From: Wells, Shelly, EMNRD
To: Gilbert Moreno
Cc: Bratcher, Michael, EMNRD; mjones@civiresources.com; eco@nmslo.gov
Subject: RE: [EXTERNAL] Sampling Variance Request - Nailed It B CTB - nAPP2519532647
Date: Friday, December 12, 2025 11:48:00 AM
Attachments: image001.png

Good morning Gilbert,

Please be advised that the request for larger square footage for final/confirmation 5-point composite samples is not a variance request. Pursuant to 19.15.29.12 D. (1)(b) NMAC, operators may request alternative sampling plans. Without an approved alternative sampling plan, the operator must collect final/confirmation 5-point composite samples where each composite sample is not representative of more than 200 square feet.

In future requests, please submit these types of requests as alternative sampling plans and not variance requests. Although, variance requests can be submitted with alternative sampling plans.

Variance requests should only be submitted for requests that fall outside of requirements of 19.15.29 NMAC. One example of a variance request would be deviating away from the requirements of 19.15.29.12 D. (1) NMAC.

If other applicable regulatory Agencies (BLM,SLO, Tribal etc,) impose additional requirements, it is the Operator's responsibility to meet all applicable requirements as OCD approval does not relieve the Operator of any regulatory requirements imposed by other agencies.

Your request for an alternative sampling plan is approved with the following conditions: Bottom confirmation samples may be collected at a frequency of no more than 400 ft2, while all sidewall samples will be required to be collected no more than every 200 ft2.

Sincerely,

Shelly

Shelly Wells * Senior Environmental Scientist
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Gilbert Moreno <gmoreno@earthsys.net>
Sent: Wednesday, December 10, 2025 12:49 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Mason Jones <mjones@civiresources.com>; NMSLO Environmental Compliance Office (ECO <eco@nmslo.gov>
Subject: [EXTERNAL] Sampling Variance Request - Nailed It B CTB - nAPP2519532647

Hello,

Earth Systems Response & Restoration (ESRR), on behalf of Civitas Resources (Civitas), presents the attached Sampling Variance Request cover letter, detailing the site characterization, background of events, and subsequent soil sampling performed to date associated with an inadvertent release of produced water at the Nailed It B CTB (nAPP2519532647). Civitas respectively requests a sampling variance for composite confirmation soil samples to be collected from the floor and sidewalls of the excavation from areas representing no greater than 800 square feet.

Attached:

- *Sampling Variance Request*
    - Figure 1 - Site Map
    - Figure 1A - Ground Water
    - Figure 1B - Karst Potential
    - Figure 2 - Delineation Soil Sample Locations
    - Figure 3 - Estimated Excavation Soil Sampling Locations
    - Table 1 - Soil Sample Analytical Results
    - Environmental Karst Study Report
    - Referenced Well Records
    - Executed Chain-of-Custody Forms and Laboratory Analytical Reports

Regards,

Gilbert Moreno
Carlsbad Operations Manager- Project Geologist
O: (575) 323-9034 C: (832) 541-7719
gmoreno@earthsys.net
earthsys.net

December 10, 2025

New Mexico Oil Conservation Division
506 W. Texas Ave
Artesia, NM 88210

RE: **Nailed It B CTB – Sampling Variance Request**
Incident Number: nAPP2519532647
GPS: 32.002686°, -103.842251°
Eddy County, New Mexico
ESRR Project No. 422

To Whom It May Concern:

Earth Systems Response & Restoration (ESRR), on behalf of Civitas Resources (Civitas), presents the following Sampling Variance Request (SVR) detailing the site characterization, background of events, and subsequent soil sampling performed to date associated with an inadvertent release of produced water and crude oil at the Nailed It B CTB (Site). Civitas respectively requests a sampling variance for composite confirmation soil samples to be collected from the floor and sidewalls of the excavation from areas representing no greater than 800 square feet (sqft.).

Site Location, Incident Description & Background

The Site is located in Unit D, Section 36, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.002686°, -103.842251°) and is associated with oil and gas exploration and production operations on State Land managed by the New Mexico State Land Office (NMSLO) (**Figure 1**).

On July 11, 2025, a valve separated from a 1-inch drain line, causing the release of approximately 75 barrels (bbls) of produced water onto a Civitas production pad. A vac truck was immediately dispatched and recovered 45 bbls of fluids. ESRR conducted initial site assessment activities and mapped the observed release footprint on July 14, 2025, hereafter referred to as the Area of Concern (AOC) (**Figure 2**). Civitas gave notice to the New Mexico Oil Conservation Division (NMOCD) by Notification of Release (NOR) and by Corrective Action Form C-141 (Form C-141) on July 14, 2025. The incident was subsequently assigned Incident Number nAPP2519532647.

Upon further review, Civitas deemed it necessary for a Environmental Karst Study Report and the installation of a temporary depth to groundwater well, to better understand the Site's Characterization. Southwest Geophysical Consulting, LLC. (SGC) were contracted to perform a surface and geophysical karst survey during August 2025. Upon approval by the New Mexico Office of State of Engineers (NMOSE), HR Enterprises, LLC. (H&R) were contracted to perform the temporary depth to groundwater (DTW) well during November 2025.

Site Characterization

ESRR characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). The following proximities were estimated:

- Between 1,000 feet and ½ miles of any continuously flowing watercourse or any other significant watercourse;
- Between 1 and 5 miles of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- Greater than 5 miles of any occupied permanent residence, school, hospital, institution or church;
- Between 1 and 5 miles of any spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Between 1 and 5 miles of any other freshwater well or spring;
- Greater than 5 miles of any incorporated municipal boundary or a defined municipal fresh water well field covered under a municipal ordinance;
- Between 1,000 feet and ½ miles of any wetland;
- Greater than 5 miles of any subsurface mine;
- Between 1,000 feet and ½ miles of any unstable area (non-karst); and
- Between 1 and 5 miles of a 100-year floodplain.

Receptor details used to determine the Site characterization are included in **Figure 1A** and **Figure 1B**. The **Environmental Karst Study Report** and **Referenced Well Records** for the closest depth to water wells are attached.

Based on the results from the EKS Report, SGC determined the following:

- *No surface karst features exist within the 200-foot (61-meter) perimeter of the spill delineation boundary.*
- *No anomalies consistent with subsurface air- or water- filled voids were found within the NIBC geophysical survey area, indicating the zone beneath the geophysical survey is not subject to collapse.*
- *Flat-lying stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground.*

Based on the temporary DTW well drilled by H&R, DTW is estimated to be greater than 100 feet below ground surface (bgs). The following Closure Criteria was applied:

Constituents of Concern (COCs)	Closure Criteria‡
Chloride	20,000 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	2,500 mg/kg
Gasoline Range Organics (GRO) + Diesel Range Organics (ORO)	1,000 mg/kg
Benzene	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	50 mg/kg

‡*The reclamation concentration requirements of 600 mg/kg Chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.*
TPH= Gasoline Range Organics + Diesel Range Organics + Oil Range Organics
Laboratory Analytical Methods used: Environmental Protection Agency (EPA) 300.0, EPA 8015 NM, EPA 8021 B

Delineation Activities

On July 18, 2025, ESRR conducted initial delineation activities to assess the presence or absence of soil impacts associated with the AOC. Twelve delineation boreholes (HA-1 through HA-12) were advanced via hand auger within and surrounding the AOC. Delineation activities were driven by field screening soil for chloride utilizing QuanTab® test strips. A minimum of two soil samples were collected from each delineation borehole, representing the highest observed field screening concentrations and/or the greatest depth. Delineation soil samples were placed directly into lab-provided pre-cleaned jars, packed with minimal void space, labeled, and placed on ice. The delineation soil samples were transported under strict chain-of-custody procedures, to Eurofins in Carlsbad, New Mexico, for analysis of the COCs.

Laboratory analytical results for all delineation soil samples collected within and surrounding the AOC (HA-1 through HA-12) were below the Site Closure Criteria and/or the reclamation standard within the

top 2 feet bgs of the AOC. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all delineation soil samples are shown in **Figure 2**.

Anticipated Remediation Activities

Due to the active status of the production pad, the top 4 feet of the AOC is not ready to undergo complete reclamation in which the primary purpose is to reestablish vegetation. With depth to groundwater estimated to be greater than 100 feet bgs and no sensitive receptors within the established buffers in NMAC 19.15.29.12, Civitas believes that a surficial scrape of residual chloride concentrations within the AOC, will meet the Site Closure Criteria set forth in NMAC 19.15.29.13 regulations and will be equally protective of human health, the environment, and groundwater. Civitas anticipates the remediation activities to commence by end of December 2025 or early January 2026. (**Figure 3**).

Sampling Variance Request

Civitas respectively requests a sampling variance for composite confirmation soil samples to be collected from the floor and sidewalls of the excavation from areas representing no greater than 800 sqft., decreasing the number of samples required from 86 to approximately 25. Civitas believes the sampling variance will still meet the requirements set forth in NMAC 19.15.29.13 regulations and will be equally representative of the protection of human health, the environment, and groundwater.

If you have any questions or comments, please do not hesitate to contact Gilbert Moreno at (832) 541-7719 or gmoreno@earthsys.net. **Executed Chain-of-Custody Forms and Laboratory Analytical Reports** are attached.

Sincerely,

EARTH SYSTEMS RESPONSE & RESTORATION

Gilbert Moreno
Carlsbad Operations Manager/ Project Geologist

cc: Mason Jones, Civitas Resources
New Mexico State Land Office

Attachments:
Figure 1 - Site Map
Figure 1A - Ground Water
Figure 1B - Karst Potential
Figure 2 - Delineation Soil Sample Locations
Figure 3 - Estimated Excavation Soil Sample Locations
Table 1 - Soil Sample Analytical Results
Environmental Karst Study Report
Referenced Well Records
Executed Chain-of-Custody Forms and Laboratory Analytical Reports

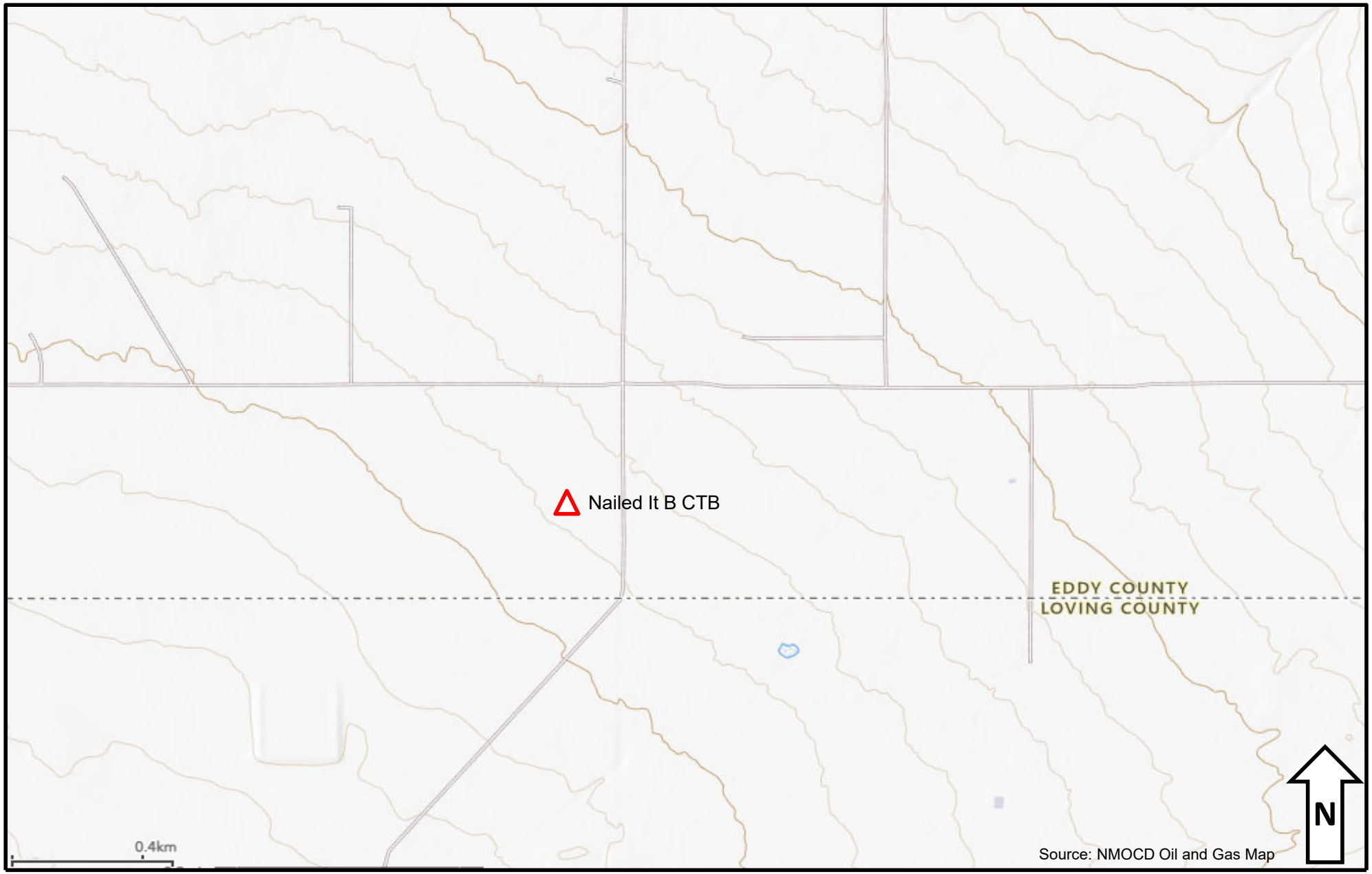

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Figure 1 – Site Map

Civitas Resources – Nailed It B CTB
GPS: 32.002686°, -103.842251°
Eddy County, New Mexico

CIVITAS

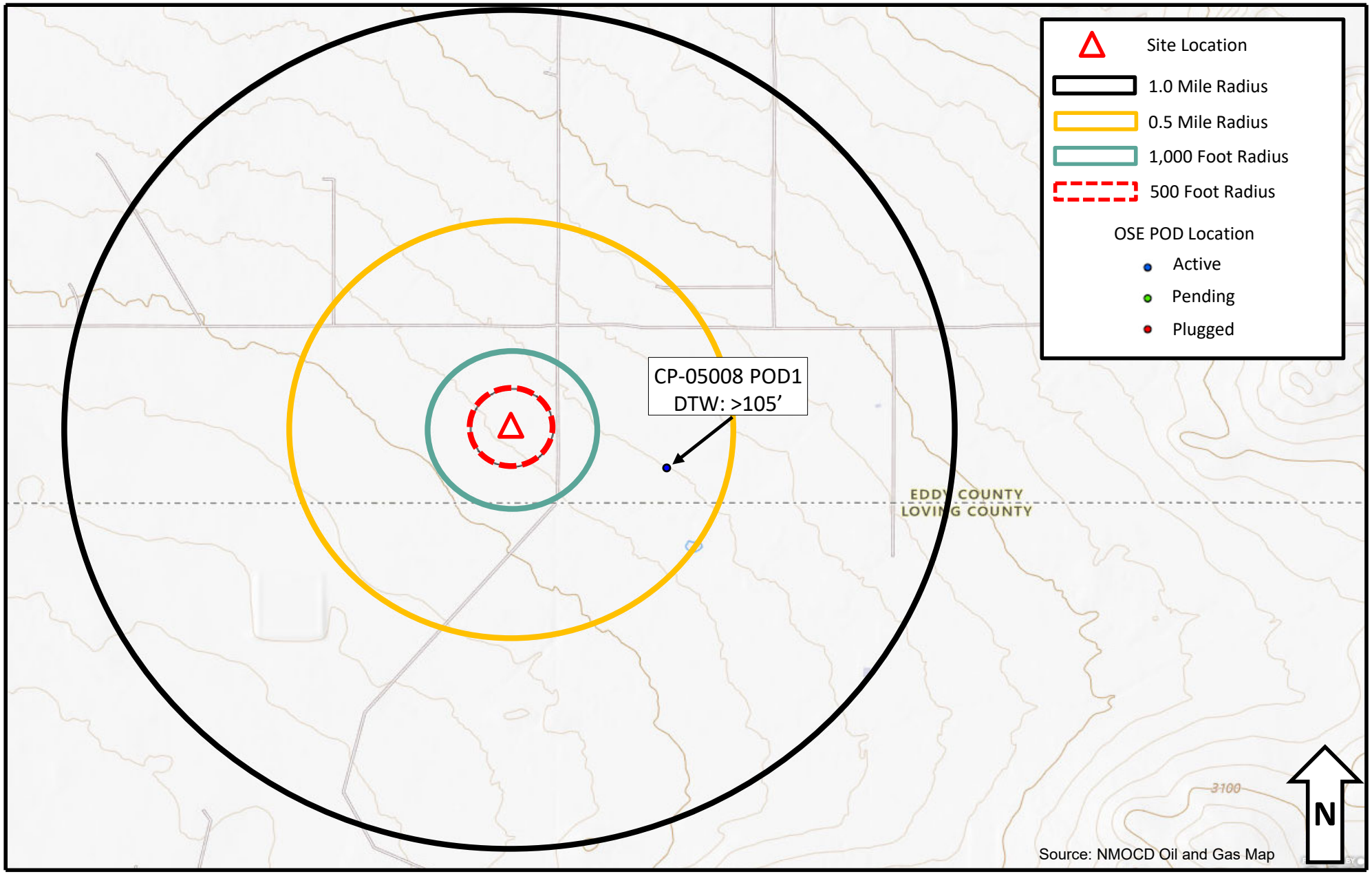

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Figure 3 – Ground Water

Civitas Resources – Nailed It B CTB
GPS: 32.002686°, -103.842251°
Eddy County, New Mexico

CIVITAS

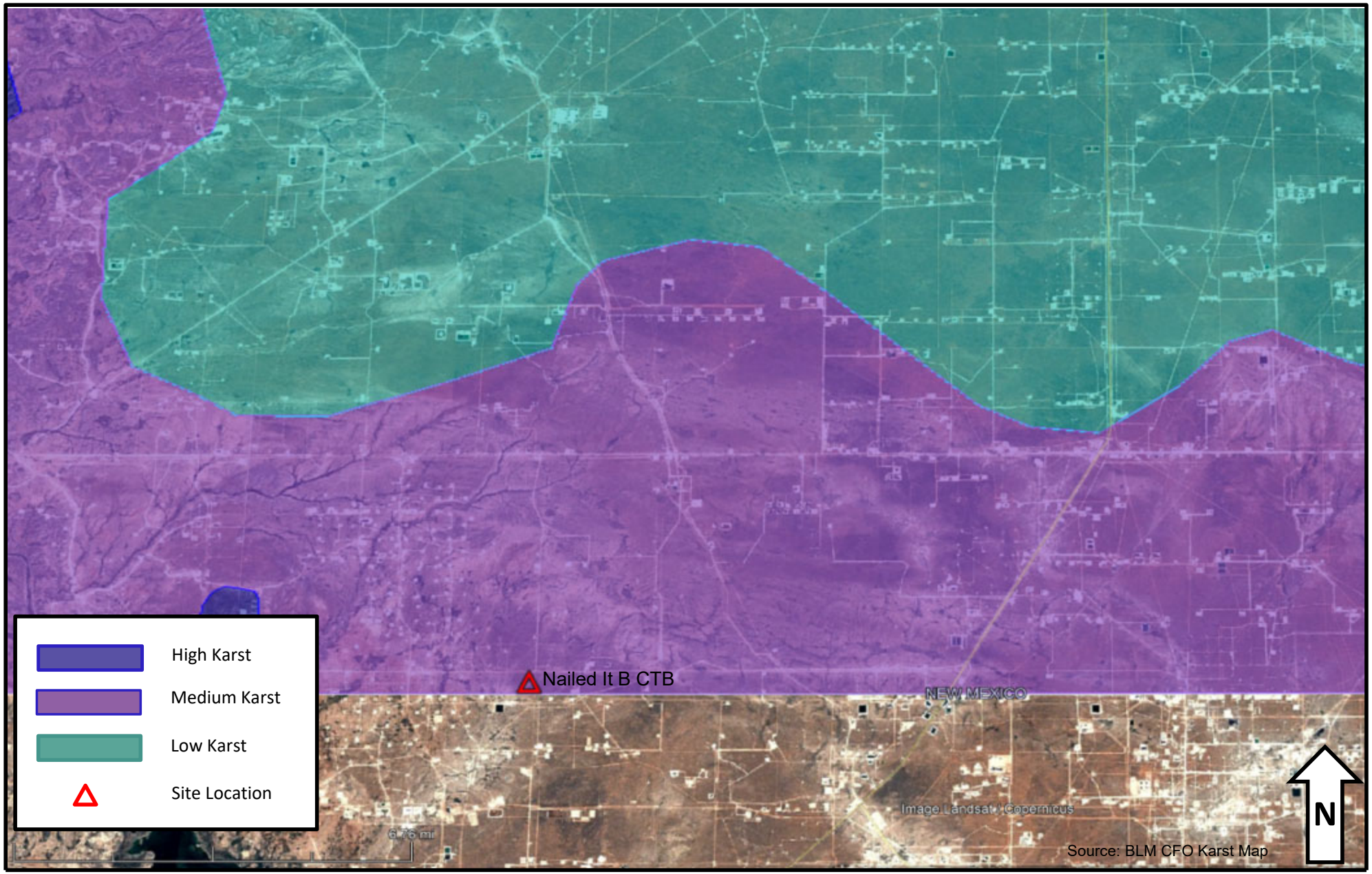

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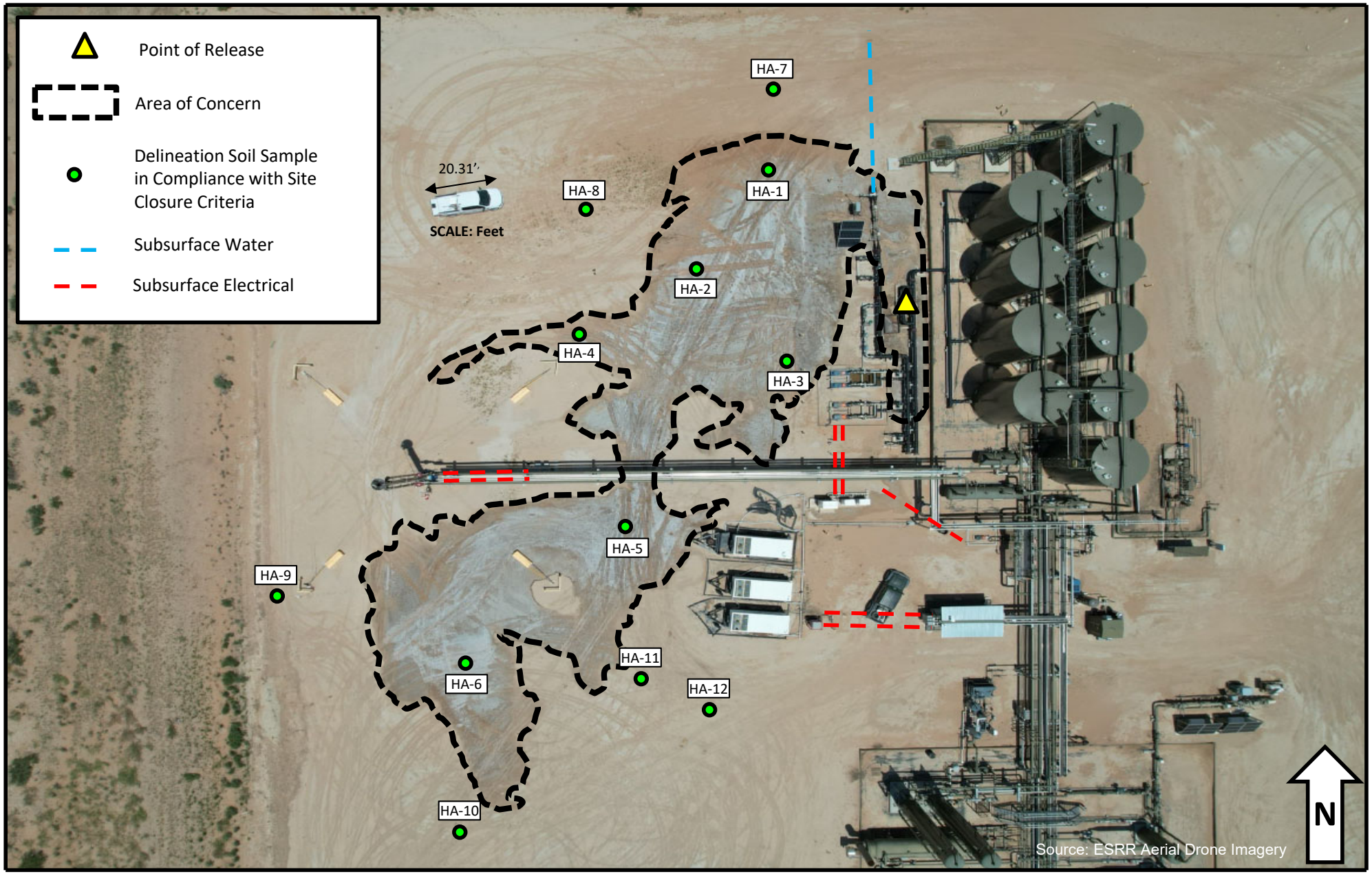
Figure 4 – Karst Potential

