           |       |         |           |       |   |      |          |     |       |

MSD MSD

| Surrogate                   | %Recovery Qualifier | Limits   |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 125                 | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 100                 | 70 - 130 |

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

Lab Sample ID: MB 880-92044/1-A

Released to Imaging: 1/14/2025 9:38:29 AM

**Matrix: Solid** 

**Analysis Batch: 92508** 

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

Prep Batch: 92044

|                                   | MB   | MB   |  |   |   |  |  |   |  |
|-----------------------------------|--|--|--|---|---|--|--|---|--|
| Analyte                           | Result   | Qualifier  | RL   | MDL   | Unit  | D  | Prepared   | Analyzed  | Dil Fac  |
| Gasoline Range Organics           | <50.0  | U  | 50.0   |   | mg/Kg   |  | 09/29/24 20:41   | 10/03/24 03:55  | 1  |
| (GRO)-C6-C10                      |  |  |  |   |   |  |  |   |  |
| Diesel Range Organics (Over       | <50.0  | U  | 50.0   |   | mg/Kg   |  | 09/29/24 20:41   | 10/03/24 03:55  | 1  |
| C10-C28)                          |  |  |  |   |   |  |  |   |  |
| Oil Range Organics (Over C28-C36) | <50.0  | U  | 50.0   |   | mg/Kg   |  | 09/29/24 20:41   | 10/03/24 03:55  | 1  |
|                                   | Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28) | Analyte         Result           Gasoline Range Organics         <50.0 | Analyte         Result         Qualifier           Gasoline Range Organics         <50.0 | Analyte         Result         Qualifier         RL           Gasoline Range Organics         <50.0 | Analyte         Result         Qualifier         RL         MDL           Gasoline Range Organics         <50.0 | Analyte         Result         Qualifier         RL         MDL         Unit           Gasoline Range Organics         <50.0 | Analyte         Result         Qualifier         RL         MDL         Unit         D           Gasoline Range Organics         <50.0 | Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared           Gasoline Range Organics         <50.0 | Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           Gasoline Range Organics         <50.0 |

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### QC Sample Results

Client: Crain Environmental Project/Site: Chem State #1 E FL Job ID: 880-49112-1

SDG: Lea Co., NM

Prep Batch: 92044

Prep Type: Total/NA

Prep Type: Total/NA

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

|                | MB        | МВ        |          |                |                |         |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane | 150       | S1+       | 70 - 130 | 09/29/24 20:41 | 10/03/24 03:55 | 1       |
| o-Terphenyl    | 144       | S1+       | 70 - 130 | 09/29/24 20:41 | 10/03/24 03:55 | 1       |

Lab Sample ID: LCS 880-92044/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 92508** 

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 876.3 88 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 882.7 mg/Kg 88 70 - 130 C10-C28)

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 110 70 - 130 o-Terphenyl 113 70 - 130

Lab Sample ID: LCSD 880-92044/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

**Analysis Batch: 92508** 

Prep Batch: 92044 LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics 1000 1067 mg/Kg 107 70 - 13020 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1128 \*1 mg/Kg 113 70 - 13024 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 137 S1+ 70 - 130 1-Chlorooctane 70 - 130 o-Terphenyl 140 S1+

Lab Sample ID: 880-49112-19 MS Client Sample ID: S-31 (0-1.5')

**Matrix: Solid** 

**Analysis Batch: 92508** 

Prep Batch: 92044 Sample Sample Spike MS MS Analyte Result Qualifier hahhA Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U 995 816.2 mg/Kg 82 70 - 130 (GRO)-C6-C10 <50.0 U \*1 995 Diesel Range Organics (Over 767.4 mg/Kg 77 70 - 130

C10-C28)

|                | IVIS      | IVIS      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 115       |           | 70 - 130 |
| o-Terphenvl    | 111       |           | 70 - 130 |

Lab Sample ID: 880-49112-19 MSD Client Sample ID: S-31 (0-1.5') Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 92508** Prep Batch: 92044 Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics <50.0 U 995 821.0 83 mg/Kg 70 - 130

(GRO)-C6-C10

Client: Crain Environmental Project/Site: Chem State #1 E FL Job ID: 880-49112-1

SDG: Lea Co., NM

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

**Prep Type: Soluble** 

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

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Lab Sample ID: 880-49112-19 MSD Client Sample ID: S-31 (0-1.5') **Matrix: Solid Analysis Batch: 92508** 

Prep Batch: 92044 Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Analyte D <50.0 U\*1 995 757 1 76 70 - 130 20 Diesel Range Organics (Over mg/Kg

C10-C28)

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 118       |           | 70 - 130 |
| o-Terphenyl    | 113       |           | 70 - 130 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-92158/1-A Client Sample ID: Method Blank

**Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 92245** 

мв мв Result Qualifier Analyte RL MDL Unit Analyzed Dil Fac D Prepared Chloride <5.00 U 5.00 10/02/24 16:46 mg/Kg

Lab Sample ID: LCS 880-92158/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble** 

**Matrix: Solid Analysis Batch: 92245** 

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits

Chloride 250 251.5 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-92158/3-A

**Matrix: Solid Analysis Batch: 92245** 

LCSD LCSD RPD Spike %Rec Added Analyte Result Qualifier Unit %Rec Limit Chloride 250 245.4 90 - 110 mg/Kg

Lab Sample ID: MB 880-92174/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 92249

MB MB Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride <5.00 U 5.00 10/01/24 23:20 mg/Kg

Lab Sample ID: LCS 880-92174/2-A Client Sample ID: Lab Control Sample

Matrix: Solid **Prep Type: Soluble** 

**Analysis Batch: 92249** 

Spike LCS LCS %Rec Added Result Qualifier Analyte Unit %Rec Limits 250 Chloride 244.8 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-92174/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 92249** 

Released to Imaging: 1/14/2025 9:38:29 AM

LCSD LCSD Spike %Rec RPD %Rec Analyte Added Result Qualifier Limits RPD Limit Unit Chloride 250 245.4 98 90 - 110 20 mg/Kg

Lab Sample ID: 880-49112-8 MSD

**Matrix: Solid** 

Analysis Batch: 92249

### QC Sample Results

Job ID: 880-49112-1 Client: Crain Environmental Project/Site: Chem State #1 E FL SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-49112-8 MS Client Sample ID: S-20 (0-1.5') **Matrix: Solid Prep Type: Soluble Analysis Batch: 92249** 

Sample Sample Spike MS MS %Rec Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Chloride 7.86 250 251.7 mg/Kg 98 90 - 110

Client Sample ID: S-20 (0-1.5')

**Prep Type: Soluble** 

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Qualifier Limits RPD Limit Analyte Result Unit D %Rec Chloride 7.86 250 255.6 mg/Kg 99 90 - 110

Lab Sample ID: 880-49112-18 MS Client Sample ID: S-30 (0-1.5')

**Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 92249

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride <5.00 U 250 250.1 90 - 110 mg/Kg

Lab Sample ID: 880-49112-18 MSD Client Sample ID: S-30 (0-1.5')

**Matrix: Solid Prep Type: Soluble Analysis Batch: 92249** 

Spike MSD MSD RPD Sample Sample %Rec

Analyte Result Qualifier Added Qualifier Unit %Rec RPD Limit Result Limits 250.1 Chloride <5.00 250 90 - 110 20 mg/Kg

Client: Crain Environmental Project/Site: Chem State #1 E FL Job ID: 880-49112-1 SDG: Lea Co., NM

### **GC VOA**

### Prep Batch: 91951

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-91951/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

### Analysis Batch: 92039

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-49112-12       | S-24 (0-1.5')          | Total/NA  | Solid  | 8021B  | 92120      |
| 880-49112-13       | S-25 (0-1.5')          | Total/NA  | Solid  | 8021B  | 92120      |
| 880-49112-14       | S-26 (0-1.5')          | Total/NA  | Solid  | 8021B  | 92120      |
| 880-49112-15       | S-27 (0-1.5')          | Total/NA  | Solid  | 8021B  | 92120      |
| 880-49112-16       | S-28 (1.5')            | Total/NA  | Solid  | 8021B  | 92120      |
| 880-49112-17       | S-29 (0-1.5')          | Total/NA  | Solid  | 8021B  | 92120      |
| 880-49112-18       | S-30 (0-1.5')          | Total/NA  | Solid  | 8021B  | 92120      |
| 880-49112-19       | S-31 (0-1.5')          | Total/NA  | Solid  | 8021B  | 92120      |
| MB 880-91951/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 91951      |
| MB 880-92120/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 92120      |
| LCS 880-92120/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 92120      |
| LCSD 880-92120/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 92120      |
| 880-49112-12 MS    | S-24 (0-1.5')          | Total/NA  | Solid  | 8021B  | 92120      |
| 880-49112-12 MSD   | S-24 (0-1.5')          | Total/NA  | Solid  | 8021B  | 92120      |

### Prep Batch: 92116

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-49112-1        | S-2 (0-1.5')           | Total/NA  | Solid  | 5035   |            |
| 880-49112-2        | S-3 (2.5')             | Total/NA  | Solid  | 5035   |            |
| 880-49112-3        | S-4 (2.5')             | Total/NA  | Solid  | 5035   |            |
| 880-49112-4        | S-16 (0-1.5')          | Total/NA  | Solid  | 5035   |            |
| 880-49112-5        | S-17 (0-1.5')          | Total/NA  | Solid  | 5035   |            |
| 880-49112-6        | S-18 (1.5')            | Total/NA  | Solid  | 5035   |            |
| 880-49112-7        | S-19 (0-1.5')          | Total/NA  | Solid  | 5035   |            |
| 880-49112-8        | S-20 (0-1.5')          | Total/NA  | Solid  | 5035   |            |
| 880-49112-9        | S-21 (0-1.5')          | Total/NA  | Solid  | 5035   |            |
| 880-49112-10       | S-22 (0-1.5')          | Total/NA  | Solid  | 5035   |            |
| 880-49112-11       | S-23 (1.5')            | Total/NA  | Solid  | 5035   |            |
| MB 880-92116/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-92116/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-92116/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

### Prep Batch: 92120

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batcl |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-49112-12       | S-24 (0-1.5')          | Total/NA  | Solid  | 5035   |            |
| 880-49112-13       | S-25 (0-1.5')          | Total/NA  | Solid  | 5035   |            |
| 880-49112-14       | S-26 (0-1.5')          | Total/NA  | Solid  | 5035   |            |
| 880-49112-15       | S-27 (0-1.5')          | Total/NA  | Solid  | 5035   |            |
| 880-49112-16       | S-28 (1.5')            | Total/NA  | Solid  | 5035   |            |
| 880-49112-17       | S-29 (0-1.5')          | Total/NA  | Solid  | 5035   |            |
| 880-49112-18       | S-30 (0-1.5')          | Total/NA  | Solid  | 5035   |            |
| 880-49112-19       | S-31 (0-1.5')          | Total/NA  | Solid  | 5035   |            |
| MB 880-92120/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-92120/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-92120/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-49112-12 MS    | S-24 (0-1.5')          | Total/NA  | Solid  | 5035   |            |
| 880-49112-12 MSD   | S-24 (0-1.5')          | Total/NA  | Solid  | 5035   |            |

**Eurofins Midland** 

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Client: Crain EnvironmentalJob ID: 880-49112-1Project/Site: Chem State #1 E FLSDG: Lea Co., NM

### **GC VOA**

### Analysis Batch: 92216

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-49112-1        | S-2 (0-1.5')           | Total/NA  | Solid  | 8021B  | 92116      |
| 880-49112-2        | S-3 (2.5')             | Total/NA  | Solid  | 8021B  | 92116      |
| 880-49112-3        | S-4 (2.5')             | Total/NA  | Solid  | 8021B  | 92116      |
| 880-49112-4        | S-16 (0-1.5')          | Total/NA  | Solid  | 8021B  | 92116      |
| 880-49112-5        | S-17 (0-1.5')          | Total/NA  | Solid  | 8021B  | 92116      |
| 880-49112-6        | S-18 (1.5')            | Total/NA  | Solid  | 8021B  | 92116      |
| 880-49112-7        | S-19 (0-1.5')          | Total/NA  | Solid  | 8021B  | 92116      |
| 880-49112-8        | S-20 (0-1.5')          | Total/NA  | Solid  | 8021B  | 92116      |
| 880-49112-9        | S-21 (0-1.5')          | Total/NA  | Solid  | 8021B  | 92116      |
| 880-49112-10       | S-22 (0-1.5')          | Total/NA  | Solid  | 8021B  | 92116      |
| 880-49112-11       | S-23 (1.5')            | Total/NA  | Solid  | 8021B  | 92116      |
| MB 880-92116/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 92116      |
| LCS 880-92116/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 92116      |
| LCSD 880-92116/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 92116      |

### Analysis Batch: 92266

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batc |
|---------------|------------------|-----------|--------|------------|-----------|
| 880-49112-1   | S-2 (0-1.5')     | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-2   | S-3 (2.5')       | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-3   | S-4 (2.5')       | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-4   | S-16 (0-1.5')    | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-5   | S-17 (0-1.5')    | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-6   | S-18 (1.5')      | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-7   | S-19 (0-1.5')    | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-8   | S-20 (0-1.5')    | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-9   | S-21 (0-1.5')    | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-10  | S-22 (0-1.5')    | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-11  | S-23 (1.5')      | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-12  | S-24 (0-1.5')    | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-13  | S-25 (0-1.5')    | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-14  | S-26 (0-1.5')    | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-15  | S-27 (0-1.5')    | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-16  | S-28 (1.5')      | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-17  | S-29 (0-1.5')    | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-18  | S-30 (0-1.5')    | Total/NA  | Solid  | Total BTEX |           |
| 880-49112-19  | S-31 (0-1.5')    | Total/NA  | Solid  | Total BTEX |           |

### GC Semi VOA

### Prep Batch: 92044

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method      | Prep Batc |
|---------------|------------------|-----------|--------|-------------|-----------|
| 880-49112-1   | S-2 (0-1.5')     | Total/NA  | Solid  | 8015NM Prep |           |
| 880-49112-2   | S-3 (2.5')       | Total/NA  | Solid  | 8015NM Prep |           |
| 880-49112-3   | S-4 (2.5')       | Total/NA  | Solid  | 8015NM Prep |           |
| 880-49112-4   | S-16 (0-1.5')    | Total/NA  | Solid  | 8015NM Prep |           |
| 880-49112-5   | S-17 (0-1.5')    | Total/NA  | Solid  | 8015NM Prep |           |
| 880-49112-6   | S-18 (1.5')      | Total/NA  | Solid  | 8015NM Prep |           |
| 880-49112-7   | S-19 (0-1.5')    | Total/NA  | Solid  | 8015NM Prep |           |
| 880-49112-8   | S-20 (0-1.5')    | Total/NA  | Solid  | 8015NM Prep |           |
| 880-49112-9   | S-21 (0-1.5')    | Total/NA  | Solid  | 8015NM Prep |           |
| 880-49112-10  | S-22 (0-1.5')    | Total/NA  | Solid  | 8015NM Prep |           |

**Eurofins Midland** 

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Client: Crain Environmental Project/Site: Chem State #1 E FL Job ID: 880-49112-1 SDG: Lea Co., NM

# GC Semi VOA (Continued)

### Prep Batch: 92044 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-49112-11       | S-23 (1.5')            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-49112-12       | S-24 (0-1.5')          | Total/NA  | Solid  | 8015NM Prep |            |
| 880-49112-13       | S-25 (0-1.5')          | Total/NA  | Solid  | 8015NM Prep |            |
| 880-49112-14       | S-26 (0-1.5')          | Total/NA  | Solid  | 8015NM Prep |            |
| 880-49112-15       | S-27 (0-1.5')          | Total/NA  | Solid  | 8015NM Prep |            |
| 880-49112-16       | S-28 (1.5')            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-49112-17       | S-29 (0-1.5')          | Total/NA  | Solid  | 8015NM Prep |            |
| 880-49112-18       | S-30 (0-1.5')          | Total/NA  | Solid  | 8015NM Prep |            |
| 880-49112-19       | S-31 (0-1.5')          | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-92044/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-92044/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-92044/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-49112-19 MS    | S-31 (0-1.5')          | Total/NA  | Solid  | 8015NM Prep |            |
| 880-49112-19 MSD   | S-31 (0-1.5')          | Total/NA  | Solid  | 8015NM Prep |            |

### **Analysis Batch: 92508**

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-49112-1        | S-2 (0-1.5')           | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-2        | S-3 (2.5')             | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-3        | S-4 (2.5')             | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-4        | S-16 (0-1.5')          | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-5        | S-17 (0-1.5')          | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-6        | S-18 (1.5')            | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-7        | S-19 (0-1.5')          | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-8        | S-20 (0-1.5')          | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-9        | S-21 (0-1.5')          | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-10       | S-22 (0-1.5')          | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-11       | S-23 (1.5')            | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-12       | S-24 (0-1.5')          | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-13       | S-25 (0-1.5')          | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-14       | S-26 (0-1.5')          | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-15       | S-27 (0-1.5')          | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-16       | S-28 (1.5')            | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-17       | S-29 (0-1.5')          | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-18       | S-30 (0-1.5')          | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-19       | S-31 (0-1.5')          | Total/NA  | Solid  | 8015B NM | 92044      |
| MB 880-92044/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 92044      |
| LCS 880-92044/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 92044      |
| LCSD 880-92044/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-19 MS    | S-31 (0-1.5')          | Total/NA  | Solid  | 8015B NM | 92044      |
| 880-49112-19 MSD   | S-31 (0-1.5')          | Total/NA  | Solid  | 8015B NM | 92044      |

### **Analysis Batch: 92577**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-49112-1   | S-2 (0-1.5')     | Total/NA  | Solid  | 8015 NM |            |
| 880-49112-2   | S-3 (2.5')       | Total/NA  | Solid  | 8015 NM |            |
| 880-49112-3   | S-4 (2.5')       | Total/NA  | Solid  | 8015 NM |            |
| 880-49112-4   | S-16 (0-1.5')    | Total/NA  | Solid  | 8015 NM |            |
| 880-49112-5   | S-17 (0-1.5')    | Total/NA  | Solid  | 8015 NM |            |
| 880-49112-6   | S-18 (1.5')      | Total/NA  | Solid  | 8015 NM |            |
| 880-49112-7   | S-19 (0-1.5')    | Total/NA  | Solid  | 8015 NM |            |

Client: Crain Environmental Project/Site: Chem State #1 E FL Job ID: 880-49112-1 SDG: Lea Co., NM

# GC Semi VOA (Continued)

### **Analysis Batch: 92577 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-49112-8   | S-20 (0-1.5')    | Total/NA  | Solid  | 8015 NM |            |
| 880-49112-9   | S-21 (0-1.5')    | Total/NA  | Solid  | 8015 NM |            |
| 880-49112-10  | S-22 (0-1.5')    | Total/NA  | Solid  | 8015 NM |            |
| 880-49112-11  | S-23 (1.5')      | Total/NA  | Solid  | 8015 NM |            |
| 880-49112-12  | S-24 (0-1.5')    | Total/NA  | Solid  | 8015 NM |            |
| 880-49112-13  | S-25 (0-1.5')    | Total/NA  | Solid  | 8015 NM |            |
| 880-49112-14  | S-26 (0-1.5')    | Total/NA  | Solid  | 8015 NM |            |
| 880-49112-15  | S-27 (0-1.5')    | Total/NA  | Solid  | 8015 NM |            |
| 880-49112-16  | S-28 (1.5')      | Total/NA  | Solid  | 8015 NM |            |
| 880-49112-17  | S-29 (0-1.5')    | Total/NA  | Solid  | 8015 NM |            |
| 880-49112-18  | S-30 (0-1.5')    | Total/NA  | Solid  | 8015 NM |            |
| 880-49112-19  | S-31 (0-1.5')    | Total/NA  | Solid  | 8015 NM |            |

### **HPLC/IC**

### Leach Batch: 92158

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-49112-1        | S-2 (0-1.5')           | Soluble   | Solid  | DI Leach |            |
| 880-49112-2        | S-3 (2.5')             | Soluble   | Solid  | DI Leach |            |
| 880-49112-3        | S-4 (2.5')             | Soluble   | Solid  | DI Leach |            |
| 880-49112-4        | S-16 (0-1.5')          | Soluble   | Solid  | DI Leach |            |
| 880-49112-5        | S-17 (0-1.5')          | Soluble   | Solid  | DI Leach |            |
| 880-49112-6        | S-18 (1.5')            | Soluble   | Solid  | DI Leach |            |
| 880-49112-7        | S-19 (0-1.5')          | Soluble   | Solid  | DI Leach |            |
| MB 880-92158/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-92158/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-92158/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |

