



4518 W. Pierce St.

Carlsbad NM, 88220

October 22, 2024

Targa Midstream, LLC
25 Middle Plant Lane
Eunice, NM 88231

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

RE: **Release Investigation, and Closure Report**
Targa Midstream Services, LLC
Leak #149
NMOCD Incident No. nAPP2335429970
Unit M, Section 4, Township 22 South, Range 37 East
32.416435°, -103.175163°
Lea County, New Mexico
Terracon Project No. KH247005

To Whom It May Concern:

Terracon Consultants, Inc. (Terracon) is submitting our Release Investigation and Closure Report on behalf of Targa Midstream Services, LLC (Targa) for the above-referenced site. Prepared in line with New Mexico Oil Conservation Division (NMOCD) regulations, this report addresses the environmental actions taken in response to the release of natural gas due to corrosion. Detailed assessment and remedial actions by Terracon are outlined in the following sections.

Action Items

Completed Actions

- 1) Conducted an initial site assessment and a series of sampling events.
- 2) Maps and associated data for approval are provided.
- 3) Soil samples collected from the excavation were submitted to an approved laboratory for analysis to determine levels of impact vertically and horizontally.
- 4) Excavation of the inferred release area was completed with the intent to remove impacted soil as determined by the Closure Criteria set by NMOCD.
- 5) Soil stockpiles on site were placed on plastic and bermed around the edges to reduce loss.
- 6) Five-point composite confirmation samples were collected every 200 square feet.
- 7) Remedial activities were terminated when a confirmation sample was collected below the NMOCD RALs for Oil and Gas impacted soils.
- 8) Confirmation samples collected from backfill material to confirm soils were below

Explore with us



the NMOCD RALs for Oil and Gas.

- 9) A summary of the information provided in this report is included in Appendix A, as C-141 summary sheet.
-

Anticipated Actions

- 1) Approval by the NMOCD.
- 2) Following the acceptance of this closure report all areas of the excavation will be backfilled and brought to the surrounding grade and reseeded.
-

Site Information

The Notice of the Release was provided to the NMOCD District 2 Artesia Office by Amber Groves on December 20, 2023, with the submission of the initial C-141. NMOCD Reference ID: nAPP2335429970. The site is located within Unit M, Section 4, Township 22 South, Range 37 East, approximately 1.61 miles southwest of Eunice, New Mexico. A Topographic Map and Site Location Map are included in Appendix A, as Exhibit 1, and Exhibit 2, respectively.

Site Ranking Criteria

A review of data from the New Mexico Oil Conservation Division (NMOCD) website identified a Release Delineation Report, OCD project No.(s) 1R-483 and 1R-484 submitted on August 26, 2009, wherein a total 6 monitor wells were completed, Battery No's 2 and 3 (MW-1, MW-2 and MW-3) and Battery No's 1, 4, and 5 (MW-1, MW-2 and MW-3) to depths ranging from approximately 86 feet to 91 feet below ground surface (bgs) in 2007 and 2009. Monitor well MW-2 installed on October 16, 2007, adjacent to Battery No's 2 and 3 located approximately 0.28 miles south of the site is the closest monitor well to the site and was completed to a depth of 86.07 feet bgs with depth to water of 79.48 feet bgs as indicated in the Well Location Map (Appendix A, Exhibit 3). The well boring log for MW-2 installed at Battery No. 2 and 3 location is included in Appendix C.

A review of the U.S. Fish and Wildlife Service, National Wetlands Inventory website indicates that there are no wetlands within a 1.0-mile radius of the site as indicated in the Designated Wetland Area Map (Appendix A, Exhibit 4). A review of geospatial data obtained from the BLM Carlsbad Field Office website indicated that the site is within an area of low risk for Karst formations, as indicated in the Cave Karst Public UCP Map (Appendix A, Exhibit 5).

Remediation Criteria

Per New Mexico Administrative Code (NMAC) 19.15.29.12, the closure criteria for the site are based on the remedial requirements for an off-pad release consisting of the removal of the affected soil from the surface to 4 feet below grade surface (bgs). The closure criteria are for Benzene (10 mg/kg) (EPA Method 8021B), Total Benzene, Toluene, Ethylbenzene and Xylenes (Total BTEX) (50 mg/kg) (EPA Method 8021B), Chlorides (600 mg/kg) EPA Method 300), and Total Petroleum Hydrocarbons (TPH) GRO, DRO and MRO (100 mg/kg) (EPA Method 8015M).

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For Remediation at depths greater than 4 feet bgs. The closure criteria are for Total Benzene, Toluene, Ethylbenzene and Xylenes (Total BTEX) (50 mg/kg) (EPA Method 8021B), Benzene (10 mg/kg) (EPA Method 8021B), Chlorides (10,000 mg/kg) (EPA Method 300), and Total Petroleum Hydrocarbons (TPH) GRO, DRO and MRO (2,500 mg/kg) (EPA Method 8015M).

Remedial Activities

Remedial activities conducted at the site from February 21, 2024, through July 22, 2024. An area of approximately 20,600 square feet was affected by the release. A total of approximately 6,500 cubic yards (cu. yds.) of affected soil has been excavated at the site. Excavation depth ranged from 4 feet bgs to 20 feet bgs. An Excavation Map depicting the excavation extent is included in Appendix A, Exhibit 6.

Confirmation/Closure Activities

Confirmation samples were collected from February 21, 2024, through August 8, 2024. The areas where floor and sidewall samples exceeded closure criteria required additional excavation and were excavated vertically to depths ranging from 3.0 feet to 20 feet bgs and laterally to attain closure criteria. A total of 125 confirmation floor samples were collected from 103 sample locations and a total of 49 confirmation wall samples were collected from 17 sample locations. The confirmation samples were submitted for analysis of BTEX, Chlorides, and TPH. Benzene was not detected above the laboratory detection limit in any of the samples collected. Chloride results in the floor samples ranged from non-detect to 1,440 milligrams per kilogram (mg/kg) in FS-27 (6 ft.) and Chloride results in the confirmation wall samples ranged from non-detect to 6,660 mg/kg in S-SW-05 (16-20 ft). TPH results in the floor samples ranged from non-detect to 4,000 mg/kg in FS-19 (4 ft.) and TPH results in the confirmation wall samples ranged from non-detect to 6,630 mg/kg in E-SW-04 (8-16 ft). Final confirmation sample results for BTEX, chlorides and TPH were below applicable NMOCD closure criteria.

Confirmation samples were collected on February 21, 2024, from depths spanning 0 to 4 feet bgs. A total of 4 floor samples FS01 through FS04 (3 ft.) were collected from 4 locations and a total of 3 wall samples E-SW-01 (0-2 ft.), S-SW-01 (0-4 ft.), and S-SW-02 (0-3 ft.) were collected from 3 locations. The floor sample results for FS01, FS02 and FS04 were below the NMOCD closure criteria for Chlorides and TPH and were left in-situ. The floor sample FS-03 (3 ft.) exhibited a TPH concentration of 1,127 mg/kg exceeding the NMOCD closure criteria for excavations below 4 feet bgs requiring further excavation. The wall samples collected were below NMOCD closure criteria for Chlorides and wall sample results for S-SW-01 and S-SW02 were below the NMOCD closure criteria for TPH and were left in-situ. One wall sample E-SW-01 (2 ft.) exceeded NMOCD closure criteria for TPH. The areas where floor and sidewall samples exceeded closure criteria required additional excavation and were excavated vertically and laterally to attain closure criteria.