Civitas Resources – Nailed It B CTB
GPS: 32.002686°, -103.842251°
Eddy County, New Mexico

CIVITAS



Earth Systems Response & Restoration

Figure 2 – Delineation Soil Sample Locations

Civitas Resources – Nailed It B CTB
GPS: 32.002686°, -103.842251°
Eddy County, New Mexico

CIVITAS

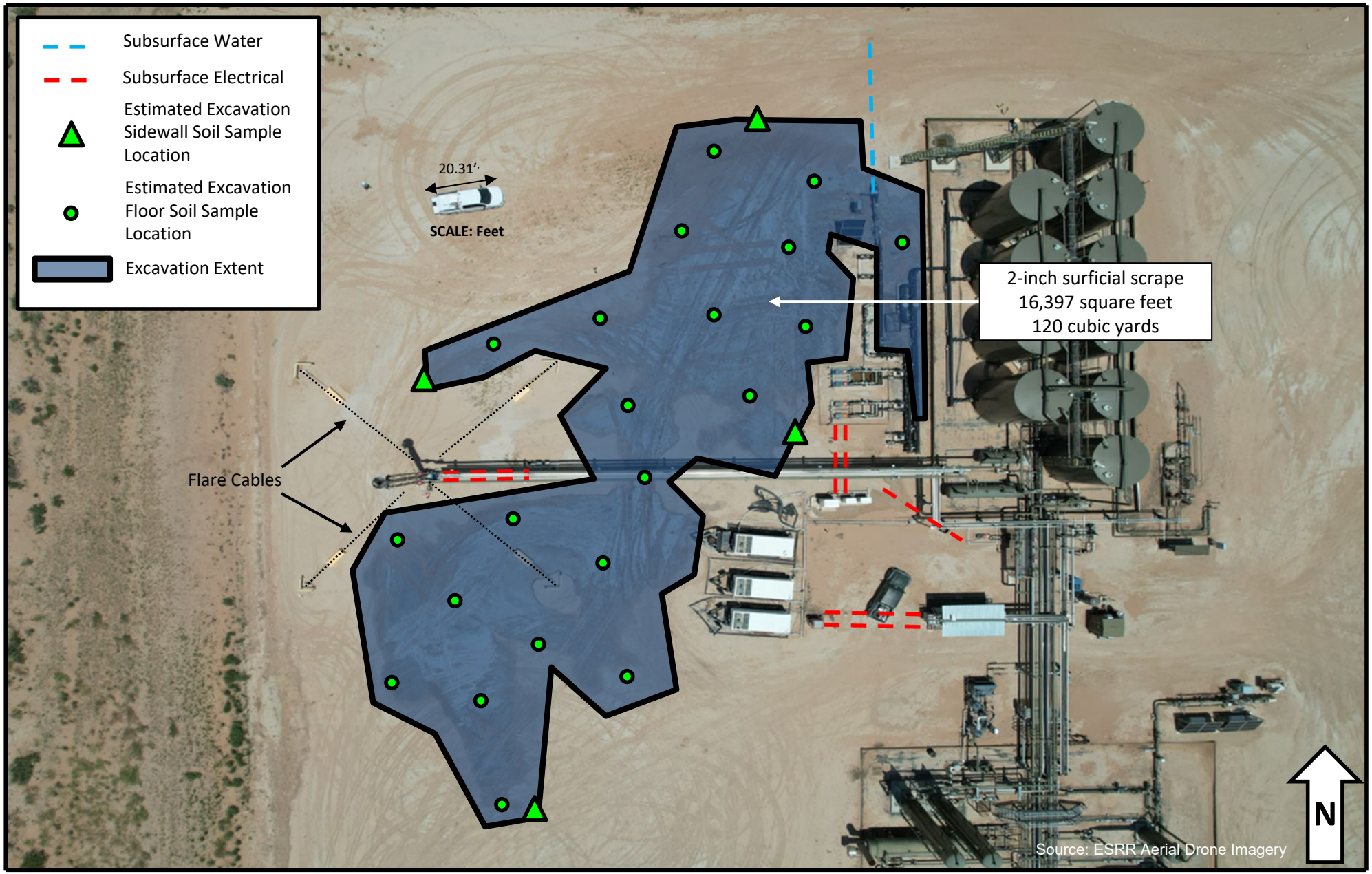


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Figure 3 – Estimated Excavation Soil Sample Locations

Civitas Resources – Nailed It B CTB
GPS: 32.002686°, -103.842251°
Eddy County, New Mexico

CIVITAS

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Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Nailed It B CTB
Eddy County, New Mexico

CIVITAS

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO + GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples - nAPP2519532647										
HA - 1	07/18/25	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	1,620
HA - 1	07/18/25	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	958
HA - 1	07/18/25	2	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	136
HA - 2	07/18/25	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	2,810
HA - 2	07/18/25	1	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	104
HA - 2	07/18/25	2	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	129
HA - 3	07/18/25	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	7,490
HA - 3	07/18/25	1	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	3,470
HA - 3	07/18/25	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	134
HA - 4	07/18/25	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	93.4
HA - 4	07/18/25	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	68.6
HA - 4	07/18/25	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	97.1
HA - 5	07/18/25	0.5	<0.00199	0.0103	<49.8	<49.8	<49.8	<49.8	<49.8	11,700
HA - 5	07/18/25	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	209
HA - 5	07/18/25	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	633
HA - 5	07/18/25	3	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	104
HA - 6	07/18/25	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,900
HA - 6	07/18/25	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	97.8
HA - 6	07/18/25	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	133
HA-7	07/18/25	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	116
HA-7	07/18/25	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	105

Earth Systems
Response & Restoration

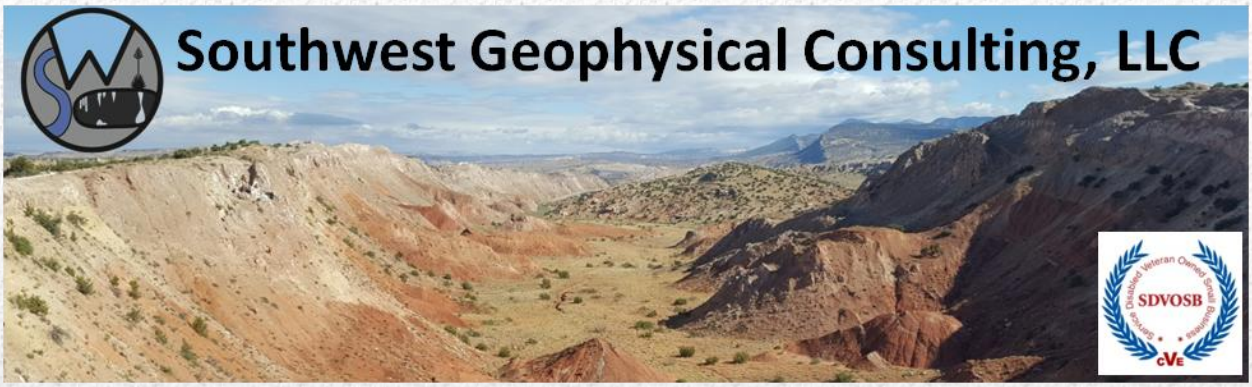
Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Nailed It B CTB
Eddy County, New Mexico

CIVITAS

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO + GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples - nAPP2519532647										
HA-8	07/18/25	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	63.9
HA-8	07/18/25	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	18.4
HA-9	07/18/25	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	22.0
HA-9	07/18/25	2	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	30.9
HA-10	07/18/25	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	12.4
HA-10	07/18/25	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	15.7
HA-11	07/18/25	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	4,660
HA-11	07/18/25	1	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	37.9
HA-11	07/18/25	2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	26.0
HA - 12	07/18/25	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	12.3
HA - 12	07/18/25	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	11.5

Notes:
bgs: below ground surface
mg/kg: milligrams per kilogram
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code
Text in "grey" represents excavated soil samples
Concentrations in **bold and highlighted** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard‡ for Soils Impacted by a Release
‡The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.



Environmental Karst Study Report
Nailed It B CTB
Eddy County, New Mexico

Prepared For:

Earth Systems, LLC
1910 Resource Court
Carlsbad, NM 88220

☐ **Positive within 200 feet of spill delineation boundary**

☑ **Negative within 200 feet of spill delineation boundary**

☑ **Stable** ☐ **Unstable Ground**

☐ **Karst Monitor Recommended**

August 29, 2025

ESYS-002-20250807

Published by:
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Carlsbad, NM 88220

Gilbert Moreno
(575) 323-9034
gmoreno@earthsys.net

MMXXV

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1.0 INTRODUCTION

This report was commissioned by Earth Systems, LLC (hereinafter referred to as "the client"), on August 7, 2025, for the purpose of conducting an environmental karst study within an area encompassing the Nailed It B CTB release site (hereinafter termed “NIBC”) centered at N 32.002619° W 103.842442°.

1.1 Goals of this Study

The goals of this study are to conduct a surface karst inventory and provide the client with the location and description of any surface karst features located within 200 feet (61 meters) of the spill delineation boundary (as defined by 19.15.29.12 NMAC[1]), and to determine whether stable ground exists (as defined by 19.15.2 NMAC Definitions[2]) within the spill delineation boundary of the Nailed It CTB release site as provided by the client via e-mail (**Nailed It B CTB_Release Extent.kmz**) on August 07, 2025, using electrical resistivity imaging[3].

1.2 Summary of Findings

- **No surface karst features exist within the 200-foot (61-meter) perimeter of the spill delineation boundary.**
- **No anomalies consistent with subsurface air- or water-filled voids were found within the NIBC geophysical survey area, indicating the zone beneath the geophysical survey is not subject to collapse.**
- **Flat-lying stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground.**

1.3 Affected Environment

The NIBC project site is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region. Additionally, karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The four primary concerns in these types of terrain are environmental issues, worker safety, equipment damage, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers[4]. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **MEDIUM** karst occurrence zone (MKOZ)[5] (**Figure 1**).

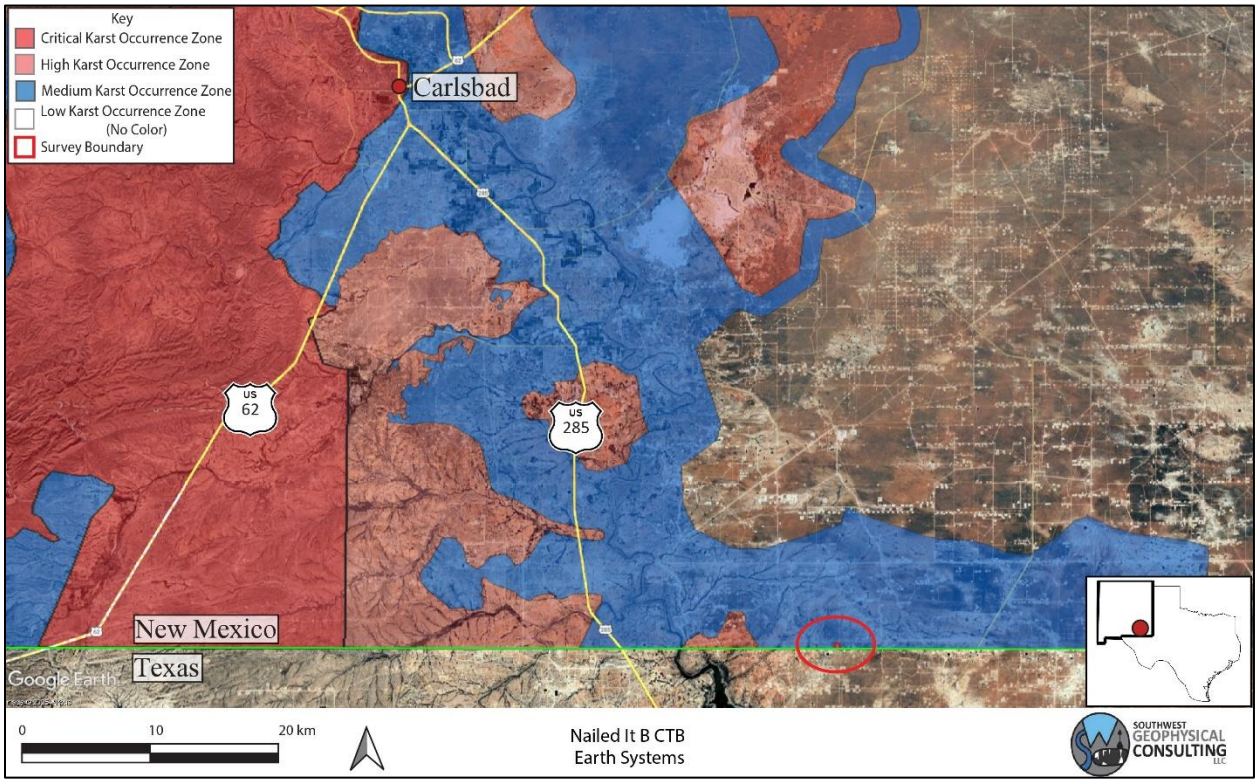

Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: August 21, 2024. Image datum: WGS-84.

A medium karst occurrence zone is defined as an area in known soluble rock types that may have a shallow insoluble overburden. These areas may contain isolated karst features such as caves and sinkholes. Groundwater recharge may not be wholly dependent on karst features, but the karst features still provide the most rapid aquifer recharge in response to surface runoff [4].

Due to the rapidity with which evaporite karst develops, each location within a karst occurrence zone must be assessed on an individual basis to determine the existence of surface karst features and the possibility of sub-surface karst development each time a release occurs.

1.4 Limitations of Report

This report should be read in full. No responsibility is accepted for the use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of Earth Systems, LLC, in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective consulting advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results in the field should be conducted prior to using this information for remediation planning. Physical verification of geophysical results using geotechnical methods should be conducted.

To the best of our knowledge, the information contained in this report is accurate at the date of issue. Due to the nature of karst terrain, the information in this report shall not be used beyond two years past the date of the field work provided in section ***2.3 Description of Survey***. Large weather events can shorten this time period as areas subject to karst development can rapidly form new features subsequent to these events.

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The site is located 58.7 kilometers (36.5 miles) southeast of Carlsbad, New Mexico, south of State Line Road and north of the New Mexico – Texas border in an area known as Red Bluffs. The spill delineation boundary is located within the western half of section 36, NM T26S R30E[6] (**Figure 1** and **Figure 2**). The region has rolling terrain with karstification occurring in the gypsite soils and underlying gypsum and dolomite bedrock[7] (see section ***2.2 Local Geology Summary*** for further information). The climate in this area of southeast New Mexico is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January[8]. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map[9] and the vegetation consists mostly of areas of blue grama, nine-awned pappus grass, burro grass and low scrub including yucca. The spill delineation boundary is located within an MKOZ[5] (**Figure 1**) and within NMSLO managed land[10] (**Figure 2**).

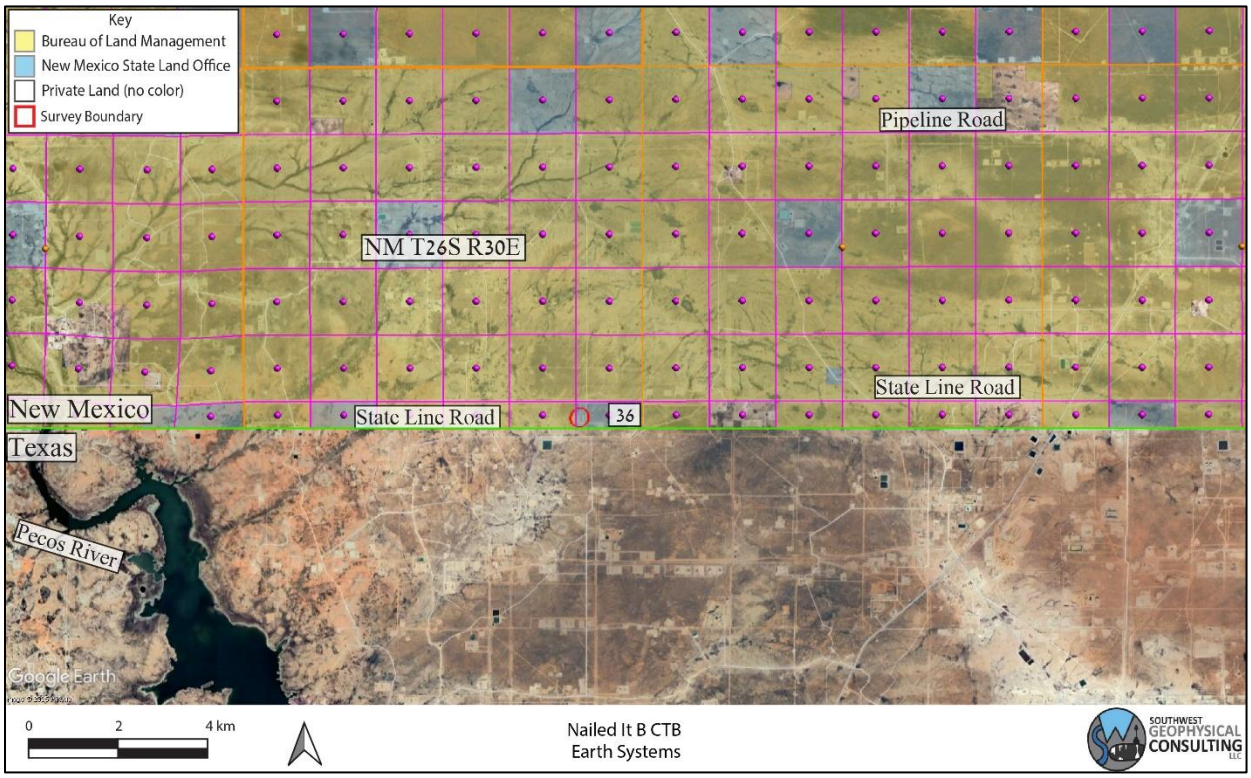

Figure 2: Land ownership and PLSS overview. Background image credit: Google Earth. Image date: December 31, 2023. Image datum: WGS-84.

2.2 Local Geology Summary

The site for the NIBC survey is located at an elevation of 919 meters (3,015 feet), ± 2 meters (6.6 feet), and is located within a region entirely underlain by the Permian Dewey Lake (Pdl) and Rustler (Pru) Formations. The area is mantled by thin gypsiferous soils (gypsite), Quaternary alluvium (Qal) and eolian sands (Qe)[11] up to 5 meters in depth (**Figure 3**).

The Dewey Lake Formation is composed of calcite-cemented, hematite-stained quartz sand grains[12] and occasional gypsum lenses and can, in favorable conditions, form cavernous porosity within 30 meters of the top of the Rustler Formation[13]. The Dewey Lake Formation is also known to be highly fractured near areas of heavy halite dissolution such as Nash Draw (approximately 25 kilometers north), and these fractures can act as hydrologic conduits.

The Rustler Formation is an evaporite facies and is composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite and gypsum[12], and contains both karst-forming strata (the Forty-niner and Tamarisk members) and two shallow aquifers (the Magenta and Culebra Dolomite members). The Forty-niner and Tamarisk members are known to have highly developed karst features including large voids and solution-enlarged fractures[14].

The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale[15] and the Digital Geologic Map of New Mexico in ARC/INFO Format[11].