#### Leach Batch: 92174

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batcl |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-49112-8        | S-20 (0-1.5')          | Soluble   | Solid  | DI Leach | _          |
| 880-49112-9        | S-21 (0-1.5')          | Soluble   | Solid  | DI Leach |            |
| 880-49112-10       | S-22 (0-1.5')          | Soluble   | Solid  | DI Leach |            |
| 880-49112-11       | S-23 (1.5')            | Soluble   | Solid  | DI Leach |            |
| 880-49112-12       | S-24 (0-1.5')          | Soluble   | Solid  | DI Leach |            |
| 880-49112-13       | S-25 (0-1.5')          | Soluble   | Solid  | DI Leach |            |
| 880-49112-14       | S-26 (0-1.5')          | Soluble   | Solid  | DI Leach |            |
| 880-49112-15       | S-27 (0-1.5')          | Soluble   | Solid  | DI Leach |            |
| 880-49112-16       | S-28 (1.5')            | Soluble   | Solid  | DI Leach |            |
| 880-49112-17       | S-29 (0-1.5')          | Soluble   | Solid  | DI Leach |            |
| 880-49112-18       | S-30 (0-1.5')          | Soluble   | Solid  | DI Leach |            |
| 880-49112-19       | S-31 (0-1.5')          | Soluble   | Solid  | DI Leach |            |
| MB 880-92174/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-92174/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-92174/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-49112-8 MS     | S-20 (0-1.5')          | Soluble   | Solid  | DI Leach |            |
| 880-49112-8 MSD    | S-20 (0-1.5')          | Soluble   | Solid  | DI Leach |            |
| 880-49112-18 MS    | S-30 (0-1.5')          | Soluble   | Solid  | DI Leach |            |
| 880-49112-18 MSD   | S-30 (0-1.5')          | Soluble   | Solid  | DI Leach |            |

Client: Crain EnvironmentalJob ID: 880-49112-1Project/Site: Chem State #1 E FLSDG: Lea Co., NM

### HPLC/IC

### Analysis Batch: 92245

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-49112-1        | S-2 (0-1.5')           | Soluble   | Solid  | 300.0  | 92158      |
| 880-49112-2        | S-3 (2.5')             | Soluble   | Solid  | 300.0  | 92158      |
| 880-49112-3        | S-4 (2.5')             | Soluble   | Solid  | 300.0  | 92158      |
| 880-49112-4        | S-16 (0-1.5')          | Soluble   | Solid  | 300.0  | 92158      |
| 880-49112-5        | S-17 (0-1.5')          | Soluble   | Solid  | 300.0  | 92158      |
| 880-49112-6        | S-18 (1.5')            | Soluble   | Solid  | 300.0  | 92158      |
| 880-49112-7        | S-19 (0-1.5')          | Soluble   | Solid  | 300.0  | 92158      |
| MB 880-92158/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 92158      |
| LCS 880-92158/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 92158      |
| LCSD 880-92158/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 92158      |

### **Analysis Batch: 92249**

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-49112-8        | S-20 (0-1.5')          | Soluble   | Solid  | 300.0  | 92174      |
| 880-49112-9        | S-21 (0-1.5')          | Soluble   | Solid  | 300.0  | 92174      |
| 880-49112-10       | S-22 (0-1.5')          | Soluble   | Solid  | 300.0  | 92174      |
| 880-49112-11       | S-23 (1.5')            | Soluble   | Solid  | 300.0  | 92174      |
| 880-49112-12       | S-24 (0-1.5')          | Soluble   | Solid  | 300.0  | 92174      |
| 880-49112-13       | S-25 (0-1.5')          | Soluble   | Solid  | 300.0  | 92174      |
| 880-49112-14       | S-26 (0-1.5')          | Soluble   | Solid  | 300.0  | 92174      |
| 880-49112-15       | S-27 (0-1.5')          | Soluble   | Solid  | 300.0  | 92174      |
| 880-49112-16       | S-28 (1.5')            | Soluble   | Solid  | 300.0  | 92174      |
| 880-49112-17       | S-29 (0-1.5')          | Soluble   | Solid  | 300.0  | 92174      |
| 880-49112-18       | S-30 (0-1.5')          | Soluble   | Solid  | 300.0  | 92174      |
| 880-49112-19       | S-31 (0-1.5')          | Soluble   | Solid  | 300.0  | 92174      |
| MB 880-92174/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 92174      |
| LCS 880-92174/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 92174      |
| LCSD 880-92174/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 92174      |
| 880-49112-8 MS     | S-20 (0-1.5')          | Soluble   | Solid  | 300.0  | 92174      |
| 880-49112-8 MSD    | S-20 (0-1.5')          | Soluble   | Solid  | 300.0  | 92174      |
| 880-49112-18 MS    | S-30 (0-1.5')          | Soluble   | Solid  | 300.0  | 92174      |
| 880-49112-18 MSD   | S-30 (0-1.5')          | Soluble   | Solid  | 300.0  | 92174      |

**Eurofins Midland** 

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11

Client: Crain Environmental

Project/Site: Chem State #1 E FL

**Client Sample ID: S-2 (0-1.5')** Date Collected: 09/26/24 10:15 Date Received: 09/27/24 13:45

Lab Sample ID: 880-49112-1

| Matrix: Solid |  |  |
|---------------|--|--|
| matrixi oona  |  |  |
|               |  |  |

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.03 g  | 5 mL     | 92116  | 09/30/24 10:59 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92216  | 10/01/24 15:02 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92266  | 10/01/24 15:02 | SM      | EET MIC |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92577  | 10/03/24 18:34 | SM      | EET MIC |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.04 g | 10.00 mL | 92044  | 09/29/24 20:42 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92508  | 10/03/24 18:34 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.04 g  | 50 mL    | 92158  | 09/30/24 13:44 | SA      | EET MIC |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL    | 92245  | 10/02/24 19:19 | CH      | EET MID |

Client Sample ID: S-3 (2.5')

Date Collected: 09/26/24 10:20 Date Received: 09/27/24 13:45 Lab Sample ID: 880-49112-2

**Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.97 g  | 5 mL     | 92116  | 09/30/24 10:59 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92216  | 10/01/24 16:26 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92266  | 10/01/24 16:26 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92577  | 10/03/24 18:51 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.06 g | 10.00 mL | 92044  | 09/29/24 20:42 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92508  | 10/03/24 18:51 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.96 g  | 50 mL    | 92158  | 09/30/24 13:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL    | 92245  | 10/02/24 19:25 | CH      | EET MID |

Client Sample ID: S-4 (2.5')

Date Collected: 09/26/24 10:25 Date Received: 09/27/24 13:45 Lab Sample ID: 880-49112-3

**Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.98 g  | 5 mL     | 92116  | 09/30/24 10:59 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92216  | 10/01/24 16:47 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92266  | 10/01/24 16:47 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92577  | 10/03/24 19:08 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.00 g | 10.00 mL | 92044  | 09/29/24 20:42 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92508  | 10/03/24 19:08 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.03 g  | 50 mL    | 92158  | 09/30/24 13:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL    | 92245  | 10/02/24 19:32 | CH      | EET MID |

Client Sample ID: S-16 (0-1.5')

Date Collected: 09/26/24 10:30

Date Received: 09/27/24 13:45

Lab Sample ID: 880-49112-4

**Matrix: Solid** 

|           | Batch    | Batch      |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method     | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035       |     |        | 4.95 g  | 5 mL   | 92116  | 09/30/24 10:59 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B      |     | 1      | 5 mL    | 5 mL   | 92216  | 10/01/24 17:08 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX |     | 1      |         |        | 92266  | 10/01/24 17:08 | SM      | EET MID |

Client: Crain Environmental Project/Site: Chem State #1 E FL Job ID: 880-49112-1 SDG: Lea Co., NM

Lab Sample ID: 880-49112-4 **Client Sample ID: S-16 (0-1.5')** Date Collected: 09/26/24 10:30

**Matrix: Solid** 

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM Analysis 92577 10/03/24 19:25 SM **EET MID** Total/NA Prep 8015NM Prep 10.01 g 10.00 mL 92044 09/29/24 20:42 EL **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 92508 10/03/24 19:25 TKC EET MID 50 mL Soluble 92158 09/30/24 13:44 Leach DI Leach 5.01 g SA **EET MID** 300.0 92245 10/02/24 19:38 Soluble Analysis 1 50 mL 50 mL СН **EET MID** 

Client Sample ID: S-17 (0-1.5') Lab Sample ID: 880-49112-5

Date Collected: 09/26/24 10:35 **Matrix: Solid** 

Date Received: 09/27/24 13:45

Date Received: 09/27/24 13:45

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.03 g  | 5 mL     | 92116  | 09/30/24 10:59 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92216  | 10/01/24 17:28 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92266  | 10/01/24 17:28 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92577  | 10/03/24 19:41 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.02 g | 10.00 mL | 92044  | 09/29/24 20:42 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92508  | 10/03/24 19:41 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.01 g  | 50 mL    | 92158  | 09/30/24 13:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL    | 92245  | 10/02/24 19:44 | CH      | EET MID |

Client Sample ID: S-18 (1.5') Lab Sample ID: 880-49112-6 Date Collected: 09/26/24 10:40 **Matrix: Solid** 

Date Received: 09/27/24 13:45

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.00 g  | 5 mL     | 92116  | 09/30/24 10:59 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92216  | 10/01/24 17:49 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92266  | 10/01/24 17:49 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92577  | 10/03/24 19:58 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.07 g | 10.00 mL | 92044  | 09/29/24 20:42 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92508  | 10/03/24 19:58 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.04 g  | 50 mL    | 92158  | 09/30/24 13:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL    | 92245  | 10/02/24 19:51 | CH      | EET MID |

**Client Sample ID: S-19 (0-1.5')** Lab Sample ID: 880-49112-7

Date Collected: 09/26/24 10:45 Date Received: 09/27/24 13:45

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.97 g  | 5 mL     | 92116  | 09/30/24 10:59 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92216  | 10/01/24 18:09 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92266  | 10/01/24 18:09 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92577  | 10/03/24 20:14 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.05 g | 10.00 mL | 92044  | 09/29/24 20:42 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92508  | 10/03/24 20:14 | TKC     | EET MID |

**Eurofins Midland** 

**Matrix: Solid** 

10/4/2024

Job ID: 880-49112-1 SDG: Lea Co., NM

Client: Crain Environmental Project/Site: Chem State #1 E FL

Lab Sample ID: 880-49112-7

**Client Sample ID: S-19 (0-1.5')** Date Collected: 09/26/24 10:45

Date Received: 09/27/24 13:45

Matrix: Solid

|           | Batch    | Batch    |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Soluble   | Leach    | DI Leach |     |        | 4.99 g  | 50 mL  | 92158  | 09/30/24 13:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0    |     | 1      | 50 mL   | 50 mL  | 92245  | 10/02/24 19:57 | CH      | EET MID |

Lab Sample ID: 880-49112-8

**Client Sample ID: S-20 (0-1.5')** Date Collected: 09/26/24 10:50

**Matrix: Solid** 

| Date | Conecteu. | 03120124 | 10.50 |
|------|-----------|----------|-------|
| Date | Received: | 09/27/24 | 13:45 |
|      |           |          |       |

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.02 g  | 5 mL     | 92116  | 09/30/24 10:59 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92216  | 10/01/24 18:30 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92266  | 10/01/24 18:30 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92577  | 10/03/24 20:31 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.01 g | 10.00 mL | 92044  | 09/29/24 20:42 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92508  | 10/03/24 20:31 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.01 g  | 50 mL    | 92174  | 09/30/24 15:58 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL    | 92249  | 10/01/24 23:36 | CH      | EET MID |

**Client Sample ID: S-21 (0-1.5')** 

Lab Sample ID: 880-49112-9

Date Collected: 09/26/24 10:55

**Matrix: Solid** 

Date Received: 09/27/24 13:45

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.01 g  | 5 mL     | 92116  | 09/30/24 10:59 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92216  | 10/01/24 18:50 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92266  | 10/01/24 18:50 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92577  | 10/03/24 21:03 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.05 g | 10.00 mL | 92044  | 09/29/24 20:42 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92508  | 10/03/24 21:03 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.04 g  | 50 mL    | 92174  | 09/30/24 15:58 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL    | 92249  | 10/01/24 23:53 | CH      | EET MID |

**Client Sample ID: S-22 (0-1.5')** 

Lab Sample ID: 880-49112-10

Date Collected: 09/26/24 11:00 Date Received: 09/27/24 13:45 **Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.99 g  | 5 mL     | 92116  | 09/30/24 10:59 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92216  | 10/01/24 19:11 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92266  | 10/01/24 19:11 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92577  | 10/03/24 21:19 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.04 g | 10.00 mL | 92044  | 09/29/24 20:42 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92508  | 10/03/24 21:19 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.00 g  | 50 mL    | 92174  | 09/30/24 15:58 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL    | 92249  | 10/01/24 23:58 | CH      | EET MID |

Job ID: 880-49112-1

SDG: Lea Co., NM

Client Sample ID: S-23 (1.5')

Date Collected: 09/26/24 11:05 Date Received: 09/27/24 13:45 Lab Sample ID: 880-49112-11

Matrix: Solid

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.02 g  | 5 mL     | 92116  | 09/30/24 10:59 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92216  | 10/01/24 19:31 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92266  | 10/01/24 19:31 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92577  | 10/03/24 21:35 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.09 g | 10.00 mL | 92044  | 09/29/24 20:42 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92508  | 10/03/24 21:35 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.00 g  | 50 mL    | 92174  | 09/30/24 15:58 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL    | 92249  | 10/02/24 00:03 | CH      | EET MID |

**Client Sample ID: S-24 (0-1.5')** 

Date Collected: 09/26/24 11:10

Date Received: 09/27/24 13:45

Lab Sample ID: 880-49112-12

Matrix: Solid

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.98 g  | 5 mL     | 92120  | 09/30/24 11:16 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92039  | 10/01/24 00:28 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92266  | 10/01/24 00:28 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92577  | 10/03/24 21:51 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.04 g | 10.00 mL | 92044  | 09/29/24 20:42 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92508  | 10/03/24 21:51 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.99 g  | 50 mL    | 92174  | 09/30/24 15:58 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL    | 92249  | 10/02/24 00:09 | CH      | EET MID |

**Client Sample ID: S-25 (0-1.5')** 

Date Collected: 09/26/24 11:15

Date Received: 09/27/24 13:45

**Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.01 g  | 5 mL     | 92120  | 09/30/24 11:16 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92039  | 10/01/24 00:49 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92266  | 10/01/24 00:49 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92577  | 10/03/24 22:07 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.01 g | 10.00 mL | 92044  | 09/29/24 20:42 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92508  | 10/03/24 22:07 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.01 g  | 50 mL    | 92174  | 09/30/24 15:58 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL    | 92249  | 10/02/24 00:25 | CH      | EET MID |

Client Sample ID: S-26 (0-1.5')

Date Collected: 09/26/24 11:20

Date Received: 09/27/24 13:45

Lab Sample ID: 880-49112-14

**Matrix: Solid** 

|           | Batch    | Batch      |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method     | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035       |     |        | 5.03 g  | 5 mL   | 92120  | 09/30/24 11:16 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B      |     | 1      | 5 mL    | 5 mL   | 92039  | 10/01/24 01:09 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX |     | 1      |         |        | 92266  | 10/01/24 01:09 | SM      | EET MID |

Client: Crain Environmental Project/Site: Chem State #1 E FL

Job ID: 880-49112-1 SDG: Lea Co., NM

**Client Sample ID: S-26 (0-1.5')** 

Lab Sample ID: 880-49112-14

Date Collected: 09/26/24 11:20 Date Received: 09/27/24 13:45 Matrix: Solid

| Batch    | Batch                             |  | Dil  | Initial  | Final  | Batch   | Prepared   |  |   |
|----------|-----------------------------------|--|--|--|--|---|--|--|---|
| Type     | Method                            | Run  | Factor   | Amount   | Amount   | Number  | or Analyzed  | Analyst  | Lab   |
| Analysis | 8015 NM                           |  | 1  |  |  | 92577   | 10/03/24 22:23   | SM   | EET MID   |
| Prep     | 8015NM Prep                       |  |  | 10.05 g  | 10.00 mL   | 92044   | 09/29/24 20:42   | EL   | EET MID   |
| Analysis | 8015B NM                          |  | 1  | 1 uL   | 1 uL   | 92508   | 10/03/24 22:23   | TKC  | EET MID   |
| Leach    | DI Leach                          |  |  | 5.04 g   | 50 mL  | 92174   | 09/30/24 15:58   | SA   | EET MID   |
| Analysis | 300.0                             |  | 1  | 50 mL  | 50 mL  | 92249   | 10/02/24 00:31   | CH   | EET MID   |
|          | Type Analysis Prep Analysis Leach | Type         Method           Analysis         8015 NM           Prep         8015NM Prep           Analysis         8015B NM           Leach         DI Leach | Type         Method         Run           Analysis         8015 NM           Prep         8015NM Prep           Analysis         8015B NM           Leach         DI Leach | Type         Method         Run         Factor           Analysis         8015 NM         1           Prep         8015NM Prep         Analysis         8015B NM         1           Leach         DI Leach         DI Leach | Type         Method         Run         Factor         Amount           Analysis         8015 NM         1         1           Prep         8015NM Prep         10.05 g         1           Analysis         8015B NM         1         1 uL           Leach         DI Leach         5.04 g | Type         Method         Run         Factor         Amount         Amount           Analysis         8015 NM         1         1         10.05 g         10.00 mL           Analysis         8015B NM         1         1 uL         1 uL         1 uL           Leach         DI Leach         5.04 g         50 mL | Type         Method         Run         Factor         Amount         Amount         Number           Analysis         8015 NM         1         1         92577           Prep         8015NM Prep         10.05 g         10.00 mL         92044           Analysis         8015B NM         1         1 uL         1 uL         92508           Leach         DI Leach         5.04 g         50 mL         92174 | Type         Method         Run         Factor         Amount         Amount         Number         or Analyzed           Analysis         8015 NM         1         1         92577         10/03/24 22:23           Prep         8015NM Prep         10.05 g         10.00 mL         92044         09/29/24 20:42           Analysis         8015B NM         1         1 uL         1 uL         92508         10/03/24 22:23           Leach         DI Leach         5.04 g         50 mL         92174         09/30/24 15:58 | Type         Method         Run         Factor         Amount         Amount         Number         or Analyzed         Analyst           Analysis         8015 NM         1         1         92577         10/03/24 22:23         SM           Prep         8015NM Prep         10.05 g         10.00 mL         92044         09/29/24 20:42         EL           Analysis         8015B NM         1         1 uL         1 uL         92508         10/03/24 22:23         TKC           Leach         DI Leach         5.04 g         50 mL         92174         09/30/24 15:58         SA |

Lab Sample ID: 880-49112-15

Client Sample ID: S-27 (0-1.5') Date Collected: 09/26/24 11:25 **Matrix: Solid** 

Date Received: 09/27/24 13:45

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.98 g  | 5 mL     | 92120  | 09/30/24 11:16 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92039  | 10/01/24 01:30 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92266  | 10/01/24 01:30 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92577  | 10/03/24 22:39 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.03 g | 10.00 mL | 92044  | 09/29/24 20:42 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92508  | 10/03/24 22:39 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.95 g  | 50 mL    | 92174  | 09/30/24 15:58 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL    | 92249  | 10/02/24 00:36 | CH      | EET MID |

Lab Sample ID: 880-49112-16 Client Sample ID: S-28 (1.5') **Matrix: Solid** 

Date Collected: 09/26/24 11:30 Date Received: 09/27/24 13:45

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.01 g  | 5 mL     | 92120  | 09/30/24 11:16 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92039  | 10/01/24 01:50 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92266  | 10/01/24 01:50 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92577  | 10/03/24 22:55 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.04 g | 10.00 mL | 92044  | 09/29/24 20:42 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92508  | 10/03/24 22:55 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.03 g  | 50 mL    | 92174  | 09/30/24 15:58 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL    | 92249  | 10/02/24 00:42 | CH      | EET MID |

Lab Sample ID: 880-49112-17 **Client Sample ID: S-29 (0-1.5')** 

Date Collected: 09/26/24 11:35 Date Received: 09/27/24 13:45

| _                    | Batch            | Batch                   |     | Dil    | Initial         | Final            | Batch          | Prepared                         |           |                    |
|----------------------|------------------|-------------------------|-----|--------|-----------------|------------------|----------------|----------------------------------|-----------|--------------------|
| Prep Type            | Type             | Method                  | Run | Factor | Amount          | Amount           | Number         | or Analyzed                      | Analyst   | Lab                |
| Total/NA             | Prep             | 5035                    |     |        | 4.97 g          | 5 mL             | 92120          | 09/30/24 11:16                   | MNR       | EET MID            |
| Total/NA             | Analysis         | 8021B                   |     | 1      | 5 mL            | 5 mL             | 92039          | 10/01/24 02:10                   | MNR       | EET MID            |
| Total/NA             | Analysis         | Total BTEX              |     | 1      |                 |                  | 92266          | 10/01/24 02:10                   | SM        | EET MID            |
| Total/NA             | Analysis         | 8015 NM                 |     | 1      |                 |                  | 92577          | 10/03/24 23:11                   | SM        | EET MID            |
| Total/NA<br>Total/NA | Prep<br>Analysis | 8015NM Prep<br>8015B NM |     | 1      | 10.06 g<br>1 uL | 10.00 mL<br>1 uL | 92044<br>92508 | 09/29/24 20:42<br>10/03/24 23:11 | EL<br>TKC | EET MID<br>EET MID |

**Eurofins Midland** 

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10/4/2024

**Matrix: Solid** 

Client: Crain Environmental Project/Site: Chem State #1 E FL

Job ID: 880-49112-1 SDG: Lea Co., NM

**Client Sample ID: S-29 (0-1.5')** 

Date Collected: 09/26/24 11:35 Date Received: 09/27/24 13:45 Lab Sample ID: 880-49112-17