Additional confirmation samples were collected on February 26, 2024, from depths ranging from 0 to 4 feet bgs. A total of 16 floor samples were collected from 15 new sample locations, with FS-03 being resampled and a total of 3 wall samples were collected from 3 new locations. Floor samples include FS03 (4 ft.) and FS05 through FS19 (2-3 ft.). Wall samples include N-SW-01 (0-3 ft.), N-SW-02 (0-3 ft.), and W-SW-01 (0-3 ft.). Twelve floor samples were submitted for analysis exhibited concentration below the NMOCD closure criteria for TPH and were left in-situ. FS07 (2 ft.), FS10 (2 ft.), FS14 (3 ft.), and FS19 (3 ft.) exhibited levels of TPH 107.9 mg/kg, 188 mg/kg, 340 mg/kg, 178.8 mg/k, respectively above NMOCD closure criteria for excavations above 4 feet bgs requiring further excavation. The wall samples collected were below NMOCD closure criteria and were left in-situ. The areas where floor and sidewall samples exceeded closure criteria required additional excavation and were excavated vertically and latterly to attain closure criteria.

Additional confirmation samples were collected on June 3, 2024, from depths ranging from 0 to 6 feet bgs. A total of 36 floor samples were collected from 36 new sample locations and a total of 14 wall samples were collected from 7 new locations. Floor samples include FS27 through FS 62 (5-6 ft.). Wall samples include E-SW-02 (0-4 and 4-6 ft.), E-SW-03 (0-4 and 4-6 ft.), N-SW-03 (0-4 and 4-6 ft.), S-SW-03 (0-4 and 4-5 ft.), S-SW-04 (0-4 and 4-6 ft.), W-SW-02 (0-4 and 4-5 ft.), and W-SW-03 (0-4 and 4-6 ft.). Thirty-five floor samples collected were below the NMOCD closure criteria and were left in-situ. Sample FS32 (5 ft.) exhibited levels of TPH (2,980 mg/kg) above NMOCD closure criteria for excavations below 4 feet bgs requiring further excavation. The wall samples collected were below NMOCD closure criteria and were left in-situ. The areas where floor and sidewall samples exceeded closure criteria required additional excavation and were excavated vertically and latterly to attain closure criteria.

Additional confirmation samples were collected on June 28, 2024, from depths ranging from 0 to 20 feet bgs. A total of 50 floor samples were collected from 48 new sample locations and a total of 20 wall samples were collected from 6 locations, 4 of which were new. Floor samples include FS19 through FS26, FS32, and FS63 through FS103 (4-20 ft.). Wall samples include E-SW-04 (0-4, 4-8, and 8-16 ft.), N-SW-01 (4-8, 8-16, and 16-20 ft.), N-SW-04 (0-4, 4-8, 8-16, and 16-20 ft.), S-SW-05 (0-4, 4-8, 8-16, and 16-20 ft.), S-SW-06 (0-4, 4-8, 8-16, and 16-20 ft.), and W-SW-01 (4-8 and 8-16 ft.). Thirty-three floor samples collected were below the NMOCD closure criteria and were left in-situ. Floor samples collected from FS19 (4 ft.) through FS26 (4 ft.) exhibited TPH concentrations exceeding the NMOCD closure criteria ranging from 316 mg/kg in FS20 (4. ft) to 4,000 mg/kg in FS19 (4 ft.). Floor samples collected from FS63 (8 ft.), FS68 (12 ft.), FS70 (16 ft.), FS73 (16 ft.), FS76 (16 ft.), FS79 (20 ft.), FS82 (20 ft.), FS86 (16 ft.), and FS90 (8 ft.) exhibited TPH concentrations of (2,038 mg/kg, 2,167 mg/kg, 3,890 mg/kg, 4,180 mg/kg, 5,360 mg/kg, 6,150 mg/kg, 2,209 mg/kg, 6,600 mg/kg, and 2,028 mg/kg), respectively, above closure criteria for excavations below 4 feet bgs requiring further excavation. Eleven wall samples submitted for analysis exhibited concentration below the NMOCD closure criteria and were left in-situ. Wall samples E-SW-04 (0-4, 4-8, and 8-16 ft.), N-SW-01 (8-16 ft.), N-SW-04 (8-16 ft.), S-SW-06 (16-20 ft.), W-SW-01 (4-8 and 8-16 ft.), and S-SW-05 (0-4 ft.) exhibited TPH concentrations of (1,608

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mg/kg, 2,550 mg/kg, 6,630 mg/kg, 5,220 mg/kg, 2,720 mg/kg, 2,740 mg/kg, 3,460 mg/kg, and 3,910 mg/kg), respectively, for excavations above and below 4 feet bgs. Wall sample S-SW-05 (0-4 ft.) exhibited a chloride concentration of (875 mg/kg) exceeding the NMOCD closure criteria for excavations below 4 feet bgs, requiring further excavation. The areas where floor and sidewall samples exceeded closure criteria required additional excavation and were excavated vertically and laterally to attain closure criteria.

Final confirmation samples were collected on June 25, 2024, through October 17, 2024 from depths spanning from the surface to 20 feet bgs. A total of 19 floor samples FS-07 (8 ft.), FS10 (8 ft.), FS14 (8 ft.), FS19 (5 ft.), FS 20 (5 ft.), FS21 (5 ft.), FS22 (5 ft.), FS23 (5 ft.), FS24 (5 ft.), FS25 (5 ft.), FS26 (5), FS63 (9 ft.), FS68 (14 ft.), FS70 (17 ft.), FS73 (18 ft.), FS76 (17 ft.), FS79 (20 ft.), FS82 (20 ft.), FS86 (17 ft.), and FS90 (9 ft.) were collected from 20 locations, and a total of 9 wall samples E-SW-04 (0-4, 4-8, and 8-16 ft.), N-SW-01 (8-16 ft.), N-SW-04 (8-16 ft.), S-SW-06 (16-20 ft.), W-SW-01 (4-8 and 8-16 ft.), and S-SW-05 (0-4 ft.) were collected from 6 locations. Confirmation floor sample results for chlorides and TPH were below the NMOCD closure criteria and were left in-situ. Confirmation wall sample results for chlorides and TPH were below the NMOCD closure criteria and were left in-situ. The NMOCD closure criteria for BTEX, Chloride and TPH were attained, and remedial activities were concluded.