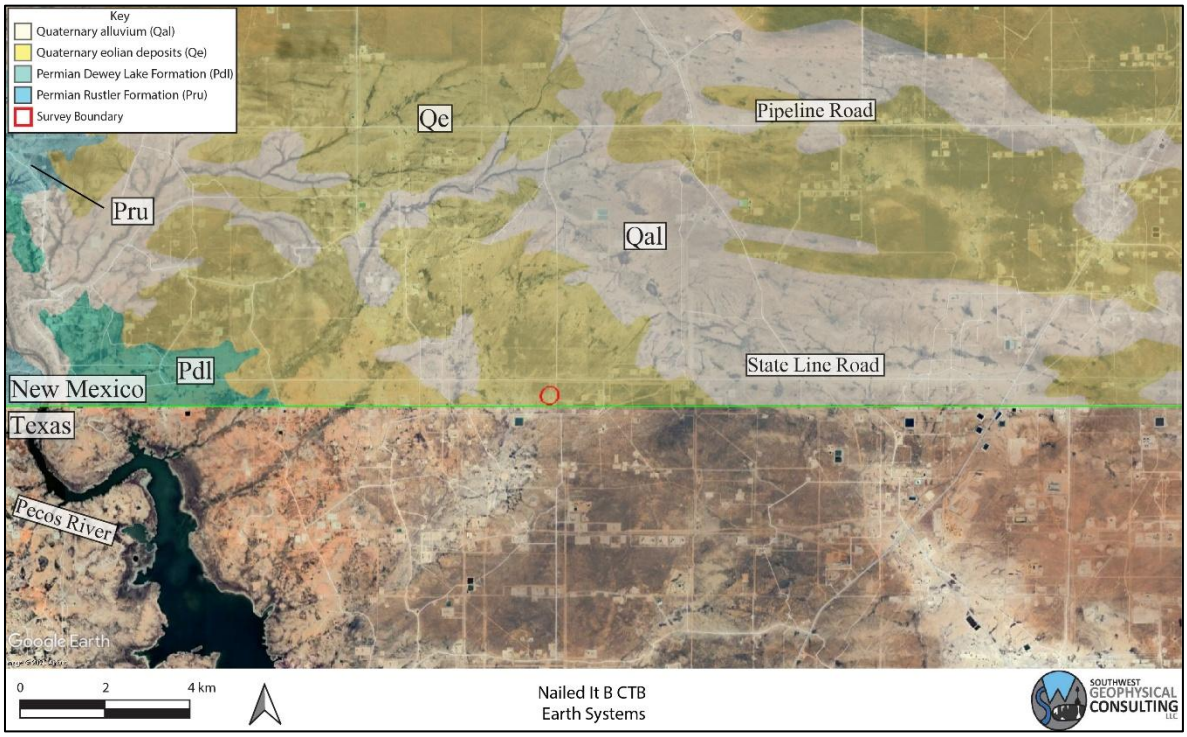

Figure 3: Geology overview. Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format. Background image credit: Google Earth. Image date: December 31, 2023. Image datum: WGS-84.

2.3 Description of Survey

2.3.1 Surface Karst Inventory

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides surface karst surveys using small, uncrewed aerial systems (sUAS) that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys.

The surface karst survey includes a desk study prior to the flight which allows us to provide client feedback in the event of any previously known karst features in the area. The desk study is performed out to 305 meters (1,000 feet) from the spill delineation boundary per New Mexico Oil Conservation Division guidance [1] (**Figure 4**). The study was performed using satellite and aerial imagery from Google Earth Pro dated December 31, 2023 (please note features less than one meter in diameter are generally not visible using this method); the Southwest Geophysical Cave and Karst Database dated April 25, 2025[16]; the Phantom Banks, NM, 1:24,000 quad, 1968, USGS topographic map; and the latest lidar imagery from CalTopo.com. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned no results within the survey boundary.

Surface karst surveys are conducted by sUAS at low elevation within 200 meters of the spill delineation boundary[4] (**Figure 4**) following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 6**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by an experienced karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report[17].

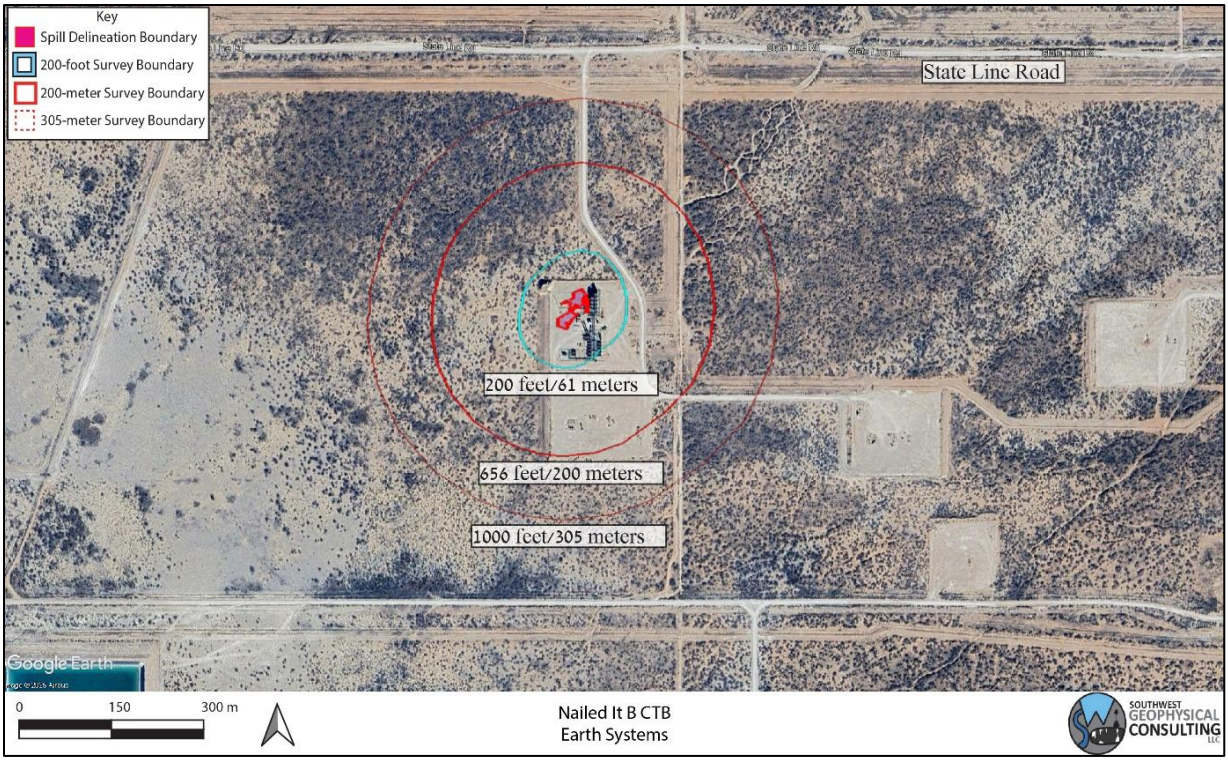

Figure 4: Surface survey overview. Background image credit: Google Earth. Image date: December 31, 2023. Datum: WGS-84.

The resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they are impacted by the proposed remediation efforts. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery. If an ambiguous feature is located during imagery analysis, it is marked with a yellow dot in **Figure 6**. If a feature of any likelihood is subsequently verified in the field prior to publication of the report, the dot will be changed to a red triangle if confirmed as a karst feature or deleted if not.

The imagery for this study was collected via aerial survey by Pat Lagodney of SWCA on August 16, 2025. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Dave Decker of Southwest Geophysical Consulting on August 18, 2025.

2.3.2 Geophysical Survey

For this survey, a Guideline Geo Terrameter LS 2 and a 28-electrode array of 40-centimeter-long electrodes were used to image the subsurface. This survey consisted of two resistivity lines in a dipole-dipole configuration. Line NIBC01 is laid out west to east while line NIBC02 is laid out south to north. Both lines consisted of 28 electrodes at 5-meter spacing, resulting in 135-meter-long arrays (**Figure 5**, **Table 1**). A preconfigured protocol file was used to run the data collection (DipoleDipole2x14). This electrode configuration provided a depth of investigation of 27 meters (89 feet) and a resolution of 2.5 to 3.0 meters (8.2 to 9.8 feet) within the first 5 to 8 meters (16 to 26 feet) from the surface. A Leica GS18 GPS was used to record electrode locations and elevations.

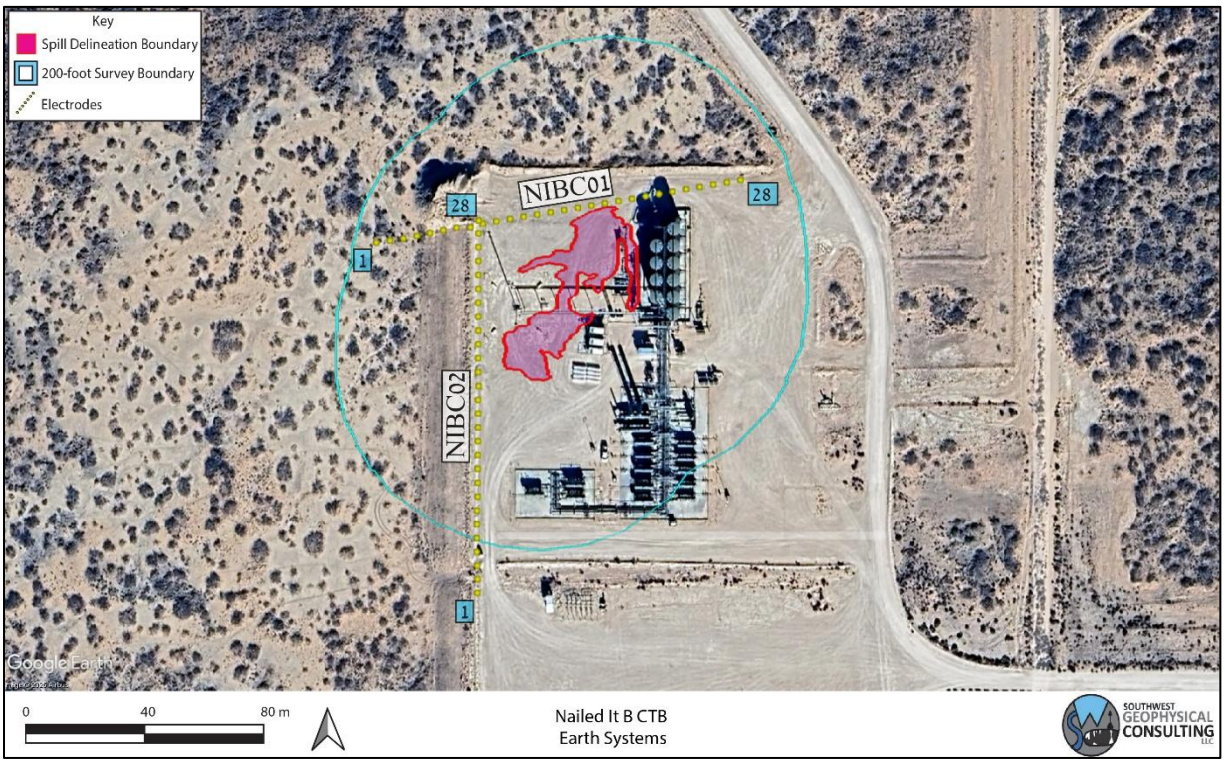

Figure 5: Geophysical survey overview. Two survey lines were conducted with 28 electrodes each (yellow dots denoted with blue numbers). Background image credit: Google Earth. Image date: December 31, 2023. Image datum: WGS-84.

Table 1 provides basic line data. Detailed information for each line including electrode number, location in latitude/longitude (decimal degree format), and elevation in meters can be found in the accompanying data files.

Table 1: Survey Line Data Table. The .kmz file contains all the points for the survey line listed in the file name. These data are available in the accompanying files NIBC_ERI_Points.xlsx and ESYS-002-20250807_NIBC_Data_Files.kmz.

File Name:	Completed By:	Date:
NIBC01.kmz	Garrett Jorgensen Olague – Senior Field Geologist Britt Bommer – Field Geologist Aaron Beirl – Field Geologist	8/19/2025
NIBC02.kmz		

EarthImager™ 2D software was used to download and process the data and to provide the model used to make our interpretations. The design of the survey and the orientation of each of the lines provides the information necessary to make the determination of "stable" or "unstable" ground at this site.

A typical starting model was used for the data processing due to the two-layer model of the geology in the area; specifically, generally high-resistivity gypsum and dolomite at the surface and low-resistivity saturated gypsum and dolomite bedrock at depth. The starting model used was "average apparent resistivity" and a default inversion setting of "surface," with a minimum apparent resistivity set to 0.1 Ohm-meters (Ohm-m or Ω-m) and a max apparent resistivity set to 100,000 Ω-m (**Table 2**).

Table 2: Software Information and Settings

Software Name:	EarthImager™ 2D
Version:	2.4.4.649
Starting Model:	Average Apparent Resistivity
Default Inversion Settings:	Surface
Changes to Default Inversion Settings:	Max Apparent Resistivity = 100 kΩ-m Min Apparent Resistivity = 0.1 Ω-m

Note: Raw data files (.dat files for EarthImager™ 2D) and processed data (.trn files, terrain files for surface correction in EarthImager™ 2D and .out files, the processed .dat files) are available upon request.

All field work, including setup, stow, and travel, was completed by Garrett Jorgensen Olague, Britt Bommer, and Aaron Beirl on August 19, 2025.

3.0 RESULTS

3.1 Surface Karst Survey

The desk study and surface karst survey showed no surface karst features within the 200-foot (61-meter)[1] karst survey boundary (Figure 6).

No springs exist within the 1,000-foot (305-meter)[1] survey boundary.

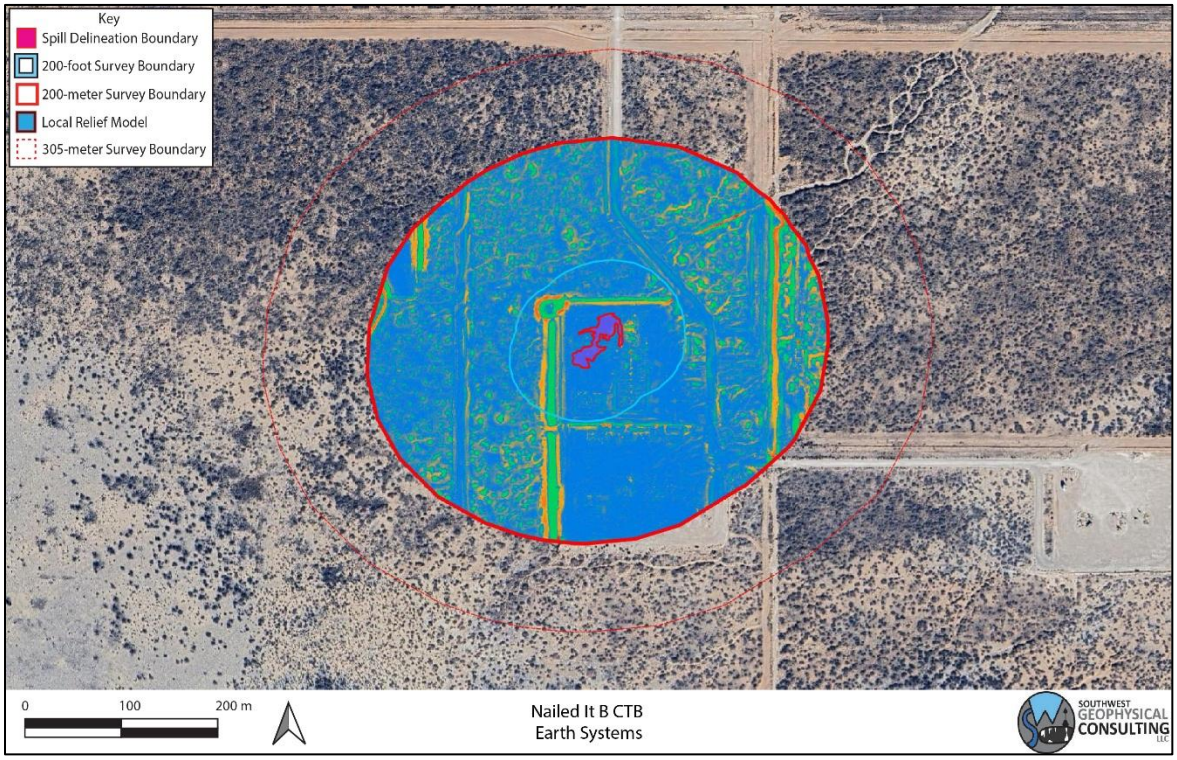

Figure 6: Surface karst survey results. Background image credit: Google Earth. Image date: December 31, 2023. Image datum: WGS-84.

3.2 Geophysical Survey

Electrical resistivity tomography forms images of the subsurface by causing a current to flow through the rock and soil and then measuring the resistance of these materials as the current flows through them. This measurement is taken many times and the resulting data, once processed, is used to produce a model of the subsurface (**Figure 7**). This model is produced using "non-unique" solutions, which means that there are many models and interpretations which will satisfy the data. Using experience and knowledge of the local geology, a high-confidence model can be established and used to develop an accurate understanding of what lies below the surface. This survey was conducted with the express purpose of locating subsurface voids and does not purport to find paleokarst (old, non-active karst features that have been filled in with sand and sediment) or nascent karst features below the resolution limit of the survey.

The results of this study indicate a well-layered geologic system with low resistivities between 5.0 and 465 Ohm-m (**Figure 7**). Please keep in mind when viewing the 2D inverted resistivity sections that color maps can be widely different for each view. Always check the color map located on the right side of the image when viewing the 2D images to ensure you understand the range of resistivities presented. Distances along the top and depths along the left side are in meters. The color map along the right side is in Ohm-m. Due to the nature of the survey, shallower zones have higher resolution between electrodes than deeper zones; therefore, small features at depth will not be visible.

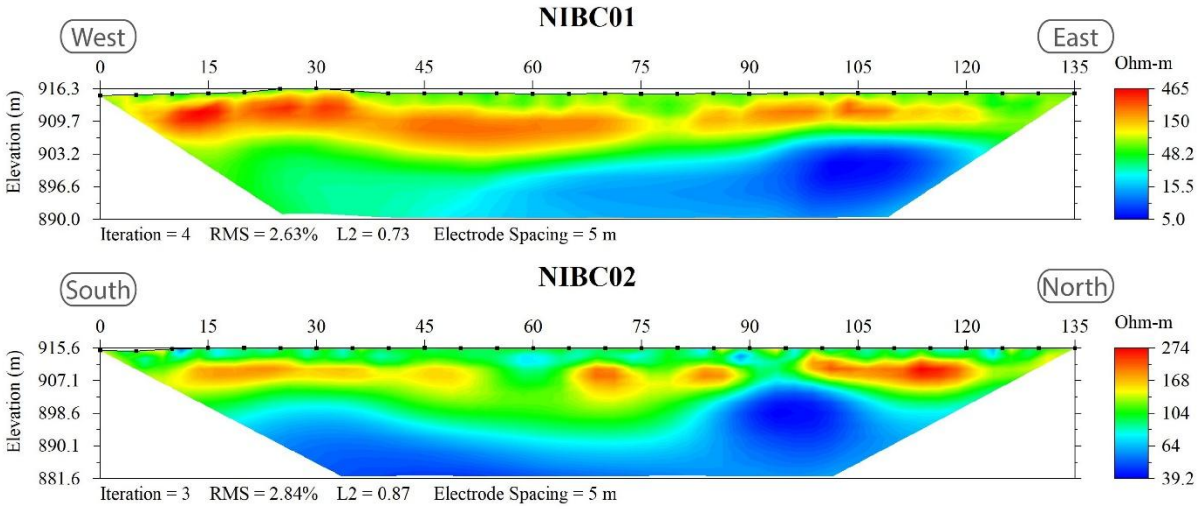

Figure 7: 2D inverted resistivity sections. Reds and oranges indicate higher resistivity values. Yellows and greens are medium-resistivity values. Blues are low-resistivity values. Please note that the color scale is relative.

4.0 DISCUSSION

No surface karst features and no anomalies consistent with air-filled subsurface voids are found within the NIBC survey area. However, small solutionally enlarged voids or fractures at or near the resolution limit of the survey (2.5 – 3.0 meters) may be present. Slightly higher-than-average resistivity areas less than 10 meters beneath the surface are interpreted as sand, caliche, or gypsite soils. Due to their much lower resistivity values when compared with significant subsurface voids, these features should not be a concern during remediation efforts.

Areas of moderate resistivity (yellows, and greens) near the surface are interpreted as sand, caliche, or sandstone of the Dewey Lake Formation; or dry caliche soils and gypsum or dolomite bedrock Rustler Formation [18] (**Figure 7** and **Figure 8**). The low-resistivity area at a depth of approximately 12 - 15 meters beneath the surface across both lines is likely a layer of either clay and halite lenses or moist or saturated layers within the Dewey Lake or Rustler Formations. (**Figure 7** and **Figure 8**).

Please remember that these are interpretations made from knowledge of the local subsurface materials and experience. **They remain interpretations until verified by geotechnical methods.** Employing a BLM-CFO approved karst monitor on site during any drilling and/or remediation activities that require excavation below four feet in depth should be considered.

Fracture sets within the subsurface can act as hydrologic pathways to the water table. Rapid dissolution of gypsum can occur along these pathways creating solution-enlarged fractures, and in some cases, voids within months to years. For this reason, this survey is valid only for this remediation event.

Within karst terrains like the project site, small air- or sediment-filled voids and/or brecciated zones and solutionally enlarged fractures that are below the resolution limit of the survey (2.5 – 3.0 meters) may exist; these may be encountered during excavation, and if so, should be evaluated by a karst specialist prior to continued work.

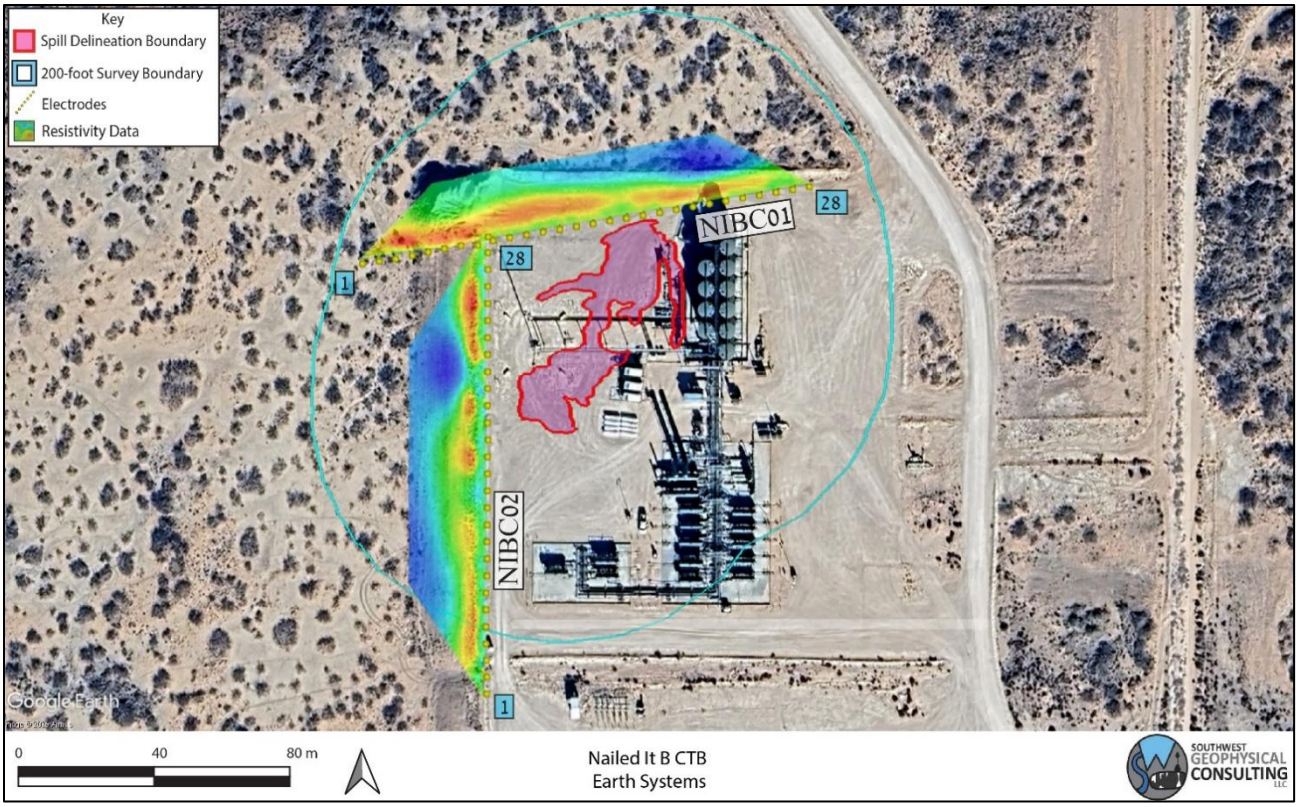

Figure 8: Interpretation. Colored trapezoids are 2D inverted resistivity lines. Background image credit: Google Earth. Image date: December 31, 2023.