Matrix: Solid

|           | Batch    | Batch    |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Soluble   | Leach    | DI Leach |     |        | 5.02 g  | 50 mL  | 92174  | 09/30/24 15:58 | SA      | EET MID |
| Soluble   | Analysis | 300.0    |     | 1      | 50 mL   | 50 mL  | 92249  | 10/02/24 00:47 | CH      | EET MID |

**Client Sample ID: S-30 (0-1.5')** Lab Sample ID: 880-49112-18

Date Collected: 09/26/24 11:40 Date Received: 09/27/24 13:45

**Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.97 g  | 5 mL     | 92120  | 09/30/24 11:16 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92039  | 10/01/24 02:31 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92266  | 10/01/24 02:31 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92577  | 10/03/24 23:27 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.02 g | 10.00 mL | 92044  | 09/29/24 20:42 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92508  | 10/03/24 23:27 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.00 g  | 50 mL    | 92174  | 09/30/24 15:58 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL    | 92249  | 10/02/24 00:52 | CH      | EET MID |

**Client Sample ID: S-31 (0-1.5')** 

Lab Sample ID: 880-49112-19

**Matrix: Solid** 

Date Collected: 09/26/24 11:45 Date Received: 09/27/24 13:45

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.01 g  | 5 mL     | 92120  | 09/30/24 11:16 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92039  | 10/01/24 02:51 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92266  | 10/01/24 02:51 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92577  | 10/03/24 17:28 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.01 g | 10.00 mL | 92044  | 09/29/24 20:42 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92508  | 10/03/24 17:28 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.04 g  | 50 mL    | 92174  | 09/30/24 15:58 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL    | 92249  | 10/02/24 01:09 | CH      | EET MID |

Laboratory References:

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

# **Accreditation/Certification Summary**

Client: Crain Environmental Job ID: 880-49112-1
Project/Site: Chem State #1 E FL SDG: Lea Co., NM

### **Laboratory: Eurofins Midland**

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

| Authority       | Progra                          | am                              | Identification Number                     | Expiration Date        |
|-----------------|---------------------------------|---------------------------------|---|------------------------|
| Texas           | NELA                            | Р                               | T104704400                                | 06-30-25               |
| • ,             | are included in this report, bu | ut the laboratory is not certif | fied by the governing authority. This lis | t may include analytes |
| Analysis Method | Prep Method                     | Matrix                          | Analyte                                   |                        |
| 8015 NM         |                                 | Solid                           | Total TPH                                 |                        |
| Total BTEX      |                                 | Solid                           | Total BTEX                                |                        |

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# **Method Summary**

Client: Crain Environmental Project/Site: Chem State #1 E FL Job ID: 880-49112-1 SDG: Lea Co., 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    |
| 5035        | Closed System 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

Eurofins Midland

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# **Sample Summary**

Client: Crain Environmental Project/Site: Chem State #1 E FL Job ID: 880-49112-1 SDG: Lea Co., NM

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth  |
|---------------|------------------|--------|----------------|----------------|--------|
| 880-49112-1   | S-2 (0-1.5')     | Solid  | 09/26/24 10:15 | 09/27/24 13:45 | 0-1.5' |
| 880-49112-2   | S-3 (2.5')       | Solid  | 09/26/24 10:20 | 09/27/24 13:45 | 1.5'   |
| 880-49112-3   | S-4 (2.5')       | Solid  | 09/26/24 10:25 | 09/27/24 13:45 | 1.5'   |
| 880-49112-4   | S-16 (0-1.5')    | Solid  | 09/26/24 10:30 | 09/27/24 13:45 | 0-1.5' |
| 880-49112-5   | S-17 (0-1.5')    | Solid  | 09/26/24 10:35 | 09/27/24 13:45 | 0-1.5' |
| 880-49112-6   | S-18 (1.5')      | Solid  | 09/26/24 10:40 | 09/27/24 13:45 | 1.5'   |
| 880-49112-7   | S-19 (0-1.5')    | Solid  | 09/26/24 10:45 | 09/27/24 13:45 | 0-1.5' |
| 880-49112-8   | S-20 (0-1.5')    | Solid  | 09/26/24 10:50 | 09/27/24 13:45 | 0-1.5' |
| 880-49112-9   | S-21 (0-1.5')    | Solid  | 09/26/24 10:55 | 09/27/24 13:45 | 0-1.5' |
| 880-49112-10  | S-22 (0-1.5')    | Solid  | 09/26/24 11:00 | 09/27/24 13:45 | 0-1.5' |
| 880-49112-11  | S-23 (1.5')      | Solid  | 09/26/24 11:05 | 09/27/24 13:45 | 1.5'   |
| 880-49112-12  | S-24 (0-1.5')    | Solid  | 09/26/24 11:10 | 09/27/24 13:45 | 0-1.5' |
| 880-49112-13  | S-25 (0-1.5')    | Solid  | 09/26/24 11:15 | 09/27/24 13:45 | 0-1.5' |
| 880-49112-14  | S-26 (0-1.5')    | Solid  | 09/26/24 11:20 | 09/27/24 13:45 | 0-1.5' |
| 880-49112-15  | S-27 (0-1.5')    | Solid  | 09/26/24 11:25 | 09/27/24 13:45 | 0-1.5' |
| 880-49112-16  | S-28 (1.5')      | Solid  | 09/26/24 11:30 | 09/27/24 13:45 | 1.5'   |
| 880-49112-17  | S-29 (0-1.5')    | Solid  | 09/26/24 11:35 | 09/27/24 13:45 | 0-1.5' |
| 880-49112-18  | S-30 (0-1.5')    | Solid  | 09/26/24 11:40 | 09/27/24 13:45 | 0-1.5' |
| 880-49112-19  | S-31 (0-1.5')    | Solid  | 09/26/24 11:45 | 09/27/24 13:45 | 0-1.5' |

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| 880-49112 Chain of Custody  www.xenco.com Page / of 2  | mu                      | □ PRP□ Brownfields□ RRC□ Superfund□ |                     | Level III   PST/UST   TRRP   Level IV | D ADaPT Other:        | Preservative Codes      | None: NO DI Water: H <sub>2</sub> O | Cool: Cool MeOH: Me | HCL: HC HNO 3: HN   |                             | NaHSO 4: NABIS           | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> | Zn Acetate+NaOH: Zn             | NaOH+Ascorbic Acid: SAPC | Sample Comments       |               |      |      |             |        |              |              |             | Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Zn<br>Hg: 1631/245.1/7470 /7471   |  | Received by: (Signature)   Date/Time     |         |    |   |
|--|-------------------------|-------------------------------------|---------------------|---------------------------------------|-----------------------|-------------------------|-------------------------------------|---------------------|---|-----------------------------|--------------------------|---|---------------------------------|--------------------------|-----------------------|---------------|------|------|-------------|--------|--------------|--------------|-------------|--|--|--|---------|----|---|
| Wo   |                         | Program: UST/PST                    | roje                | Reporting: Level II                   | Deliverables: EDD     | REQUEST                 |                                     |                     |   |                             |                          |   |                                 |                          |                       |               |      |      |             |        |              |              |             |  | rd terms and conditions<br>ces beyond the control<br>d unless previously negotiated.   | unature) Receive                         |         |    |   |
| Chain of Custody  Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 | Chris Gadolu            | letare"                             | 310 W. NAVI 54. 300 | Midland TX 79701                      | @gmail.con            | ANALYSIS REQUEST        |                                     |                     |   |                             |                          |   |                                 |                          | HL 49                 | X             |      |      |             |        |              |              | →<br>→      | Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U | ns Xenco, its affiliates and subcontractons. It assigns standar<br>se incurred by the client if such losses are due to circumstan<br>rofins Xenco, but not analyzed. These terms will be enforced  | Date/Time   Relinquished by: (Signature) | 302     | 4  | 9 |
| Houston, TX (2<br>Midland, TX (432)<br>EL Paso, TX (915<br>Hobbs, NM (573  | Bill to: (if different) | Company Name:                       | Address:            | City, State ZIP:                      | Cirol crain           | Turn Around             | Rush Code                           |                     | TAT starts the day received by the lab, if received by 4:30pm | T                           | Sme                      | l,  | 3                               | 3-1                      | Depth Grab/ # of Cont | 0-1.5' (, 1   | 1.5' | 1.5. | 0-1.5       | 0-7.5' |              | 0.15'        |             |  | Jer from client company to Eurofi<br>onsibility for any losses or expense<br>for each sample submitted to Eu   | (e)                                      | 6       | // |   |
| Environment Testing Xenco  | ratu Cain               | ain Chiran mental                   | 0                   | 18550 TX 79761                        | 575) 441- 7244 Email: | "You State # / E FL Tum | Routine                             | . Co. NM Due Date:  | Cain  | Temn Blank: Yet No Wer Ice. | Thermometer              | Yes No (N/A Correction Factor:                                    | Yes No N/A Temperature Reading: | Corrected Temperature:   | Matrix                | 5 9/2012 1015 |      |      |             | 1035   |              | 105%         | <b>&gt;</b> | 8RCR/  | Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum change of S85.00will be anoiled to each protect and a change of S87 for each sample submitted to Eurofin Xenco. An infinitum change of S85.00will be anoiled to each protect and a change of S87 for each sample submitted to Eurofin Xenco. An infinitum change of S85.00will be anoiled to each protect and a change of S87 for each sample submitted to Eurofin Xenco. An infinitum change of S85.00will be anoiled to each protect and a change of S87 for each sample submitted to Eurofin Xenco. An infinitum change of S85.00will be anoiled to each protect and a change of S87 for each sample submitted to Eurofin Xenco. An infinitum change of S85.00will be applied to each protect and a change of S87 for each sample submitted to Eurofin Xenco. An infinitum change of S85.00will be applied to each protect and a change of S87 for each sample submitted to Eurofin Xenco. But not analyzed. These terms will be enforced unless previously. | ture)   Received by: (Signature)         |         |    | 7 |
| 💸 eurofins   | Project Manager:        | Company Name:                       | Address: 2925       | City, State ZIP:                      | Phone: (57;           | Project Name: Usm       | Project Number:                     | Project Location:   | Sampler's Name:   | SAMPLE RECEIPT              | Samples Received Intact: | Cooler Custody Seals:   | Sample Custody Seals:           | Total Containers:        | Sample Identification | 5-2 (0-1.5)   | 196  |      | 5-16 (0-1.5 | 17 (1  | 5-19 (0-1.5) | 5-21 (0-1.5) | ~           | Total 200.7 / 6010 200.8 / 6020:<br>Circle Method(s) and Metal(s) to be analyzed   | Votice: Signature of this document and first service. Eurofins Xenco will be liable filterofins Xenco. A minimum charge of   | Relinanished by Sanature                 | wat son | 0  |   |

Work Order No:

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

**Environment Testing** 

💸 eurofins

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Chain of Custody

Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

levised Date: 08/25/2020 Rev. 2020.2

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## **Login Sample Receipt Checklist**

Client: Crain Environmental Job Number: 880-49112-1 SDG Number: Lea Co., NM

Login Number: 49112 List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

| 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: Cindy Crain Crain Environmental 2925 E. 17th St. Odessa, Texas 79761

Generated 10/2/2024 12:05:49 PM

**JOB DESCRIPTION** 

Chem State #1 S FL Lea Co., NM

**JOB NUMBER** 

880-49103-1

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**

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Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 \_

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Client: Crain Environmental
Project/Site: Chem State #1 S FL

Laboratory Job ID: 880-49103-1 SDG: Lea Co., NM

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### **Definitions/Glossary**

Client: Crain Environmental Job ID: 880-49103-1
Project/Site: Chem State #1 S FL SDG: Lea Co., NM

**Qualifiers** 

**GC VOA** 

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

S1- Surrogate recovery exceeds control limits, low biased.
S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

**HPLC/IC** 

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.

Eisted 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

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### **Case Narrative**

Client: Crain Environmental Job ID: 880-49103-1 Project: Chem State #1 S FL

**Eurofins Midland** Job ID: 880-49103-1

#### Job Narrative 880-49103-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 9/27/2024 1:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C.

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-7 (2.5') (880-49103-1), S-32 (0-2.5') (880-49103-2), S-33 (0-2.5') (880-49103-3), S-34 (0-2.5') (880-49103-4) and S-35 (0-2.5') (880-49103-5).

#### **GC VOA**

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-92061 recovered above the upper control limit for Ethylbenzene and m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-92061/20).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-92061 recovered above the upper control limit for Ethylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-92061/51).

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

### **Diesel Range Organics**

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-91963 and analytical batch 880-92182 was outside the control limits.

Method 8015MOD NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: S-33 (0-2.5') (880-49103-3). Percent recoveries are based on the amount spiked.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-91963/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The continuing calibration verification (CCV) associated with batch 880-92182 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-92182/48).

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.

Matrix: Solid

Lab Sample ID: 880-49103-1

# **Client Sample Results**

Client: Crain Environmental Job ID: 880-49103-1
Project/Site: Chem State #1 S FL SDG: Lea Co., NM

Client Sample ID: S-7 (2.5')

Date Collected: 09/26/24 12:00 Date Received: 09/27/24 13:45

Sample Depth: 2.5'

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 11:13 | 10/01/24 05:04 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 11:13 | 10/01/24 05:04 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 11:13 | 10/01/24 05:04 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 09/30/24 11:13 | 10/01/24 05:04 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 09/30/24 11:13 | 10/01/24 05:04 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 09/30/24 11:13 | 10/01/24 05:04 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 92        |           | 70 - 130 |     |       |   | 09/30/24 11:13 | 10/01/24 05:04 | 1       |
| 1,4-Difluorobenzene (Surr)  | 85        |           | 70 - 130 |     |       |   | 09/30/24 11:13 | 10/01/24 05:04 | 1       |

| Analyte    |          | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 10/01/24 05:04 | 1       |
| _          |          |           |         |     |       |   |          |                |         |

| Method: SW846 8015 NM - Diesel Ran | ge Organ | ics (DRO) (G | C)   |     |       |   |          |                |         |
|------------------------------------|----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Analyte                            | Result   | Qualifier    | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Total TPH                          | <49.7    | U            | 49.7 |     | mg/Kg |   |          | 10/01/24 04:02 | 1       |

| Method: SW846 8015B NM - Diese       | i: SW846 8015B NM - Diesel Range Organics (DRO) (GC) |           |        |     |       |   |                |                |         |  |  |  |  |
|--------------------------------------|--|-----------|--------|-----|-------|---|----------------|----------------|---------|--|--|--|--|
| Analyte                              | Result   | Qualifier | RL     | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |  |  |  |  |
| Gasoline Range Organics              | <49.7  | U         | 49.7   |     | mg/Kg |   | 09/27/24 15:27 | 10/01/24 04:02 | 1       |  |  |  |  |
| (GRO)-C6-C10                         | -10.7  |           | 40.7   |     |       |   | 00/07/04 45:07 | 40/04/04 04:00 | 4       |  |  |  |  |
| Diesel Range Organics (Over C10-C28) | <49.7  | U         | 49.7   |     | mg/Kg |   | 09/27/24 15:27 | 10/01/24 04:02 | 1       |  |  |  |  |
| Oil Range Organics (Over C28-C36)    | <49.7  | U         | 49.7   |     | mg/Kg |   | 09/27/24 15:27 | 10/01/24 04:02 | 1       |  |  |  |  |
| Surrogate                            | %Recovery  | Qualifier | Limits |     |       |   | Prepared       | Analyzed       | Dil Fac |  |  |  |  |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 80        |           | 70 - 130 | 09/27/24 15:27 | 10/01/24 04:02 | 1       |
| o-Terphenyl    | 87        |           | 70 - 130 | 09/27/24 15:27 | 10/01/24 04:02 | 1       |
|                |           |           |          |                |                |         |

| Method: EPA 300.0 - Anions, Ion C | nromatograpny - Soluble |      |          |   |          |                |         |
|-----------------------------------|-------------------------|------|----------|---|----------|----------------|---------|
| Analyte                           | Result Qualifier        | RL   | MDL Unit | D | Prepared | Analyzed       | Dil Fac |
| Chloride                          | 27.9                    | 5.04 | mg/Kg    |   |          | 10/01/24 18:02 | 1       |

Client Sample ID: S-32 (0-2.5')

Date Collected: 09/26/24 12:05

Lab Sample ID: 880-49103-2

Matrix: Solid

Date Received: 09/27/24 13:45 Sample Depth: 0-2.5'

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 09/30/24 11:13 | 10/01/24 05:24 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 09/30/24 11:13 | 10/01/24 05:24 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 09/30/24 11:13 | 10/01/24 05:24 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 09/30/24 11:13 | 10/01/24 05:24 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 09/30/24 11:13 | 10/01/24 05:24 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 09/30/24 11:13 | 10/01/24 05:24 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 87        |           | 70 - 130 |     |       |   | 09/30/24 11:13 | 10/01/24 05:24 | 1       |

### Client Sample Results

Client: Crain Environmental Project/Site: Chem State #1 S FL Job ID: 880-49103-1

SDG: Lea Co., NM

Client Sample ID: S-32 (0-2.5')

Date Collected: 09/26/24 12:05 Date Received: 09/27/24 13:45

Sample Depth: 0-2.5'

Lab Sample ID: 880-49103-2

Lab Sample ID: 880-49103-3

**Matrix: Solid** 

Matrix: Solid

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

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 09/30/24 11:13 1,4-Difluorobenzene (Surr) 82 10/01/24 05:24

**Method: TAL SOP Total BTEX - Total BTEX Calculation** 

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00398 0.00398 10/01/24 05:24 mg/Kg

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

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac **Total TPH** 50.0 10/01/24 04:18 274 mg/Kg

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

**MDL** Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <50.0 U 50.0 mg/Kg Gasoline Range Organics 09/27/24 15:27 10/01/24 04:18 (GRO)-C6-C10 50.0 09/27/24 15:27 10/01/24 04:18 **Diesel Range Organics (Over** 274 mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 09/27/24 15:27 10/01/24 04:18

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 81 70 - 130 09/27/24 15:27 10/01/24 04:18 10/01/24 04:18 84 70 - 130 09/27/24 15:27 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 4.97 10/01/24 18:07 Chloride 24.7 mg/Kg

Client Sample ID: S-33 (0-2.5')

Date Collected: 09/26/24 12:10 Date Received: 09/27/24 13:45

Sample Depth: 0-2.5'

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 09/30/24 11:13 10/01/24 05:45 Toluene <0.00200 U 0.00200 09/30/24 11:13 10/01/24 05:45 mg/Kg Ethylbenzene <0.00200 U 0.00200 09/30/24 11:13 10/01/24 05:45 mg/Kg 0.00399 09/30/24 11:13 10/01/24 05:45 m-Xylene & p-Xylene < 0.00399 U mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 09/30/24 11:13 10/01/24 05:45 Xylenes, Total <0.00399 U 0.00399 mg/Kg 09/30/24 11:13 10/01/24 05:45

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 130 4-Bromofluorobenzene (Surr) 92 09/30/24 11:13 10/01/24 05:45 1,4-Difluorobenzene (Surr) 95 70 - 130 09/30/24 11:13 10/01/24 05:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier MDL D RL Unit Prepared Analyzed Dil Fac Total BTEX <0.00399 0.00399 10/01/24 05:45 mg/Kg

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <49.9 U Total TPH 49.9 10/01/24 04:32 mg/Kg

**Matrix: Solid** 

Dil Fac

Lab Sample ID: 880-49103-3

### **Client Sample Results**

Client: Crain Environmental

Project/Site: Chem State #1 S FL

SDG: Lea Co., NM

**Client Sample ID: S-33 (0-2.5')** 

Date Collected: 09/26/24 12:10 Date Received: 09/27/24 13:45

Sample Depth: 0-2.5'

| Г., .,  | Marked Burger Code Dawn Consider (DDC) (CC) |           |      |     |       |   |                |                |  |  |  |  |  |
|---|---|-----------|------|-----|-------|---|----------------|----------------|--|--|--|--|--|
| Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) |   |           |      |     |       |   |                |                |  |  |  |  |  |
| Analyte   | Result                                      | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       |  |  |  |  |  |
| Gasoline Range Organics                                   | <49.9                                       | U         | 49.9 |     | mg/Kg | _ | 09/27/24 15:27 | 10/01/24 04:32 |  |  |  |  |  |

(GRO)-C6-C10

Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 09/27/24 15:27 10/01/24 04:32 C10-C28)

Oil Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 09/27/24 15:27 10/01/24 04:32

%Recovery Qualifier Limits Analyzed Dil Fac Surrogate Prepared S1+ 70 - 130 09/27/24 15:27 10/01/24 04:32 1-Chlorooctane 131 o-Terphenyl 132 S1+ 70 - 130 09/27/24 15:27 10/01/24 04:32

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Chloride 20.7 4.96 mg/Kg 10/01/24 18:12 1

Client Sample ID: S-34 (0-2.5')