A total of approximately 6,200 cubic yards of loose soil was excavated during remedial activities of which 3,800 cubic yards were excavated in the reclamation zone (0.0 to 4.0 feet bgs) and 2,400 cubic yards were excavated in the remediation zone (> 4.0 feet bgs). The excavated material was stockpiled on-site atop a polyethylene liner pending disposal under an approved Form C-138. The excavated material was disposed of at J & L Land Farm Facility. Soil disposal waste manifests are available upon request. Confirmation Sample Maps depicting the floor sample locations for the north and south sections of the excavation are included in Appendix A, Exhibit 7 and 7A, respectively. Confirmation Sample Maps depicting the wall sample locations for the north and south sections of the excavation are included in Appendix A, Exhibit 8 and 8A, respectively. Floor and wall confirmation sample analytical results are included in Appendix B, Table 1, and Table 2, respectively. Photographs of the project site are included in Appendix D. The analytical reports and Chain of Custody (COC) are included in Appendix E. Terracon's Standard of Care, Limitation, and Reliance is included in Appendix F.

Reclamation Activities

Reclamation activities were conducted from September 13, 2024, and September 20, 2024. The excavated area subject to reclamation was backfilled with like material sourced from a local pit and the area will be returned to approximate grade in preparation for seeding the reclaimed area. Backfill material was sampled on 10-03-24, two composite samples of the material were submitted for laboratory analysis. The results for both samples for BTEX, TPH, and Chlorides were all below laboratory detection limits, confirming that the backfill material is suitable for reclamation of the land.

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Following the site preparation, per the landowner's request, the area was reseeded with a Bamert Seed Company LLC seed mix. The seed mix consisted of 31.15 percent Plains Bristlegrass, 14.94 percent Sand Dropseed, 14.73 percent Blue Grama, 15.42 percent Side oats Grama, and 14.59 percent Lovegrass. Reseeded area will be monitored, and revegetation report will be submitted once vegetative status is reached.

Conclusion

In accordance with NMAC 19.15.29.12, remediation of the impacted material is complete, and Targa Midstream LLC respectfully requests closure of the reportable incident that occurred on December 12, 2023, at the NMOCD Reference No nAPP2335429970 – Leak 149 location.

We are grateful for the opportunity to offer our environmental services to Targa Midstream Services LLC. We are committed to providing the highest level of service and support. Should you need further information or have any queries, we encourage you to reach out to our office at your earliest convenience.

Sincerely,



Prepared by:

A handwritten signature in black ink, appearing to read 'Travis Casey'.

Travis Casey
Senior Staff Scientist
Carlsbad, NM

Reviewed by:

John Grams, P.G. (TX)
Environmental Department Manager
Lubbock, TX

Closure Documentation
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Attachments:

Appendix A – Exhibits

Exhibit 1	–	Topographic Map
Exhibit 2	–	Site Location Map
Exhibit 3	–	Well Location Map
Exhibit 4	–	Designated Wetland Area Map
Exhibit 5	–	Cave Karst Public UCP Map
Exhibit 6	–	Excavation Map
Exhibit 7	–	Confirmation Floor Sample Map (North)
Exhibit 7A	–	Confirmation Floor Sample Map (South)
Exhibit 8	–	Confirmation Wall Sample Map (North)
Exhibit 8A	–	Confirmation Wall Sample Map (South)

C-141 Summary Sheet

Appendix B – Tables and Well Data

Table 1	–	Confirmation Floor Samples
Table 2	–	Confirmation Wall Samples
Table 3	–	Stockpile Samples

Appendix C – Environmental Report with Boring Logs

Appendix D – Photographic Log

Appendix E – Analytical Report and Chain of Custody

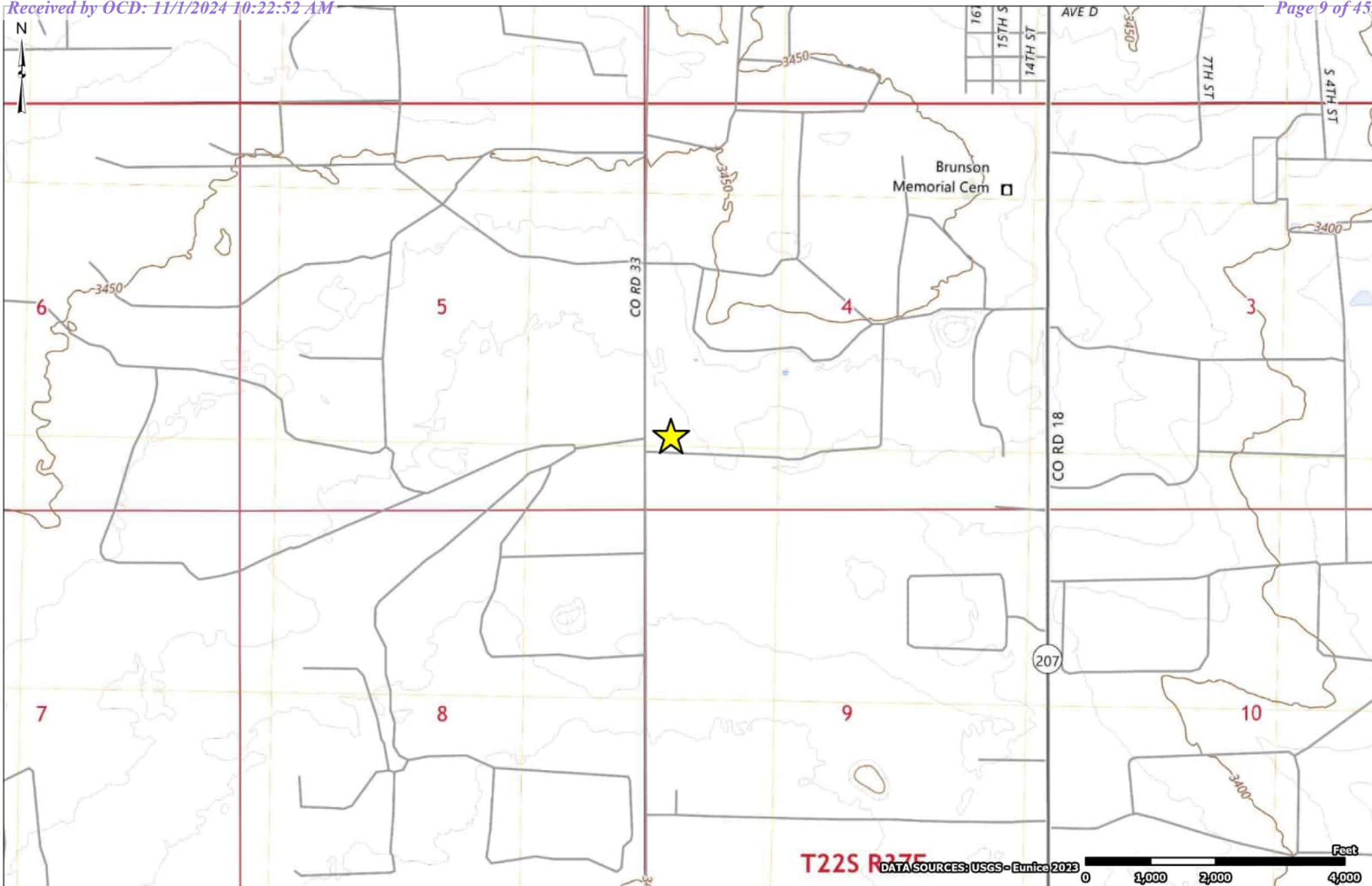
Appendix F – Terracon Standard of Care, Limitation, and Reliance