5.0 SUMMARY

- **The NIBC survey contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary.**
- **No shallow anomalies interpreted as large voids or related karst features that would present a danger to equipment operators are located within the geophysical survey area.**
- Intercepting a void during remediation is unlikely, but still possible. Small voids or solutionally enlarged fractures below the resolution limit of the survey may be encountered.
- **Well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground.**
- When conducting any remediation activities in this area, employing a BLM-CFO approved karst monitor on site should be considered.

6.0 DISCLOSURE STATEMENT

Karst occurrence zones are prone to rapid karst formation and warrant careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process.

Mitigation measures for any karst features revealed during excavation shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Vigilance during remediation activities is paramount. If voids are encountered during excavation, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO approved karst contractor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.

Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports, karst feature investigations, and geophysical reports (along with the associated data files) commissioned at the request of the federal land manager should be submitted to BLM-CFO: blm_nm_karst@blm.gov.

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

Environmental karst reports should be submitted to the appropriate project manager at the New Mexico Oil Conservation Division.

7.0 REFERENCES

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17 Whitehead, W., Bandy, M. & Decker, D. Protocol for Using UAV Photography for Rapid Assessment of Karst Features in Southeast New Mexico. *Proceedings of the 2022 Cave and Karst Management Symposium* (2022).

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8.0 GLOSSARY OF TERMS

AGI	Advanced Geosciences Inc.
BLM-CFO	Bureau of Land Management - Carlsbad Field Office
brecciated	Fractured rock caused by faulting or collapse.
caprock-collapse sinkhole	Collapse of roof-spanning rock into a cave or void.
cave	Natural opening at the surface large enough for a person to enter.
cover-collapse sinkhole	Collapse of roof-spanning soil or clay ground cover into a subsurface void.
ERI	Electrical Resistivity Imaging
GPS	Global Positioning System
grike	A solutionally enlarged, vertical, or sub-vertical joint or fracture.
(H)	High confidence modifier for a PKF. This is typically reserved for a feature that is definitely karst but has not been confirmed in the field.
HKOZ	High Karst Occurrence Zone
karst	A landscape containing solutional features such as caves, sinkholes, swallets, and springs.
(L)	Low confidence modifier for a PKF. This is typically a feature that cannot be ruled out as karst but is most likely NOT karst related. This modifier may also be used for pseudokarst features.
(M)	Medium confidence modifier for PKF. This is an ambiguous feature that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes, pseudokarst).
MKOZ	Medium Karst Occurrence Zone
NCRC	National Cave Rescue Commission
NKF	Non-karst feature. Used for features originally identified as PKF that have been subsequently identified in the field as non-karst related. This term may also be used for pseudokarst features.
NMSLO	New Mexico State Land Office
Ohm-m	Ohm-meter, a unit of measurement for resistivity. Sometimes abbreviated Ω-m.
paleokarst	Previously formed karst features that have been filled in by erosion and/or deposition of minerals.
Pat	Permian Artesia Group
Pc	Permian Capitan Formation
Pcs	Permian Castile Formation

Pdl	Permian Dewey Lake Formation
PKF	Possible karst feature. This term is reserved for features identified in satellite or aerial imagery that have NOT been visited in the field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence levels are based on field experience.
PLSS	Public Land Survey System
Pqg	Permian Queen/Greyburg Formation
Pru	Permian Rustler Formation
pseudokarst	Karst-like features (sinkholes, conduits, voids etc.) that are not formed by dissolution. These types of features include soil piping, lava tubes, and some cover-collapse and suffosion sinkholes.
Psl	Permian Salado Formation
Psr	Permian Seven Rivers Formation
Pt	Permian Tansill Formation
Py	Permian Yates Formation
Qal	Quaternary alluvium
Qe	Quaternary eolian deposits
Qp	Quaternary piedmont deposits
Qpl	Quaternary playa lake deposits
RKF	Recognized karst feature. This term is reserved for karst features that have been physically verified in the field.
SPAR	Small Party Assisted Rescue
sUAS	Small, uncrewed aerial system
suffosion sinkhole	Raveling of soil into a pre-existing void or fracture.
swallet	A natural opening in the surface, too small for a person, that drains water to an aquifer. Some are "open," meaning a void can be seen below; some are "closed, "meaning they are full of sediment.
SWG	Southwest Geophysical Consulting, LLC
UTM	Universal Transverse Mercator (projected coordinates)
(V)	Field verified modifier for a RKF. This indicates that the feature has been visited by a qualified karst professional in the field and fully identified
WGS	World Geodetic System (geographic coordinates)

9.0 ATTESTATION

David D. Decker, PhD, PG, CPG
Chief Executive Officer, Principal Geologist
Southwest Geophysical Consulting, LLC
5117 Fairfax Dr. NW
Albuquerque, NM 87114
dave@swgeophys.com
(505) 585-2550

CERTIFICATE OF AUTHOR

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy and operated, maintained, and installed various sensor systems including magnetic, electromagnetic, radar, communications, and acoustic systems in various capacities from 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of “qualified karst professional” set out in the ASTM Standard Practice for Preliminary Karst Terrain Assessment for Site Development (ASTM E-1527). I meet the definition of “qualified professional” for the purposes of this standard.
- I am responsible for the content, compilation, and editing of all sections of report number ESYS-002-20250807 entitled, “Environmental Karst Study Report, Nailed It B CTB, Eddy County, New Mexico.” I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site and/or reviewed the aerial imagery on the date or dates mentioned in section ***2.3 Description of Survey***.

- I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, September 10, 2025.

David D. Decker
PhD, CPG-12123

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
Pod 1		C-5008

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Civitas Resources, Inc.	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
6301 Holiday Hill Rd Unit 201	Midland	TX	79707

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	0	4.8	N
	LONGITUDE	103	50	10.5	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

S36 T26s R30e

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1862	James Hawley	H&R Enterprises, LLC

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
11-4-25	11-4-25	105'	105'	N/A

COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DATE STATIC MEASURED: 11-10-25

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0'	105'	6'	No casing left in hole				

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT
			N/A		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0'	5'	5'	Sandy Topsoil	Y ✓ N	
5'	15'	10'	Sandy Caliche	Y ✓ N	
15'	105'	90'	Sand	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☑ OTHER – SPECIFY: DTGW Bore

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Depth to groundwater bore was gauged for water on 11-10-25. DTGW bore was dry. Temporary well casing was removed, bore hole was backfilled with drill cuttings to 10' BGS. Hydrated bentonite hole plug was poured from 10' BGS to surface.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Nathan Smelcer

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

James Hawley — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11-11-25 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-5008 - POD1

Well owner: Civitas Resources, Inc. Phone No.: _____

Mailing address: 6301 Holiday Hill Rd Unit 201

City: Midland State: TX Zip code: 79707

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: H&R Enterprises, LLC.

2) New Mexico Well Driller License No.: WD-1862 Expiration Date: 6-16-27

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Nathan Smelcer

4) Date well plugging began: 11-10-25 Date well plugging concluded: 11-10-25

5) GPS Well Location: Latitude: 32 deg, 0 min, 4.8 sec
Longitude: 103 deg, 50 min, 10.5 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 105' ft below ground level (bgl), by the following manner: well sounder

7) Static water level measured at initiation of plugging: N/A ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 9-8-25

9) Were all plugging activities consistent with an approved plugging plan? yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0' - 10' Hydrated Bentonite	Approx. 15 gallons	15 gallons	Pour	
	10' - 105' Drill Cuttibgs	Approx. 139 gallons	139 gallons	Pour	

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, James Hawley, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller — Date: 11-11-25

Version: September 8, 2009
Page 2 of 2

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Generated 7/25/2025 10:29:21 AM

JOB DESCRIPTION

Nailed It B CTB
Eddy County, NM

JOB NUMBER

890-8478-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

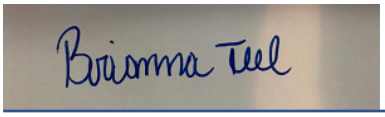
Eurofins Carlsbad

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
7/25/2025 10:29:21 AM

Authorized for release by
Brianna Teel, Project Manager
Brianna.Teel@et.eurofinsus.com
(432)704-5440

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Laboratory Job ID: 890-8478-1
SDG: Eddy County, NM

Table of Contents

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration Job ID: 890-8478-1
Project: Nailed It B CTB

Job ID: 890-8478-1 Eurofins Carlsbad

Job Narrative
890-8478-1

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 7/21/2025 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -4.6°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 1 (890-8478-1), HA - 1 (890-8478-2), HA - 1 (890-8478-3), HA - 2 (890-8478-4), HA - 2 (890-8478-5), HA - 2 (890-8478-6), HA - 3 (890-8478-7), HA - 3 (890-8478-8), HA - 3 (890-8478-9), HA - 4 (890-8478-10), HA - 4 (890-8478-11), HA - 4 (890-8478-12), HA - 5 (890-8478-13), HA - 5 (890-8478-14), HA - 5 (890-8478-15), HA - 5 (890-8478-16), HA - 6 (890-8478-17), HA - 6 (890-8478-18) and HA - 6 (890-8478-19).

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

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-114666 and analytical batch 880-114730 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 1

Lab Sample ID: 890-8478-1
Matrix: Solid
Date Collected: 07/18/25 12:00
Date Received: 07/21/25 09:55
Sample Depth: 0.5

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		07/21/25 12:27	07/22/25 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:27	07/22/25 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:27	07/22/25 11:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/21/25 12:27	07/22/25 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:27	07/22/25 11:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/21/25 12:27	07/22/25 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*07/21/25 12:27*	*07/22/25 11:33*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*07/21/25 12:27*	*07/22/25 11:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/22/25 11:33	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			07/24/25 14:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 14:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 14:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*07/22/25 08:39*	*07/24/25 14:29*	*1*
o-Terphenyl	*123*		*70 - 130*	*07/22/25 08:39*	*07/24/25 14:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1620**		49.7		mg/Kg			07/22/25 20:48	5

Client Sample ID: HA - 1

Lab Sample ID: 890-8478-2
Matrix: Solid
Date Collected: 07/18/25 12:05
Date Received: 07/21/25 09:55
Sample Depth: 1

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		07/21/25 12:27	07/22/25 11:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 11:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 11:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/21/25 12:27	07/22/25 11:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 11:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/21/25 12:27	07/22/25 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/21/25 12:27*	*07/22/25 11:54*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 1

Lab Sample ID: 890-8478-2
Matrix: Solid
Date Collected: 07/18/25 12:05
Date Received: 07/21/25 09:55
Sample Depth: 1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/21/25 12:27*	*07/22/25 11:54*	*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			07/22/25 11:54	1

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			07/24/25 15:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/22/25 08:39	07/24/25 15:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/22/25 08:39	07/24/25 15:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/22/25 08:39	07/24/25 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*07/22/25 08:39*	*07/24/25 15:19*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/22/25 08:39*	*07/24/25 15:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**958**		10.1		mg/Kg			07/22/25 20:54	1

Client Sample ID: HA - 1

Lab Sample ID: 890-8478-3
Matrix: Solid
Date Collected: 07/18/25 12:10
Date Received: 07/21/25 09:55
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/21/25 12:27	07/22/25 12:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/21/25 12:27	07/22/25 12:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/21/25 12:27	07/22/25 12:14	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/21/25 12:27	07/22/25 12:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/21/25 12:27	07/22/25 12:14	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/21/25 12:27	07/22/25 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/21/25 12:27*	*07/22/25 12:14*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/21/25 12:27*	*07/22/25 12:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/22/25 12:14	1

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			07/24/25 15:35	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 1

Lab Sample ID: 890-8478-3
Matrix: Solid
Date Collected: 07/18/25 12:10
Date Received: 07/21/25 09:55
Sample Depth: 2

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	<49.9	U	49.9		mg/Kg		07/22/25 08:39	07/24/25 15:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/22/25 08:39	07/24/25 15:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/22/25 08:39	07/24/25 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*07/22/25 08:39*	*07/24/25 15:35*	*1*
o-Terphenyl	*107*		*70 - 130*	*07/22/25 08:39*	*07/24/25 15:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**136**		10.1		mg/Kg			07/22/25 21:51	1

Client Sample ID: HA - 2

Lab Sample ID: 890-8478-4
Matrix: Solid
Date Collected: 07/18/25 12:15
Date Received: 07/21/25 09:55
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 12:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 12:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 12:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/21/25 12:27	07/22/25 12:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 12:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/21/25 12:27	07/22/25 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/21/25 12:27*	*07/22/25 12:35*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/21/25 12:27*	*07/22/25 12:35*	*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		mg/Kg			07/22/25 12:35	1

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			07/24/25 15:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/22/25 08:39	07/24/25 15:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/22/25 08:39	07/24/25 15:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/22/25 08:39	07/24/25 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*07/22/25 08:39*	*07/24/25 15:52*	*1*
o-Terphenyl	*112*		*70 - 130*	*07/22/25 08:39*	*07/24/25 15:52*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 2

Lab Sample ID: 890-8478-4
Matrix: Solid
Date Collected: 07/18/25 12:15
Date Received: 07/21/25 09:55
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2810		50.2		mg/Kg			07/22/25 22:14	5

Client Sample ID: HA - 2

Lab Sample ID: 890-8478-5
Matrix: Solid
Date Collected: 07/18/25 12:20
Date Received: 07/21/25 09:55
Sample Depth: 1

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		07/21/25 12:27	07/22/25 12:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:27	07/22/25 12:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:27	07/22/25 12:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/21/25 12:27	07/22/25 12:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:27	07/22/25 12:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/21/25 12:27	07/22/25 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/21/25 12:27*	*07/22/25 12:55*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/21/25 12:27*	*07/22/25 12:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/22/25 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			07/24/25 16:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		07/22/25 08:39	07/24/25 16:08	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		07/22/25 08:39	07/24/25 16:08	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/22/25 08:39	07/24/25 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*07/22/25 08:39*	*07/24/25 16:08*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/22/25 08:39*	*07/24/25 16:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		10.1		mg/Kg			07/22/25 22:22	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 2

Lab Sample ID: 890-8478-6
Matrix: Solid
Date Collected: 07/18/25 12:25
Date Received: 07/21/25 09:55
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/21/25 12:27	07/22/25 13:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/21/25 12:27	07/22/25 13:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/21/25 12:27	07/22/25 13:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/21/25 12:27	07/22/25 13:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/21/25 12:27	07/22/25 13:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/21/25 12:27	07/22/25 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/21/25 12:27*	*07/22/25 13:15*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/21/25 12:27*	*07/22/25 13:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/22/25 13:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			07/24/25 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		07/22/25 08:39	07/24/25 16:24	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		07/22/25 08:39	07/24/25 16:24	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/22/25 08:39	07/24/25 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*07/22/25 08:39*	*07/24/25 16:24*	*1*
o-Terphenyl	*112*		*70 - 130*	*07/22/25 08:39*	*07/24/25 16:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		10.1		mg/Kg			07/22/25 22:29	1

Client Sample ID: HA - 3

Lab Sample ID: 890-8478-7
Matrix: Solid
Date Collected: 07/18/25 12:30
Date Received: 07/21/25 09:55
Sample Depth: 0.5

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		07/21/25 12:27	07/22/25 13:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 13:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 13:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/21/25 12:27	07/22/25 13:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 13:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/21/25 12:27	07/22/25 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/21/25 12:27*	*07/22/25 13:36*	*1*

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 3

Lab Sample ID: 890-8478-7
Matrix: Solid
Date Collected: 07/18/25 12:30
Date Received: 07/21/25 09:55
Sample Depth: 0.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/21/25 12:27*	*07/22/25 13:36*	*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			07/22/25 13:36	1

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			07/24/25 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/22/25 08:39	07/24/25 16:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/22/25 08:39	07/24/25 16:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/22/25 08:39	07/24/25 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*07/22/25 08:39*	*07/24/25 16:41*	*1*
o-Terphenyl	*114*		*70 - 130*	*07/22/25 08:39*	*07/24/25 16:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7490**		99.6		mg/Kg			07/22/25 22:37	10

Client Sample ID: HA - 3

Lab Sample ID: 890-8478-8
Matrix: Solid
Date Collected: 07/18/25 12:35
Date Received: 07/21/25 09:55
Sample Depth: 1

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		07/21/25 12:27	07/22/25 13:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 13:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 13:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/21/25 12:27	07/22/25 13:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 13:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/21/25 12:27	07/22/25 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/21/25 12:27*	*07/22/25 13:56*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/21/25 12:27*	*07/22/25 13:56*	*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			07/22/25 13:56	1

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			07/24/25 16:58	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 3

Lab Sample ID: 890-8478-8
Matrix: Solid
Date Collected: 07/18/25 12:35
Date Received: 07/21/25 09:55
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/22/25 08:39	07/24/25 16:58	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/22/25 08:39	07/24/25 16:58	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/22/25 08:39	07/24/25 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*07/22/25 08:39*	*07/24/25 16:58*	*1*
o-Terphenyl	*112*		*70 - 130*	*07/22/25 08:39*	*07/24/25 16:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3470**		101		mg/Kg			07/22/25 23:00	10

Client Sample ID: HA - 3

Lab Sample ID: 890-8478-9
Matrix: Solid
Date Collected: 07/18/25 12:40
Date Received: 07/21/25 09:55
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 14:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 14:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 14:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/21/25 12:27	07/22/25 14:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 14:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/21/25 12:27	07/22/25 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/21/25 12:27*	*07/22/25 14:17*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/21/25 12:27*	*07/22/25 14:17*	*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		mg/Kg			07/22/25 14:17	1

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			07/24/25 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/22/25 08:39	07/24/25 17:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/22/25 08:39	07/24/25 17:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/22/25 08:39	07/24/25 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*07/22/25 08:39*	*07/24/25 17:14*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/22/25 08:39*	*07/24/25 17:14*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 3

Lab Sample ID: 890-8478-9
Matrix: Solid
Date Collected: 07/18/25 12:40
Date Received: 07/21/25 09:55
Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		10.0		mg/Kg			07/22/25 23:08	1

Client Sample ID: HA - 4

Lab Sample ID: 890-8478-10
Matrix: Solid
Date Collected: 07/18/25 12:45
Date Received: 07/21/25 09:55
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/21/25 12:27	07/22/25 16:00	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/21/25 12:27	07/22/25 16:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/21/25 12:27	07/22/25 16:00	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/21/25 12:27	07/22/25 16:00	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/21/25 12:27	07/22/25 16:00	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/21/25 12:27	07/22/25 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/21/25 12:27*	*07/22/25 16:00*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/21/25 12:27*	*07/22/25 16:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/22/25 16:00	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			07/24/25 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 17:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 17:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*07/22/25 08:39*	*07/24/25 17:30*	*1*
o-Terphenyl	*109*		*70 - 130*	*07/22/25 08:39*	*07/24/25 17:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.4		9.96		mg/Kg			07/22/25 23:15	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 4

Lab Sample ID: 890-8478-11
Matrix: Solid
Date Collected: 07/18/25 12:50
Date Received: 07/21/25 09:55
Sample Depth: 1

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		07/21/25 12:27	07/22/25 16:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 16:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 16:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/21/25 12:27	07/22/25 16:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 16:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/21/25 12:27	07/22/25 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/21/25 12:27*	*07/22/25 16:21*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/21/25 12:27*	*07/22/25 16:21*	*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			07/22/25 16:21	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			07/24/25 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 18:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*07/22/25 08:39*	*07/24/25 18:03*	*1*
o-Terphenyl	*113*		*70 - 130*	*07/22/25 08:39*	*07/24/25 18:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68.6**		10.1		mg/Kg			07/22/25 23:23	1

Client Sample ID: HA - 4

Lab Sample ID: 890-8478-12
Matrix: Solid
Date Collected: 07/18/25 12:55
Date Received: 07/21/25 09:55
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 16:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 16:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 16:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/21/25 12:27	07/22/25 16:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 16:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/21/25 12:27	07/22/25 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/21/25 12:27*	*07/22/25 16:41*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 4

Lab Sample ID: 890-8478-12
Matrix: Solid
Date Collected: 07/18/25 12:55
Date Received: 07/21/25 09:55
Sample Depth: 2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/21/25 12:27*	*07/22/25 16:41*	*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		mg/Kg			07/22/25 16:41	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			07/24/25 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 18:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 18:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*07/22/25 08:39*	*07/24/25 18:20*	*1*
o-Terphenyl	*112*		*70 - 130*	*07/22/25 08:39*	*07/24/25 18:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**97.1**		10.1		mg/Kg			07/22/25 23:31	1

Client Sample ID: HA - 5

Lab Sample ID: 890-8478-13
Matrix: Solid
Date Collected: 07/18/25 13:00
Date Received: 07/21/25 09:55
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 17:02	1
Toluene	**0.00248**		0.00199		mg/Kg		07/21/25 12:27	07/22/25 17:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 17:02	1
m-Xylene & p-Xylene	**0.00786**		0.00398		mg/Kg		07/21/25 12:27	07/22/25 17:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 17:02	1
Xylenes, Total	**0.00786**		0.00398		mg/Kg		07/21/25 12:27	07/22/25 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/21/25 12:27*	*07/22/25 17:02*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*07/21/25 12:27*	*07/22/25 17:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0103**		0.00398		mg/Kg			07/22/25 17:02	1

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			07/24/25 18:36	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 5
Date Collected: 07/18/25 13:00
Date Received: 07/21/25 09:55
Sample Depth: 0.5

Lab Sample ID: 890-8478-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/22/25 08:39	07/24/25 18:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/22/25 08:39	07/24/25 18:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/22/25 08:39	07/24/25 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*07/22/25 08:39*	*07/24/25 18:36*	*1*
o-Terphenyl	*113*		*70 - 130*	*07/22/25 08:39*	*07/24/25 18:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11700**	**F1**	202		mg/Kg			07/22/25 23:38	20