Date Collected: 09/26/24 12:15

Lab Sample ID: 880-49103-4

Matrix: Solid

Date Received: 09/27/24 13:45

Sample Depth: 0-2.5'

| Analyte             | Result Q   | Qualifier RL | MDL Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|------------|--------------|----------|---|----------------|----------------|---------|
| Benzene             | <0.00200 U | 0.00200      | mg/Kg    |   | 09/30/24 11:13 | 10/01/24 06:05 | 1       |
| Toluene             | <0.00200 U | 0.00200      | mg/Kg    |   | 09/30/24 11:13 | 10/01/24 06:05 | 1       |
| Ethylbenzene        | <0.00200 U | 0.00200      | mg/Kg    |   | 09/30/24 11:13 | 10/01/24 06:05 | 1       |
| m-Xylene & p-Xylene | <0.00401 U | 0.00401      | mg/Kg    |   | 09/30/24 11:13 | 10/01/24 06:05 | 1       |
| o-Xylene            | <0.00200 U | 0.00200      | mg/Kg    |   | 09/30/24 11:13 | 10/01/24 06:05 | 1       |
| Xylenes, Total      | <0.00401 U | 0.00401      | mg/Kg    |   | 09/30/24 11:13 | 10/01/24 06:05 | 1       |

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 100 70 - 130 10/01/24 06:05 09/30/24 11:13 87 1,4-Difluorobenzene (Surr) 70 - 130 10/01/24 06:05 09/30/24 11:13

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Prepared

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total BTEX
 <0.00401</td>
 U
 0.00401
 mg/Kg
 10/01/24 06:05
 1

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

 Analyte
 Result
 Qualifier
 RL
 MDL unit
 D mg/Kg
 Prepared
 Analyzed
 Dil Fac

 Total TPH
 309
 50.0
 mg/Kg
 10/01/24 04:48
 1

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

| modical criticis cores in Siccorrange organics (Site) |        |           |      |     |       |   |                |                |         |
|---|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics                               | <50.0  | U         | 50.0 |     | mg/Kg |   | 09/27/24 15:27 | 10/01/24 04:48 | 1       |
| (GRO)-C6-C10  |        |           |      |     |       |   |                |                |         |
| Diesel Range Organics (Over                           | 309    |           | 50.0 |     | mg/Kg |   | 09/27/24 15:27 | 10/01/24 04:48 | 1       |
| C10-C28)  |        |           |      |     |       |   |                |                |         |
| Oil Range Organics (Over C28-C36)                     | <50.0  | U         | 50.0 |     | mg/Kg |   | 09/27/24 15:27 | 10/01/24 04:48 | 1       |
|   |        |           |      |     |       |   |                |                |         |

| Surro | ogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------|------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chi | lorooctane | 88        |           | 70 - 130 | 09/27/24 15:27 | 10/01/24 04:48 | 1       |
| o-Ter | rphenyl    | 99        |           | 70 - 130 | 09/27/24 15:27 | 10/01/24 04:48 | 1       |

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### **Client Sample Results**

Client: Crain Environmental Project/Site: Chem State #1 S FL

Job ID: 880-49103-1

SDG: Lea Co., NM

Client Sample ID: S-34 (0-2.5')

Date Collected: 09/26/24 12:15

Sample Depth: 0-2.5'

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble |        |           |      |     |       |   |          |                |         |
|--|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride   | 20.1   |           | 4.99 |     | mg/Kg |   |          | 10/01/24 18:29 | 1       |

Client Sample ID: S-35 (0-2.5') Lab Sample ID: 880-49103-5 **Matrix: Solid** 

Date Collected: 09/26/24 12:20 Date Received: 09/27/24 13:45

Sample Depth: 0-2.5'

C10-C28)

Surrogate

Analyte

Chloride

Oil Range Organics (Over C28-C36)

| Analyte  | Result   | Qualifier  | RL  | MDL | Unit                    | D        | Prepared                 | Analyzed   | Dil Fac          |
|--|--|--|---|-----|-------------------------|----------|--------------------------|--|------------------|
| Benzene  | <0.00199   | U  | 0.00199   |     | mg/Kg                   |          | 09/30/24 11:13           | 10/01/24 06:26   | 1                |
| Toluene  | <0.00199   | U  | 0.00199   |     | mg/Kg                   |          | 09/30/24 11:13           | 10/01/24 06:26   | 1                |
| Ethylbenzene   | <0.00199   | U  | 0.00199   |     | mg/Kg                   |          | 09/30/24 11:13           | 10/01/24 06:26   | 1                |
| m-Xylene & p-Xylene  | <0.00398   | U  | 0.00398   |     | mg/Kg                   |          | 09/30/24 11:13           | 10/01/24 06:26   | 1                |
| o-Xylene   | <0.00199   | U  | 0.00199   |     | mg/Kg                   |          | 09/30/24 11:13           | 10/01/24 06:26   | 1                |
| Xylenes, Total   | <0.00398   | U  | 0.00398   |     | mg/Kg                   |          | 09/30/24 11:13           | 10/01/24 06:26   | 1                |
| Surrogate  | %Recovery  | Qualifier  | Limits  |     |                         |          | Prepared                 | Analyzed   | Dil Fac          |
| 4-Bromofluorobenzene (Surr)  | 100  |  | 70 - 130  |     |                         |          | 09/30/24 11:13           | 10/01/24 06:26   | 1                |
|  |  |  | 70 400  |     |                         |          | 00/00/01/11/10           | 10/01/01 00 00   |                  |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX   | - Total BTEX Cald  | culation   | 70 - 130  |     |                         |          | 09/30/24 11:13           | 10/01/24 06:26   | 1                |
| , <b>,</b> ,   | - Total BTEX Cald  | culation<br>Qualifier                                    | 70 - 130<br>RL                                  | MDL | Unit                    | D        | 09/30/24 11:13  Prepared | 10/01/24 06:26  Analyzed                                   | 7<br>Dil Fac     |
| Method: TAL SOP Total BTEX   | - Total BTEX Cald  | Qualifier  |   | MDL | Unit<br>mg/Kg           | <u>D</u> |                          |  | ,                |
| Method: TAL SOP Total BTEX Analyte Total BTEX  | - Total BTEX Calc Result <0.00398  | <b>Qualifier</b><br>U                                    | RL<br>0.00398                                   | MDL |                         | <u>D</u> |                          | Analyzed   | •                |
| Method: TAL SOP Total BTEX Analyte   | - Total BTEX Calc Result < 0.00398 sel Range Organ                                     | <b>Qualifier</b><br>U                                    | RL<br>0.00398                                   |     |                         | <u>D</u> |                          | Analyzed   | Dil Fac          |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die   | - Total BTEX Calc Result < 0.00398 sel Range Organ                                     | Qualifier U ics (DRO) (Gualifier                         | RL  |     | mg/Kg                   |          | Prepared                 | Analyzed 10/01/24 06:26                                    | Dil Fac          |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte   | - Total BTEX Calc Result <0.00398 sel Range Organ Result <49.9                         | Qualifier U ics (DRO) ( Qualifier U                      | RL 0.00398                                      |     | mg/Kg                   |          | Prepared                 | Analyzed 10/01/24 06:26 Analyzed                           | Dil Fac          |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH                                     | - Total BTEX Calc Result <0.00398 sel Range Organ Result <49.9                         | Qualifier U ics (DRO) ( Qualifier U                      | RL 0.00398                                      |     | mg/Kg  Unit mg/Kg       |          | Prepared                 | Analyzed 10/01/24 06:26 Analyzed                           | Dil Fac  Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D         | - Total BTEX Calc Result <0.00398 sel Range Organ Result <49.9                         | Qualifier U ics (DRO) (Qualifier U inics (DRO) Qualifier | RL 0.00398 ———————————————————————————————————— | MDL | mg/Kg  Unit mg/Kg       | <u>D</u> | Prepared Prepared        | Analyzed 10/01/24 06:26  Analyzed 10/01/24 05:02           | Dil Fac  Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D Analyte | - Total BTEX Calc Result <0.00398 sel Range Organ Result <49.9 iesel Range Orga Result | Qualifier U ics (DRO) (Qualifier U inics (DRO) Qualifier | RL 0.00398  GC) RL 49.9  (GC) RL                | MDL | mg/Kg  Unit mg/Kg  Unit | <u>D</u> | Prepared Prepared        | Analyzed 10/01/24 06:26  Analyzed 10/01/24 05:02  Analyzed | ,                |

| 1-Chlorooctane                         | 84                 | 70 - 130 | 09/27/24 15:27 | 10/01/24 05:02 |   |
|--|--------------------|----------|----------------|----------------|---|
| o-Terphenyl                            | 87                 | 70 - 130 | 09/27/24 15:27 | 10/01/24 05:02 | 1 |
| _<br>Method: EPA 300.0 - Anions, Ion C | hromatography - Sc | oluble   |                |                |   |

RL

5.04

Limits

49.9

mg/Kg

MDL Unit

mg/Kg

<49.9 U

%Recovery Qualifier

Result Qualifier

31.5

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10/01/24 05:02

Analyzed

Analyzed

10/01/24 18:34

09/27/24 15:27

Prepared

Prepared

D

Lab Sample ID: 880-49103-4 Matrix: Solid Date Received: 09/27/24 13:45

Dil Fac

Dil Fac

### **Surrogate Summary**

Client: Crain Environmental Job ID: 880-49103-1 Project/Site: Chem State #1 S FL SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

|                    |                        | BFB1     | DFBZ1    | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|----------|--|
| Lab Sample ID      | Client Sample ID       | (70-130) | (70-130) |  |
| 880-49103-1        | S-7 (2.5')             | 92       | 85       |  |
| 880-49103-2        | S-32 (0-2.5')          | 87       | 82       |  |
| 880-49103-3        | S-33 (0-2.5')          | 92       | 95       |  |
| 880-49103-4        | S-34 (0-2.5')          | 100      | 87       |  |
| 880-49103-5        | S-35 (0-2.5')          | 100      | 89       |  |
| LCS 880-92119/1-A  | Lab Control Sample     | 114      | 113      |  |
| LCSD 880-92119/2-A | Lab Control Sample Dup | 109      | 124      |  |
| MB 880-92092/5-A   | Method Blank           | 79       | 99       |  |
| MB 880-92119/5-A   | Method Blank           | 80       | 100      |  |
| Surrogate Legend   |                        |          |          |  |

DFBZ = 1,4-Difluorobenzene (Surr)

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

Prep Type: Total/NA **Matrix: Solid** 

|                    |                        |          |          | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|----------|--|
|                    |                        | 1CO1     | OTPH1    |  |
| Lab Sample ID      | Client Sample ID       | (70-130) | (70-130) |  |
| 880-49103-1        | S-7 (2.5')             | 80       | 87       |  |
| 880-49103-2        | S-32 (0-2.5')          | 81       | 84       |  |
| 880-49103-3        | S-33 (0-2.5')          | 131 S1+  | 132 S1+  |  |
| 880-49103-4        | S-34 (0-2.5')          | 88       | 99       |  |
| 880-49103-5        | S-35 (0-2.5')          | 84       | 87       |  |
| LCS 880-91963/2-A  | Lab Control Sample     | 117      | 113      |  |
| LCSD 880-91963/3-A | Lab Control Sample Dup | 133 S1+  | 130      |  |
| MB 880-91963/1-A   | Method Blank           | 65 S1-   | 71       |  |

**Surrogate Legend** 

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Crain Environmental Project/Site: Chem State #1 S FL

Job ID: 880-49103-1 SDG: Lea Co., NM

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

Lab Sample ID: MB 880-92092/5-A

**Matrix: Solid** 

Analysis Batch: 92061

| Client Sample | ID: | Method | Blank |
|---------------|-----|--------|-------|
|---------------|-----|--------|-------|

**Prep Type: Total/NA** 

Prep Batch: 92092

|                     | MB       | MB        |         |     |       |   |                |                |         |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 09/30/24 10:04 | 09/30/24 11:43 |         |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 09/30/24 10:04 | 09/30/24 11:43 |         |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 09/30/24 10:04 | 09/30/24 11:43 |         |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 09/30/24 10:04 | 09/30/24 11:43 |         |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 09/30/24 10:04 | 09/30/24 11:43 |         |
| Xylenes, Total      | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 09/30/24 10:04 | 09/30/24 11:43 |         |
|                     |          |           |         |     |       |   |                |                |         |

MB MB

| Surrogate                   | %Recovery | Qualifier | Limits   |    | Prepared      | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----|---------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 79        |           | 70 - 130 | 0. | 9/30/24 10:04 | 09/30/24 11:43 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 | 0  | 9/30/24 10:04 | 09/30/24 11:43 | 1       |

Lab Sample ID: MB 880-92119/5-A Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA

Analysis Batch: 92061 Prep Batch: 92119

|                     | МВ        | МВ        |         |     |       |   |                |                |         |
|---------------------|-----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Analyte             | Result    | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Benzene             | <0.00200  | U         | 0.00200 |     | mg/Kg |   | 09/30/24 11:13 | 09/30/24 22:30 | 1       |
| Toluene             | <0.00200  | U         | 0.00200 |     | mg/Kg |   | 09/30/24 11:13 | 09/30/24 22:30 | 1       |
| Ethylbenzene        | <0.00200  | U         | 0.00200 |     | mg/Kg |   | 09/30/24 11:13 | 09/30/24 22:30 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U         | 0.00400 |     | mg/Kg |   | 09/30/24 11:13 | 09/30/24 22:30 | 1       |
| o-Xylene            | <0.00200  | U         | 0.00200 |     | mg/Kg |   | 09/30/24 11:13 | 09/30/24 22:30 | 1       |
| Xylenes, Total      | < 0.00400 | U         | 0.00400 |     | mg/Kg |   | 09/30/24 11:13 | 09/30/24 22:30 | 1       |

мв мв

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 80        |           | 70 - 130 | 09/30/24 11:13 | 09/30/24 22:30 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100       |           | 70 - 130 | 09/30/24 11:13 | 09/30/24 22:30 | 1       |

Lab Sample ID: LCS 880-92119/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 92061

|                     | Spike | LCS     | LCS       |       |   |      | %Rec     |  |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte             | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   |  |
| Benzene             | 0.100 | 0.09633 |           | mg/Kg |   | 96   | 70 - 130 |  |
| Toluene             | 0.100 | 0.08756 |           | mg/Kg |   | 88   | 70 - 130 |  |
| Ethylbenzene        | 0.100 | 0.09475 |           | mg/Kg |   | 95   | 70 - 130 |  |
| m-Xylene & p-Xylene | 0.200 | 0.2185  |           | mg/Kg |   | 109  | 70 - 130 |  |
| o-Xylene            | 0.100 | 0.1073  |           | mg/Kg |   | 107  | 70 - 130 |  |

LCS LCS

| Surrogate                   | %Recovery Qualifier | Limits   |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 114                 | 70 _ 130 |
| 1.4-Difluorobenzene (Surr)  | 113                 | 70 - 130 |

Lab Sample ID: LCSD 880-92119/2-A

**Matrix: Solid** 

| Analysis Batch: 92061 |       |        |           |       |             |      | Prep     | Batch: | 92119 |
|-----------------------|-------|--------|-----------|-------|-------------|------|----------|--------|-------|
|                       | Spike | LCSD   | LCSD      |       |             |      | %Rec     |        | RPD   |
| Analyte               | Added | Result | Qualifier | Unit  | D           | %Rec | Limits   | RPD    | Limit |
| Benzene               | 0.100 | 0.1040 |           | mg/Kg | <del></del> | 104  | 70 - 130 | 8      | 35    |

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Batch: 92119

### **QC Sample Results**

Client: Crain Environmental Job ID: 880-49103-1 Project/Site: Chem State #1 S FL SDG: Lea Co., NM

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

Lab Sample ID: LCSD 880-92119/2-A

**Matrix: Solid** Analysis Batch: 92061 **Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA Prep Batch: 92119

|                     | Spike | LCSD    | LCSD      |       |   |      | %Rec     |     | RPD   |
|---------------------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte             | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Toluene             | 0.100 | 0.09377 |           | mg/Kg |   | 94   | 70 - 130 | 7   | 35    |
| Ethylbenzene        | 0.100 | 0.1071  |           | mg/Kg |   | 107  | 70 - 130 | 12  | 35    |
| m-Xylene & p-Xylene | 0.200 | 0.2016  |           | mg/Kg |   | 101  | 70 - 130 | 8   | 35    |
| o-Xylene            | 0.100 | 0.1005  |           | mg/Kg |   | 100  | 70 - 130 | 7   | 35    |

LCSD LCSD

| Surrogate                   | %Recovery | Qualifier | Limits   |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 124       |           | 70 - 130 |

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

Lab Sample ID: MB 880-91963/1-A

**Matrix: Solid** 

Analysis Batch: 92182

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 91963

|   | MB     | МВ        |      |     |       |   |                |                |         |
|---|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Analyte                                 | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 09/27/24 15:27 | 10/01/24 00:05 | 1       |
| Diesel Range Organics (Over C10-C28)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 09/27/24 15:27 | 10/01/24 00:05 | 1       |
| Oil Range Organics (Over C28-C36)       | <50.0  | U         | 50.0 |     | mg/Kg |   | 09/27/24 15:27 | 10/01/24 00:05 | 1       |

MB MB

| ı | Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---|----------------|-----------|-----------|----------|----------------|----------------|---------|
|   | 1-Chlorooctane | 65        | S1-       | 70 - 130 | 09/27/24 15:27 | 10/01/24 00:05 | 1       |
| l | o-Terphenyl    | 71        |           | 70 - 130 | 09/27/24 15:27 | 10/01/24 00:05 | 1       |

Lab Sample ID: LCS 880-91963/2-A

**Matrix: Solid** 

**Analysis Batch: 92182** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 91963

|                             | Spike | LCS    | LCS       |       |   |      | %Rec     |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|
| Analyte                     | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |
| Gasoline Range Organics     | 1000  | 1060   |           | mg/Kg |   | 106  | 70 - 130 |
| (GRO)-C6-C10                |       |        |           |       |   |      |          |
| Diesel Range Organics (Over | 1000  | 1075   |           | mg/Kg |   | 107  | 70 - 130 |
| C10-C28)                    |       |        |           |       |   |      |          |

LCS LCS

| Surrogate      | %Recovery Qual | ifier Limits |
|----------------|----------------|--------------|
| 1-Chlorooctane | 117            | 70 - 130     |
| o-Terphenyl    | 113            | 70 - 130     |

Lab Sample ID: LCSD 880-91963/3-A

**Analysis Batch: 92182** 

**Matrix: Solid** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 91963

|                             | Spike | LCSD   | LCSD      |       |   |      | %Rec     |     | RPD   |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte                     | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics     | 1000  | 1169   | -         | mg/Kg |   | 117  | 70 - 130 | 10  | 20    |
| (GRO)-C6-C10                |       |        |           |       |   |      |          |     |       |
| Diesel Range Organics (Over | 1000  | 1215   |           | mg/Kg |   | 122  | 70 - 130 | 12  | 20    |
| C10-C28)                    |       |        |           |       |   |      |          |     |       |

Job ID: 880-49103-1

mg/Kg

SDG: Lea Co., NM

Client: Crain Environmental Project/Site: Chem State #1 S FL

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

Lab Sample ID: LCSD 880-91963/3-A **Matrix: Solid** 

Analysis Batch: 92182

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 91963

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 133 S1+ 70 - 130 o-Terphenyl 130 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Client Sample ID: Method Blank Lab Sample ID: MB 880-92121/1-A **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 92165

мв мв

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 10/01/24 16:41

Lab Sample ID: LCS 880-92121/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 92165

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 250.3 100 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-92121/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 92165** 

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 251.3 101 90 - 110

Lab Sample ID: 880-49103-3 MS Client Sample ID: S-33 (0-2.5')

Matrix: Solid

**Analysis Batch: 92165** 

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier %Rec Limits Unit D 20.7 248 284.5 90 - 110 Chloride mg/Kg 106

Lab Sample ID: 880-49103-3 MSD Client Sample ID: S-33 (0-2.5')

**Matrix: Solid** 

**Analysis Batch: 92165** 

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Qualifier Analyte Result Unit %Rec Limits RPD Limit Chloride 20.7 248 285.7 107 mg/Kg 90 - 110 20

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**Prep Type: Soluble** 

**Prep Type: Soluble** 

Client: Crain Environmental

Project/Site: Chem State #1 S FL

SDG: Lea Co., NM

**GC VOA** 

Analysis Batch: 92061

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-49103-1        | S-7 (2.5')             | Total/NA  | Solid  | 8021B  | 92119      |
| 880-49103-2        | S-32 (0-2.5')          | Total/NA  | Solid  | 8021B  | 92119      |
| 880-49103-3        | S-33 (0-2.5')          | Total/NA  | Solid  | 8021B  | 92119      |
| 880-49103-4        | S-34 (0-2.5')          | Total/NA  | Solid  | 8021B  | 92119      |
| 880-49103-5        | S-35 (0-2.5')          | Total/NA  | Solid  | 8021B  | 92119      |
| MB 880-92092/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 92092      |
| MB 880-92119/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 92119      |
| LCS 880-92119/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 92119      |
| LCSD 880-92119/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 92119      |

Prep Batch: 92092

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-92092/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

Prep Batch: 92119

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-49103-1        | S-7 (2.5')             | Total/NA  | Solid  | 5035   | <u> </u>   |
| 880-49103-2        | S-32 (0-2.5')          | Total/NA  | Solid  | 5035   |            |
| 880-49103-3        | S-33 (0-2.5')          | Total/NA  | Solid  | 5035   |            |
| 880-49103-4        | S-34 (0-2.5')          | Total/NA  | Solid  | 5035   |            |
| 880-49103-5        | S-35 (0-2.5')          | Total/NA  | Solid  | 5035   |            |
| MB 880-92119/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-92119/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-92119/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