Appendix G – Initial C-141

Closure Documentation
Leak 149 | Lea County, New Mexico
September 13, 2024 | Terracon Project No. KH247005



APPENDIX A – EXHIBITS



★ Project Location

Project No.:
KH247005
Date:
Aug 08 2024
Drawn By:
JWL
Reviewed By:
TLC



4526 W Pierce St
Carlsbad, NM

PH. 806-300-0140

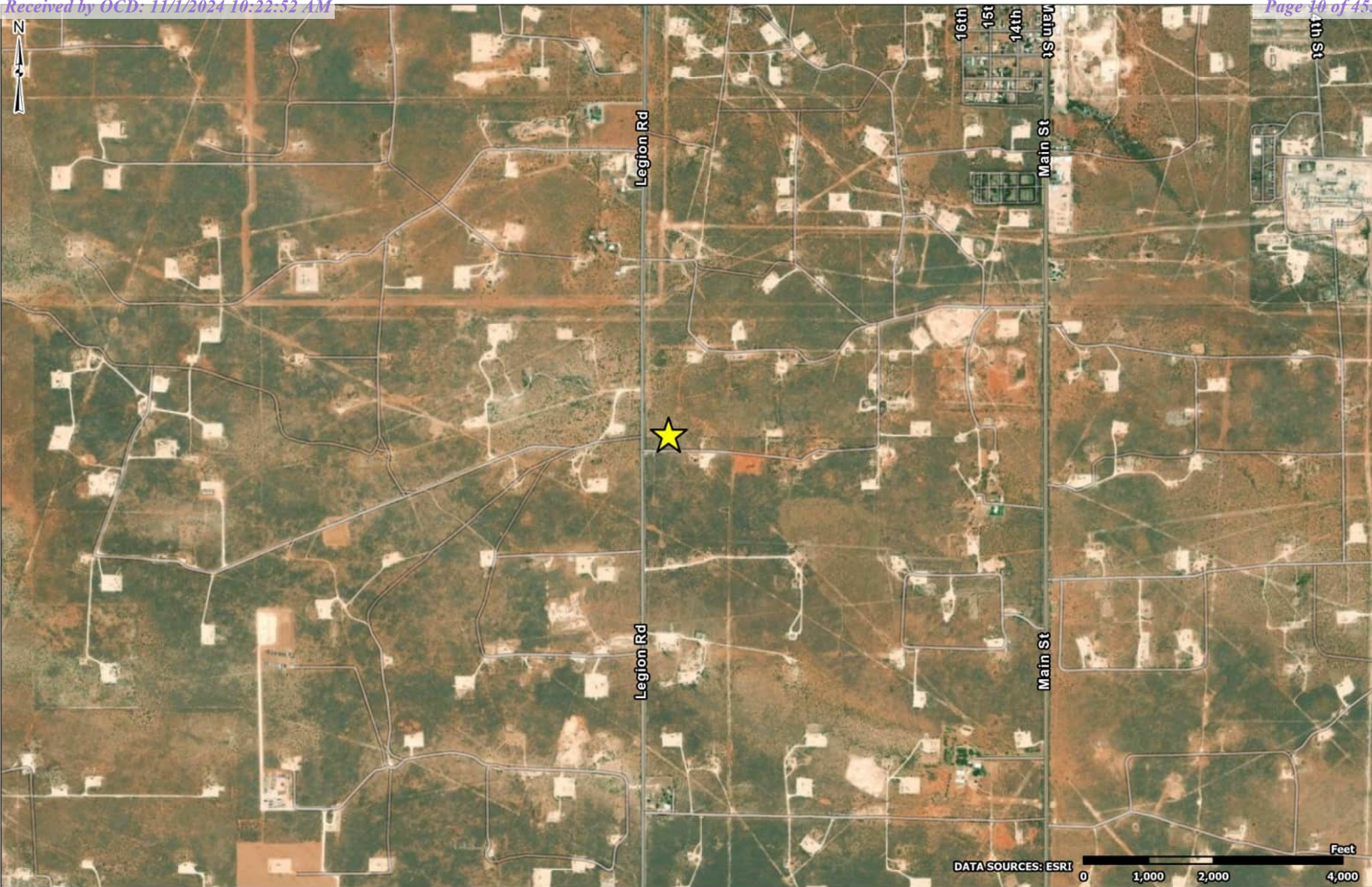
terracon.com

Topographic Map

Leak #149
Targa Resources LLC
32.416435, -103.175163
Lea County, New Mexico


Exhibit

1



★ Project Location