Client Sample ID: HA - 5
Date Collected: 07/18/25 13:05
Date Received: 07/21/25 09:55
Sample Depth: 1

Lab Sample ID: 890-8478-14
Matrix: Solid

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		07/21/25 12:27	07/22/25 17:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 17:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 17:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/21/25 12:27	07/22/25 17:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 17:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/21/25 12:27	07/22/25 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/21/25 12:27*	*07/22/25 17:22*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/21/25 12:27*	*07/22/25 17:22*	*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			07/22/25 17:22	1

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			07/24/25 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/22/25 08:39	07/24/25 18:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/22/25 08:39	07/24/25 18:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/22/25 08:39	07/24/25 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*07/22/25 08:39*	*07/24/25 18:52*	*1*
o-Terphenyl	*116*		*70 - 130*	*07/22/25 08:39*	*07/24/25 18:52*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 5

Lab Sample ID: 890-8478-14
Matrix: Solid
Date Collected: 07/18/25 13:05
Date Received: 07/21/25 09:55
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	209		9.96		mg/Kg			07/23/25 00:01	1

Client Sample ID: HA - 5

Lab Sample ID: 890-8478-15
Matrix: Solid
Date Collected: 07/18/25 13:10
Date Received: 07/21/25 09:55
Sample Depth: 2

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		07/21/25 12:27	07/22/25 17:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:27	07/22/25 17:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:27	07/22/25 17:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/21/25 12:27	07/22/25 17:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:27	07/22/25 17:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/21/25 12:27	07/22/25 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*07/21/25 12:27*	*07/22/25 17:43*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/21/25 12:27*	*07/22/25 17:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/22/25 17:43	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			07/24/25 19:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 19:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 19:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*07/22/25 08:39*	*07/24/25 19:09*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/22/25 08:39*	*07/24/25 19:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	633		10.1		mg/Kg			07/23/25 00:09	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 5

Lab Sample ID: 890-8478-16
Matrix: Solid
Date Collected: 07/18/25 13:15
Date Received: 07/21/25 09:55
Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 18:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 18:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 18:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/21/25 12:27	07/22/25 18:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 18:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/21/25 12:27	07/22/25 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*07/21/25 12:27*	*07/22/25 18:03*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/21/25 12:27*	*07/22/25 18:03*	*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		mg/Kg			07/22/25 18:03	1

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			07/24/25 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/22/25 08:39	07/24/25 19:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/22/25 08:39	07/24/25 19:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/22/25 08:39	07/24/25 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*07/22/25 08:39*	*07/24/25 19:25*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/22/25 08:39*	*07/24/25 19:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		10.0		mg/Kg			07/23/25 00:32	1

Client Sample ID: HA - 6

Lab Sample ID: 890-8478-17
Matrix: Solid
Date Collected: 07/18/25 13:20
Date Received: 07/21/25 09:55
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 18:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 18:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 18:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/21/25 12:27	07/22/25 18:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:27	07/22/25 18:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/21/25 12:27	07/22/25 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/21/25 12:27*	*07/22/25 18:24*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 6

Lab Sample ID: 890-8478-17
Matrix: Solid
Date Collected: 07/18/25 13:20
Date Received: 07/21/25 09:55
Sample Depth: 0.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/21/25 12:27*	*07/22/25 18:24*	*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		mg/Kg			07/22/25 18:24	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			07/24/25 19:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 19:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 19:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*07/22/25 08:39*	*07/24/25 19:42*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/22/25 08:39*	*07/24/25 19:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2900**		99.8		mg/Kg			07/23/25 00:39	10

Client Sample ID: HA - 6

Lab Sample ID: 890-8478-18
Matrix: Solid
Date Collected: 07/18/25 13:25
Date Received: 07/21/25 09:55
Sample Depth: 1

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		07/21/25 12:27	07/22/25 18:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:27	07/22/25 18:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:27	07/22/25 18:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/21/25 12:27	07/22/25 18:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:27	07/22/25 18:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/21/25 12:27	07/22/25 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*07/21/25 12:27*	*07/22/25 18:44*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/21/25 12:27*	*07/22/25 18:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/22/25 18:44	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			07/24/25 19:58	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 6

Lab Sample ID: 890-8478-18
Matrix: Solid
Date Collected: 07/18/25 13:25
Date Received: 07/21/25 09:55
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 19:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 19:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*07/22/25 08:39*	*07/24/25 19:58*	*1*
o-Terphenyl	*112*		*70 - 130*	*07/22/25 08:39*	*07/24/25 19:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**97.8**		10.0		mg/Kg			07/23/25 00:47	1

Client Sample ID: HA - 6

Lab Sample ID: 890-8478-19
Matrix: Solid
Date Collected: 07/18/25 13:30
Date Received: 07/21/25 09:55
Sample Depth: 2

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		07/21/25 12:27	07/22/25 19:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 19:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 19:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/21/25 12:27	07/22/25 19:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:27	07/22/25 19:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/21/25 12:27	07/22/25 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/21/25 12:27*	*07/22/25 19:04*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/21/25 12:27*	*07/22/25 19:04*	*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			07/22/25 19:04	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			07/24/25 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 (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 20:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 20:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/22/25 08:39*	*07/24/25 20:14*	*1*
o-Terphenyl	*106*		*70 - 130*	*07/22/25 08:39*	*07/24/25 20:14*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 6
Date Collected: 07/18/25 13:30
Date Received: 07/21/25 09:55
Sample Depth: 2

Lab Sample ID: 890-8478-19
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		9.96		mg/Kg			07/23/25 00:55	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-8478-1	HA - 1	119	104										
890-8478-1 MS	HA - 1	109	96										
890-8478-1 MSD	HA - 1	104	99										
890-8478-2	HA - 1	113	96										
890-8478-3	HA - 1	115	98										
890-8478-4	HA - 2	110	97										
890-8478-5	HA - 2	108	95										
890-8478-6	HA - 2	118	102										
890-8478-7	HA - 3	115	97										
890-8478-8	HA - 3	122	100										
890-8478-9	HA - 3	114	99										
890-8478-10	HA - 4	113	102										
890-8478-11	HA - 4	109	92										
890-8478-12	HA - 4	113	98										
890-8478-13	HA - 5	116	105										
890-8478-14	HA - 5	116	100										
890-8478-15	HA - 5	123	101										
890-8478-16	HA - 5	120	100										
890-8478-17	HA - 6	118	98										
890-8478-18	HA - 6	119	101										
890-8478-19	HA - 6	118	103										
LCS 880-114596/1-A	Lab Control Sample	112	96										
LCSD 880-114596/2-A	Lab Control Sample Dup	102	93										
MB 880-114596/5-A	Method Blank	104	97										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-8478-1	HA - 1	115	123										
890-8478-1 MS	HA - 1	108	113										
890-8478-1 MSD	HA - 1	123	112										
890-8478-2	HA - 1	108	110										
890-8478-3	HA - 1	108	107										
890-8478-4	HA - 2	113	112										
890-8478-5	HA - 2	108	108										
890-8478-6	HA - 2	113	112										
890-8478-7	HA - 3	114	114										
890-8478-8	HA - 3	112	112										
890-8478-9	HA - 3	122	122										
890-8478-10	HA - 4	109	109										
890-8478-11	HA - 4	115	113										
890-8478-12	HA - 4	112	112										
890-8478-13	HA - 5	112	113										

Surrogate Summary

Client: Earth Systems Response and Restoration
Job ID: 890-8478-1
Project/Site: Nailed It B CTB
SDG: Eddy County, 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)										
890-8478-14	HA - 5	115	116										
890-8478-15	HA - 5	110	110										
890-8478-16	HA - 5	109	110										
890-8478-17	HA - 6	109	108										
890-8478-18	HA - 6	114	112										
890-8478-19	HA - 6	107	106										
LCS 880-114637/2-A	Lab Control Sample	96	98										
LCSD 880-114637/3-A	Lab Control Sample Dup	100	102										
MB 880-114637/1-A	Method Blank	93	88										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-114596/5-A
Matrix: Solid
Analysis Batch: 114645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 114596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:27	07/22/25 11:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:27	07/22/25 11:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:27	07/22/25 11:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/21/25 12:27	07/22/25 11:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:27	07/22/25 11:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/21/25 12:27	07/22/25 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*07/21/25 12:27*	*07/22/25 11:12*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/21/25 12:27*	*07/22/25 11:12*	*1*

Lab Sample ID: LCS 880-114596/1-A
Matrix: Solid
Analysis Batch: 114645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 114596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1167		mg/Kg		117	70 - 130
Toluene	0.100	0.1033		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1090		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2176		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1101		mg/Kg		110	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-114596/2-A
Matrix: Solid
Analysis Batch: 114645

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 114596

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1139		mg/Kg		114	70 - 130	2	35
Toluene	0.100	0.1001		mg/Kg		100	70 - 130	3	35
Ethylbenzene	0.100	0.1035		mg/Kg		103	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2053		mg/Kg		103	70 - 130	6	35
o-Xylene	0.100	0.1045		mg/Kg		104	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-8478-1 MS
Matrix: Solid
Analysis Batch: 114645

Client Sample ID: HA - 1
Prep Type: Total/NA
Prep Batch: 114596

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1206		mg/Kg		121	70 - 130
Toluene	<0.00200	U	0.100	0.1099		mg/Kg		110	70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

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

Lab Sample ID: 890-8478-1 MS
Matrix: Solid
Analysis Batch: 114645

Client Sample ID: HA - 1
Prep Type: Total/NA
Prep Batch: 114596

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1155		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2328		mg/Kg		116	70 - 130
o-Xylene	<0.00200	U	0.100	0.1145		mg/Kg		114	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-8478-1 MSD
Matrix: Solid
Analysis Batch: 114645

Client Sample ID: HA - 1
Prep Type: Total/NA
Prep Batch: 114596

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1174		mg/Kg		117	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.1031		mg/Kg		103	70 - 130	6	35
Ethylbenzene	<0.00200	U	0.100	0.1060		mg/Kg		106	70 - 130	9	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2112		mg/Kg		106	70 - 130	10	35
o-Xylene	<0.00200	U	0.100	0.1053		mg/Kg		105	70 - 130	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 880-114637/1-A
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 114637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:11	07/24/25 03:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:11	07/24/25 03:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:11	07/24/25 03:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*07/22/25 08:11*	*07/24/25 03:15*	*1*
o-Terphenyl	*88*		*70 - 130*	*07/22/25 08:11*	*07/24/25 03:15*	*1*

Lab Sample ID: LCS 880-114637/2-A
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 114637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	899.2		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1035		mg/Kg		103	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-114637/2-A
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 114637

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-114637/3-A
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 114637

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	946.0		mg/Kg		95	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	1015		mg/Kg		101	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 890-8478-1 MS
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: HA - 1
Prep Type: Total/NA
Prep Batch: 114637

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	860.0		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	872.3		mg/Kg		87	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 890-8478-1 MSD
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: HA - 1
Prep Type: Total/NA
Prep Batch: 114637

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	849.9		mg/Kg		85	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	804.2		mg/Kg		81	70 - 130	8	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	112		70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-114661/1-A
Matrix: Solid
Analysis Batch: 114726

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			07/22/25 18:27	1

Lab Sample ID: LCS 880-114661/2-A
Matrix: Solid
Analysis Batch: 114726

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	249.9		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-114661/3-A
Matrix: Solid
Analysis Batch: 114726

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	250.0		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-114666/1-A
Matrix: Solid
Analysis Batch: 114730

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			07/22/25 21:28	1

Lab Sample ID: LCS 880-114666/2-A
Matrix: Solid
Analysis Batch: 114730

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	230.4		mg/Kg		92	90 - 110		

Lab Sample ID: LCSD 880-114666/3-A
Matrix: Solid
Analysis Batch: 114730

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	229.8		mg/Kg		92	90 - 110	0	20

Lab Sample ID: 890-8478-3 MS
Matrix: Solid
Analysis Batch: 114730

Client Sample ID: HA - 1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	136		253	399.3		mg/Kg		104	90 - 110		

Lab Sample ID: 890-8478-3 MSD
Matrix: Solid
Analysis Batch: 114730

Client Sample ID: HA - 1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	136		253	400.9		mg/Kg		105	90 - 110	0	20

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-8478-13 MS
Matrix: Solid
Analysis Batch: 114730

Client Sample ID: HA - 5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	11700	F1	5040	16130	F1	mg/Kg		89	90 - 110		

Lab Sample ID: 890-8478-13 MSD
Matrix: Solid
Analysis Batch: 114730

Client Sample ID: HA - 5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11700	F1	5040	15770	F1	mg/Kg		82	90 - 110	2	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 114596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8478-1	HA - 1	Total/NA	Solid	5035	
890-8478-2	HA - 1	Total/NA	Solid	5035	
890-8478-3	HA - 1	Total/NA	Solid	5035	
890-8478-4	HA - 2	Total/NA	Solid	5035	
890-8478-5	HA - 2	Total/NA	Solid	5035	
890-8478-6	HA - 2	Total/NA	Solid	5035	
890-8478-7	HA - 3	Total/NA	Solid	5035	
890-8478-8	HA - 3	Total/NA	Solid	5035	
890-8478-9	HA - 3	Total/NA	Solid	5035	
890-8478-10	HA - 4	Total/NA	Solid	5035	
890-8478-11	HA - 4	Total/NA	Solid	5035	
890-8478-12	HA - 4	Total/NA	Solid	5035	
890-8478-13	HA - 5	Total/NA	Solid	5035	
890-8478-14	HA - 5	Total/NA	Solid	5035	
890-8478-15	HA - 5	Total/NA	Solid	5035	
890-8478-16	HA - 5	Total/NA	Solid	5035	
890-8478-17	HA - 6	Total/NA	Solid	5035	
890-8478-18	HA - 6	Total/NA	Solid	5035	
890-8478-19	HA - 6	Total/NA	Solid	5035	
MB 880-114596/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-114596/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-114596/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8478-1 MS	HA - 1	Total/NA	Solid	5035	
890-8478-1 MSD	HA - 1	Total/NA	Solid	5035	

Analysis Batch: 114645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8478-1	HA - 1	Total/NA	Solid	8021B	114596
890-8478-2	HA - 1	Total/NA	Solid	8021B	114596
890-8478-3	HA - 1	Total/NA	Solid	8021B	114596
890-8478-4	HA - 2	Total/NA	Solid	8021B	114596
890-8478-5	HA - 2	Total/NA	Solid	8021B	114596
890-8478-6	HA - 2	Total/NA	Solid	8021B	114596
890-8478-7	HA - 3	Total/NA	Solid	8021B	114596
890-8478-8	HA - 3	Total/NA	Solid	8021B	114596
890-8478-9	HA - 3	Total/NA	Solid	8021B	114596
890-8478-10	HA - 4	Total/NA	Solid	8021B	114596
890-8478-11	HA - 4	Total/NA	Solid	8021B	114596
890-8478-12	HA - 4	Total/NA	Solid	8021B	114596
890-8478-13	HA - 5	Total/NA	Solid	8021B	114596
890-8478-14	HA - 5	Total/NA	Solid	8021B	114596
890-8478-15	HA - 5	Total/NA	Solid	8021B	114596
890-8478-16	HA - 5	Total/NA	Solid	8021B	114596
890-8478-17	HA - 6	Total/NA	Solid	8021B	114596
890-8478-18	HA - 6	Total/NA	Solid	8021B	114596
890-8478-19	HA - 6	Total/NA	Solid	8021B	114596
MB 880-114596/5-A	Method Blank	Total/NA	Solid	8021B	114596
LCS 880-114596/1-A	Lab Control Sample	Total/NA	Solid	8021B	114596
LCSD 880-114596/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	114596
890-8478-1 MS	HA - 1	Total/NA	Solid	8021B	114596
890-8478-1 MSD	HA - 1	Total/NA	Solid	8021B	114596

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 114753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8478-1	HA - 1	Total/NA	Solid	Total BTEX	
890-8478-2	HA - 1	Total/NA	Solid	Total BTEX	
890-8478-3	HA - 1	Total/NA	Solid	Total BTEX	
890-8478-4	HA - 2	Total/NA	Solid	Total BTEX	
890-8478-5	HA - 2	Total/NA	Solid	Total BTEX	
890-8478-6	HA - 2	Total/NA	Solid	Total BTEX	
890-8478-7	HA - 3	Total/NA	Solid	Total BTEX	
890-8478-8	HA - 3	Total/NA	Solid	Total BTEX	
890-8478-9	HA - 3	Total/NA	Solid	Total BTEX	
890-8478-10	HA - 4	Total/NA	Solid	Total BTEX	
890-8478-11	HA - 4	Total/NA	Solid	Total BTEX	
890-8478-12	HA - 4	Total/NA	Solid	Total BTEX	
890-8478-13	HA - 5	Total/NA	Solid	Total BTEX	
890-8478-14	HA - 5	Total/NA	Solid	Total BTEX	
890-8478-15	HA - 5	Total/NA	Solid	Total BTEX	
890-8478-16	HA - 5	Total/NA	Solid	Total BTEX	
890-8478-17	HA - 6	Total/NA	Solid	Total BTEX	
890-8478-18	HA - 6	Total/NA	Solid	Total BTEX	
890-8478-19	HA - 6	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 114637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8478-1	HA - 1	Total/NA	Solid	8015NM Prep	
890-8478-2	HA - 1	Total/NA	Solid	8015NM Prep	
890-8478-3	HA - 1	Total/NA	Solid	8015NM Prep	
890-8478-4	HA - 2	Total/NA	Solid	8015NM Prep	
890-8478-5	HA - 2	Total/NA	Solid	8015NM Prep	
890-8478-6	HA - 2	Total/NA	Solid	8015NM Prep	
890-8478-7	HA - 3	Total/NA	Solid	8015NM Prep	
890-8478-8	HA - 3	Total/NA	Solid	8015NM Prep	
890-8478-9	HA - 3	Total/NA	Solid	8015NM Prep	
890-8478-10	HA - 4	Total/NA	Solid	8015NM Prep	
890-8478-11	HA - 4	Total/NA	Solid	8015NM Prep	
890-8478-12	HA - 4	Total/NA	Solid	8015NM Prep	
890-8478-13	HA - 5	Total/NA	Solid	8015NM Prep	
890-8478-14	HA - 5	Total/NA	Solid	8015NM Prep	
890-8478-15	HA - 5	Total/NA	Solid	8015NM Prep	
890-8478-16	HA - 5	Total/NA	Solid	8015NM Prep	
890-8478-17	HA - 6	Total/NA	Solid	8015NM Prep	
890-8478-18	HA - 6	Total/NA	Solid	8015NM Prep	
890-8478-19	HA - 6	Total/NA	Solid	8015NM Prep	
MB 880-114637/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-114637/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-114637/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8478-1 MS	HA - 1	Total/NA	Solid	8015NM Prep	
890-8478-1 MSD	HA - 1	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

GC Semi VOA

Analysis Batch: 114940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8478-1	HA - 1	Total/NA	Solid	8015B NM	114637
890-8478-2	HA - 1	Total/NA	Solid	8015B NM	114637
890-8478-3	HA - 1	Total/NA	Solid	8015B NM	114637
890-8478-4	HA - 2	Total/NA	Solid	8015B NM	114637
890-8478-5	HA - 2	Total/NA	Solid	8015B NM	114637
890-8478-6	HA - 2	Total/NA	Solid	8015B NM	114637
890-8478-7	HA - 3	Total/NA	Solid	8015B NM	114637
890-8478-8	HA - 3	Total/NA	Solid	8015B NM	114637
890-8478-9	HA - 3	Total/NA	Solid	8015B NM	114637
890-8478-10	HA - 4	Total/NA	Solid	8015B NM	114637
890-8478-11	HA - 4	Total/NA	Solid	8015B NM	114637
890-8478-12	HA - 4	Total/NA	Solid	8015B NM	114637
890-8478-13	HA - 5	Total/NA	Solid	8015B NM	114637
890-8478-14	HA - 5	Total/NA	Solid	8015B NM	114637
890-8478-15	HA - 5	Total/NA	Solid	8015B NM	114637
890-8478-16	HA - 5	Total/NA	Solid	8015B NM	114637
890-8478-17	HA - 6	Total/NA	Solid	8015B NM	114637
890-8478-18	HA - 6	Total/NA	Solid	8015B NM	114637
890-8478-19	HA - 6	Total/NA	Solid	8015B NM	114637
MB 880-114637/1-A	Method Blank	Total/NA	Solid	8015B NM	114637
LCS 880-114637/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	114637
LCSD 880-114637/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	114637
890-8478-1 MS	HA - 1	Total/NA	Solid	8015B NM	114637
890-8478-1 MSD	HA - 1	Total/NA	Solid	8015B NM	114637

Analysis Batch: 115022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8478-1	HA - 1	Total/NA	Solid	8015 NM	
890-8478-2	HA - 1	Total/NA	Solid	8015 NM	
890-8478-3	HA - 1	Total/NA	Solid	8015 NM	
890-8478-4	HA - 2	Total/NA	Solid	8015 NM	
890-8478-5	HA - 2	Total/NA	Solid	8015 NM	
890-8478-6	HA - 2	Total/NA	Solid	8015 NM	
890-8478-7	HA - 3	Total/NA	Solid	8015 NM	
890-8478-8	HA - 3	Total/NA	Solid	8015 NM	
890-8478-9	HA - 3	Total/NA	Solid	8015 NM	
890-8478-10	HA - 4	Total/NA	Solid	8015 NM	
890-8478-11	HA - 4	Total/NA	Solid	8015 NM	
890-8478-12	HA - 4	Total/NA	Solid	8015 NM	
890-8478-13	HA - 5	Total/NA	Solid	8015 NM	
890-8478-14	HA - 5	Total/NA	Solid	8015 NM	
890-8478-15	HA - 5	Total/NA	Solid	8015 NM	
890-8478-16	HA - 5	Total/NA	Solid	8015 NM	
890-8478-17	HA - 6	Total/NA	Solid	8015 NM	
890-8478-18	HA - 6	Total/NA	Solid	8015 NM	
890-8478-19	HA - 6	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