Analysis Batch: 92264

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-49103-1   | S-7 (2.5')       | Total/NA  | Solid  | Total BTEX |            |
| 880-49103-2   | S-32 (0-2.5')    | Total/NA  | Solid  | Total BTEX |            |
| 880-49103-3   | S-33 (0-2.5')    | Total/NA  | Solid  | Total BTEX |            |
| 880-49103-4   | S-34 (0-2.5')    | Total/NA  | Solid  | Total BTEX |            |
| 880-49103-5   | S-35 (0-2.5')    | Total/NA  | Solid  | Total BTEX |            |

GC Semi VOA

Prep Batch: 91963

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-49103-1        | S-7 (2.5')             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-49103-2        | S-32 (0-2.5')          | Total/NA  | Solid  | 8015NM Prep |            |
| 880-49103-3        | S-33 (0-2.5')          | Total/NA  | Solid  | 8015NM Prep |            |
| 880-49103-4        | S-34 (0-2.5')          | Total/NA  | Solid  | 8015NM Prep |            |
| 880-49103-5        | S-35 (0-2.5')          | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-91963/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-91963/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-91963/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

Analysis Batch: 92182

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 880-49103-1   | S-7 (2.5')       | Total/NA  | Solid  | 8015B NM | 91963      |
| 880-49103-2   | S-32 (0-2.5')    | Total/NA  | Solid  | 8015B NM | 91963      |
| 880-49103-3   | S-33 (0-2.5')    | Total/NA  | Solid  | 8015B NM | 91963      |

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Client: Crain Environmental Project/Site: Chem State #1 S FL Job ID: 880-49103-1 SDG: Lea Co., NM

### GC Semi VOA (Continued)

### **Analysis Batch: 92182 (Continued)**

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-49103-4        | S-34 (0-2.5')          | Total/NA  | Solid  | 8015B NM | 91963      |
| 880-49103-5        | S-35 (0-2.5')          | Total/NA  | Solid  | 8015B NM | 91963      |
| MB 880-91963/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 91963      |
| LCS 880-91963/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 91963      |
| LCSD 880-91963/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 91963      |

#### Analysis Batch: 92272

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-49103-1   | S-7 (2.5')       | Total/NA  | Solid  | 8015 NM |            |
| 880-49103-2   | S-32 (0-2.5')    | Total/NA  | Solid  | 8015 NM |            |
| 880-49103-3   | S-33 (0-2.5')    | Total/NA  | Solid  | 8015 NM |            |
| 880-49103-4   | S-34 (0-2.5')    | Total/NA  | Solid  | 8015 NM |            |
| 880-49103-5   | S-35 (0-2.5')    | Total/NA  | Solid  | 8015 NM |            |

#### **HPLC/IC**

#### Leach Batch: 92121

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-49103-1        | S-7 (2.5')             | Soluble   | Solid  | DI Leach |            |
| 880-49103-2        | S-32 (0-2.5')          | Soluble   | Solid  | DI Leach |            |
| 880-49103-3        | S-33 (0-2.5')          | Soluble   | Solid  | DI Leach |            |
| 880-49103-4        | S-34 (0-2.5')          | Soluble   | Solid  | DI Leach |            |
| 880-49103-5        | S-35 (0-2.5')          | Soluble   | Solid  | DI Leach |            |
| MB 880-92121/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-92121/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-92121/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-49103-3 MS     | S-33 (0-2.5')          | Soluble   | Solid  | DI Leach |            |
| 880-49103-3 MSD    | S-33 (0-2.5')          | Soluble   | Solid  | DI Leach |            |

#### Analysis Batch: 92165

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-49103-1        | S-7 (2.5')             | Soluble   | Solid  | 300.0  | 92121      |
| 880-49103-2        | S-32 (0-2.5')          | Soluble   | Solid  | 300.0  | 92121      |
| 880-49103-3        | S-33 (0-2.5')          | Soluble   | Solid  | 300.0  | 92121      |
| 880-49103-4        | S-34 (0-2.5')          | Soluble   | Solid  | 300.0  | 92121      |
| 880-49103-5        | S-35 (0-2.5')          | Soluble   | Solid  | 300.0  | 92121      |
| MB 880-92121/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 92121      |
| LCS 880-92121/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 92121      |
| LCSD 880-92121/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 92121      |
| 880-49103-3 MS     | S-33 (0-2.5')          | Soluble   | Solid  | 300.0  | 92121      |
| 880-49103-3 MSD    | S-33 (0-2.5')          | Soluble   | Solid  | 300.0  | 92121      |

Client: Crain Environmental Project/Site: Chem State #1 S FL Job ID: 880-49103-1 SDG: Lea Co., NM

Lab Sample ID: 880-49103-1

Lab Sample ID: 880-49103-2

Lab Sample ID: 880-49103-3

Lab Sample ID: 880-49103-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

Client Sample ID: S-7 (2.5') Date Collected: 09/26/24 12:00

Date Received: 09/27/24 13:45

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.97 g  | 5 mL     | 92119  | 09/30/24 11:13 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92061  | 10/01/24 05:04 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92264  | 10/01/24 05:04 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92272  | 10/01/24 04:02 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.06 g | 10.00 mL | 91963  | 09/27/24 15:27 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92182  | 10/01/24 04:02 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.96 g  | 50 mL    | 92121  | 09/30/24 11:40 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |          | 92165  | 10/01/24 18:02 | CH      | EET MID |

**Client Sample ID: S-32 (0-2.5')** 

Date Collected: 09/26/24 12:05

Date Received: 09/27/24 13:45

| _         | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.02 g  | 5 mL     | 92119  | 09/30/24 11:13 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92061  | 10/01/24 05:24 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92264  | 10/01/24 05:24 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92272  | 10/01/24 04:18 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.01 g | 10.00 mL | 91963  | 09/27/24 15:27 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92182  | 10/01/24 04:18 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.03 g  | 50 mL    | 92121  | 09/30/24 11:40 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |          | 92165  | 10/01/24 18:07 | CH      | EET MID |

**Client Sample ID: S-33 (0-2.5')** 

Date Collected: 09/26/24 12:10

Date Received: 09/27/24 13:45

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.01 g  | 5 mL     | 92119  | 09/30/24 11:13 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92061  | 10/01/24 05:45 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92264  | 10/01/24 05:45 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92272  | 10/01/24 04:32 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.02 g | 10.00 mL | 91963  | 09/27/24 15:27 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92182  | 10/01/24 04:32 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.04 g  | 50 mL    | 92121  | 09/30/24 11:40 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |          | 92165  | 10/01/24 18:12 | CH      | EET MID |

Client Sample ID: S-34 (0-2.5')

Date Collected: 09/26/24 12:15

Date Received: 09/27/24 13:45

| _         | Batch    | Batch      |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method     | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035       |     |        | 4.99 g  | 5 mL   | 92119  | 09/30/24 11:13 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B      |     | 1      | 5 mL    | 5 mL   | 92061  | 10/01/24 06:05 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX |     | 1      |         |        | 92264  | 10/01/24 06:05 | SM      | EET MID |

**Eurofins Midland** 

**Matrix: Solid** 

#### **Lab Chronicle**

Client: Crain Environmental Project/Site: Chem State #1 S FL Job ID: 880-49103-1 SDG: Lea Co., NM

Lab Sample ID: 880-49103-4

Lab Sample ID: 880-49103-5

Matrix: Solid

**Matrix: Solid** 

Client Sample ID: S-34 (0-2.5')

Date Collected: 09/26/24 12:15 Date Received: 09/27/24 13:45

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92272  | 10/01/24 04:48 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.01 g | 10.00 mL | 91963  | 09/27/24 15:27 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92182  | 10/01/24 04:48 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.01 g  | 50 mL    | 92121  | 09/30/24 11:40 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |          | 92165  | 10/01/24 18:29 | CH      | EET MID |

**Client Sample ID: S-35 (0-2.5')** 

Date Collected: 09/26/24 12:20

Date Received: 09/27/24 13:45

|           | Batch    | Batch       |     | Dil    | Initial | Final    | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.02 g  | 5 mL     | 92119  | 09/30/24 11:13 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL     | 92061  | 10/01/24 06:26 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |          | 92264  | 10/01/24 06:26 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |          | 92272  | 10/01/24 05:02 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.03 g | 10.00 mL | 91963  | 09/27/24 15:27 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL     | 92182  | 10/01/24 05:02 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.96 g  | 50 mL    | 92121  | 09/30/24 11:40 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |          | 92165  | 10/01/24 18:34 | CH      | EET MID |

Laboratory References:

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

### **Accreditation/Certification Summary**

Client: Crain Environmental Job ID: 880-49103-1
Project/Site: Chem State #1 S FL SDG: Lea Co., NM

#### **Laboratory: Eurofins Midland**

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

| Authority       | Progra                          | am                              | Identification Number                     | Expiration Date        |  |
|-----------------|---------------------------------|---------------------------------|---|------------------------|--|
| Texas           | NELA                            | Р                               | T104704400                                | 06-30-25               |  |
| • ,             | are included in this report, bu | ut the laboratory is not certif | fied by the governing authority. This lis | t may include analytes |  |
| Analysis Method | Prep Method                     | Matrix                          | Analyte                                   |                        |  |
| 8015 NM         |                                 | Solid                           | Total TPH                                 |                        |  |
| Total BTEX      |                                 | Solid                           | Total BTEX                                |                        |  |

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### **Method Summary**

Client: Crain Environmental Project/Site: Chem State #1 S FL Job ID: 880-49103-1 SDG: Lea Co., NM

Laboratory

EET MID

EET MID

| 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    |
| 5035        | Closed System 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

**Eurofins Midland** 

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### **Sample Summary**

Client: Crain Environmental Project/Site: Chem State #1 S FL Job ID: 880-49103-1

SDG: Lea Co., NM

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth  |
|---------------|------------------|--------|----------------|----------------|--------|
| 880-49103-1   | S-7 (2.5')       | Solid  | 09/26/24 12:00 | 09/27/24 13:45 | 2.5'   |
| 880-49103-2   | S-32 (0-2.5')    | Solid  | 09/26/24 12:05 | 09/27/24 13:45 | 0-2.5' |
| 880-49103-3   | S-33 (0-2.5')    | Solid  | 09/26/24 12:10 | 09/27/24 13:45 | 0-2.5' |
| 880-49103-4   | S-34 (0-2.5')    | Solid  | 09/26/24 12:15 | 09/27/24 13:45 | 0-2.5' |
| 880-49103-5   | S-35 (0-2.5')    | Solid  | 09/26/24 12:20 | 09/27/24 13:45 | 0-2.5' |

levised Date: 08/25/2020 Rev. 2020.

MYCH

Reporting: Level III | Level III | PST/UST | TRRP | Level IV | Superfund DI Water: H<sub>2</sub>O MeOH: Me HNO 3: HN NaOH: Na VaOH+Ascorbic Acid: SAPC Sample Comments Preservative Codes Date/Time of Zn Acetate+NaOH: Zn Brownfields RRC Na 25 20 3: Na SO 3 Other: Texas 11. Al Sb. As. Ba. Be. B. Cd. Ca. Cr. Co. Cu. Fe. Pb. Mg. Mn. Mo. Ni. K. Se. Ag. SiO<sub>2</sub>. Na. Sr. Tl. Sn. U. V. Zn. NaHSO 4: NABIS Hg: 1631 / 245.1 / 7470 / 7471 880-49103 Chain of Custody None: NO H<sub>3</sub>PO<sub>4</sub>: HP H2504:H2 Cool: Cool Page Work Order Comments HCL: HC ADaPT Received by: (Signature) www.xenco.com UST/PST | PRP EDD State of Project: NM um charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Deliverables: TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Program: oldice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Euroffes Xenco, its affiliates and subcontractors. It assigns standard terms and conditions feerore. Euroffes Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control ANALYSIS REQUEST Relinquished by: (Signature) 300 19701 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Chain of Custody hris (raddy Circle Crain @ gmail. con 310 W. Wall Midbad Uctane 8757 Date/Time M 5108 HOLL # of Cont Pres. Code Parameters Bill to: (if different) Comp Company Name: Grab/ City, State ZIP: TAT starts the day received by the lab, if received by 4:30pm Rush 0-25' 2.5' 0.25' 0-2.5 Address: Yes Depth **Turn Around** 8RCRA 13PPM Received by: (Signature) Email: Routine 1220 1205 1210 Corrected Temperature: 1200 1215 Due Date: Sampled Wet Ice: Temperature Reading: Ilme **Environment Testing** Correction Factor: 912612 Yes No Sampled 10essa TX 7976 nimmenta Circle Method(s) and Metal(s) to be analyzed 575) 441-7244 Than State #15 Matrix Xenco ano S NA N N MA Temp Blank: 200.8 / 6020: Yes No Yes No/ 2925 C. ž Yes Relipquished by (Signature) en lo eurofins ... 0-2.5' 5 0-2.5. 0-2.5 Sample Identification Samples Received Intact: Total 200.7 / 6010 Sample Custody Seals: i Cooler Custody Seals: SAMPLE RECEIPT f Eurofins Xenco. A minin Project Number: Total Containers: Project Manager: Company Name: Project Location: Sampler's Name: 35 5.33 City, State ZIP: Project Name: 5-32 5-7 Address: 5. S Phone: PO #:

### **Login Sample Receipt Checklist**

Client: Crain Environmental Job Number: 880-49103-1 SDG Number: Lea Co., NM

Login Number: 49103 **List Source: Eurofins Midland** 

List Number: 1

Creator: Rodriguez, Leticia

| 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: Cindy Crain Crain Environmental 2925 E. 17th St. Odessa, Texas 79761

Generated 11/25/2024 12:50:11 PM Revision 1

### **JOB DESCRIPTION**

Chem State #1 Lea Co. NM

### **JOB NUMBER**

880-50851-1

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 11/25/2024 12:50:11 PM Revision 1

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 1

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Client: Crain Environmental Project/Site: Chem State #1

Laboratory Job ID: 880-50851-1 SDG: Lea Co. NM

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### **Definitions/Glossary**

Client: Crain Environmental Job ID: 880-50851-1 Project/Site: Chem State #1

SDG: Lea Co. NM

#### **Qualifiers**

#### **GC Semi VOA**

Qualifier **Qualifier Description** 

Surrogate recovery exceeds control limits, high biased. S1+ Indicates the analyte was analyzed for but not detected. U

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)

 $\mathsf{DL},\,\mathsf{RA},\,\mathsf{RE},\,\mathsf{IN}$ 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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum 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) Toxicity Equivalent Quotient (Dioxin) **TEQ** 

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: Crain Environmental Project: Chem State #1

Job ID: 880-50851-1

Job ID: 880-50851-1 Eurofins Midland

Job Narrative 880-50851-1

#### **REVISION**

The report being provided is a revision of the original report sent on 11/19/2024. The report (revision 1) is being revised due to Per client email samples 013-016 are for Chem State #4.

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 11/8/2024 1:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C.

#### **Diesel Range Organics**

Method 8015MOD\_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-95276/2-A). Percent recoveries are based on the amount spiked.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-95276/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The continuing calibration verification (CCV) associated with batch 880-95595 exhibited % difference of > 20% for the following analyte(s)o-Terphenyl. These results are within the acceptance limits but exceed the performance criteria.

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.

**Eurofins Midland** 

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SDG: Lea Co. NM

Client: Crain Environmental Project/Site: Chem State #1

Client Sample ID: S-1 (7') Date Collected: 11/04/24 10:00

Date Received: 11/08/24 13:35

Sample Depth: 7'

Lab Sample ID: 880-50851-1

Lab Sample ID: 880-50851-2

11/08/24 14:17 11/12/24 20:46

Lab Sample ID: 880-50851-3

**Matrix: Solid** 

**Matrix: Solid** 

| Analyte                                 | Result       | Qualifier | RL         | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---|--------------|-----------|------------|-----|-------|---|----------------|----------------|---------|
| Total TPH                               | 1380         |           | 49.7       |     | mg/Kg |   |                | 11/13/24 22:14 | 1       |
| Method: SW846 8015B NM - D              | Diesel Range | Organics  | (DRO) (GC) |     |       |   |                |                |         |
| Analyte                                 | Result       | Qualifier | RL         | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.7        | U         | 49.7       |     | mg/Kg |   | 11/12/24 13:03 | 11/13/24 22:14 | 1       |
| Diesel Range Organics (Over C10-C28)    | 1380         |           | 49.7       |     | mg/Kg |   | 11/12/24 13:03 | 11/13/24 22:14 | 1       |
| Oil Range Organics (Over C28-C36)       | <49.7        | U         | 49.7       |     | mg/Kg |   | 11/12/24 13:03 | 11/13/24 22:14 | 1       |
| Surrogate                               | %Recovery    | Qualifier | Limits     |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                          | 87           |           | 70 - 130   |     |       |   | 11/12/24 13:03 | 11/13/24 22:14 | 1       |
| o-Terphenyl                             | 75           |           | 70 - 130   |     |       |   | 11/12/24 13:03 | 11/13/24 22:14 | 1       |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier **MDL** Unit Prepared Analyzed Dil Fac Chloride 255 9.92 mg/Kg 11/09/24 00:54

Client Sample ID: S-11 (0-4') Date Collected: 11/04/24 10:05

Date Received: 11/08/24 13:35

Sample Depth: 0-4'

| Analyte  | Result       | Qualifier                | RL              | MDL | Unit          | D        | Prepared                | Analyzed                | Dil Fa |
|--|--------------|--------------------------|-----------------|-----|---------------|----------|-------------------------|-------------------------|--------|
| Total TPH  | 517          |                          | 49.8            |     | mg/Kg         |          |                         | 11/12/24 20:46          |        |
| Marthaul OMO 40 004ED NM D   |              |                          |                 |     |               |          |                         |                         |        |
| Method: 5W846 8U15B NM - D   | ilesei Kange | Organics (I              | DRO) (GC)       |     |               |          |                         |                         |        |
|  | _            | Organics (I<br>Qualifier | DRO) (GC)<br>RL | MDL | Unit          | D        | Prepared                | Analyzed                | Dil Fa |
| Method: SW846 8015B NM - D<br>Analyte Gasoline Range Organics (GRO)-C6-C10 | _            | Qualifier                | , , ,           | MDL | Unit<br>mg/Kg | <u>D</u> | Prepared 11/08/24 14:17 | Analyzed 11/12/24 20:46 | Dil Fa |

| Surrogate      | %Recovery Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|---------------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 88                  | 70 - 130 | 11/08/24 14:17 | 11/12/24 20:46 | 1       |
| o-Terphenyl    | 84                  | 70 - 130 | 11/08/24 14:17 | 11/12/24 20:46 | 1       |

49.8

mg/Kg

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

<49.8 U

Analyte Result Qualifier MDL Unit RL D Prepared Dil Fac Analyzed Chloride 1620 49.8 mg/Kg 11/09/24 01:01

Client Sample ID: S-11 (4-7')

Released to Imaging: 1/14/2025 9:38:29 AM

Date Collected: 11/04/24 10:10 Date Received: 11/08/24 13:35

Oil Range Organics (Over C28-C36)

Sample Depth: 4-7'

| Method: SW846 8015 NM - | Diesel Range Organics (D | RO) (GC) |          |   |          |                |         |
|-------------------------|--------------------------|----------|----------|---|----------|----------------|---------|
| Analyte                 | Result Qualifier         | RL       | MDL Unit | D | Prepared | Analyzed       | Dil Fac |
| Total TPH               | 1280                     | 49.8     | mg/Kg    |   |          | 11/12/24 21:17 | 1       |

**Eurofins Midland** 

**Matrix: Solid** 

Matrix: Solid

**Matrix: Solid** 

Job ID: 880-50851-1

Lab Sample ID: 880-50851-3

11/08/24 14:17 11/12/24 21:17

Client: Crain Environmental Project/Site: Chem State #1 SDG: Lea Co. NM

Client Sample ID: S-11 (4-7')

Date Collected: 11/04/24 10:10 Date Received: 11/08/24 13:35

Sample Depth: 4-7'

| <br>Method: SW846 8015B NM - D          | Diesel Range | e Organics | (DRO) (GC) |     |       |   |                |                |         |
|---|--------------|------------|------------|-----|-------|---|----------------|----------------|---------|
| Analyte                                 | Result       | Qualifier  | RL         | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.8        | U          | 49.8       |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 21:17 | 1       |
| Diesel Range Organics (Over C10-C28)    | 1280         |            | 49.8       |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 21:17 | 1       |
| Oil Range Organics (Over C28-C36)       | <49.8        | U          | 49.8       |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 21:17 | 1       |
| Surrogate                               | %Recovery    | Qualifier  | Limits     |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                          | 91           |            | 70 - 130   |     |       |   | 11/08/24 14:17 | 11/12/24 21:17 | 1       |

| Method: EPA 300.0 - Anions, le | on Chromato | ography - | Soluble |     |       |   |          |                |         |
|--------------------------------|-------------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Analyte                        | Result (    | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride                       | 3810        |           | 99.4    |     | mg/Kg |   |          | 11/09/24 01:16 | 10      |