Project No.:
KH247005
Date:
Aug 08 2024
Drawn By:
JWL
Reviewed By:
TLC

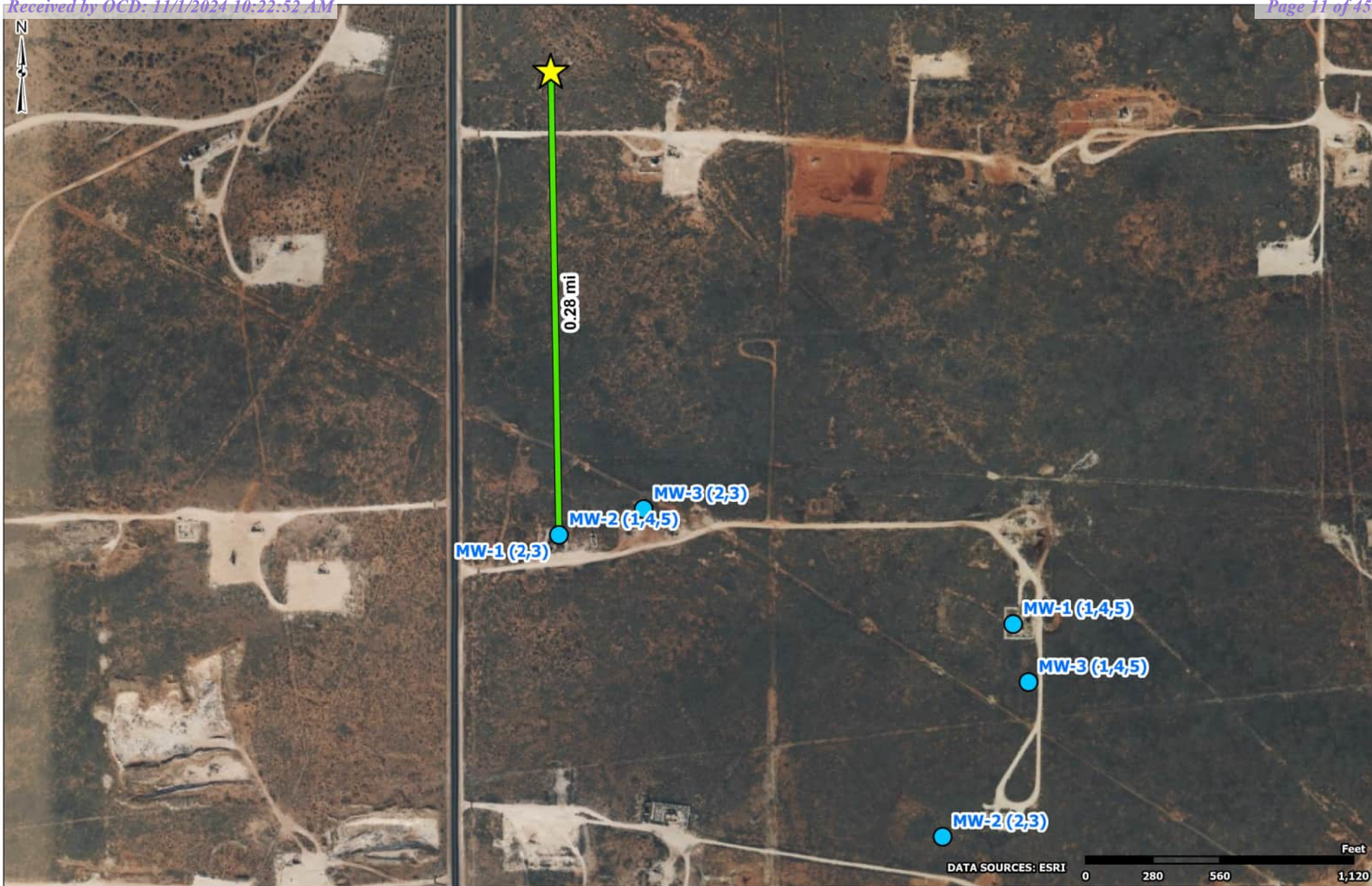


4526 W Pierce St
Carlsbad, NM

PH. 806-300-0140 terracon.com

Site Location Map
Leak #149 Targa Resources LLC 32.416435, -103.175163 Lea County, New Mexico

Exhibit
2



- ★ Project Location
- POD Location

Project No.:
KH247005
Date:
Aug 08 2024
Drawn By:
JWL
Reviewed By:
TLC

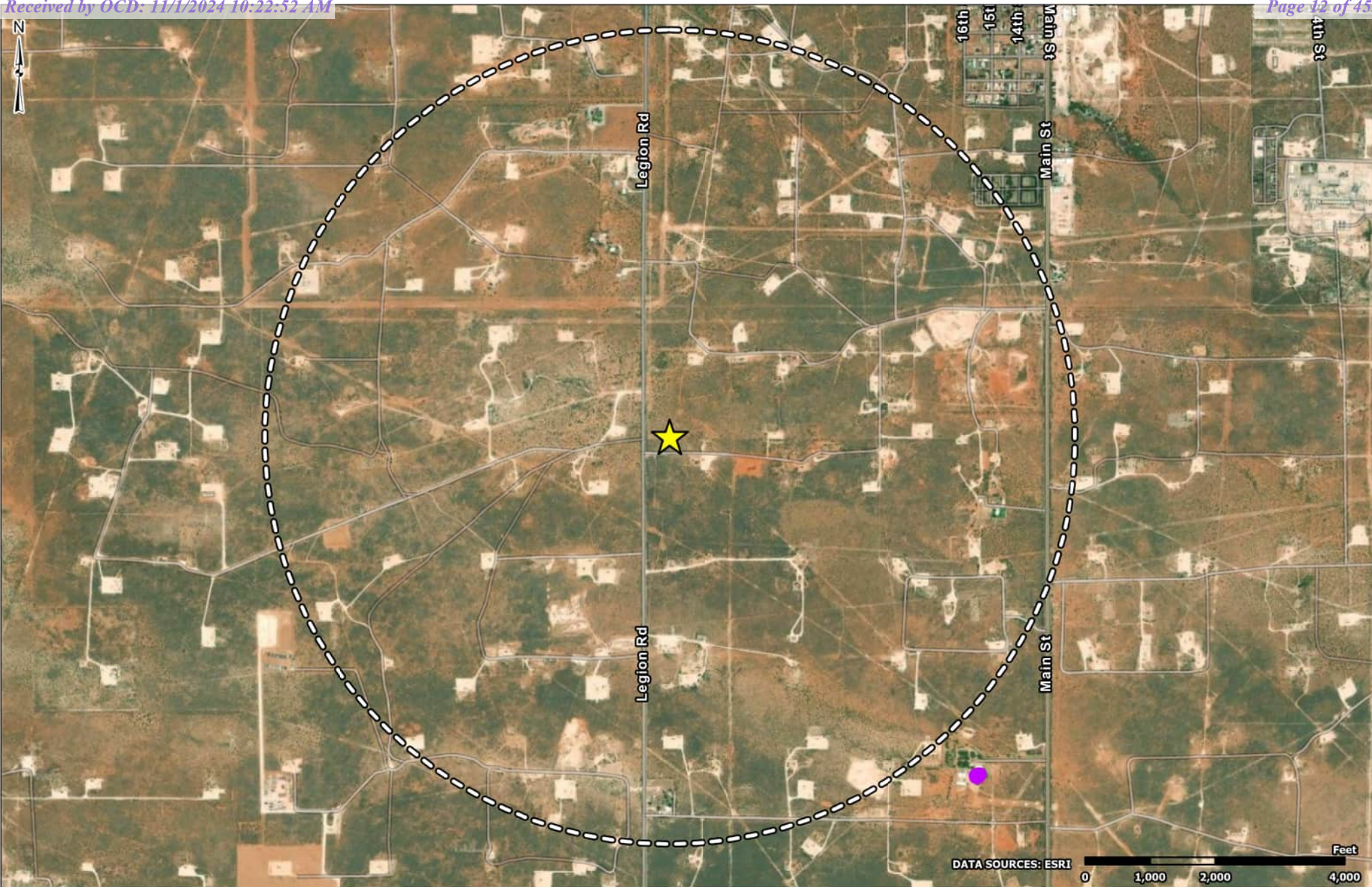
Terracon
4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com