HPLC/IC

Leach Batch: 114661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8478-1	HA - 1	Soluble	Solid	DI Leach	
890-8478-2	HA - 1	Soluble	Solid	DI Leach	
MB 880-114661/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-114661/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-114661/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 114666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8478-3	HA - 1	Soluble	Solid	DI Leach	
890-8478-4	HA - 2	Soluble	Solid	DI Leach	
890-8478-5	HA - 2	Soluble	Solid	DI Leach	
890-8478-6	HA - 2	Soluble	Solid	DI Leach	
890-8478-7	HA - 3	Soluble	Solid	DI Leach	
890-8478-8	HA - 3	Soluble	Solid	DI Leach	
890-8478-9	HA - 3	Soluble	Solid	DI Leach	
890-8478-10	HA - 4	Soluble	Solid	DI Leach	
890-8478-11	HA - 4	Soluble	Solid	DI Leach	
890-8478-12	HA - 4	Soluble	Solid	DI Leach	
890-8478-13	HA - 5	Soluble	Solid	DI Leach	
890-8478-14	HA - 5	Soluble	Solid	DI Leach	
890-8478-15	HA - 5	Soluble	Solid	DI Leach	
890-8478-16	HA - 5	Soluble	Solid	DI Leach	
890-8478-17	HA - 6	Soluble	Solid	DI Leach	
890-8478-18	HA - 6	Soluble	Solid	DI Leach	
890-8478-19	HA - 6	Soluble	Solid	DI Leach	
MB 880-114666/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-114666/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-114666/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8478-3 MS	HA - 1	Soluble	Solid	DI Leach	
890-8478-3 MSD	HA - 1	Soluble	Solid	DI Leach	
890-8478-13 MS	HA - 5	Soluble	Solid	DI Leach	
890-8478-13 MSD	HA - 5	Soluble	Solid	DI Leach	

Analysis Batch: 114726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8478-1	HA - 1	Soluble	Solid	300.0	114661
890-8478-2	HA - 1	Soluble	Solid	300.0	114661
MB 880-114661/1-A	Method Blank	Soluble	Solid	300.0	114661
LCS 880-114661/2-A	Lab Control Sample	Soluble	Solid	300.0	114661
LCSD 880-114661/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	114661

Analysis Batch: 114730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8478-3	HA - 1	Soluble	Solid	300.0	114666
890-8478-4	HA - 2	Soluble	Solid	300.0	114666
890-8478-5	HA - 2	Soluble	Solid	300.0	114666
890-8478-6	HA - 2	Soluble	Solid	300.0	114666
890-8478-7	HA - 3	Soluble	Solid	300.0	114666
890-8478-8	HA - 3	Soluble	Solid	300.0	114666
890-8478-9	HA - 3	Soluble	Solid	300.0	114666
890-8478-10	HA - 4	Soluble	Solid	300.0	114666

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 114730 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8478-11	HA - 4	Soluble	Solid	300.0	114666
890-8478-12	HA - 4	Soluble	Solid	300.0	114666
890-8478-13	HA - 5	Soluble	Solid	300.0	114666
890-8478-14	HA - 5	Soluble	Solid	300.0	114666
890-8478-15	HA - 5	Soluble	Solid	300.0	114666
890-8478-16	HA - 5	Soluble	Solid	300.0	114666
890-8478-17	HA - 6	Soluble	Solid	300.0	114666
890-8478-18	HA - 6	Soluble	Solid	300.0	114666
890-8478-19	HA - 6	Soluble	Solid	300.0	114666
MB 880-114666/1-A	Method Blank	Soluble	Solid	300.0	114666
LCS 880-114666/2-A	Lab Control Sample	Soluble	Solid	300.0	114666
LCSD 880-114666/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	114666
890-8478-3 MS	HA - 1	Soluble	Solid	300.0	114666
890-8478-3 MSD	HA - 1	Soluble	Solid	300.0	114666
890-8478-13 MS	HA - 5	Soluble	Solid	300.0	114666
890-8478-13 MSD	HA - 5	Soluble	Solid	300.0	114666

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 1
Date Collected: 07/18/25 12:00
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 11:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 11:33	SA	EET MID
Total/NA	Analysis	8015 NM		1			115022	07/24/25 14:29	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 14:29	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	114661	07/22/25 08:38	SI	EET MID
Soluble	Analysis	300.0		5			114726	07/22/25 20:48	CS	EET MID

Client Sample ID: HA - 1
Date Collected: 07/18/25 12:05
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 11:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 11:54	SA	EET MID
Total/NA	Analysis	8015 NM		1			115022	07/24/25 15:19	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 15:19	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	114661	07/22/25 08:38	SI	EET MID
Soluble	Analysis	300.0		1			114726	07/22/25 20:54	CS	EET MID

Client Sample ID: HA - 1
Date Collected: 07/18/25 12:10
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 12:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 12:14	SA	EET MID
Total/NA	Analysis	8015 NM		1			115022	07/24/25 15:35	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 15:35	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		1			114730	07/22/25 21:51	CS	EET MID

Client Sample ID: HA - 2
Date Collected: 07/18/25 12:15
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 12:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 12:35	SA	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 2
Date Collected: 07/18/25 12:15
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			115022	07/24/25 15:52	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 15:52	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		5			114730	07/22/25 22:14	CS	EET MID

Client Sample ID: HA - 2
Date Collected: 07/18/25 12:20
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 12:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 12:55	SA	EET MID
Total/NA	Analysis	8015 NM		1			115022	07/24/25 16:08	SA	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 16:08	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		1			114730	07/22/25 22:22	CS	EET MID

Client Sample ID: HA - 2
Date Collected: 07/18/25 12:25
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 13:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 13:15	SA	EET MID
Total/NA	Analysis	8015 NM		1			115022	07/24/25 16:24	SA	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 16:24	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		1			114730	07/22/25 22:29	CS	EET MID

Client Sample ID: HA - 3
Date Collected: 07/18/25 12:30
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 13:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 13:36	SA	EET MID
Total/NA	Analysis	8015 NM		1			115022	07/24/25 16:41	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 16:41	TKC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 3
Date Collected: 07/18/25 12:30
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		10			114730	07/22/25 22:37	CS	EET MID

Client Sample ID: HA - 3
Date Collected: 07/18/25 12:35
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 13:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 13:56	SA	EET MID
Total/NA	Analysis	8015 NM		1			115022	07/24/25 16:58	SA	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 16:58	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		10			114730	07/22/25 23:00	CS	EET MID

Client Sample ID: HA - 3
Date Collected: 07/18/25 12:40
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 14:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 14:17	SA	EET MID
Total/NA	Analysis	8015 NM		1			115022	07/24/25 17:14	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 17:14	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		1			114730	07/22/25 23:08	CS	EET MID

Client Sample ID: HA - 4
Date Collected: 07/18/25 12:45
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 16:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 16:00	SA	EET MID
Total/NA	Analysis	8015 NM		1			115022	07/24/25 17:30	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 17:30	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		1			114730	07/22/25 23:15	CS	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 4
Date Collected: 07/18/25 12:50
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 16:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 16:21	SA	EET MID
Total/NA	Analysis	8015 NM		1			115022	07/24/25 18:03	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 18:03	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		1			114730	07/22/25 23:23	CS	EET MID

Client Sample ID: HA - 4
Date Collected: 07/18/25 12:55
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 16:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 16:41	SA	EET MID
Total/NA	Analysis	8015 NM		1			115022	07/24/25 18:20	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 18:20	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		1			114730	07/22/25 23:31	CS	EET MID

Client Sample ID: HA - 5
Date Collected: 07/18/25 13:00
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 17:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 17:02	SA	EET MID
Total/NA	Analysis	8015 NM		1			115022	07/24/25 18:36	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 18:36	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		20			114730	07/22/25 23:38	CS	EET MID

Client Sample ID: HA - 5
Date Collected: 07/18/25 13:05
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 17:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 17:22	SA	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Job ID: 890-8478-1
Project/Site: Nailed It B CTB
SDG: Eddy County, NM

Client Sample ID: HA - 5
Lab Sample ID: 890-8478-14
Date Collected: 07/18/25 13:05
Matrix: Solid
Date Received: 07/21/25 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			115022	07/24/25 18:52	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 18:52	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		1			114730	07/23/25 00:01	CS	EET MID

Client Sample ID: HA - 5
Lab Sample ID: 890-8478-15
Date Collected: 07/18/25 13:10
Matrix: Solid
Date Received: 07/21/25 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 17:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 17:43	SA	EET MID
Total/NA	Analysis	8015 NM		1			115022	07/24/25 19:09	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 19:09	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		1			114730	07/23/25 00:09	CS	EET MID

Client Sample ID: HA - 5
Lab Sample ID: 890-8478-16
Date Collected: 07/18/25 13:15
Matrix: Solid
Date Received: 07/21/25 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 18:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 18:03	SA	EET MID
Total/NA	Analysis	8015 NM		1			115022	07/24/25 19:25	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 19:25	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		1			114730	07/23/25 00:32	CS	EET MID

Client Sample ID: HA - 6
Lab Sample ID: 890-8478-17
Date Collected: 07/18/25 13:20
Matrix: Solid
Date Received: 07/21/25 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 18:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 18:24	SA	EET MID
Total/NA	Analysis	8015 NM		1			115022	07/24/25 19:42	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 19:42	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Client Sample ID: HA - 6
Date Collected: 07/18/25 13:20
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		10			114730	07/23/25 00:39	CS	EET MID

Client Sample ID: HA - 6
Date Collected: 07/18/25 13:25
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 18:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 18:44	SA	EET MID
Total/NA	Analysis	8015 NM		1			115022	07/24/25 19:58	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 19:58	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		1			114730	07/23/25 00:47	CS	EET MID

Client Sample ID: HA - 6
Date Collected: 07/18/25 13:30
Date Received: 07/21/25 09:55

Lab Sample ID: 890-8478-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	114596	07/21/25 12:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114645	07/22/25 19:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114753	07/22/25 19:04	SA	EET MID
Total/NA	Analysis	8015 NM		1			115022	07/24/25 20:14	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 20:14	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		1			114730	07/23/25 00:55	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Job ID: 890-8478-1
Project/Site: Nailed It B CTB
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
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

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8478-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8478-1	HA - 1	Solid	07/18/25 12:00	07/21/25 09:55	0.5
890-8478-2	HA - 1	Solid	07/18/25 12:05	07/21/25 09:55	1
890-8478-3	HA - 1	Solid	07/18/25 12:10	07/21/25 09:55	2
890-8478-4	HA - 2	Solid	07/18/25 12:15	07/21/25 09:55	0.5
890-8478-5	HA - 2	Solid	07/18/25 12:20	07/21/25 09:55	1
890-8478-6	HA - 2	Solid	07/18/25 12:25	07/21/25 09:55	2
890-8478-7	HA - 3	Solid	07/18/25 12:30	07/21/25 09:55	0.5
890-8478-8	HA - 3	Solid	07/18/25 12:35	07/21/25 09:55	1
890-8478-9	HA - 3	Solid	07/18/25 12:40	07/21/25 09:55	2
890-8478-10	HA - 4	Solid	07/18/25 12:45	07/21/25 09:55	0.5
890-8478-11	HA - 4	Solid	07/18/25 12:50	07/21/25 09:55	1
890-8478-12	HA - 4	Solid	07/18/25 12:55	07/21/25 09:55	2
890-8478-13	HA - 5	Solid	07/18/25 13:00	07/21/25 09:55	0.5
890-8478-14	HA - 5	Solid	07/18/25 13:05	07/21/25 09:55	1
890-8478-15	HA - 5	Solid	07/18/25 13:10	07/21/25 09:55	2
890-8478-16	HA - 5	Solid	07/18/25 13:15	07/21/25 09:55	3
890-8478-17	HA - 6	Solid	07/18/25 13:20	07/21/25 09:55	0.5
890-8478-18	HA - 6	Solid	07/18/25 13:25	07/21/25 09:55	1
890-8478-19	HA - 6	Solid	07/18/25 13:30	07/21/25 09:55	2

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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

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Gilbert Moreno	Bill to: (if different)	
Company Name:	Earth Systems R&R	Company Name:	Earth Systems
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmoreno@earthsys.net

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Nailed It B CTB
Project Number:	6798
Project Location:	Eddy County, NM
Sampler's Name:	Santiago Giron
CC/WO #:	

Turn Around

☑ Routine ☐ Rush
Due Date: Routine TAT
TAT starts the day received by the lab, if received by 4:30pm

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	-4.8
Total Containers:		Corrected Temperature:	-4.6

ANALYSIS REQUEST

890-8478 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/ Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	Sample Comments
HA-1	S	7.18.25	12:00	0.5	Grab/	1	X	X	X			Incident Number
HA-1	S	7.18.25	12:05	1	Grab/	1	X	X	X			nAPP2519532647
HA-1	S	7.18.25	12:10	2	Grab/	1	X	X	X			
HA-2	S	7.18.25	12:15	0.5	Grab/	1	X	X	X			
HA-2	S	7.18.25	12:20	1	Grab/	1	X	X	X			
HA-2	S	7.18.25	12:25	2	Grab/	1	X	X	X			
HA-3	S	7.18.25	12:30	0.5	Grab/	1	X	X	X			
HA-3	S	7.18.25	12:35	1	Grab/	1	X	X	X			
HA-3	S	7.18.25	12:40	2	Grab/	1	X	X	X			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed
Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0		7/21 0955	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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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

Work Order No: _____

www.xenco.com Page 2 of 3

Project Manager:	Gilbert Moreno	Bill to: (if different)	
Company Name:	Earth Systems R&R	Company Name:	Earth Systems
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmoreno@earthsys.net

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Nailed It B CTB	Turn Around	
Project Number:	6798	☑ Routine ☐ Rush	
Project Location:	Eddy County, NM	Due Date:	Routine TAT
Sampler's Name:	Santiago Giron	TAT starts the day received by the lab, if received by 4:30pm	
CC/WO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	-4.8	
Total Containers:		Corrected Temperature:	-4.6	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/ Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	Sample Comments
HA-4	S	7.18.25	12:45	0.5	Grab/	1	X	X	X			Incident Number
HA-4	S	7.18.25	12:50	1	Grab/	1	X	X	X			nAPP2519532647
HA-4	S	7.18.25	12:55	2	Grab/	1	X	X	X			
HA-5	S	7.18.25	13:00	0.5	Grab/	1	X	X	X			
HA-5	S	7.18.25	13:05	1	Grab/	1	X	X	X			
HA-5	S	7.18.25	13:10	2	Grab/	1	X	X	X			
HA-5	S	7.18.25	13:15	3	Grab/	1	X	X	X			
HA-6	S	7.18.25	13:20	0.5	Grab/	1	X	X	X			
HA-6	S	7.18.25	13:25	1	Grab/	1	X	X	X			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed
Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0		7/21 955	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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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

Work Order No: _____

www.xenco.com Page 3 of 3

Project Manager:	Gilbert Moreno	Bill to: (if different)	
Company Name:	Earth Systems R&R	Company Name:	Earth Systems
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmoreno@earthsys.net

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Nailed It B CTB	Turn Around	☑ Routine ☐ Rush
Project Number:	6798	Due Date:	Routine TAT
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Santiago Giron		
CC/WO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	-4.8
Total Containers:		Corrected Temperature:	-4.6

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2S0_4: H_2 | NaOH: Na
~~H_3PO_4: HP~~
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
~~Zn Acetate+NaOH: Zn~~
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/ Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	Sample Comments
HA-6	S	7.18.25	13:30	2	Grab/	1	X	X	X			Incident Number: nAPP2519532647

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed
Hg: 1631 / 245.1 / 7470 / 7471

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 incurred 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, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0		7/21 955	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8478-1
SDG Number: Eddy County, NM

Login Number: 8478
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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	

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8478-1
SDG Number: Eddy County, NM

Login Number: 8478
List Number: 2
Creator: Rios, Minerva

List Source: Eurofins Midland
List Creation: 07/22/25 08:27 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Generated 7/25/2025 10:29:14 AM

JOB DESCRIPTION

Nailed it B CTB
Eddy County, NM

JOB NUMBER

890-8479-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

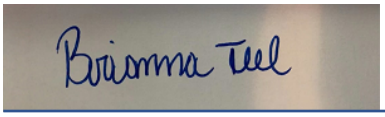
Eurofins Carlsbad

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
7/25/2025 10:29:14 AM

Authorized for release by
Brianna Teel, Project Manager
Brianna.Teel@et.eurofinsus.com
(432)704-5440

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Laboratory Job ID: 890-8479-1
SDG: Eddy County, NM

Table of Contents

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration Job ID: 890-8479-1
Project: Nailed it B CTB

Job ID: 890-8479-1 Eurofins Carlsbad

Job Narrative
890-8479-1

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 7/21/2025 9:59 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -4.6°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: HA-7 (890-8479-1), HA-7 (890-8479-2), HA-8 (890-8479-3), HA-8 (890-8479-4), HA-9 (890-8479-5), HA-9 (890-8479-6), HA-10 (890-8479-7) and HA-10 (890-8479-8).

GC VOA
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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-114638 and analytical batch 880-114940 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: HA-9 (890-8479-5). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

Client Sample ID: HA-7

Lab Sample ID: 890-8479-1
Matrix: Solid
Date Collected: 07/18/25 13:35
Date Received: 07/21/25 09:59
Sample Depth: 0.5

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		07/21/25 12:25	07/22/25 11:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 11:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 11:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/21/25 12:25	07/22/25 11:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 11:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/21/25 12:25	07/22/25 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*07/21/25 12:25*	*07/22/25 11:36*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/21/25 12:25*	*07/22/25 11:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/22/25 11:36	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			07/24/25 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 20:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 20:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:39	07/24/25 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/22/25 08:39*	*07/24/25 20:30*	*1*
o-Terphenyl	*100*		*70 - 130*	*07/22/25 08:39*	*07/24/25 20:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**		10.1		mg/Kg			07/23/25 01:02	1

Client Sample ID: HA-7

Lab Sample ID: 890-8479-2
Matrix: Solid
Date Collected: 07/18/25 13:40
Date Received: 07/21/25 09:59
Sample Depth: 2

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		07/21/25 12:25	07/22/25 11:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:25	07/22/25 11:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:25	07/22/25 11:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/21/25 12:25	07/22/25 11:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:25	07/22/25 11:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/21/25 12:25	07/22/25 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/21/25 12:25*	*07/22/25 11:57*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

Client Sample ID: HA-7

Lab Sample ID: 890-8479-2
Matrix: Solid

Date Collected: 07/18/25 13:40
Date Received: 07/21/25 09:59
Sample Depth: 2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/21/25 12:25*	*07/22/25 11:57*	*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			07/22/25 11:57	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			07/24/25 22:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		07/22/25 08:41	07/24/25 22:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		07/22/25 08:41	07/24/25 22:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:41	07/24/25 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*07/22/25 08:41*	*07/24/25 22:38*	*1*
o-Terphenyl	*94*		*70 - 130*	*07/22/25 08:41*	*07/24/25 22:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**105**		10.0		mg/Kg			07/23/25 01:10	1

Client Sample ID: HA-8

Lab Sample ID: 890-8479-3
Matrix: Solid

Date Collected: 07/18/25 13:45
Date Received: 07/21/25 09:59
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/21/25 12:25	07/22/25 12:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/21/25 12:25	07/22/25 12:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/21/25 12:25	07/22/25 12:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/21/25 12:25	07/22/25 12:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/21/25 12:25	07/22/25 12:17	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/21/25 12:25	07/22/25 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/21/25 12:25*	*07/22/25 12:17*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/21/25 12:25*	*07/22/25 12:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/22/25 12:17	1

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			07/24/25 23:25	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

Client Sample ID: HA-8

Lab Sample ID: 890-8479-3
Matrix: Solid
Date Collected: 07/18/25 13:45
Date Received: 07/21/25 09:59
Sample Depth: 0.5

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	<49.9	U	49.9		mg/Kg		07/22/25 08:41	07/24/25 23:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/22/25 08:41	07/24/25 23:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/22/25 08:41	07/24/25 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*07/22/25 08:41*	*07/24/25 23:25*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/22/25 08:41*	*07/24/25 23:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**63.9**		9.98		mg/Kg			07/23/25 01:18	1

Client Sample ID: HA-8

Lab Sample ID: 890-8479-4
Matrix: Solid
Date Collected: 07/18/25 13:50
Date Received: 07/21/25 09:59
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:25	07/22/25 12:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:25	07/22/25 12:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:25	07/22/25 12:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/21/25 12:25	07/22/25 12:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:25	07/22/25 12:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/21/25 12:25	07/22/25 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/21/25 12:25*	*07/22/25 12:38*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/21/25 12:25*	*07/22/25 12:38*	*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		mg/Kg			07/22/25 12:38	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			07/24/25 23:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:41	07/24/25 23:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:41	07/24/25 23:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:41	07/24/25 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*07/22/25 08:41*	*07/24/25 23:41*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/22/25 08:41*	*07/24/25 23:41*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

Client Sample ID: HA-8

Lab Sample ID: 890-8479-4
Matrix: Solid
Date Collected: 07/18/25 13:50
Date Received: 07/21/25 09:59
Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.4		10.1		mg/Kg			07/22/25 21:39	1

Client Sample ID: HA-9

Lab Sample ID: 890-8479-5
Matrix: Solid
Date Collected: 07/18/25 13:55
Date Received: 07/21/25 09:59
Sample Depth: 0.5

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		07/21/25 12:25	07/22/25 12:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 12:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 12:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/21/25 12:25	07/22/25 12:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 12:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/21/25 12:25	07/22/25 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/21/25 12:25*	*07/22/25 12:58*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*07/21/25 12:25*	*07/22/25 12:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/22/25 12:58	1

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			07/24/25 23:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/22/25 08:41	07/24/25 23:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/22/25 08:41	07/24/25 23:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/22/25 08:41	07/24/25 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*07/22/25 08:41*	*07/24/25 23:57*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*07/22/25 08:41*	*07/24/25 23:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.0		9.98		mg/Kg			07/22/25 21:56	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

Client Sample ID: HA-9

Lab Sample ID: 890-8479-6
Matrix: Solid
Date Collected: 07/18/25 14:00
Date Received: 07/21/25 09:59
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/21/25 12:25	07/22/25 13:19	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/21/25 12:25	07/22/25 13:19	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/21/25 12:25	07/22/25 13:19	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/21/25 12:25	07/22/25 13:19	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/21/25 12:25	07/22/25 13:19	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/21/25 12:25	07/22/25 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/21/25 12:25*	*07/22/25 13:19*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*07/21/25 12:25*	*07/22/25 13:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/22/25 13:19	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			07/25/25 00:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:41	07/25/25 00:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:41	07/25/25 00:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:41	07/25/25 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*07/22/25 08:41*	*07/25/25 00:13*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/22/25 08:41*	*07/25/25 00:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.9**		10.1		mg/Kg			07/22/25 22:02	1

Client Sample ID: HA-10

Lab Sample ID: 890-8479-7
Matrix: Solid
Date Collected: 07/18/25 14:05
Date Received: 07/21/25 09:59
Sample Depth: 0.5

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		07/21/25 12:25	07/22/25 13:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:25	07/22/25 13:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:25	07/22/25 13:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/21/25 12:25	07/22/25 13:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:25	07/22/25 13:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/21/25 12:25	07/22/25 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/21/25 12:25*	*07/22/25 13:39*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

Client Sample ID: HA-10

Lab Sample ID: 890-8479-7
Matrix: Solid
Date Collected: 07/18/25 14:05
Date Received: 07/21/25 09:59
Sample Depth: 0.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/21/25 12:25*	*07/22/25 13:39*	*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			07/22/25 13:39	1