70 - 130

Client Sample ID: S-12 (0-4') Lab Sample ID: 880-50851-4 Date Collected: 11/04/24 10:15

90

Date Received: 11/08/24 13:35

Sample Depth: 0-4'

o-Terphenyl

| Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) |        |           |      |     |       |   |          |                |         |
|--|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Total TPH  | <49.7  | U         | 49.7 |     | mg/Kg |   |          | 11/12/24 21:32 | 1       |

| Analyte                                 | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.7     | U         | 49.7     |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 21:32 | 1       |
| Diesel Range Organics (Over C10-C28)    | <49.7     | U         | 49.7     |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 21:32 | 1       |
| Oil Range Organics (Over C28-C36)       | <49.7     | U         | 49.7     |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 21:32 | 1       |
| Surrogate                               | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                          | 93        |           | 70 - 130 |     |       |   | 11/08/24 14:17 | 11/12/24 21:32 | 1       |
| o-Terphenyl                             | 89        |           | 70 - 130 |     |       |   | 11/08/24 14:17 | 11/12/24 21:32 | 1       |

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble |          |        |           |      |     |       |   |   |          |                |         |
|--|----------|--------|-----------|------|-----|-------|---|---|----------|----------------|---------|
|  | Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | ) | Prepared | Analyzed       | Dil Fac |
|  | Chloride | 765    |           | 9.92 |     | mg/Kg |   |   |          | 11/09/24 01:34 | 1       |

Lab Sample ID: 880-50851-5 Client Sample ID: S-12 (4-7') Date Collected: 11/04/24 10:15 Matrix: Solid

Date Received: 11/08/24 13:35 Sample Depth: 4-7'

| Analyte  | Result         | Qualifier     | RL        | MDL | Unit          | D        | Prepared                | Analyzed                | Dil Fa |
|--|----------------|---------------|-----------|-----|---------------|----------|-------------------------|-------------------------|--------|
| Total TPH  | 788            |               | 50.0      |     | mg/Kg         |          |                         | 11/12/24 21:48          |        |
| <del>-</del>   |                |               |           |     |               |          |                         |                         |        |
| Mathad. CIMO 4C 004 FD NIM                             | Discal Dance   | Organica /    |           |     |               |          |                         |                         |        |
| MIETHOO: SW846 8015B NIVI                              | - Diesei Kange | : Organics (i | JKU) (GC) |     |               |          |                         |                         |        |
| Analyte  |                | Qualifier     | RL (GC)   | MDL | Unit          | D        | Prepared                | Analyzed                | Dil Fa |
| Method: SW846 8015B NM Analyte Gasoline Range Organics |                | Qualifier     |           | MDL | Unit<br>mg/Kg | <u>D</u> | Prepared 11/08/24 14:17 | Analyzed 11/12/24 21:48 | Dil F  |

Job ID: 880-50851-1

Client: Crain Environmental Project/Site: Chem State #1 SDG: Lea Co. NM

Da Date Received: 11/08/24 13:35

Sample Depth: 4-7'

| Client Sample ID: S-12 (4-7')  | Lab Sample ID: 880-50851-5 |
|--------------------------------|----------------------------|
| Date Collected: 11/04/24 10:15 | Matrix: Solid              |

| Method: SW846 8015B NM - I           | Diesel Range | <b>Organics</b> | s (DRO) (GC) | (Conti | nued) |   |                |                |         |
|--------------------------------------|--------------|-----------------|--------------|--------|-------|---|----------------|----------------|---------|
| Analyte                              | Result       | Qualifier       | RL           | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Diesel Range Organics (Over C10-C28) | 788          |                 | 50.0         |        | mg/Kg |   | 11/08/24 14:17 | 11/12/24 21:48 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0        | U               | 50.0         |        | mg/Kg |   | 11/08/24 14:17 | 11/12/24 21:48 | 1       |
| Surrogate                            | %Recovery    | Qualifier       | Limits       |        |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 79           |                 | 70 - 130     |        |       |   | 11/08/24 14:17 | 11/12/24 21:48 | 1       |
| o-Terphenyl                          | 93           |                 | 70 - 130     |        |       |   | 11/08/24 14:17 | 11/12/24 21:48 | 1       |
| Method: EPA 300.0 - Anions,          | Ion Chroma   | tography -      | - Soluble    |        |       |   |                |                |         |
| Analyte                              |              | Qualifier       | RL           | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Chloride                             | 602          |                 | 9.94         |        | mg/Kg |   |                | 11/09/24 01:41 | 1       |

Lab Sample ID: 880-50851-6 Client Sample ID: S-13 (0-4') Date Collected: 11/04/24 10:20 **Matrix: Solid** 

Date Received: 11/08/24 13:35

Sample Depth: 0-4'

| Method: SW846 8015 NM - Dies | sel Range ( | Organics (E | ORO) (GC) |     |       |   |          |                |         |
|------------------------------|-------------|-------------|-----------|-----|-------|---|----------|----------------|---------|
| Analyte                      | Result      | Qualifier   | RL        | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Total TPH                    | 402         |             | 49.9      |     | mg/Kg |   |          | 11/12/24 22:03 | 1       |

| Method: SW846 8015B NM - D              | iesel Range | <b>Organics</b> | (DRO) (GC) |     |       |   |                |                |         |
|---|-------------|-----------------|------------|-----|-------|---|----------------|----------------|---------|
| Analyte                                 | Result      | Qualifier       | RL         | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.9       | U               | 49.9       |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 22:03 | 1       |
| Diesel Range Organics (Over C10-C28)    | 402         |                 | 49.9       |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 22:03 | 1       |
| Oil Range Organics (Over C28-C36)       | <49.9       | U               | 49.9       |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 22:03 | 1       |
| Surrogate                               | %Recovery   | Qualifier       | Limits     |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                          | 86          |                 | 70 - 130   |     |       |   | 11/08/24 14:17 | 11/12/24 22:03 | 1       |
| o-Terphenyl                             | 86          |                 | 70 - 130   |     |       |   | 11/08/24 14:17 | 11/12/24 22:03 | 1       |

| Method: EPA 300.0 - Anions, Id | on Chromat | tography - S | Soluble |     |       |   |          |                |         |
|--------------------------------|------------|--------------|---------|-----|-------|---|----------|----------------|---------|
| Analyte                        | Result     | Qualifier    | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride                       | 911        |              | 49.8    |     | mg/Kg |   |          | 11/09/24 01:47 | 5       |

Lab Sample ID: 880-50851-7 Client Sample ID: S-13 (4-7') Date Collected: 11/04/24 10:25 Matrix: Solid

Date Received: 11/08/24 13:35

Sample Depth: 4-7'

| Method: SW846 8015 NM - Di            | iesel Range ( | Organics (D          | RO) (GC)        |     |               |          |                         |                         |         |
|---------------------------------------|---------------|----------------------|-----------------|-----|---------------|----------|-------------------------|-------------------------|---------|
| Analyte                               | Result        | Qualifier            | RL              | MDL | Unit          | D        | Prepared                | Analyzed                | Dil Fac |
| Total TPH                             | <49.8         | U                    | 49.8            |     | mg/Kg         |          |                         | 11/12/24 22:18          | 1       |
| <del>-</del>                          |               |                      |                 |     |               |          |                         |                         |         |
| Method: SW846 8015B NM - I            | Diesel Range  | Organics (           | DRO) (GC)       |     |               |          |                         |                         |         |
| Method: SW846 8015B NM -  <br>Analyte | _             | Organics ( Qualifier | DRO) (GC)<br>RL | MDL | Unit          | D        | Prepared                | Analyzed                | Dil Fac |
|                                       | _             | Qualifier            | , , ,           | MDL | Unit<br>mg/Kg | <u>D</u> | Prepared 11/08/24 14:17 | Analyzed 11/12/24 22:18 | Dil Fac |

### **Client Sample Results**

Client: Crain Environmental Job ID: 880-50851-1 Project/Site: Chem State #1 SDG: Lea Co. NM

Client Sample ID: S-13 (4-7)

Date Received: 11/08/24 13:35

Sample Depth: 4-7'

| Client Sample ID: S-13 (4-7')  | Lab Sample ID: 880-50851-7 |
|--------------------------------|----------------------------|
| Pate Collected: 11/04/24 10:25 | Matrix: Solid              |

| Method: SW846 8015B NM - I<br>Analyte | _          | Qualifier  | RL        | (Contin |       | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|------------|------------|-----------|---------|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36)     | <49.8      | U          | 49.8      |         | mg/Kg |   | 11/08/24 14:17 | 11/12/24 22:18 | 1       |
| Surrogate                             | %Recovery  | Qualifier  | Limits    |         |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                        | 104        |            | 70 - 130  |         |       |   | 11/08/24 14:17 | 11/12/24 22:18 | 1       |
| o-Terphenyl                           | 99         |            | 70 - 130  |         |       |   | 11/08/24 14:17 | 11/12/24 22:18 | 1       |
| Method: EPA 300.0 - Anions,           | Ion Chroma | tography - | - Soluble |         |       |   |                |                |         |
| Analyte                               |            | Qualifier  | RL        | MDL     | Unit  | D | Prepared       | Analyzed       | Dil Fac |

791

mg/Kg

Client Sample ID: S-14 (0-4')

Date Collected: 11/04/24 10:30

Date Received: 11/08/24 13:35

Sample Depth: 0-4'

Chloride

| Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) |        |           |      |     |       |   |          |                |         |
|--|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Total TPH  | <49.8  | U         | 49.8 |     | mg/Kg |   |          | 11/12/24 22:32 | 1       |
|  |        |           |      |     |       |   |          |                |         |

| <br>Method: SW846 8015B NM - D          | Diesel Range | Organics  | (DRO) (GC) |     |       |   |                |                |         |
|---|--------------|-----------|------------|-----|-------|---|----------------|----------------|---------|
| Analyte                                 | Result       | Qualifier | RL         | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.8        | U         | 49.8       |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 22:32 | 1       |
| Diesel Range Organics (Over C10-C28)    | <49.8        | U         | 49.8       |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 22:32 | 1       |
| Oil Range Organics (Over C28-C36)       | <49.8        | U         | 49.8       |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 22:32 | 1       |
| Surrogate                               | %Recovery    | Qualifier | Limits     |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                          | 89           |           | 70 - 130   |     |       |   | 11/08/24 14:17 | 11/12/24 22:32 | 1       |
| o-Terphenyl                             | 83           |           | 70 - 130   |     |       |   | 11/08/24 14:17 | 11/12/24 22:32 | 1       |

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble |        |           |      |     |       |   |          |                |         |
|--|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride   | 650    |           | 10.0 |     | mg/Kg |   |          | 11/09/24 02:11 | 1       |

**Client Sample ID: S-2 (0-1.8')** 

Date Collected: 11/04/24 10:35

Date Received: 11/08/24 13:35

Sample Depth: 0-1.8'

| Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) |            |            |           |     |       |   |                |                |         |  |  |
|--|------------|------------|-----------|-----|-------|---|----------------|----------------|---------|--|--|
| Analyte  | Result     | Qualifier  | RL        | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |  |  |
| Total TPH  | <50.0      | U          | 50.0      |     | mg/Kg |   |                | 11/12/24 22:47 | 1       |  |  |
| -<br>Method: SW846 8015B NM - Die                        | esel Range | Organics ( | DRO) (GC) |     |       |   |                |                |         |  |  |
| Analyte  | Result     | Qualifier  | RL        | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |  |  |
| Gasoline Range Organics<br>(GRO)-C6-C10                  | <50.0      | U          | 50.0      |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 22:47 | 1       |  |  |
| Diesel Range Organics (Over C10-C28)                     | <50.0      | U          | 50.0      |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 22:47 | 1       |  |  |
| Oil Range Organics (Over C28-C36)                        | <50.0      | U          | 50.0      |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 22:47 | 1       |  |  |

**Eurofins Midland** 

**Matrix: Solid** 

11/09/24 01:53

**Matrix: Solid** 

Lab Sample ID: 880-50851-8

Lab Sample ID: 880-50851-9

**Matrix: Solid** 

Matrix: Solid

Lab Sample ID: 880-50851-9

Lab Sample ID: 880-50851-10

Lab Sample ID: 880-50851-11

### **Client Sample Results**

Client: Crain Environmental Job ID: 880-50851-1 Project/Site: Chem State #1 SDG: Lea Co. NM

**Client Sample ID: S-2 (0-1.8')** 

Date Collected: 11/04/24 10:35 Date Received: 11/08/24 13:35

Sample Depth: 0-1.8'

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 89        |           | 70 - 130 | 11/08/24 14:17 | 11/12/24 22:47 | 1       |
| o-Terphenyl    | 83        |           | 70 - 130 | 11/08/24 14:17 | 11/12/24 22:47 | 1       |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier **MDL** Unit Prepared Analyzed Dil Fac Chloride 364 10.1 mg/Kg 11/09/24 02:17

Client Sample ID: S-18 (1.8') Date Collected: 11/04/24 10:50

Date Received: 11/08/24 13:35

Sample Depth: 1.8'

| Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) |        |           |      |     |       |   |          |                |         |
|--|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Total TPH  | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 11/12/24 23:01 | 1       |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac <49.9 U 49.9 11/08/24 14:17 11/12/24 23:01 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 11/08/24 14:17 11/12/24 23:01 C10-C28) Oil Range Organics (Over C28-C36) <49.9 U 49 9 mg/Kg 11/08/24 14:17 11/12/24 23:01 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 87 70 - 130 11/08/24 14:17 11/12/24 23:01 81 70 - 130 11/08/24 14:17 11/12/24 23:01 o-Terphenyl

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble |        |           |      |     |       |   |          |                |         |
|--|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride   | 141    |           | 9.96 |     | mg/Kg |   |          | 11/09/24 02:24 | 1       |

Client Sample ID: S-32 (2.5')

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

Date Collected: 11/04/24 11:05

|                               | man on a |
|-------------------------------|----------|
| Date Received: 11/08/24 13:35 |          |
| Sample Depth: 0-2.5'          |          |
|                               |          |

| Analyte                                 | Result       | Qualifier | RL         | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---|--------------|-----------|------------|-----|-------|---|----------------|----------------|---------|
| Total TPH                               | <49.8        | U         | 49.8       |     | mg/Kg |   |                | 11/12/24 23:17 | 1       |
| –<br>Method: SW846 8015B NM - I         | Diesel Range | Organics  | (DRO) (GC) |     |       |   |                |                |         |
| Analyte                                 | Result       | Qualifier | RL         | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.8        | U         | 49.8       |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 23:17 | 1       |
| Diesel Range Organics (Over C10-C28)    | <49.8        | U         | 49.8       |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 23:17 | 1       |
| Oil Range Organics (Over C28-C36)       | <49.8        | U         | 49.8       |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 23:17 | 1       |
| Surrogate                               | %Recovery    | Qualifier | Limits     |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                          | 95           |           | 70 - 130   |     |       |   | 11/08/24 14:17 | 11/12/24 23:17 | 1       |
| o-Terphenyl                             | 88           |           | 70 - 130   |     |       |   | 11/08/24 14:17 | 11/12/24 23:17 | 1       |

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Matrix: Solid

### **Client Sample Results**

Client: Crain Environmental
Project/Site: Chem State #1
Job ID: 880-50851-1
SDG: Lea Co. NM

Client Sample ID: S-32 (2.5')

Lab Sampl

Lab Sample ID: 880-50851-11

Date Collected: 11/04/24 11:05

Date Received: 11/08/24 13:35

Matrix: Solid

Sample Depth: 0-2.5'

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble |             |           |          |   |          |                |         |  |  |  |
|--|-------------|-----------|----------|---|----------|----------------|---------|--|--|--|
| Analyte  | Result Qual | lifier RL | MDL Unit | D | Prepared | Analyzed       | Dil Fac |  |  |  |
| Chloride   | 40.5        | 9.94      | mg/Kg    |   |          | 11/09/24 02:30 | 1       |  |  |  |

Client Sample ID: S-34 (2.5')

Lab Sample ID: 880-50851-12

Date Collected: 11/04/24 11:10 Matrix: Solid

Date Received: 11/08/24 13:35

Sample Depth: 0-2.5'

| Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) |           |        |           |      |     |       |   |          |                |         |
|--|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
|  | Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|  | Total TPH | <49.8  | U         | 49.8 |     | mg/Kg |   |          | 11/12/24 23:31 | 1       |

| Method: SW846 8015B NM - D              | Diesel Range | e Organics | (DRO) (GC) |     |       |   |                |                |         |
|---|--------------|------------|------------|-----|-------|---|----------------|----------------|---------|
| Analyte                                 | Result       | Qualifier  | RL         | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.8        | U          | 49.8       |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 23:31 | 1       |
| Diesel Range Organics (Over C10-C28)    | <49.8        | U          | 49.8       |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 23:31 | 1       |
| Oil Range Organics (Over C28-C36)       | <49.8        | U          | 49.8       |     | mg/Kg |   | 11/08/24 14:17 | 11/12/24 23:31 | 1       |
| Surrogate                               | %Recovery    | Qualifier  | Limits     |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                          | 88           |            | 70 - 130   |     |       |   | 11/08/24 14:17 | 11/12/24 23:31 | 1       |
| o-Terphenyl                             | 83           |            | 70 - 130   |     |       |   | 11/08/24 14:17 | 11/12/24 23:31 | 1       |

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble |        |           |      |     |       |   |  |          |                |         |
|--|--------|-----------|------|-----|-------|---|--|----------|----------------|---------|
| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D |  | Prepared | Analyzed       | Dil Fac |
| Chloride   | 17.4   |           | 9.98 |     | mg/Kg |   |  |          | 11/09/24 02:36 | 1       |

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### **Surrogate Summary**

Client: Crain Environmental

Project/Site: Chem State #1

Job ID: 880-50851-1

SDG: Lea Co. NM

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

Matrix: Solid Prep Type: Total/NA

|                    |                        | 1CO1     | OTPH1    | ent Surrogate F |
|--------------------|------------------------|----------|----------|-----------------|
| Lab Ossanla ID     | Olland Orange In ID    |          |          |                 |
| Lab Sample ID      | Client Sample ID       | (70-130) | (70-130) |                 |
| 880-50851-1        | S-1 (7')               | 87       | 75       |                 |
| 880-50851-2        | S-11 (0-4')            | 88       | 84       |                 |
| 880-50851-3        | S-11 (4-7')            | 91       | 90       |                 |
| 880-50851-4        | S-12 (0-4')            | 93       | 89       |                 |
| 880-50851-5        | S-12 (4-7')            | 79       | 93       |                 |
| 880-50851-6        | S-13 (0-4')            | 86       | 86       |                 |
| 880-50851-7        | S-13 (4-7')            | 104      | 99       |                 |
| 880-50851-8        | S-14 (0-4')            | 89       | 83       |                 |
| 880-50851-9        | S-2 (0-1.8')           | 89       | 83       |                 |
| 880-50851-10       | S-18 (1.8')            | 87       | 81       |                 |
| 880-50851-11       | S-32 (2.5')            | 95       | 88       |                 |
| 880-50851-12       | S-34 (2.5')            | 88       | 83       |                 |
| LCS 880-95276/2-A  | Lab Control Sample     | 155 S1+  | 134 S1+  |                 |
| LCS 880-95542/2-A  | Lab Control Sample     | 100      | 87       |                 |
| LCSD 880-95276/3-A | Lab Control Sample Dup | 146 S1+  | 127      |                 |
| LCSD 880-95542/3-A | Lab Control Sample Dup | 99       | 86       |                 |
| MB 880-95276/1-A   | Method Blank           | 93       | 89       |                 |
| MB 880-95542/1-A   | Method Blank           | 106      | 85       |                 |

1CO = 1-Chlorooctane OTPH = o-Terphenyl

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### **QC Sample Results**

Client: Crain Environmental Job ID: 880-50851-1 Project/Site: Chem State #1 SDG: Lea Co. NM

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

Lab Sample ID: MB 880-95276/1-A

Lab Sample ID: LCS 880-95276/2-A

Lab Sample ID: LCSD 880-95276/3-A

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 95559** 

**Analysis Batch: 95559** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 95276

|   | MB   | МВ   |   |   |   |   |  |   |  |
|---|--|--|---|---|---|---|--|---|--|
| Analyte                                 | Result   | Qualifier  | RL  | MDL   | Unit  | D   | Prepared   | Analyzed  | Dil Fac  |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <50.0  | U  | 50.0  |   | mg/Kg   |   | 11/08/24 14:17   | 11/12/24 10:10  | 1  |
| Diesel Range Organics (Over C10-C28)    | <50.0  | U  | 50.0  |   | mg/Kg   |   | 11/08/24 14:17   | 11/12/24 10:10  | 1  |
| Oil Range Organics (Over C28-C36)       | <50.0  | U  | 50.0  |   | mg/Kg   |   | 11/08/24 14:17   | 11/12/24 10:10  | 1  |
|   | Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28) | Analyte Result Gasoline Range Organics <50.0 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 C10-C28) | Gasoline Range Organics <50.0 U (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U C10-C28) | Analyte         Result         Qualifier         RL           Gasoline Range Organics         <50.0 | Analyte         Result         Qualifier         RL         MDL           Gasoline Range Organics         <50.0 | AnalyteResultQualifierRLMDLUnitGasoline Range Organics<50.0 | Analyte         Result         Qualifier         RL         MDL         Unit         D           Gasoline Range Organics         <50.0 | Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared           Gasoline Range Organics         <50.0 | Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           Gasoline Range Organics         <50.0 |