NMOSE POD Location Map

Leak #149
Targa Resources LLC
32.416435, -103.175163
Lea County, New Mexico

Exhibit

3



- ★ Project Location
- ⊗ 1 Mile Radius
- Freshwater Pond

Project No.:
KH247005
Date:
Aug 08 2024
Drawn By:
JWL
Reviewed By:
TLC

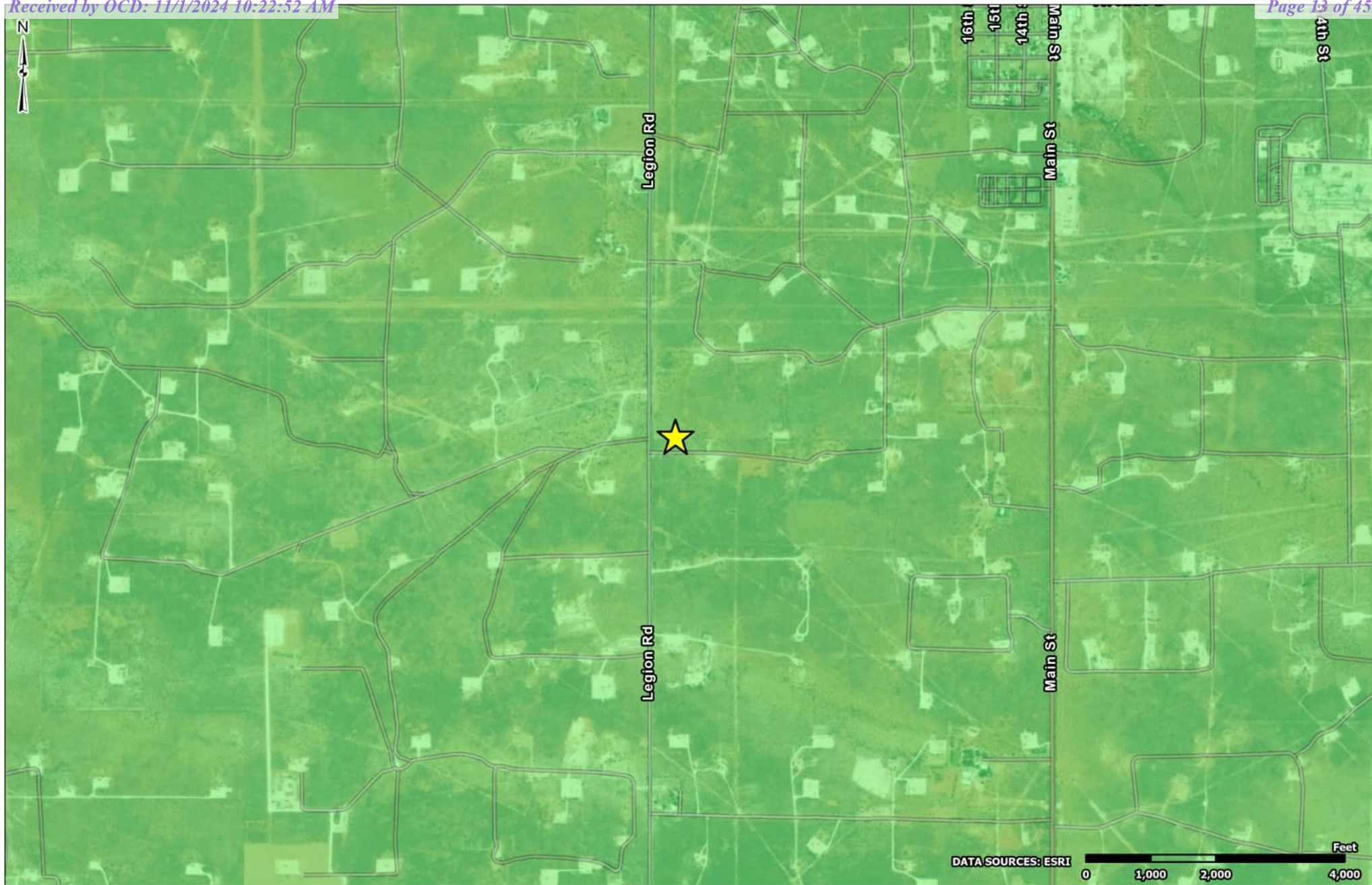
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Designated Wetland Area Map

Leak #149
Targa Resources LLC
32.416435, -103.175163
Lea County, New Mexico

Exhibit

4



DATA SOURCES: ESRI



★ Project Location

Karst Potential

Low

Medium

Project No.:
KH247005

Date:
Aug 08 2024

Drawn By:
JWL

Reviewed By:
TLC



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Carlsbad, NM

PH. 806-300-0140

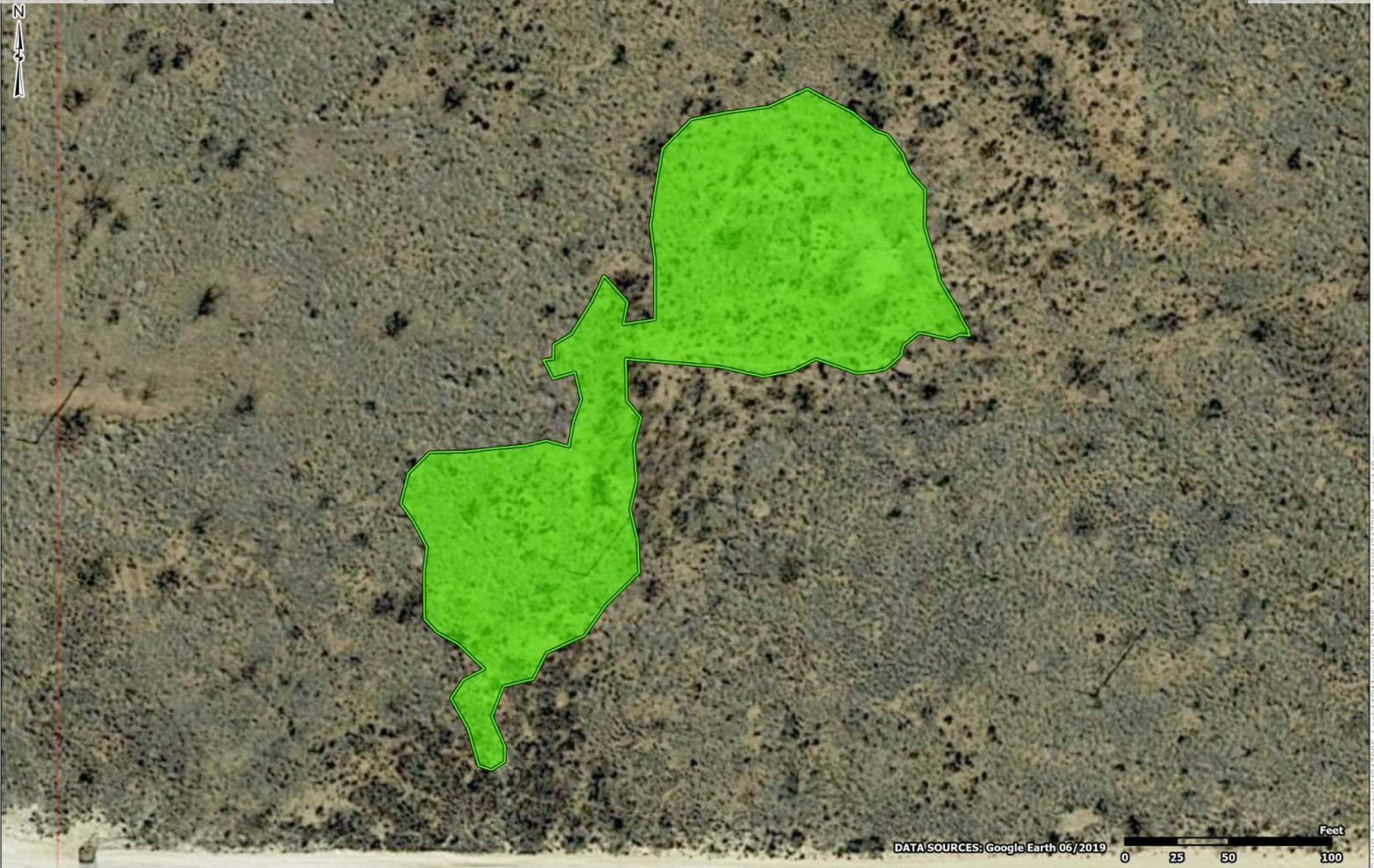
terracon.com


Cave Karst Public UCP Map

Leak #149
Targa Resources LLC
32.416435, -103.175163
Lea County, New Mexico


Exhibit

5



 Excavation
(20,600 Sq. Ft.)