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			07/25/25 00:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/22/25 08:41	07/25/25 00:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/22/25 08:41	07/25/25 00:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/22/25 08:41	07/25/25 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*07/22/25 08:41*	*07/25/25 00:30*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/22/25 08:41*	*07/25/25 00:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.4**		10.0		mg/Kg			07/22/25 22:08	1

Client Sample ID: HA-10

Lab Sample ID: 890-8479-8
Matrix: Solid
Date Collected: 07/18/25 14:10
Date Received: 07/21/25 09:59
Sample Depth: 2

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		07/21/25 12:25	07/22/25 14:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:25	07/22/25 14:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:25	07/22/25 14:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/21/25 12:25	07/22/25 14:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:25	07/22/25 14:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/21/25 12:25	07/22/25 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*07/21/25 12:25*	*07/22/25 14:00*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/21/25 12:25*	*07/22/25 14:00*	*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			07/22/25 14:00	1

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			07/25/25 00:46	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

Client Sample ID: HA-10

Lab Sample ID: 890-8479-8
Matrix: Solid
Date Collected: 07/18/25 14:10
Date Received: 07/21/25 09:59
Sample Depth: 2

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	<49.9	U	49.9		mg/Kg		07/22/25 08:41	07/25/25 00:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/22/25 08:41	07/25/25 00:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/22/25 08:41	07/25/25 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*07/22/25 08:41*	*07/25/25 00:46*	*1*
o-Terphenyl	*115*		*70 - 130*	*07/22/25 08:41*	*07/25/25 00:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.7**		10.0		mg/Kg			07/22/25 22:13	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8479-1	HA-7	89	97
890-8479-1 MS	HA-7	110	98
890-8479-1 MSD	HA-7	102	104
890-8479-2	HA-7	102	97
890-8479-3	HA-8	92	98
890-8479-4	HA-8	106	89
890-8479-5	HA-9	101	79
890-8479-6	HA-9	97	85
890-8479-7	HA-10	101	87
890-8479-8	HA-10	94	94
LCS 880-114594/1-A	Lab Control Sample	109	99
LCSD 880-114594/2-A	Lab Control Sample Dup	107	99
MB 880-114594/5-A	Method Blank	87	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8479-1	HA-7	97	100
890-8479-2	HA-7	93	94
890-8479-2 MS	HA-7	124	105
890-8479-2 MSD	HA-7	126	106
890-8479-3	HA-8	113	111
890-8479-4	HA-8	109	108
890-8479-5	HA-9	135 S1+	132 S1+
890-8479-6	HA-9	111	108
890-8479-7	HA-10	113	110
890-8479-8	HA-10	117	115
LCS 880-114637/2-A	Lab Control Sample	96	98
LCS 880-114638/2-A	Lab Control Sample	105	113
LCSD 880-114637/3-A	Lab Control Sample Dup	100	102
LCSD 880-114638/3-A	Lab Control Sample Dup	105	112
MB 880-114637/1-A	Method Blank	93	88
MB 880-114638/1-A	Method Blank	101	99

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-114594/5-A
Matrix: Solid
Analysis Batch: 114648

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 114594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 11:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/21/25 12:25	07/22/25 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/21/25 12:25	07/22/25 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*07/21/25 12:25*	*07/22/25 11:14*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/21/25 12:25*	*07/22/25 11:14*	*1*

Lab Sample ID: LCS 880-114594/1-A
Matrix: Solid
Analysis Batch: 114648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 114594

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08753		mg/Kg		88	70 - 130
Toluene	0.100	0.08970		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08655		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1841		mg/Kg		92	70 - 130
o-Xylene	0.100	0.1010		mg/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-114594/2-A
Matrix: Solid
Analysis Batch: 114648

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 114594

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09168		mg/Kg		92	70 - 130	5	35
Toluene	0.100	0.09046		mg/Kg		90	70 - 130	1	35
Ethylbenzene	0.100	0.09604		mg/Kg		96	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2063		mg/Kg		103	70 - 130	11	35
o-Xylene	0.100	0.08908		mg/Kg		89	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-8479-1 MS
Matrix: Solid
Analysis Batch: 114648

Client Sample ID: HA-7
Prep Type: Total/NA
Prep Batch: 114594

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08570		mg/Kg		86	70 - 130
Toluene	<0.00200	U	0.100	0.08297		mg/Kg		83	70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

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

Lab Sample ID: 890-8479-1 MS
Matrix: Solid
Analysis Batch: 114648

Client Sample ID: HA-7
Prep Type: Total/NA
Prep Batch: 114594

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.07717		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2113		mg/Kg		106	70 - 130
o-Xylene	<0.00200	U	0.100	0.09807		mg/Kg		98	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-8479-1 MSD
Matrix: Solid
Analysis Batch: 114648

Client Sample ID: HA-7
Prep Type: Total/NA
Prep Batch: 114594

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09708		mg/Kg		97	70 - 130	12	35
Toluene	<0.00200	U	0.100	0.1003		mg/Kg		100	70 - 130	19	35
Ethylbenzene	<0.00200	U	0.100	0.1067		mg/Kg		107	70 - 130	32	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2256		mg/Kg		113	70 - 130	7	35
o-Xylene	<0.00200	U	0.100	0.1041		mg/Kg		104	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

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

Lab Sample ID: MB 880-114637/1-A
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 114637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:11	07/24/25 03:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:11	07/24/25 03:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:11	07/24/25 03:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*07/22/25 08:11*	*07/24/25 03:15*	*1*
o-Terphenyl	*88*		*70 - 130*	*07/22/25 08:11*	*07/24/25 03:15*	*1*

Lab Sample ID: LCS 880-114637/2-A
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 114637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	899.2		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1035		mg/Kg		103	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-114637/2-A
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 114637

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-114637/3-A
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 114637

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	946.0		mg/Kg		95	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	1015		mg/Kg		101	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: MB 880-114638/1-A
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 114638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:11	07/24/25 21:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:11	07/24/25 21:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:11	07/24/25 21:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	07/22/25 08:11	07/24/25 21:50	1
o-Terphenyl	99		70 - 130	07/22/25 08:11	07/24/25 21:50	1

Lab Sample ID: LCS 880-114638/2-A
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 114638

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1022		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1058		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	113		70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-114638/3-A
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 114638

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1011		mg/Kg		101	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1049		mg/Kg		105	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: 890-8479-2 MS
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: HA-7
Prep Type: Total/NA
Prep Batch: 114638

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	996	1555	F1	mg/Kg		156	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	1480	F1	mg/Kg		149	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*124*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: 890-8479-2 MSD
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: HA-7
Prep Type: Total/NA
Prep Batch: 114638

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	996	1624	F1	mg/Kg		163	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	1517	F1	mg/Kg		152	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*126*		*70 - 130*
o-Terphenyl	*106*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-114666/1-A
Matrix: Solid
Analysis Batch: 114730

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			07/22/25 21:28	1

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-114666/2-A
Matrix: Solid
Analysis Batch: 114730

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	230.4		mg/Kg		92	90 - 110		

Lab Sample ID: LCSD 880-114666/3-A
Matrix: Solid
Analysis Batch: 114730

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	229.8		mg/Kg		92	90 - 110	0	20

Lab Sample ID: MB 880-114731/1-A
Matrix: Solid
Analysis Batch: 114748

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			07/22/25 21:22	1

Lab Sample ID: LCS 880-114731/2-A
Matrix: Solid
Analysis Batch: 114748

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	248.3		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-114731/3-A
Matrix: Solid
Analysis Batch: 114748

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	247.7		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-8479-4 MS
Matrix: Solid
Analysis Batch: 114748

Client Sample ID: HA-8
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	18.4		252	274.2		mg/Kg		101	90 - 110		

Lab Sample ID: 890-8479-4 MSD
Matrix: Solid
Analysis Batch: 114748

Client Sample ID: HA-8
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	18.4		252	274.4		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 114594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8479-1	HA-7	Total/NA	Solid	5035	
890-8479-2	HA-7	Total/NA	Solid	5035	
890-8479-3	HA-8	Total/NA	Solid	5035	
890-8479-4	HA-8	Total/NA	Solid	5035	
890-8479-5	HA-9	Total/NA	Solid	5035	
890-8479-6	HA-9	Total/NA	Solid	5035	
890-8479-7	HA-10	Total/NA	Solid	5035	
890-8479-8	HA-10	Total/NA	Solid	5035	
MB 880-114594/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-114594/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-114594/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8479-1 MS	HA-7	Total/NA	Solid	5035	
890-8479-1 MSD	HA-7	Total/NA	Solid	5035	

Analysis Batch: 114648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8479-1	HA-7	Total/NA	Solid	8021B	114594
890-8479-2	HA-7	Total/NA	Solid	8021B	114594
890-8479-3	HA-8	Total/NA	Solid	8021B	114594
890-8479-4	HA-8	Total/NA	Solid	8021B	114594
890-8479-5	HA-9	Total/NA	Solid	8021B	114594
890-8479-6	HA-9	Total/NA	Solid	8021B	114594
890-8479-7	HA-10	Total/NA	Solid	8021B	114594
890-8479-8	HA-10	Total/NA	Solid	8021B	114594
MB 880-114594/5-A	Method Blank	Total/NA	Solid	8021B	114594
LCS 880-114594/1-A	Lab Control Sample	Total/NA	Solid	8021B	114594
LCSD 880-114594/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	114594
890-8479-1 MS	HA-7	Total/NA	Solid	8021B	114594
890-8479-1 MSD	HA-7	Total/NA	Solid	8021B	114594

Analysis Batch: 114754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8479-1	HA-7	Total/NA	Solid	Total BTEX	
890-8479-2	HA-7	Total/NA	Solid	Total BTEX	
890-8479-3	HA-8	Total/NA	Solid	Total BTEX	
890-8479-4	HA-8	Total/NA	Solid	Total BTEX	
890-8479-5	HA-9	Total/NA	Solid	Total BTEX	
890-8479-6	HA-9	Total/NA	Solid	Total BTEX	
890-8479-7	HA-10	Total/NA	Solid	Total BTEX	
890-8479-8	HA-10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 114637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8479-1	HA-7	Total/NA	Solid	8015NM Prep	
MB 880-114637/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-114637/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-114637/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

GC Semi VOA

Prep Batch: 114638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8479-2	HA-7	Total/NA	Solid	8015NM Prep	
890-8479-3	HA-8	Total/NA	Solid	8015NM Prep	
890-8479-4	HA-8	Total/NA	Solid	8015NM Prep	
890-8479-5	HA-9	Total/NA	Solid	8015NM Prep	
890-8479-6	HA-9	Total/NA	Solid	8015NM Prep	
890-8479-7	HA-10	Total/NA	Solid	8015NM Prep	
890-8479-8	HA-10	Total/NA	Solid	8015NM Prep	
MB 880-114638/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-114638/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-114638/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8479-2 MS	HA-7	Total/NA	Solid	8015NM Prep	
890-8479-2 MSD	HA-7	Total/NA	Solid	8015NM Prep	

Analysis Batch: 114940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8479-1	HA-7	Total/NA	Solid	8015B NM	114637
890-8479-2	HA-7	Total/NA	Solid	8015B NM	114638
890-8479-3	HA-8	Total/NA	Solid	8015B NM	114638
890-8479-4	HA-8	Total/NA	Solid	8015B NM	114638
890-8479-5	HA-9	Total/NA	Solid	8015B NM	114638
890-8479-6	HA-9	Total/NA	Solid	8015B NM	114638
890-8479-7	HA-10	Total/NA	Solid	8015B NM	114638
890-8479-8	HA-10	Total/NA	Solid	8015B NM	114638
MB 880-114637/1-A	Method Blank	Total/NA	Solid	8015B NM	114637
MB 880-114638/1-A	Method Blank	Total/NA	Solid	8015B NM	114638
LCS 880-114637/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	114637
LCS 880-114638/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	114638
LCSD 880-114637/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	114637
LCSD 880-114638/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	114638
890-8479-2 MS	HA-7	Total/NA	Solid	8015B NM	114638
890-8479-2 MSD	HA-7	Total/NA	Solid	8015B NM	114638

Analysis Batch: 115023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8479-1	HA-7	Total/NA	Solid	8015 NM	
890-8479-2	HA-7	Total/NA	Solid	8015 NM	
890-8479-3	HA-8	Total/NA	Solid	8015 NM	
890-8479-4	HA-8	Total/NA	Solid	8015 NM	
890-8479-5	HA-9	Total/NA	Solid	8015 NM	
890-8479-6	HA-9	Total/NA	Solid	8015 NM	
890-8479-7	HA-10	Total/NA	Solid	8015 NM	
890-8479-8	HA-10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 114666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8479-1	HA-7	Soluble	Solid	DI Leach	
890-8479-2	HA-7	Soluble	Solid	DI Leach	
890-8479-3	HA-8	Soluble	Solid	DI Leach	
MB 880-114666/1-A	Method Blank	Soluble	Solid	DI Leach	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Leach Batch: 114666 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-114666/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-114666/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 114730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8479-1	HA-7	Soluble	Solid	300.0	114666
890-8479-2	HA-7	Soluble	Solid	300.0	114666
890-8479-3	HA-8	Soluble	Solid	300.0	114666
MB 880-114666/1-A	Method Blank	Soluble	Solid	300.0	114666
LCS 880-114666/2-A	Lab Control Sample	Soluble	Solid	300.0	114666
LCSD 880-114666/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	114666

Leach Batch: 114731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8479-4	HA-8	Soluble	Solid	DI Leach	
890-8479-5	HA-9	Soluble	Solid	DI Leach	
890-8479-6	HA-9	Soluble	Solid	DI Leach	
890-8479-7	HA-10	Soluble	Solid	DI Leach	
890-8479-8	HA-10	Soluble	Solid	DI Leach	
MB 880-114731/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-114731/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-114731/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8479-4 MS	HA-8	Soluble	Solid	DI Leach	
890-8479-4 MSD	HA-8	Soluble	Solid	DI Leach	

Analysis Batch: 114748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8479-4	HA-8	Soluble	Solid	300.0	114731
890-8479-5	HA-9	Soluble	Solid	300.0	114731
890-8479-6	HA-9	Soluble	Solid	300.0	114731
890-8479-7	HA-10	Soluble	Solid	300.0	114731
890-8479-8	HA-10	Soluble	Solid	300.0	114731
MB 880-114731/1-A	Method Blank	Soluble	Solid	300.0	114731
LCS 880-114731/2-A	Lab Control Sample	Soluble	Solid	300.0	114731
LCSD 880-114731/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	114731
890-8479-4 MS	HA-8	Soluble	Solid	300.0	114731
890-8479-4 MSD	HA-8	Soluble	Solid	300.0	114731

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

Client Sample ID: HA-7
Date Collected: 07/18/25 13:35
Date Received: 07/21/25 09:59

Lab Sample ID: 890-8479-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	114594	07/21/25 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114648	07/22/25 11:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114754	07/22/25 11:36	SA	EET MID
Total/NA	Analysis	8015 NM		1			115023	07/24/25 20:30	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	114637	07/22/25 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 20:30	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		1			114730	07/23/25 01:02	CS	EET MID

Client Sample ID: HA-7
Date Collected: 07/18/25 13:40
Date Received: 07/21/25 09:59

Lab Sample ID: 890-8479-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	114594	07/21/25 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114648	07/22/25 11:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114754	07/22/25 11:57	SA	EET MID
Total/NA	Analysis	8015 NM		1			115023	07/24/25 22:38	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	114638	07/22/25 08:41	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 22:38	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		1			114730	07/23/25 01:10	CS	EET MID

Client Sample ID: HA-8
Date Collected: 07/18/25 13:45
Date Received: 07/21/25 09:59

Lab Sample ID: 890-8479-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	114594	07/21/25 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114648	07/22/25 12:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114754	07/22/25 12:17	SA	EET MID
Total/NA	Analysis	8015 NM		1			115023	07/24/25 23:25	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	114638	07/22/25 08:41	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 23:25	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	114666	07/22/25 08:43	SI	EET MID
Soluble	Analysis	300.0		1			114730	07/23/25 01:18	CS	EET MID

Client Sample ID: HA-8
Date Collected: 07/18/25 13:50
Date Received: 07/21/25 09:59

Lab Sample ID: 890-8479-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	114594	07/21/25 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114648	07/22/25 12:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114754	07/22/25 12:38	SA	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Job ID: 890-8479-1
Project/Site: Nailed it B CTB
SDG: Eddy County, NM

Client Sample ID: HA-8
Lab Sample ID: 890-8479-4
Date Collected: 07/18/25 13:50
Matrix: Solid
Date Received: 07/21/25 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			115023	07/24/25 23:41	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	114638	07/22/25 08:41	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 23:41	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	114731	07/22/25 12:01	SI	EET MID
Soluble	Analysis	300.0		1			114748	07/22/25 21:39	CS	EET MID

Client Sample ID: HA-9
Lab Sample ID: 890-8479-5
Date Collected: 07/18/25 13:55
Matrix: Solid
Date Received: 07/21/25 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	114594	07/21/25 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114648	07/22/25 12:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114754	07/22/25 12:58	SA	EET MID
Total/NA	Analysis	8015 NM		1			115023	07/24/25 23:57	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	114638	07/22/25 08:41	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/24/25 23:57	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	114731	07/22/25 12:01	SI	EET MID
Soluble	Analysis	300.0		1			114748	07/22/25 21:56	CS	EET MID

Client Sample ID: HA-9
Lab Sample ID: 890-8479-6
Date Collected: 07/18/25 14:00
Matrix: Solid
Date Received: 07/21/25 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	114594	07/21/25 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114648	07/22/25 13:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114754	07/22/25 13:19	SA	EET MID
Total/NA	Analysis	8015 NM		1			115023	07/25/25 00:13	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	114638	07/22/25 08:41	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/25/25 00:13	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	114731	07/22/25 12:01	SI	EET MID
Soluble	Analysis	300.0		1			114748	07/22/25 22:02	CS	EET MID

Client Sample ID: HA-10
Lab Sample ID: 890-8479-7
Date Collected: 07/18/25 14:05
Matrix: Solid
Date Received: 07/21/25 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	114594	07/21/25 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114648	07/22/25 13:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114754	07/22/25 13:39	SA	EET MID
Total/NA	Analysis	8015 NM		1			115023	07/25/25 00:30	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	114638	07/22/25 08:41	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/25/25 00:30	TKC	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Job ID: 890-8479-1
Project/Site: Nailed it B CTB
SDG: Eddy County, NM

Client Sample ID: HA-10
Lab Sample ID: 890-8479-7
Date Collected: 07/18/25 14:05
Matrix: Solid
Date Received: 07/21/25 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	114731	07/22/25 12:01	SI	EET MID
Soluble	Analysis	300.0		1			114748	07/22/25 22:08	CS	EET MID

Client Sample ID: HA-10
Lab Sample ID: 890-8479-8
Date Collected: 07/18/25 14:10
Matrix: Solid
Date Received: 07/21/25 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	114594	07/21/25 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114648	07/22/25 14:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114754	07/22/25 14:00	SA	EET MID
Total/NA	Analysis	8015 NM		1			115023	07/25/25 00:46	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	114638	07/22/25 08:41	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/25/25 00:46	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	114731	07/22/25 12:01	SI	EET MID
Soluble	Analysis	300.0		1			114748	07/22/25 22:13	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Job ID: 890-8479-1
Project/Site: Nailed it B CTB
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
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

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed it B CTB

Job ID: 890-8479-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8479-1	HA-7	Solid	07/18/25 13:35	07/21/25 09:59	0.5
890-8479-2	HA-7	Solid	07/18/25 13:40	07/21/25 09:59	2
890-8479-3	HA-8	Solid	07/18/25 13:45	07/21/25 09:59	0.5
890-8479-4	HA-8	Solid	07/18/25 13:50	07/21/25 09:59	2
890-8479-5	HA-9	Solid	07/18/25 13:55	07/21/25 09:59	0.5
890-8479-6	HA-9	Solid	07/18/25 14:00	07/21/25 09:59	2
890-8479-7	HA-10	Solid	07/18/25 14:05	07/21/25 09:59	0.5
890-8479-8	HA-10	Solid	07/18/25 14:10	07/21/25 09:59	2

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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

890-8479 Chain of Custody

Project Manager:	Gilbert Moreno	Bill to: (if different)	
Company Name:	Earth Systems R&R	Company Name:	Earth Systems
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmoreno@earthsys.net

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Nailed It B CTB	Turn Around	
Project Number:	6798	☑ Routine ☐ Rush	
Project Location:	Eddy County, NM	Due Date:	Routine TAT
Sampler's Name:	Santiago Giron	TAT starts the day received by the lab, if received by 4:30pm	
CC/WO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TN#007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	-4.8	
Total Containers:		Corrected Temperature:	-4.6	

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
~~H_3PO_4: HP~~
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
~~Zn Acetate+NaOH: Zn~~
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/ Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush
HA-7	S	7.18.25	13:35	0.5	Grab/	1	X	X	X		
HA-7	S	7.18.25	13:40	2	Grab/	1	X	X	X		
HA-8	S	7.18.25	13:45	0.5	Grab/	1	X	X	X		
HA-8	S	7.18.25	13:50	2	Grab/	1	X	X	X		
HA-9	S	7.18.25	13:55	0.5	Grab/	1	X	X	X		
HA-9	S	7.18.25	14:00	2	Grab/	1	X	X	X		
HA-10	S	7.18.25	14:05	0.5	Grab/	1	X	X	X		
HA-10	S	7.18.25	14:10	2	Grab/	1	X	X	X		

Sample Comments

Incident Number
nAPP2519532647

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed
Hg: 1631 / 245.1 / 7470 / 7471

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 incurred 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, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0	Alexis Mc Rose	9:59 7/21	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8479-1
SDG Number: Eddy County, NM

Login Number: 8479
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8479-1
SDG Number: Eddy County, NM

Login Number: 8479
List Number: 2
Creator: Rios, Minerva

List Source: Eurofins Midland
List Creation: 07/22/25 08:24 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Generated 7/23/2025 12:23:56 PM

JOB DESCRIPTION

Nailed It B CTB
Eddy County, NM

JOB NUMBER

890-8480-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

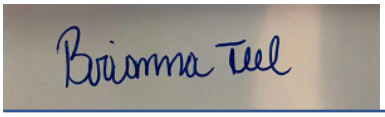
Eurofins Carlsbad

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
7/23/2025 12:23:56 PM

Authorized for release by
Brianna Teel, Project Manager
Brianna.Teel@et.eurofinsus.com
(432)704-5440

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Laboratory Job ID: 890-8480-1
SDG: Eddy County, NM

Table of Contents

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8480-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration Job ID: 890-8480-1
Project: Nailed It B CTB

Job ID: 890-8480-1 Eurofins Carlsbad

Job Narrative
890-8480-1

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 7/21/2025 9:59 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -4.6°C.

GC VOA
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: Surrogate recovery for the following samples were outside control limits: HA-11 (890-8480-1), HA-11 (890-8480-2) and HA-11 (890-8480-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-114633/2-A) and (LCSD 880-114633/3-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-114633 and analytical batch 880-114680 was outside the upper control limits.