MB MB

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 93        |           | 70 - 130 | 11/08/24 14:17 | 11/12/24 10:10 | 1       |
| o-Terphenyl    | 89        |           | 70 - 130 | 11/08/24 14:17 | 11/12/24 10:10 | 1       |

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA** 

Prep Batch: 95276

|                                      | Spike | LCS    | LCS       |       |   |      | %Rec     |  |
|--------------------------------------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte                              | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |  |
| Gasoline Range Organics (GRO)-C6-C10 | 1000  | 1147   |           | mg/Kg |   | 115  | 70 - 130 |  |
| Diesel Range Organics (Over C10-C28) | 1000  | 1067   |           | mg/Kg |   | 107  | 70 - 130 |  |

LCS LCS

| Surrogate      | %Recovery | Qualifier | Limits   |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 155       | S1+       | 70 - 130 |
| o-Terphenyl    | 134       | S1+       | 70 - 130 |

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

**Analysis Batch: 95559** Prep Batch: 95276

|                             | Spike    | LCSD   | LCSD      |       |   |      | %Rec     |     | RPD   |  |
|-----------------------------|----------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte                     | Added    | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |  |
| Gasoline Range Organics     | <br>1000 | 1108   |           | mg/Kg |   | 111  | 70 - 130 | 3   | 20    |  |
| (GRO)-C6-C10                |          |        |           |       |   |      |          |     |       |  |
| Diesel Range Organics (Over | 1000     | 999.2  |           | mg/Kg |   | 100  | 70 - 130 | 7   | 20    |  |
| C10 C28)                    |          |        |           |       |   |      |          |     |       |  |

C10-C28)

**Matrix: Solid** 

LCSD LCSD

MB MB

| Surrogate      | %Recovery | Qualifier | Limits   |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 146       | S1+       | 70 - 130 |
| o-Terphenyl    | 127       |           | 70 - 130 |

Lab Sample ID: MB 880-95542/1-A Client Sample ID: Method Blank

**Matrix: Solid Prep Type: Total/NA Analysis Batch: 95595** Prep Batch: 95542

Result Qualifier MDL Unit Prepared Analyzed <50.0 U 11/12/24 13:02 11/13/24 19:33 Gasoline Range Organics 50.0 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 11/12/24 13:02 11/13/24 19:33 C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 11/12/24 13:02 11/13/24 19:33 mg/Kg

**Eurofins Midland** 

11/25/2024 (Rev. 1)

Client: Crain Environmental Job ID: 880-50851-1 SDG: Lea Co. NM Project/Site: Chem State #1

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

MB MB

Lab Sample ID: MB 880-95542/1-A

**Matrix: Solid** 

**Analysis Batch: 95595** 

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

Prep Batch: 95542

%Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 11/12/24 13:02 11/13/24 19:33 70 - 130 1-Chlorooctane 106 o-Terphenyl 85 70 - 130 11/12/24 13:02 11/13/24 19:33

Lab Sample ID: LCS 880-95542/2-A **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

**Analysis Batch: 95595** LCS LCS Spike

**Prep Type: Total/NA** Prep Batch: 95542

%Rec Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 969.0 mg/Kg 97 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 778.1 mg/Kg 78 70 - 130 C10-C28)

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 100 70 - 130 70 - 130 o-Terphenyl 87

Lab Sample ID: LCSD 880-95542/3-A

**Matrix: Solid** 

**Analysis Batch: 95595** 

Client Sample ID: Lab Control Sample Dup

**Prep Type: Total/NA** Prep Batch: 95542

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits **RPD Analyte** Unit D %Rec I imit 70 - 130 Gasoline Range Organics 1000 969.6 mg/Kg 97 0 20 (GRO)-C6-C10 1000 70 - 130 Diesel Range Organics (Over 745.5 mg/Kg 75 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 99 o-Terphenyl 70 - 130 86

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-95277/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

Analyte

Chloride

**Analysis Batch: 95293** 

MB MB Result Qualifier RL **MDL** Unit Dil Fac Prepared Analyzed 10.0 <10.0 U mg/Kg 11/08/24 21:43

Lab Sample ID: LCS 880-95277/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 95293** 

Released to Imaging: 1/14/2025 9:38:29 AM

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 267.3 107 mg/Kg

Client: Crain Environmental Job ID: 880-50851-1 SDG: Lea Co. NM Project/Site: Chem State #1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-95277/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 95293** 

LCSD LCSD RPD Spike %Rec Result Qualifier Added Unit %Rec Limits RPD Limit Analyte D 90 - 110 Chloride 250 271.1 mg/Kg 108 20

Lab Sample ID: MB 880-95290/1-A Client Sample ID: Method Blank

**Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 95294** 

MB MB **MDL** Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac 10.0 11/09/24 00:58 Chloride <10.0 U mg/Kg

Lab Sample ID: LCS 880-95290/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 95294** 

Spike LCS LCS %Rec Added Result Qualifier Limits **Analyte** Unit D %Rec Chloride 250 238.9 96 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-95290/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 95294** 

Spike LCSD LCSD %Rec **RPD** Added Analyte Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 239.8 mg/Kg 90 - 110

Lab Sample ID: 880-50851-3 MS Client Sample ID: S-11 (4-7')

**Matrix: Solid** 

**Analysis Batch: 95294** 

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added %Rec Limits Result Qualifier Unit Chloride 3810 2490 6347 102 90 - 110 mg/Kg

Lab Sample ID: 880-50851-3 MSD Client Sample ID: S-11 (4-7') **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 95294** 

Released to Imaging: 1/14/2025 9:38:29 AM

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits **RPD** Limit Analyte Unit %Rec 3810 2490 6367 Chloride mg/Kg 103 90 - 110 20

**Eurofins Midland** 

**Prep Type: Soluble** 

Client: Crain Environmental
Project/Site: Chem State #1
Job ID: 880-50851-1
SDG: Lea Co. NM

GC Semi VOA

Prep Batch: 95276

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-50851-2        | S-11 (0-4')            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-50851-3        | S-11 (4-7')            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-50851-4        | S-12 (0-4')            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-50851-5        | S-12 (4-7')            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-50851-6        | S-13 (0-4')            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-50851-7        | S-13 (4-7')            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-50851-8        | S-14 (0-4')            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-50851-9        | S-2 (0-1.8')           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-50851-10       | S-18 (1.8')            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-50851-11       | S-32 (2.5')            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-50851-12       | S-34 (2.5')            | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-95276/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-95276/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-95276/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

Prep Batch: 95542

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method Pre  | p Batch |
|--------------------|------------------------|-----------|--------|-------------|---------|
| 880-50851-1        | S-1 (7')               | Total/NA  | Solid  | 8015NM Prep |         |
| MB 880-95542/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |         |
| LCS 880-95542/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |         |
| LCSD 880-95542/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |         |

**Analysis Batch: 95559** 

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-50851-2        | S-11 (0-4')            | Total/NA  | Solid  | 8015B NM | 95276      |
| 880-50851-3        | S-11 (4-7')            | Total/NA  | Solid  | 8015B NM | 95276      |
| 880-50851-4        | S-12 (0-4')            | Total/NA  | Solid  | 8015B NM | 95276      |
| 880-50851-5        | S-12 (4-7')            | Total/NA  | Solid  | 8015B NM | 95276      |
| 880-50851-6        | S-13 (0-4')            | Total/NA  | Solid  | 8015B NM | 95276      |
| 880-50851-7        | S-13 (4-7')            | Total/NA  | Solid  | 8015B NM | 95276      |
| 880-50851-8        | S-14 (0-4')            | Total/NA  | Solid  | 8015B NM | 95276      |
| 880-50851-9        | S-2 (0-1.8')           | Total/NA  | Solid  | 8015B NM | 95276      |
| 880-50851-10       | S-18 (1.8')            | Total/NA  | Solid  | 8015B NM | 95276      |
| 880-50851-11       | S-32 (2.5')            | Total/NA  | Solid  | 8015B NM | 95276      |
| 880-50851-12       | S-34 (2.5')            | Total/NA  | Solid  | 8015B NM | 95276      |
| MB 880-95276/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 95276      |
| LCS 880-95276/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 95276      |
| LCSD 880-95276/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 95276      |

**Analysis Batch: 95595** 

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-50851-1        | S-1 (7')               | Total/NA  | Solid  | 8015B NM | 95542      |
| MB 880-95542/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 95542      |
| LCS 880-95542/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 95542      |
| LCSD 880-95542/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 95542      |

**Analysis Batch: 95605** 

| <b>Lab Sample ID</b><br>880-50851-1 | Client Sample ID S-1 (7') | Prep Type Total/NA | Matrix Solid | Method<br>8015 NM | Prep Batch |
|-------------------------------------|---------------------------|--------------------|--------------|-------------------|------------|
| 880-50851-2                         | S-11 (0-4')               | Total/NA           | Solid        | 8015 NM           |            |
| 880-50851-3                         | S-11 (4-7')               | Total/NA           | Solid        | 8015 NM           |            |

Client: Crain Environmental
Project/Site: Chem State #1
Job ID: 880-50851-1
SDG: Lea Co. NM

### **GC Semi VOA (Continued)**

#### **Analysis Batch: 95605 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-50851-4   | S-12 (0-4')      | Total/NA  | Solid  | 8015 NM |            |
| 880-50851-5   | S-12 (4-7')      | Total/NA  | Solid  | 8015 NM |            |
| 880-50851-6   | S-13 (0-4')      | Total/NA  | Solid  | 8015 NM |            |
| 880-50851-7   | S-13 (4-7')      | Total/NA  | Solid  | 8015 NM |            |
| 880-50851-8   | S-14 (0-4')      | Total/NA  | Solid  | 8015 NM |            |
| 880-50851-9   | S-2 (0-1.8')     | Total/NA  | Solid  | 8015 NM |            |
| 880-50851-10  | S-18 (1.8')      | Total/NA  | Solid  | 8015 NM |            |
| 880-50851-11  | S-32 (2.5')      | Total/NA  | Solid  | 8015 NM |            |
| 880-50851-12  | S-34 (2.5')      | Total/NA  | Solid  | 8015 NM |            |

### HPLC/IC

#### Leach Batch: 95277

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-50851-1        | S-1 (7')               | Soluble   | Solid  | DI Leach |            |
| 880-50851-2        | S-11 (0-4')            | Soluble   | Solid  | DI Leach |            |
| MB 880-95277/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-95277/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-95277/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |

#### Leach Batch: 95290

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-50851-3        | S-11 (4-7')            | Soluble   | Solid  | DI Leach |            |
| 880-50851-4        | S-12 (0-4')            | Soluble   | Solid  | DI Leach |            |
| 880-50851-5        | S-12 (4-7')            | Soluble   | Solid  | DI Leach |            |
| 880-50851-6        | S-13 (0-4')            | Soluble   | Solid  | DI Leach |            |
| 880-50851-7        | S-13 (4-7')            | Soluble   | Solid  | DI Leach |            |
| 880-50851-8        | S-14 (0-4')            | Soluble   | Solid  | DI Leach |            |
| 880-50851-9        | S-2 (0-1.8')           | Soluble   | Solid  | DI Leach |            |
| 880-50851-10       | S-18 (1.8')            | Soluble   | Solid  | DI Leach |            |
| 880-50851-11       | S-32 (2.5')            | Soluble   | Solid  | DI Leach |            |
| 880-50851-12       | S-34 (2.5')            | Soluble   | Solid  | DI Leach |            |
| MB 880-95290/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-95290/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-95290/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-50851-3 MS     | S-11 (4-7')            | Soluble   | Solid  | DI Leach |            |
| 880-50851-3 MSD    | S-11 (4-7')            | Soluble   | Solid  | DI Leach |            |

#### **Analysis Batch: 95293**

| Lab Sample ID<br>880-50851-1 | Client Sample ID S-1 (7') | Prep Type Soluble | Matrix<br>Solid | Method 300.0 | Prep Batch 95277 |
|------------------------------|---------------------------|-------------------|-----------------|--------------|------------------|
| 880-50851-2                  | S-11 (0-4')               | Soluble           | Solid           | 300.0        | 95277            |
| MB 880-95277/1-A             | Method Blank              | Soluble           | Solid           | 300.0        | 95277            |
| LCS 880-95277/2-A            | Lab Control Sample        | Soluble           | Solid           | 300.0        | 95277            |
| LCSD 880-95277/3-A           | Lab Control Sample Dup    | Soluble           | Solid           | 300.0        | 95277            |

#### **Analysis Batch: 95294**

| <b>Lab Sample ID</b> 880-50851-3 | Client Sample ID S-11 (4-7') | Prep Type Soluble | Matrix Solid | Method 300.0 | Prep Batch 95290 |
|----------------------------------|------------------------------|-------------------|--------------|--------------|------------------|
| 880-50851-4                      | S-12 (0-4')                  | Soluble           | Solid        | 300.0        | 95290            |
| 880-50851-5                      | S-12 (4-7')                  | Soluble           | Solid        | 300.0        | 95290            |

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Client: Crain Environmental
Project/Site: Chem State #1
Job ID: 880-50851-1
SDG: Lea Co. NM

### **HPLC/IC (Continued)**

#### **Analysis Batch: 95294 (Continued)**

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-50851-6        | S-13 (0-4')            | Soluble   | Solid  | 300.0  | 95290      |
| 880-50851-7        | S-13 (4-7')            | Soluble   | Solid  | 300.0  | 95290      |
| 880-50851-8        | S-14 (0-4')            | Soluble   | Solid  | 300.0  | 95290      |
| 880-50851-9        | S-2 (0-1.8')           | Soluble   | Solid  | 300.0  | 95290      |
| 880-50851-10       | S-18 (1.8')            | Soluble   | Solid  | 300.0  | 95290      |
| 880-50851-11       | S-32 (2.5')            | Soluble   | Solid  | 300.0  | 95290      |
| 880-50851-12       | S-34 (2.5')            | Soluble   | Solid  | 300.0  | 95290      |
| MB 880-95290/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 95290      |
| LCS 880-95290/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 95290      |
| LCSD 880-95290/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 95290      |
| 880-50851-3 MS     | S-11 (4-7')            | Soluble   | Solid  | 300.0  | 95290      |
| 880-50851-3 MSD    | S-11 (4-7')            | Soluble   | Solid  | 300.0  | 95290      |

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Job ID: 880-50851-1 SDG: Lea Co. NM

Client: Crain Environmental

Project/Site: Chem State #1

Job ID: 886

SDG: Le

Client Sample ID: S-1 (7')

Date Collected: 11/04/24 10:00

Lab Sample ID: 880-50851-1

Matrix: Solid

Date Collected: 11/04/24 10:00 Matrix: Solid Date Received: 11/08/24 13:35

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 95605  | 11/13/24 22:14 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.06 g | 10 mL  | 95542  | 11/12/24 13:03 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 95595  | 11/13/24 22:14 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.04 g  | 50 mL  | 95277  | 11/08/24 14:21 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 95293  | 11/09/24 00:54 | CH      | EET MID |

Client Sample ID: S-11 (0-4')

Date Collected: 11/04/24 10:05

Lab Sample ID: 880-50851-2

Matrix: Solid

Date Received: 11/08/24 13:35

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 95605  | 11/12/24 20:46 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.05 g | 10 mL  | 95276  | 11/08/24 14:17 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 95559  | 11/12/24 20:46 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.02 g  | 50 mL  | 95277  | 11/08/24 14:21 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 5      | 50 mL   | 50 mL  | 95293  | 11/09/24 01:01 | CH      | EET MID |

Client Sample ID: S-11 (4-7')

Date Collected: 11/04/24 10:10

Lab Sample ID: 880-50851-3

Matrix: Solid

Date Received: 11/08/24 13:35

|           | Batch<br>– | Batch       | _   | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|------------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type       | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis   | 8015 NM     |     | 1      |         |        | 95605  | 11/12/24 21:17 | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep |     |        | 10.04 g | 10 mL  | 95276  | 11/08/24 14:17 | EL      | EET MID |
| Total/NA  | Analysis   | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 95559  | 11/12/24 21:17 | TKC     | EET MID |
| Soluble   | Leach      | DI Leach    |     |        | 5.03 g  | 50 mL  | 95290  | 11/08/24 14:51 | SA      | EET MID |
| Soluble   | Analysis   | 300.0       |     | 10     | 50 mL   | 50 mL  | 95294  | 11/09/24 01:16 | CH      | EET MII |

Client Sample ID: S-12 (0-4')

Date Collected: 11/04/24 10:15

Lab Sample ID: 880-50851-4

Matrix: Solid

Date Received: 11/08/24 13:35

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 95605  | 11/12/24 21:32 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.06 g | 10 mL  | 95276  | 11/08/24 14:17 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 95559  | 11/12/24 21:32 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.04 g  | 50 mL  | 95290  | 11/08/24 14:51 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 95294  | 11/09/24 01:34 | CH      | EET MID |

Client Sample ID: S-12 (4-7')

Date Collected: 11/04/24 10:15

Lab Sample ID: 880-50851-5

Matrix: Solid

Date Received: 11/08/24 13:35

| _         |          |         |     |        |         |        |        |                |         |         |
|-----------|----------|---------|-----|--------|---------|--------|--------|----------------|---------|---------|
|           | Batch    | Batch   |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
| Prep Type | Type     | Method  | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM |     | 1      |         |        | 95605  | 11/12/24 21:48 | SM      | EET MID |

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Client Sample ID: S-12 (4-7')

Date Collected: 11/04/24 10:15

Date Received: 11/08/24 13:35

Client: Crain Environmental

Project/Site: Chem State #1

Lab Sample ID: 880-50851-5

**Matrix: Solid** 

Batch Batch Dil Initial Batch Final Prepared **Prep Type** Method Number or Analyzed Type Run **Factor** Amount Amount Analyst Lab Total/NA 8015NM Prep 95276 11/08/24 14:17 EL EET MID Prep 10.01 g 10 mL Total/NA 95559 8015B NM 1 uL 11/12/24 21:48 TKC Analysis 1 1 uL **EET MID** Soluble Leach DI Leach 5.03 q 50 mL 95290 11/08/24 14:51 SA **EET MID** Soluble Analysis 300.0 50 mL 50 mL 95294 11/09/24 01:41 CH **EET MID** 1

Lab Sample ID: 880-50851-6

Matrix: Solid

Date Collected: 11/04/24 10:20 Date Received: 11/08/24 13:35

Client Sample ID: S-13 (0-4')

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 95605  | 11/12/24 22:03 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.02 g | 10 mL  | 95276  | 11/08/24 14:17 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 95559  | 11/12/24 22:03 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.02 g  | 50 mL  | 95290  | 11/08/24 14:51 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 5      | 50 mL   | 50 mL  | 95294  | 11/09/24 01:47 | CH      | EET MID |

Client Sample ID: S-13 (4-7') Lab Sample ID: 880-50851-7 Date Collected: 11/04/24 10:25

**Matrix: Solid** 

Date Received: 11/08/24 13:35

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 95605  | 11/12/24 22:18 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.04 g | 10 mL  | 95276  | 11/08/24 14:17 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 95559  | 11/12/24 22:18 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.05 g  | 50 mL  | 95290  | 11/08/24 14:51 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 95294  | 11/09/24 01:53 | CH      | EET MID |

Lab Sample ID: 880-50851-8 Client Sample ID: S-14 (0-4') **Matrix: Solid** 

Date Collected: 11/04/24 10:30 Date Received: 11/08/24 13:35

| Prep Type Total/NA   | Batch Type Analysis | Batch Method 8015 NM    | Run | Factor 1 | Initial<br>Amount | Final<br>Amount | Batch<br>Number<br>95605 | Prepared<br>or Analyzed<br>11/12/24 22:32 | Analyst SM | Lab<br>EET MID     |
|----------------------|---------------------|-------------------------|-----|----------|-------------------|-----------------|--------------------------|---|------------|--------------------|
| Total/NA<br>Total/NA | Prep<br>Analysis    | 8015NM Prep<br>8015B NM |     | 1        | 10.05 g<br>1 uL   | 10 mL<br>1 uL   | 95276<br>95559           | 11/08/24 14:17<br>11/12/24 22:32          | EL<br>TKC  | EET MID<br>EET MID |
| Soluble<br>Soluble   | Leach<br>Analysis   | DI Leach<br>300.0       |     | 1        | 4.98 g<br>50 mL   | 50 mL<br>50 mL  | 95290<br>95294           | 11/08/24 14:51<br>11/09/24 02:11          | SA<br>CH   | EET MID<br>EET MID |

**Client Sample ID: S-2 (0-1.8')** Lab Sample ID: 880-50851-9

Date Collected: 11/04/24 10:35 Date Received: 11/08/24 13:35

|           | Batch    | Batch   |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|---------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method  | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM |     | 1      |         |        | 95605  | 11/12/24 22:47 | SM      | EET MID |

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**Matrix: Solid** 

SDG: Lea Co. NM

**Client Sample ID: S-2 (0-1.8')** 

Lab Sample ID: 880-50851-9

**Matrix: Solid** 

Date Collected: 11/04/24 10:35 Date Received: 11/08/24 13:35

Client: Crain Environmental

Project/Site: Chem State #1

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.01 g | 10 mL  | 95276  | 11/08/24 14:17 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 95559  | 11/12/24 22:47 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.95 g  | 50 mL  | 95290  | 11/08/24 14:51 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 95294  | 11/09/24 02:17 | CH      | EET MID |

Lab Sample ID: 880-50851-10

**Matrix: Solid** 

Date Collected: 11/04/24 10:50 Date Received: 11/08/24 13:35

Client Sample ID: S-18 (1.8')

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 95605  | 11/12/24 23:01 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.02 g | 10 mL  | 95276  | 11/08/24 14:17 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 95559  | 11/12/24 23:01 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.02 g  | 50 mL  | 95290  | 11/08/24 14:51 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 95294  | 11/09/24 02:24 | CH      | EET MID |

Lab Sample ID: 880-50851-11 **Client Sample ID: S-32 (2.5')** 

Date Collected: 11/04/24 11:05 **Matrix: Solid** 

Date Received: 11/08/24 13:35

| _         | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 95605  | 11/12/24 23:17 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.04 g | 10 mL  | 95276  | 11/08/24 14:17 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 95559  | 11/12/24 23:17 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.03 g  | 50 mL  | 95290  | 11/08/24 14:51 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 95294  | 11/09/24 02:30 | CH      | EET MID |

Client Sample ID: S-34 (2.5') Lab Sample ID: 880-50851-12

Date Collected: 11/04/24 11:10 **Matrix: Solid** Date Received: 11/08/24 13:35

| _         | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 95605  | 11/12/24 23:31 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.05 g | 10 mL  | 95276  | 11/08/24 14:17 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 95559  | 11/12/24 23:31 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.01 g  | 50 mL  | 95290  | 11/08/24 14:51 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 95294  | 11/09/24 02:36 | CH      | EET MID |

**Laboratory References:** 

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

## **Accreditation/Certification Summary**

Client: Crain Environmental Job ID: 880-50851-1 Project/Site: Chem State #1 SDG: Lea Co. NM

### **Laboratory: Eurofins Midland**

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

| Authority | Progra   | am | Identification Number                          | <b>Expiration Date</b>   |
|-----------|--|----|--|--------------------------|
| Texas     | NELAF  | )  | T104704400                                     | 06-30-25                 |
|           |  |    |  |                          |
|           |  |    |  |                          |
| 0 ,       | •  | •  | not certified by the governing author          | ity. This list may inclu |
| 0 ,       | s are included in this repor<br>does not offer certification | •  | not certified by the governing author          | ity. This list may inclu |
| 0 ,       | •  | •  | not certified by the governing author  Analyte | ity. This list may inclu |

# **Method Summary**

Client: Crain Environmental Project/Site: Chem State #1 Job ID: 880-50851-1

SDG: Lea Co. NM

| Method<br>8015 NM<br>8015B NM | Method Description  Diesel Range Organics (DRO) (GC)  Diesel Range Organics (DRO) (GC) | Protocol           SW846           SW846 | Laboratory  EET MID  EET MID |
|-------------------------------|--|--|------------------------------|
| 300.0                         | Anions, Ion Chromatography   | EPA                                      | 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.