Project No.:
KH247005
Date:
Aug 08 2024
Drawn By:
JWL
Reviewed By:
TLC

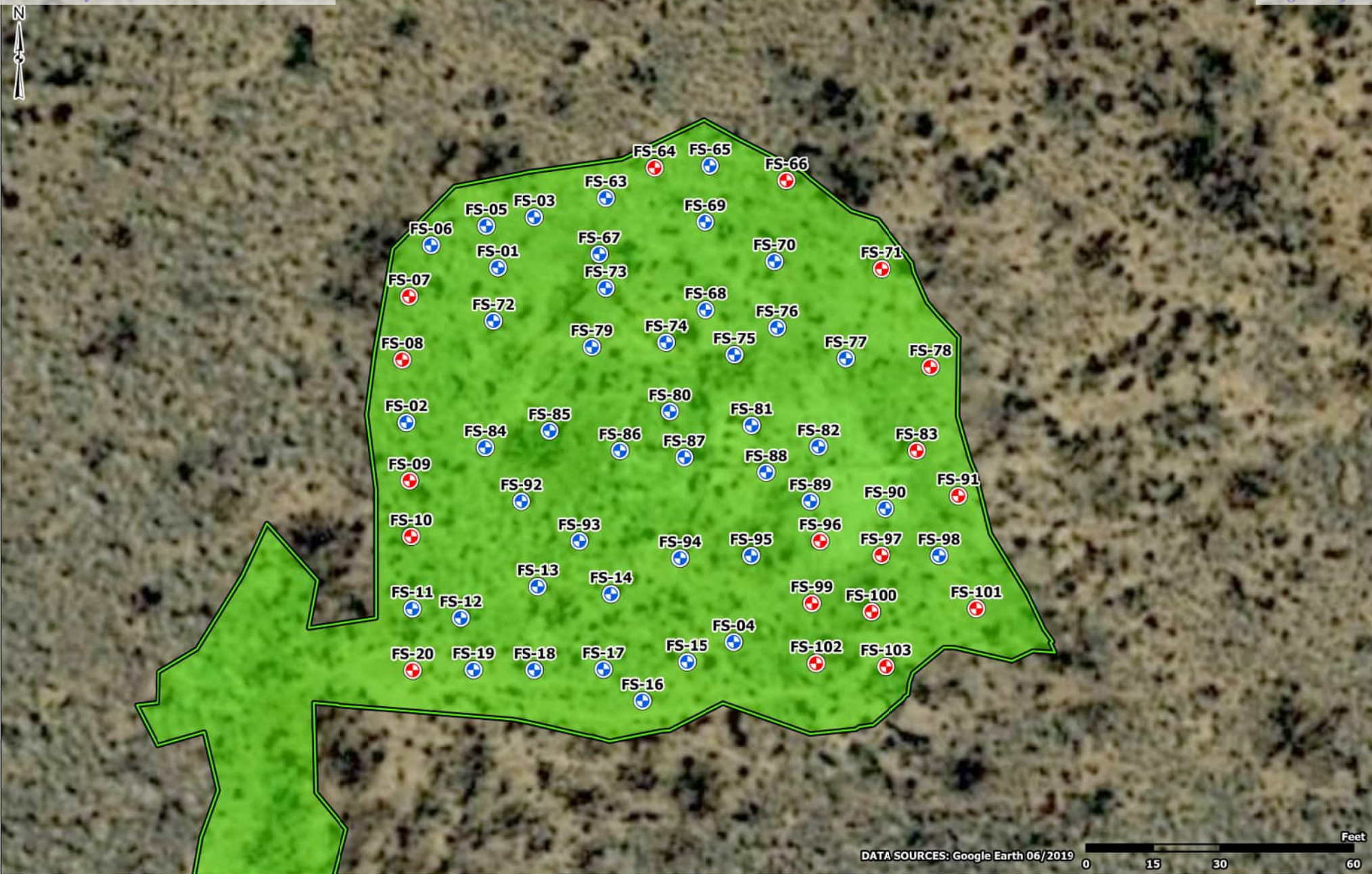

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Excavation Area Map

Leak #149
Targa Resources LLC
32.416435, -103.175163
Lea County, New Mexico

Exhibit

6



- Excavation**
- Floor Sample Depth**
- 0' to 4' BGS
 - > 4' BGS

Project No.:
KH247005

Date:
Aug 08 2024

Drawn By:
JWL

Reviewed By:
TLC

Terracon

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Carlsbad, NM

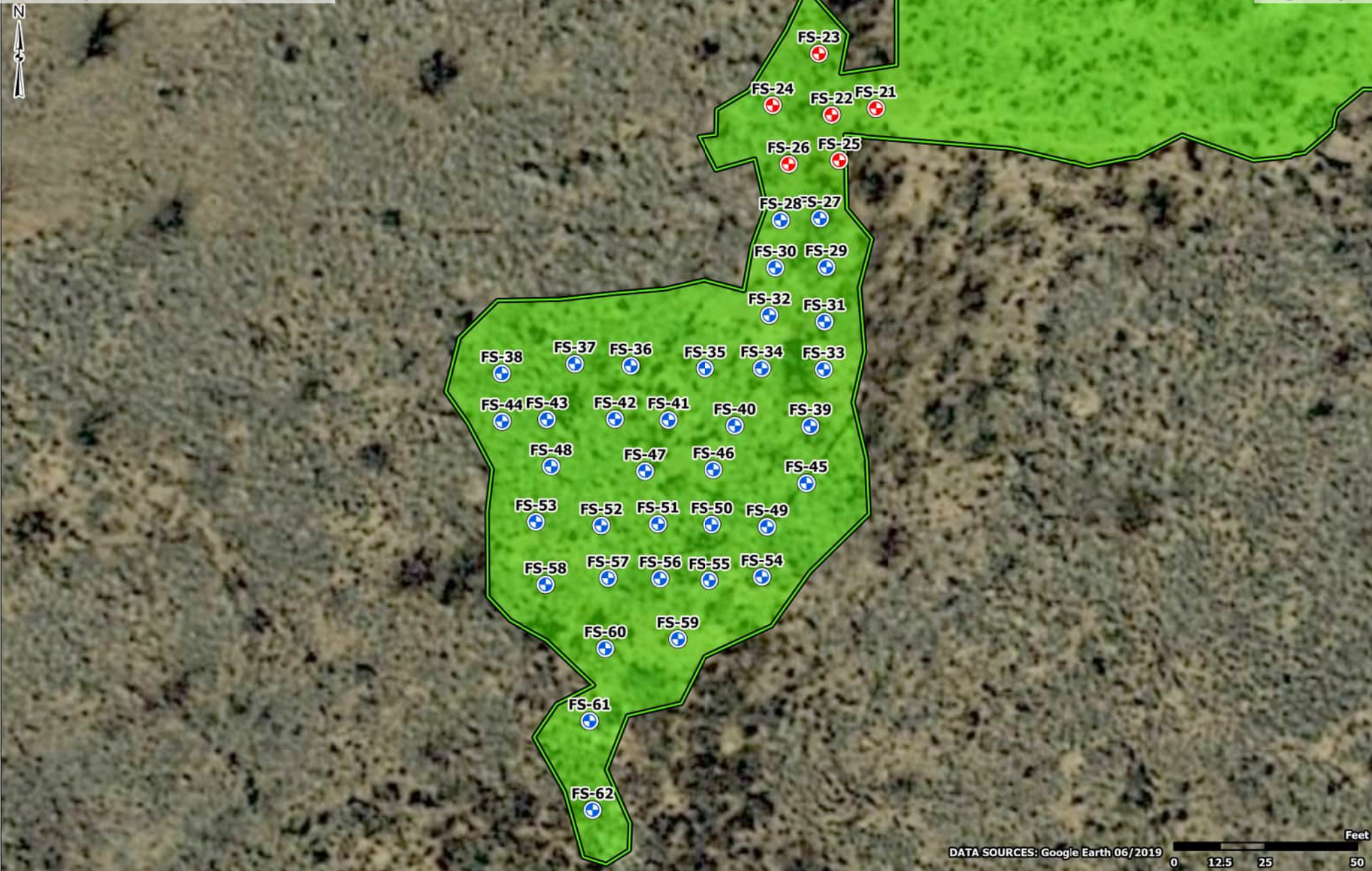
PH. 806-300-0140 terracon.com

Confirmation Floor Sample Map (North)

Leak #149
Targa Resources LLC