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

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

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8480-1
SDG: Eddy County, NM

Client Sample ID: HA-11

Lab Sample ID: 890-8480-1
Matrix: Solid
Date Collected: 07/18/25 14:15
Date Received: 07/21/25 09:59
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:25	07/22/25 16:42	1
Toluene	**0.00337**		0.00199		mg/Kg		07/21/25 12:25	07/22/25 16:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:25	07/22/25 16:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/21/25 12:25	07/22/25 16:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:25	07/22/25 16:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/21/25 12:25	07/22/25 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/21/25 12:25*	*07/22/25 16:42*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/21/25 12:25*	*07/22/25 16:42*	*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		mg/Kg			07/22/25 16:42	1

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			07/22/25 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/22/25 08:15	07/22/25 18:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/22/25 08:15	07/22/25 18:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/22/25 08:15	07/22/25 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*07/22/25 08:15*	*07/22/25 18:52*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*07/22/25 08:15*	*07/22/25 18:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4660**		99.8		mg/Kg			07/22/25 22:30	10

Client Sample ID: HA-11

Lab Sample ID: 890-8480-2
Matrix: Solid
Date Collected: 07/18/25 14:20
Date Received: 07/21/25 09:59
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/21/25 12:25	07/22/25 17:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/21/25 12:25	07/22/25 17:03	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/21/25 12:25	07/22/25 17:03	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/21/25 12:25	07/22/25 17:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/21/25 12:25	07/22/25 17:03	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/21/25 12:25	07/22/25 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*07/21/25 12:25*	*07/22/25 17:03*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8480-1
SDG: Eddy County, NM

Client Sample ID: HA-11

Lab Sample ID: 890-8480-2
Matrix: Solid
Date Collected: 07/18/25 14:20
Date Received: 07/21/25 09:59
Sample Depth: 1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/21/25 12:25*	*07/22/25 17:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/22/25 17:03	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			07/22/25 19:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:15	07/22/25 19:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:15	07/22/25 19:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:15	07/22/25 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*07/22/25 08:15*	*07/22/25 19:08*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*07/22/25 08:15*	*07/22/25 19:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.9**		10.0		mg/Kg			07/22/25 22:36	1

Client Sample ID: HA-11

Lab Sample ID: 890-8480-3
Matrix: Solid
Date Collected: 07/18/25 14:25
Date Received: 07/21/25 09:59
Sample Depth: 2

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		07/21/25 12:25	07/22/25 17:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:25	07/22/25 17:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:25	07/22/25 17:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/21/25 12:25	07/22/25 17:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/21/25 12:25	07/22/25 17:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/21/25 12:25	07/22/25 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/21/25 12:25*	*07/22/25 17:23*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*07/21/25 12:25*	*07/22/25 17:23*	*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			07/22/25 17:23	1

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			07/22/25 19:23	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8480-1
SDG: Eddy County, NM

Client Sample ID: HA-11

Date Collected: 07/18/25 14:25
Date Received: 07/21/25 09:59
Sample Depth: 2

Lab Sample ID: 890-8480-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/22/25 08:15	07/22/25 19:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/22/25 08:15	07/22/25 19:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/22/25 08:15	07/22/25 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*07/22/25 08:15*	*07/22/25 19:23*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*07/22/25 08:15*	*07/22/25 19:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.0**		9.98		mg/Kg			07/22/25 22:42	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8480-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8480-1	HA-11	92	93
890-8480-2	HA-11	94	96
890-8480-3	HA-11	102	84
LCS 880-114594/1-A	Lab Control Sample	109	99
LCSD 880-114594/2-A	Lab Control Sample Dup	107	99
MB 880-114594/5-A	Method Blank	87	93

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)
890-8480-1	HA-11	130	134 S1+
890-8480-2	HA-11	128	131 S1+
890-8480-3	HA-11	130	133 S1+
LCS 880-114633/2-A	Lab Control Sample	131 S1+	135 S1+
LCSD 880-114633/3-A	Lab Control Sample Dup	136 S1+	140 S1+
MB 880-114633/1-A	Method Blank	118	133 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8480-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-114594/5-A
Matrix: Solid
Analysis Batch: 114648

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 114594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 11:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/21/25 12:25	07/22/25 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/21/25 12:25	07/22/25 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*07/21/25 12:25*	*07/22/25 11:14*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/21/25 12:25*	*07/22/25 11:14*	*1*

Lab Sample ID: LCS 880-114594/1-A
Matrix: Solid
Analysis Batch: 114648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 114594

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08753		mg/Kg		88	70 - 130		
Toluene			0.100	0.08970		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.08655		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			0.200	0.1841		mg/Kg		92	70 - 130		
o-Xylene			0.100	0.1010		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-114594/2-A
Matrix: Solid
Analysis Batch: 114648

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 114594

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09168		mg/Kg		92	70 - 130	5	35
Toluene			0.100	0.09046		mg/Kg		90	70 - 130	1	35
Ethylbenzene			0.100	0.09604		mg/Kg		96	70 - 130	10	35
m-Xylene & p-Xylene			0.200	0.2063		mg/Kg		103	70 - 130	11	35
o-Xylene			0.100	0.08908		mg/Kg		89	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8480-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-114633/1-A
Matrix: Solid
Analysis Batch: 114680

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 114633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:10	07/22/25 03:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:10	07/22/25 03:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:10	07/22/25 03:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*07/22/25 08:10*	*07/22/25 03:17*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*07/22/25 08:10*	*07/22/25 03:17*	*1*

Lab Sample ID: LCS 880-114633/2-A
Matrix: Solid
Analysis Batch: 114680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 114633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	991.6		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1194		mg/Kg		119	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*131*	*S1+*	*70 - 130*
o-Terphenyl	*135*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-114633/3-A
Matrix: Solid
Analysis Batch: 114680

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 114633

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1017		mg/Kg		102	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1205		mg/Kg		121	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*136*	*S1+*	*70 - 130*
o-Terphenyl	*140*	*S1+*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-114731/1-A
Matrix: Solid
Analysis Batch: 114748

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			07/22/25 21:22	1

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8480-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-114731/2-A
Matrix: Solid
Analysis Batch: 114748

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.3		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-114731/3-A
Matrix: Solid
Analysis Batch: 114748

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	247.7		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8480-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 114594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8480-1	HA-11	Total/NA	Solid	5035	
890-8480-2	HA-11	Total/NA	Solid	5035	
890-8480-3	HA-11	Total/NA	Solid	5035	
MB 880-114594/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-114594/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-114594/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 114648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8480-1	HA-11	Total/NA	Solid	8021B	114594
890-8480-2	HA-11	Total/NA	Solid	8021B	114594
890-8480-3	HA-11	Total/NA	Solid	8021B	114594
MB 880-114594/5-A	Method Blank	Total/NA	Solid	8021B	114594
LCS 880-114594/1-A	Lab Control Sample	Total/NA	Solid	8021B	114594
LCSD 880-114594/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	114594

Analysis Batch: 114832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8480-1	HA-11	Total/NA	Solid	Total BTEX	
890-8480-2	HA-11	Total/NA	Solid	Total BTEX	
890-8480-3	HA-11	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 114633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8480-1	HA-11	Total/NA	Solid	8015NM Prep	
890-8480-2	HA-11	Total/NA	Solid	8015NM Prep	
890-8480-3	HA-11	Total/NA	Solid	8015NM Prep	
MB 880-114633/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-114633/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-114633/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 114680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8480-1	HA-11	Total/NA	Solid	8015B NM	114633
890-8480-2	HA-11	Total/NA	Solid	8015B NM	114633
890-8480-3	HA-11	Total/NA	Solid	8015B NM	114633
MB 880-114633/1-A	Method Blank	Total/NA	Solid	8015B NM	114633
LCS 880-114633/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	114633
LCSD 880-114633/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	114633

Analysis Batch: 114823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8480-1	HA-11	Total/NA	Solid	8015 NM	
890-8480-2	HA-11	Total/NA	Solid	8015 NM	
890-8480-3	HA-11	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8480-1
SDG: Eddy County, NM

HPLC/IC

Leach Batch: 114731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8480-1	HA-11	Soluble	Solid	DI Leach	
890-8480-2	HA-11	Soluble	Solid	DI Leach	
890-8480-3	HA-11	Soluble	Solid	DI Leach	
MB 880-114731/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-114731/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-114731/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 114748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8480-1	HA-11	Soluble	Solid	300.0	114731
890-8480-2	HA-11	Soluble	Solid	300.0	114731
890-8480-3	HA-11	Soluble	Solid	300.0	114731
MB 880-114731/1-A	Method Blank	Soluble	Solid	300.0	114731
LCS 880-114731/2-A	Lab Control Sample	Soluble	Solid	300.0	114731
LCSD 880-114731/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	114731

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8480-1
SDG: Eddy County, NM

Client Sample ID: HA-11
Date Collected: 07/18/25 14:15
Date Received: 07/21/25 09:59

Lab Sample ID: 890-8480-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	114594	07/21/25 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114648	07/22/25 16:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114832	07/22/25 16:42	SA	EET MID
Total/NA	Analysis	8015 NM		1			114823	07/22/25 18:52	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	114633	07/22/25 08:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114680	07/22/25 18:52	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	114731	07/22/25 12:01	SI	EET MID
Soluble	Analysis	300.0		10			114748	07/22/25 22:30	CS	EET MID

Client Sample ID: HA-11
Date Collected: 07/18/25 14:20
Date Received: 07/21/25 09:59

Lab Sample ID: 890-8480-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	114594	07/21/25 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114648	07/22/25 17:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114832	07/22/25 17:03	SA	EET MID
Total/NA	Analysis	8015 NM		1			114823	07/22/25 19:08	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	114633	07/22/25 08:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114680	07/22/25 19:08	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	114731	07/22/25 12:01	SI	EET MID
Soluble	Analysis	300.0		1			114748	07/22/25 22:36	CS	EET MID

Client Sample ID: HA-11
Date Collected: 07/18/25 14:25
Date Received: 07/21/25 09:59

Lab Sample ID: 890-8480-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	114594	07/21/25 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114648	07/22/25 17:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114832	07/22/25 17:23	SA	EET MID
Total/NA	Analysis	8015 NM		1			114823	07/22/25 19:23	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	114633	07/22/25 08:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114680	07/22/25 19:23	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	114731	07/22/25 12:01	SI	EET MID
Soluble	Analysis	300.0		1			114748	07/22/25 22:42	CS	EET MID

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Job ID: 890-8480-1
Project/Site: Nailed It B CTB
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8480-1
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
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

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8480-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8480-1	HA-11	Solid	07/18/25 14:15	07/21/25 09:59	0.5
890-8480-2	HA-11	Solid	07/18/25 14:20	07/21/25 09:59	1
890-8480-3	HA-11	Solid	07/18/25 14:25	07/21/25 09:59	2

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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

V

890-8480 Chain of Custody

www.xenco.com Page ___ of ___

Project Manager:	Gilbert Moreno	Bill to: (if different)	
Company Name:	Earth Systems R&R	Company Name:	Earth Systems
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmoreno@earthsys.net

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Nailed It B CTB	**Turn Around**	
Project Number:	6798	☑ Routine ☐ Rush	
Project Location:	Eddy County, NM	Due Date:	Routine TAT
Sampler's Name:	Santiago Giron	TAT starts the day received by the lab, if received by 4:30pm	
CC/WO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR#007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	-4.8
Total Containers:		Corrected Temperature:	-4.6

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/ Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	Sample Comments
HA-11	S	7.18.25	14:15	0.5	Grab/	1	X	X	X			Incident Number
HA-11	S	7.18.25	14:20	1	Grab/	1	X	X	X			nAPP2519532647
HA-11	S	7.18.25	14:25	2	Grab/	1	X	X	X			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed

Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0		4:29 7/2	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8480-1
SDG Number: Eddy County, NM

Login Number: 8480
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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	

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8480-1
SDG Number: Eddy County, NM

Login Number: 8480
List Number: 2
Creator: Rios, Minerva

List Source: Eurofins Midland
List Creation: 07/22/25 08:28 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Generated 7/25/2025 10:29:52 AM

JOB DESCRIPTION

Nailed It B CTB
Eddy County,NM

JOB NUMBER

890-8481-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

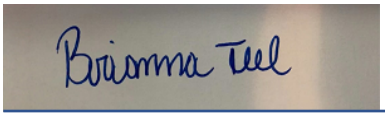
Eurofins Carlsbad

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
7/25/2025 10:29:52 AM

Authorized for release by
Brianna Teel, Project Manager
Brianna.Teel@et.eurofinsus.com
(432)704-5440

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Laboratory Job ID: 890-8481-1
SDG: Eddy County,NM

Table of Contents

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8481-1
SDG: Eddy County,NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration Job ID: 890-8481-1
Project: Nailed It B CTB

Job ID: 890-8481-1 Eurofins Carlsbad

Job Narrative
890-8481-1

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 7/21/2025 9:59 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -4.6°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 12 (890-8481-1) and HA - 12 (890-8481-2).

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

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

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

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8481-1
SDG: Eddy County,NM

Client Sample ID: HA - 12

Date Collected: 07/18/25 14:30
Date Received: 07/21/25 09:59
Sample Depth: 0.5

Lab Sample ID: 890-8481-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:25	07/22/25 17:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:25	07/22/25 17:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:25	07/22/25 17:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/21/25 12:25	07/22/25 17:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:25	07/22/25 17:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/21/25 12:25	07/22/25 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*07/21/25 12:25*	*07/22/25 17:44*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/21/25 12:25*	*07/22/25 17:44*	*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		mg/Kg			07/22/25 17:44	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			07/25/25 01:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:41	07/25/25 01:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:41	07/25/25 01:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:41	07/25/25 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*07/22/25 08:41*	*07/25/25 01:02*	*1*
o-Terphenyl	*124*		*70 - 130*	*07/22/25 08:41*	*07/25/25 01:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.3**		10.1		mg/Kg			07/22/25 22:47	1

Client Sample ID: HA - 12

Date Collected: 07/18/25 14:35
Date Received: 07/21/25 09:59
Sample Depth: 2

Lab Sample ID: 890-8481-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:25	07/22/25 18:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:25	07/22/25 18:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:25	07/22/25 18:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/21/25 12:25	07/22/25 18:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/21/25 12:25	07/22/25 18:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/21/25 12:25	07/22/25 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/21/25 12:25*	*07/22/25 18:04*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8481-1
SDG: Eddy County,NM

Client Sample ID: HA - 12

Date Collected: 07/18/25 14:35
Date Received: 07/21/25 09:59
Sample Depth: 2

Lab Sample ID: 890-8481-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*07/21/25 12:25*	*07/22/25 18:04*	*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		mg/Kg			07/22/25 18:04	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			07/25/25 01:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:41	07/25/25 01:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:41	07/25/25 01:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:41	07/25/25 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*07/22/25 08:41*	*07/25/25 01:17*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/22/25 08:41*	*07/25/25 01:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.5**		10.1		mg/Kg			07/22/25 22:53	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8481-1
SDG: Eddy County,NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8481-1	HA - 12	103	90
890-8481-2	HA - 12	101	74
LCS 880-114594/1-A	Lab Control Sample	109	99
LCSD 880-114594/2-A	Lab Control Sample Dup	107	99
MB 880-114594/5-A	Method Blank	87	93

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)
890-8481-1	HA - 12	125	124
890-8481-2	HA - 12	111	111
LCS 880-114638/2-A	Lab Control Sample	105	113
LCSD 880-114638/3-A	Lab Control Sample Dup	105	112
MB 880-114638/1-A	Method Blank	101	99

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8481-1
SDG: Eddy County,NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-114594/5-A
Matrix: Solid
Analysis Batch: 114648

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 114594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 11:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/21/25 12:25	07/22/25 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/25 12:25	07/22/25 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/21/25 12:25	07/22/25 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*07/21/25 12:25*	*07/22/25 11:14*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/21/25 12:25*	*07/22/25 11:14*	*1*

Lab Sample ID: LCS 880-114594/1-A
Matrix: Solid
Analysis Batch: 114648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 114594

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08753		mg/Kg		88	70 - 130		
Toluene			0.100	0.08970		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.08655		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			0.200	0.1841		mg/Kg		92	70 - 130		
o-Xylene			0.100	0.1010		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-114594/2-A
Matrix: Solid
Analysis Batch: 114648

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 114594

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09168		mg/Kg		92	70 - 130	5	35
Toluene			0.100	0.09046		mg/Kg		90	70 - 130	1	35
Ethylbenzene			0.100	0.09604		mg/Kg		96	70 - 130	10	35
m-Xylene & p-Xylene			0.200	0.2063		mg/Kg		103	70 - 130	11	35
o-Xylene			0.100	0.08908		mg/Kg		89	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8481-1
SDG: Eddy County,NM

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

Lab Sample ID: MB 880-114638/1-A
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 114638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/22/25 08:11	07/24/25 21:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/22/25 08:11	07/24/25 21:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/22/25 08:11	07/24/25 21:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/22/25 08:11*	*07/24/25 21:50*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/22/25 08:11*	*07/24/25 21:50*	*1*

Lab Sample ID: LCS 880-114638/2-A
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 114638

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1022		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1058		mg/Kg		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: LCSD 880-114638/3-A
Matrix: Solid
Analysis Batch: 114940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 114638

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1011		mg/Kg		101	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1049		mg/Kg		105	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-114731/1-A
Matrix: Solid
Analysis Batch: 114748

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			07/22/25 21:22	1

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8481-1
SDG: Eddy County,NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-114731/2-A
Matrix: Solid
Analysis Batch: 114748

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	248.3		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-114731/3-A
Matrix: Solid
Analysis Batch: 114748

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	247.7		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8481-1
SDG: Eddy County,NM

GC VOA

Prep Batch: 114594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8481-1	HA - 12	Total/NA	Solid	5035	
890-8481-2	HA - 12	Total/NA	Solid	5035	
MB 880-114594/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-114594/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-114594/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 114648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8481-1	HA - 12	Total/NA	Solid	8021B	114594
890-8481-2	HA - 12	Total/NA	Solid	8021B	114594
MB 880-114594/5-A	Method Blank	Total/NA	Solid	8021B	114594
LCS 880-114594/1-A	Lab Control Sample	Total/NA	Solid	8021B	114594
LCSD 880-114594/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	114594

Analysis Batch: 114833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8481-1	HA - 12	Total/NA	Solid	Total BTEX	
890-8481-2	HA - 12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 114638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8481-1	HA - 12	Total/NA	Solid	8015NM Prep	
890-8481-2	HA - 12	Total/NA	Solid	8015NM Prep	
MB 880-114638/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-114638/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-114638/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 114940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8481-1	HA - 12	Total/NA	Solid	8015B NM	114638
890-8481-2	HA - 12	Total/NA	Solid	8015B NM	114638
MB 880-114638/1-A	Method Blank	Total/NA	Solid	8015B NM	114638
LCS 880-114638/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	114638
LCSD 880-114638/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	114638

Analysis Batch: 115024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8481-1	HA - 12	Total/NA	Solid	8015 NM	
890-8481-2	HA - 12	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 114731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8481-1	HA - 12	Soluble	Solid	DI Leach	
890-8481-2	HA - 12	Soluble	Solid	DI Leach	
MB 880-114731/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-114731/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-114731/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8481-1
SDG: Eddy County,NM

HPLC/IC

Analysis Batch: 114748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8481-1	HA - 12	Soluble	Solid	300.0	114731
890-8481-2	HA - 12	Soluble	Solid	300.0	114731
MB 880-114731/1-A	Method Blank	Soluble	Solid	300.0	114731
LCS 880-114731/2-A	Lab Control Sample	Soluble	Solid	300.0	114731
LCSD 880-114731/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	114731

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8481-1
SDG: Eddy County,NM

Client Sample ID: HA - 12
Date Collected: 07/18/25 14:30
Date Received: 07/21/25 09:59

Lab Sample ID: 890-8481-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	114594	07/21/25 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114648	07/22/25 17:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114833	07/22/25 17:44	SA	EET MID
Total/NA	Analysis	8015 NM		1			115024	07/25/25 01:02	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	114638	07/22/25 08:41	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/25/25 01:02	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	114731	07/22/25 12:01	SI	EET MID
Soluble	Analysis	300.0		1			114748	07/22/25 22:47	CS	EET MID

Client Sample ID: HA - 12
Date Collected: 07/18/25 14:35
Date Received: 07/21/25 09:59

Lab Sample ID: 890-8481-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	114594	07/21/25 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114648	07/22/25 18:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114833	07/22/25 18:04	SA	EET MID
Total/NA	Analysis	8015 NM		1			115024	07/25/25 01:17	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	114638	07/22/25 08:41	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114940	07/25/25 01:17	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	114731	07/22/25 12:01	SI	EET MID
Soluble	Analysis	300.0		1			114748	07/22/25 22:53	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Job ID: 890-8481-1
Project/Site: Nailed It B CTB
SDG: Eddy County,NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8481-1
SDG: Eddy County,NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
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

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: Nailed It B CTB

Job ID: 890-8481-1
SDG: Eddy County,NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8481-1	HA - 12	Solid	07/18/25 14:30	07/21/25 09:59	0.5
890-8481-2	HA - 12	Solid	07/18/25 14:35	07/21/25 09:59	2

eurofins | Environment Testing Xenco

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

Work Order No: _____

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Project Manager:	Gilbert Moreno	Bill to: (if different)	
Company Name:	Earth Systems R&R	Company Name:	Earth Systems
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmoreno@earthsys.net

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Nailed It B CTB	Turn Around	☑ Routine ☐ Rush
Project Number:	6798	Due Date:	Routine TAT
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Santiago Giron		
CC/WO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	IR#007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	-4.8	
Total Containers:		Corrected Temperature:	-4.6	

ANALYSIS REQUEST

Pres. Code / Parameters: TPH -NM; Chloride-NM; BTEX-NM; Hold; 24 Hr Rush

890-8481 Chain of Custody

Preservative Codes

None: NO; DI Water: H_2O
Cool: Cool; MeOH: Me
HCL: HC; HNO_3: HN
H_2S0_4: H_2; NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/ Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	Sample Comments
HA-12	S	7.18.25	14:30	0.5	Grab/	1	X	X	X			Incident Number
HA-12	S	7.18.25	14:35	2	Grab/	1	X	X	X			nAPP2519532647

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed
Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0		9:59 7/21	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8481-1
SDG Number: Eddy County,NM

Login Number: 8481
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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	

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8481-1
SDG Number: Eddy County,NM

Login Number: 8481
List Number: 2
Creator: Rios, Minerva

List Source: Eurofins Midland
List Creation: 07/22/25 08:29 AM

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").	False	

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

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 534562
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
scwells	Your request for an alternative sampling plan is approved with the following conditions: Bottom confirmation samples may be collected at a frequency of no more than 400 ft2, while all sidewall samples will be required to be collected no more than every 200 ft2.	12/12/2025