### Laboratory References:

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

**Eurofins Midland** 

## **Sample Summary**

Client: Crain Environmental Project/Site: Chem State #1

Job ID: 880-50851-1 SDG: Lea Co. NM

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| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth  |
|---------------|------------------|--------|----------------|----------------|--------|
| 880-50851-1   | S-1 (7')         | Solid  | 11/04/24 10:00 | 11/08/24 13:35 | 7'     |
| 880-50851-2   | S-11 (0-4')      | Solid  | 11/04/24 10:05 | 11/08/24 13:35 | 0-4'   |
| 880-50851-3   | S-11 (4-7')      | Solid  | 11/04/24 10:10 | 11/08/24 13:35 | 4-7'   |
| 880-50851-4   | S-12 (0-4')      | Solid  | 11/04/24 10:15 | 11/08/24 13:35 | 0-4'   |
| 880-50851-5   | S-12 (4-7')      | Solid  | 11/04/24 10:15 | 11/08/24 13:35 | 4-7'   |
| 880-50851-6   | S-13 (0-4')      | Solid  | 11/04/24 10:20 | 11/08/24 13:35 | 0-4'   |
| 880-50851-7   | S-13 (4-7')      | Solid  | 11/04/24 10:25 | 11/08/24 13:35 | 4-7'   |
| 880-50851-8   | S-14 (0-4')      | Solid  | 11/04/24 10:30 | 11/08/24 13:35 | 0-4'   |
| 880-50851-9   | S-2 (0-1.8')     | Solid  | 11/04/24 10:35 | 11/08/24 13:35 | 0-1.8' |
| 880-50851-10  | S-18 (1.8')      | Solid  | 11/04/24 10:50 | 11/08/24 13:35 | 1.8'   |
| 880-50851-11  | S-32 (2.5')      | Solid  | 11/04/24 11:05 | 11/08/24 13:35 | 0-2.5' |
| 880-50851-12  | S-34 (2.5')      | Solid  | 11/04/24 11:10 | 11/08/24 13:35 | 0-2.5' |

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880-50851 Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

**Environment Testing** 

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Xenco

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Chain of Custody

Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

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Revised Date: 08/25/2020 Rev. 2020.

Date/Time

Received by: (Signature)

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Relipquished by (Signature)

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11 12

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Level IV DI Water: H<sub>2</sub>O Superfund MeOH: Me HNO 3: HN NaOH: Na NaOH+Ascorbic Acid: SAPC Sample Comments Preservative Codes Zn Acetate+NaOH: Zn Reporting: Level III Level III PST/UST TRRP RRC Na 25 20 3: Na SO 3 Other: TI Sn U V Zn NaHSO 4: NABIS Hg: 1631 / 245.1 / 7470 / 7471 Brownfields None: NO H<sub>3</sub>PO<sub>4</sub>: HP H<sub>2</sub>S0<sub>4</sub>: H<sub>2</sub> Page Cool: Cool Work Order Comments HCL: HC ADaPT www.xenco.com K Se Ag SiO<sub>2</sub> Na Sr PRP EDD UST/PST State of Project: 1/1/ Deliverables: Ca Cr Co Cu Fe Pb Mg Mn Mo Ni TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Program: service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Active: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and condition submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously ANALYSIS REQUEST 54 300 19701 This Goddy Widhad TX Cindy. Crain & grazil. 100 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd 310 W. Wall. Detone 191019g WSIOS HOLL # of Cont Pres. Parameters Bill to: (if different) Company Name: Comp Grab/ City, State ZIP: TAT starts the day received by the lab, if received by 4:30pm 2 of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample Rush 0-4 0.4 Address: 4-7 0.4 Depth 4.7 Yes 105011.8 Email: 1005 1045 1020 1030 1035 1010 125 Routine 0001 1015 Due Date: Corrected Temperature: Sampled Wet Ice: Temperature Reading: Correction Factor: Thermometer ID: 17/1/13 7976 Yes No rain Chrisomentel Sampled Date Circle Method(s) and Metal(s) to be analyzed 575) 441-7244 7 Matrix S Gain A Z NM cain Yes No N/A Chan State Temp Blank: 200.8 / 6020: Yes No 10/0550 Yes No 1925 C. indu .8. . 7 (.4-0 Sample Identification 0-4. 1.8. -ナ・マ .4-0 Samples Received Intact: Total 200.7 / 6010 Sample Custody Seals: 7 Cooler Custody Seals: SAMPLE RECEIPT Project Manager: roject Number Project Location: Sampler's Name: **Fotal Containers:** Company Name: City, State ZIP: Project Name: 5-13 5-18 3 - 12 5-12 5-11 5-1 5-11 Address: Phone: PO #: S S

Work Order No:

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

**Environment Testing** 

Xenco

Chain of Custody

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

| Project Manager:  | 9,  |   | Hobbs,<br>Bill to: (if different)   | 5, NM (57)                                   | Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199  **Referent**  **List Canady**  **List Canady**   | www.xenco.c   | Page 2 o  |
|---|---|---|---|--|---|---|---|
| Company Name:   | Cain Chrisonmenta.  | nta)  | Company Name:   | ài   | Detane  | PRP   | Brownfields RRC Superfund   |
| Address:  | *   | ,   | Address:  |  | 310 W. Wall, 54. 300  |   |   |
| City, State ZIP:  | Ode550, TX 79   | 79761   | City, State ZIP:  |  | Midland, TX 79701   | Reporting: Level      Level                           | PST/UST TRRP Level IV   |
| Phone:  | (575) 441-7244  | Y Email:  | Ciny, Crain @   | Crais  | @ gmail. con  | Deliverables: EDD ADal                                | ADaPT Other:  |
| Project Name:   | Chen State #1   | Tum   | Turn Around   |  | ANALYSIS  | ANALYSIS REQUEST                                      | Preservative Codes  |
| Project Number:   | j   | Routine   | Rush  | Pres.<br>Code                                |   |   | None: NO DI Water: H <sub>2</sub> O                               |
| Project Location:   | Lea Co NM   | Due Date:   |   |  |   |   | Cool: Cool MeOH: Me   |
| Sampler's Name:   | Lindy Crain   | TAT starts the  | TAT starts the day received by  |  |   |   | HCL: HC HNO 3: HN   |
| PO #:   |   | the lab, if rec   | the lab, if received by 4:30pm  | s  |   |   | H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na          |
| SAMPLE RECEIPT  | Temp Blank: Yes No  | No Wet Ice:   | Yes No  | eten   | lv  |   | H₃PO 4: HP  |
| Samples Received Intact:  | Yes No  | Thermometer ID:   |   | meı  | g<br>'G   |   | NaHSO 4: NABIS  |
| Cooler Custody Seals:   | Yes No N/A Corre  | Correction Factor:  |   | Pa   | 10  |   | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> |
| Sample Custody Seals:   | Yes No N/A Temp   | Temperature Reading:  |   |  | 18  |   | Zn Acetate+NaOH: Zn   |
| Total Containers:   | Corre   | Corrected Temperature:  |   |  | JOJ HO  | 7100  | NaOH+Ascorbic Acid: SAPC  |
| Sample Identification   | ication Matrix Sampled  | ite Time  | Depth Grab/   | # of<br>Cont                                 | JK.   |   | Sample Comments   |
| .32 (   |   | -   | n.35. C   |  | X   |   |   |
|   | 25.)  | +   | 0.25'   | ->   |   |   |   |
|   |   |   |   |  |   |   |   |
|   |   |   |   |  |   |   |   |
|   |   | 1   |   |  |   |   |   |
|   |   |   |   |  |   |   |   |
|   |   |   |   |  |   |   |   |
|   |   |   |   |  |   |   |   |
| Total 200.7 / 6010  | 200.8 / 6020:   | 8RCRA 13PPM   | 1 11  | Al Sb  | Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K  | b Mg Mn Mo Ni K Se Ag SiO, Na Sr Tl Sn U V Zn         | r TI Sn U V Zn  |
| ircle Method(s) a   | nd Me   |   | II  | CRA Sk                                       | Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U  | o Ni Se Ag TI U Hg: 1631/245.1                        | /245.1 /7470 /7471  |
| otice: Signature of this docui<br>service. Eurofins Xenco will<br>Eurofins Xenco. A minimum | ment and relinquishment of samples constitue lable only for the cost of samples and son charge of \$85.00 will be applied to each p | futes a valid purchase or<br>shall not assume any resp<br>project and a charge of \$5 | der from client compai<br>onsibility for any losses<br>for each sample subn | ny to Eurofie<br>or expense<br>nitted to Eur | Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incumed by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. | land terms and conditions<br>ances beyond the control |   |
| Relinquished by: (Signature)  | _   | Received by: (Signature)  | (ə.   |  | Date/Time Relinquished by: (Signature)  | ignature) Received by: (Signature)                    | e) Date/Time  |
| (ind.   | 1am   |   |   |  | 8 24 15352  |   |   |
| 0   |   |   |   | -  | 4   |   |   |
|   |   | )   |   |  | 9   |   |   |

11/25/2024 (Rev. 1)

## **Login Sample Receipt Checklist**

Client: Crain Environmental Job Number: 880-50851-1 SDG Number: Lea Co. NM

Login Number: 50851 List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

| 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    |         |

c 113 oj 123



**Appendix B: Photographic Documentation** 

### Appendix B Chem State #1



Well sign



View to N from sample S-7 location (3/12/24).



View to N of excavation (9/26/24).



View to E of excavation (9/26/24).



View to NW of excavation (11/4/24).



View to SE of excavation (11/4/24).

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 414446

### **QUESTIONS**

| Operator:                 | OGRID:  |
|---------------------------|---|
| CAMBRIAN MANAGEMENT LTD   | 198688  |
| 310 W Wall Street Ste 300 | Action Number:  |
| Midland, TX 79701         | 414446  |
|                           | Action Type:  |
|                           | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

### QUESTIONS

| Prerequisites    |   |
|------------------|---|
| Incident ID (n#) | nAPP2426159828                              |
| Incident Name    | NAPP2426159828 CHEM STATE #1 @ 30-025-08012 |
| Incident Type    | Oil Release                                 |
| Incident Status  | Remediation Closure Report Received         |
| Incident Well    | [30-025-08012] CHEM STATE #001              |

| Location of Release Source                     |            |
|--|------------|
| Please answer all the questions in this group. |            |
| Site Name Chem State #1                        |            |
| Date Release Discovered                        | 03/28/2024 |
| Surface Owner                                  | State      |

| ncident 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          |  |

| lature 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: Corrosion   Flow Line - Production   Crude Oil   Released: 7 BBL   Recovered: 5 BBL   Lost: 2 BBL. |  |  |  |
| Produced Water Released (bbls) Details   | Not answered.   |  |  |  |
| Is the concentration of chloride in the produced water >10,000 mg/l  | No  |  |  |  |
| 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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# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 414446

| QUEST   | IONS (continued)  |  |
|---|---|--|
| Operator:  CAMBRIAN MANAGEMENT LTD  310 W Wall Street Ste 300  Midland, TX 79701  | OGRID:  |  |
|   | [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 s   | 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  | The Chem State #1 well has been P&A'd and the site is being remediated/reclaimed according to State Land Office (SLO) specifications. Upon submitting a Reclamation and Remediation Workplan to the SLO, they requested an investigation of a barren area sout the well. This NOR is being submitted a result of samples collected along the abandone pipeline that reported TPH concentrations above the OCD Closure Criteria. This is a historical release. |  |
|   | lation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative<br>ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of<br>evaluation in the follow-up C-141 submission.   |  |
| to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to | knowledge and understand that pursuant to OCD rules and regulations all operators are require ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface it does not relieve the operator of responsibility for compliance with any other federal, state, or   |  |
| I hereby agree and sign off to the above statement  | Name: Socorro Hendry Title: Regulatory Manager Email: socorro.hendry@octane-energy.com  |  |

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 414446

**QUESTIONS** (continued)

| Operator:                 | OGRID:  |
|---------------------------|---|
| CAMBRIAN MANAGEMENT LTD   | 198688  |
| 310 W Wall Street Ste 300 | Action Number:  |
| Midland, TX 79701         | 414446  |
|                           | Action Type:  |
|                           | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

### QUESTIONS

| Site Characterization  | ite 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 elease discovery date. |                           |  |  |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)   | Between 100 and 500 (ft.) |  |  |
| What method was used to determine the depth to ground water  | U.S. Geological Survey    |  |  |
| Did this release impact groundwater or surface water   | No                        |  |  |
| Vhat 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  | Greater than 5 (mi.)      |  |  |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes  | Between 1 and 5 (mi.)     |  |  |
| Any other fresh water well or spring   | Greater than 5 (mi.)      |  |  |
| Incorporated municipal boundaries or a defined municipal fresh water well field  | Greater than 5 (mi.)      |  |  |
| A wetland  | Greater than 5 (mi.)      |  |  |
| A subsurface mine  | Greater than 5 (mi.)      |  |  |
| An (non-karst) unstable area   | Greater than 5 (mi.)      |  |  |
| Categorize the risk of this well / site being in a karst geology   | Low                       |  |  |
| A 100-year floodplain  | Greater than 5 (mi.)      |  |  |
| Did the release impact areas not on an exploration, development, production, or storage site   | No                        |  |  |

| Remediation Plan   |  |                        |  |
|--|--|------------------------|--|
| Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.  |  |                        |  |
| Requesting a remediation plan approval with this submission  |  | Yes                    |  |
| Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.  |  |                        |  |
| Have the lateral and vertical  | l extents of contamination been fully delineated           | Yes                    |  |
| Was this release entirely co   | ontained within a lined containment area                   | No                     |  |
| Soil Contamination Sampling  | : (Provide the highest observable value for each, in milli | igrams per kilograms.) |  |
| Chloride   | (EPA 300.0 or SM4500 CI B)                                 | 92.5                   |  |
| TPH (GRO+DRO+MRO)  | (EPA SW-846 Method 8015M)                                  | 394                    |  |
| GRO+DRO  | (EPA SW-846 Method 8015M)                                  | 394                    |  |
| 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 wi  | Il the remediation commence                                | 09/23/2024             |  |
| On what date will (or did) the final sampling or liner inspection occur  |  | 11/04/2024             |  |
| On what date will (or was) the remediation complete(d)   |  | 11/15/2024             |  |
| What is the estimated surface area (in square feet) that will be reclaimed   |  | 1000                   |  |
| What is the estimated volume (in cubic yards) that will be reclaimed   |  | 40                     |  |
| What is the estimated surface area (in square feet) that will be remediated  |  | 1000                   |  |
| What is the estimated volume (in cubic yards) that will be remediated  |  | 40                     |  |
| 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.

Released to Imaging: 1/14/2025 9:38:29 AM

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 4

Action 414446

QUESTIONS (continued)

| Operator:                 | OGRID:  |
|---------------------------|---|
| CAMBRIAN MANAGEMENT LTD   | 198688  |
| 310 W Wall Street Ste 300 | Action Number:  |
| Midland, TX 79701         | 414446  |
|                           | Action Type:  |
|                           | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

#### QUESTIONS

| Remediation Plan (continued)  |   |
|---|---|
| Please answer all the questions that apply or are indicated. This information must be provided to the | appropriate district office no later than 90 days after the release discovery date. |
| This remediation will (or is expected to) utilize the following processes to remediate                | / reduce contaminants:  |
| (Select all answers below that apply.)  |   |
| (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)                        | Yes   |
| Which OCD approved facility will be used for off-site disposal  | TNM-55-95 [fAB000000061]  |
| 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.   |

er Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.

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

Name: Socorro Hendry Title: Regulatory Manager I hereby agree and sign off to the above statement Email: socorro.hendry@octane-energy.com Date: 12/20/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 414446

**QUESTIONS** (continued)

| Operator:                 | OGRID:  |
|---------------------------|---|
| CAMBRIAN MANAGEMENT LTD   | 198688  |
| 310 W Wall Street Ste 300 | Action Number:  |
| Midland, TX 79701         | 414446  |
|                           | Action Type:  |
|                           | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

### QUESTIONS

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

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

Phone: (505) 629-6116
Online Phone Directory
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

# 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 414446

**QUESTIONS** (continued)

| Operator:                 | OGRID:  |
|---------------------------|---|
| CAMBRIAN MANAGEMENT LTD   | 198688  |
| 310 W Wall Street Ste 300 | Action Number:  |
| Midland, TX 79701         | 414446  |
|                           | Action Type:  |
|                           | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

#### QUESTIONS

| Sampling Event Information  |            |
|---|------------|
| Last sampling notification (C-141N) recorded  | 397635     |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 11/04/2024 |
| What was the (estimated) number of samples that were to be gathered                             | 2          |
| What was the sampling surface area in square feet   | 200        |

| Remediation Closure Request  |   |
|--|---|
| Only answer the questions in this group if seeking remediation closure for this release because all re   | emediation 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  | 1000  |
| What was the total volume (cubic yards) remediated   | 40  |
| 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   | 1000  |
| What was the total volume (in cubic yards) reclaimed   | 40  |
| Summarize any additional remediation activities not included by answers (above)  | The excavation will be backfilled with clean soil upon approval of this closure request and the surface area will be restored to pre-release conditions. Surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns. |

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: Socorro Hendry
Title: Regulatory Manager
Email: socorro.hendry@octane-energy.com
Date: 12/20/2024

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 7

Action 414446

**QUESTIONS** (continued)

| Operator:                 | OGRID:  |
|---------------------------|---|
| CAMBRIAN MANAGEMENT LTD   | 198688  |
| 310 W Wall Street Ste 300 | Action Number:  |
| Midland, TX 79701         | 414446  |
|                           | 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 |

General Information Phone: (505) 629-6116

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

CONDITIONS

Action 414446

#### **CONDITIONS**

| Operator:                 | OGRID:  |
|---------------------------|---|
| CAMBRIAN MANAGEMENT LTD   | 198688  |
| 310 W Wall Street Ste 300 | Action Number:  |
| Midland, TX 79701         | 414446  |
|                           | Action Type:  |
|                           | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

#### CONDITIONS

| Created By |  | Condition<br>Date |
|------------|--|-------------------|
| rhamlet    | We have received your Remediation Closure Report for Incident #NAPP2426159828 CHEM STATE #1, thank you. This Remediation Closure Report is approved. | 1/14/2025         |