32.416435, -103.175163
Lea County, New Mexico

Exhibit

7



Excavation
(20,600 Sq. Ft.)

Floor Sample Depth

0' to 4' BGS

> 4' BGS

Project No.:
KH247005

Date:
Aug 08 2024

Drawn By:
JWL

Reviewed By:
TLC



4526 W Pierce St
Carlsbad, NM

PH. 806-300-0140

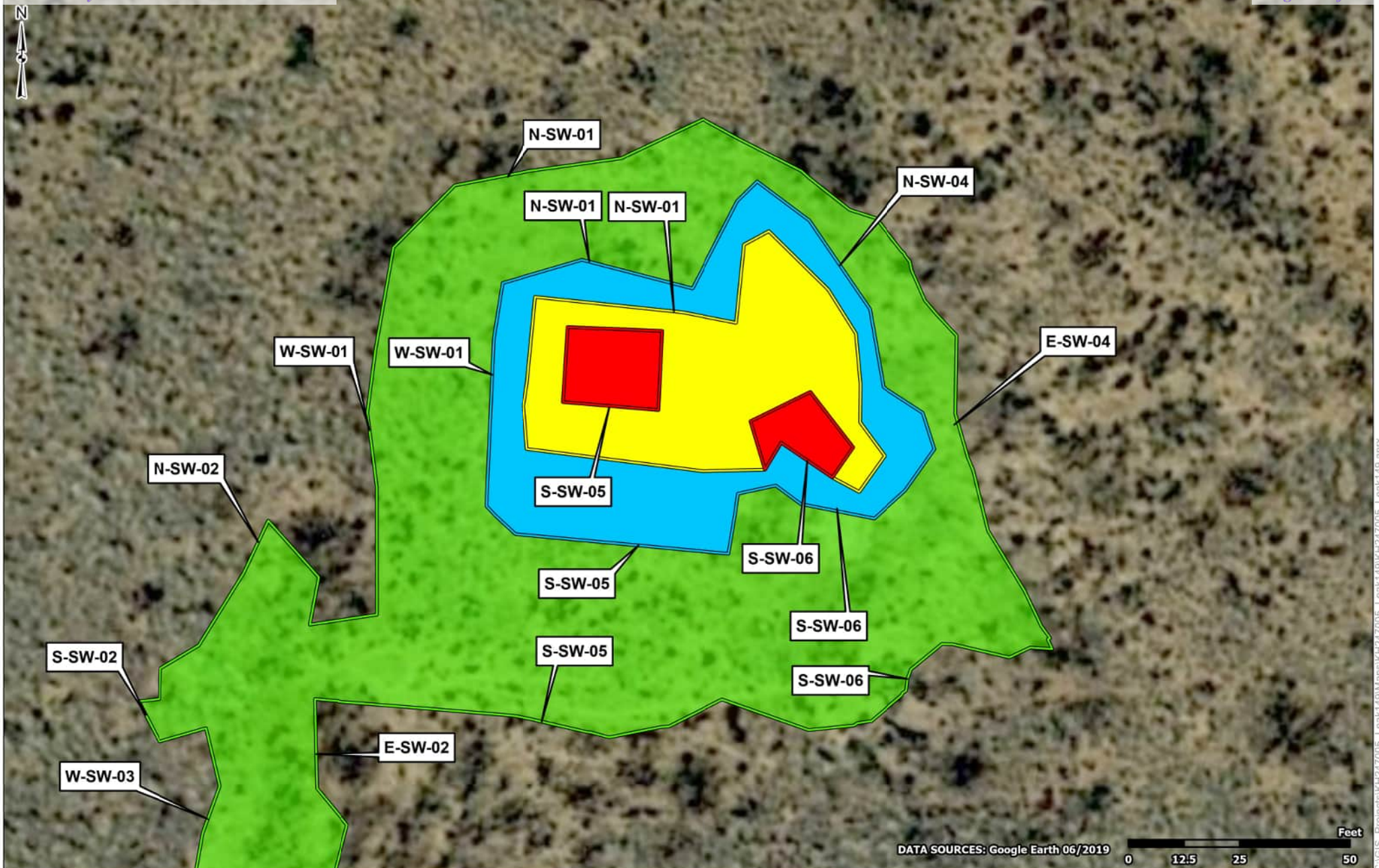
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Confirmation Floor Sample Map (South)

Leak #149
Targa Resources LLC
32.416435, -103.175163
Lea County, New Mexico

Exhibit

7A



- 3'-6' BGS (20,600 Sq. Ft.)
- 8' BGS
- 16' BGS
- 20' BGS

Project No.:
KH247005

Date:
Aug 12 2024

Drawn By:
JWL

Reviewed By:
TLC

Terracon

4526 W Pierce St
Carlsbad, NM

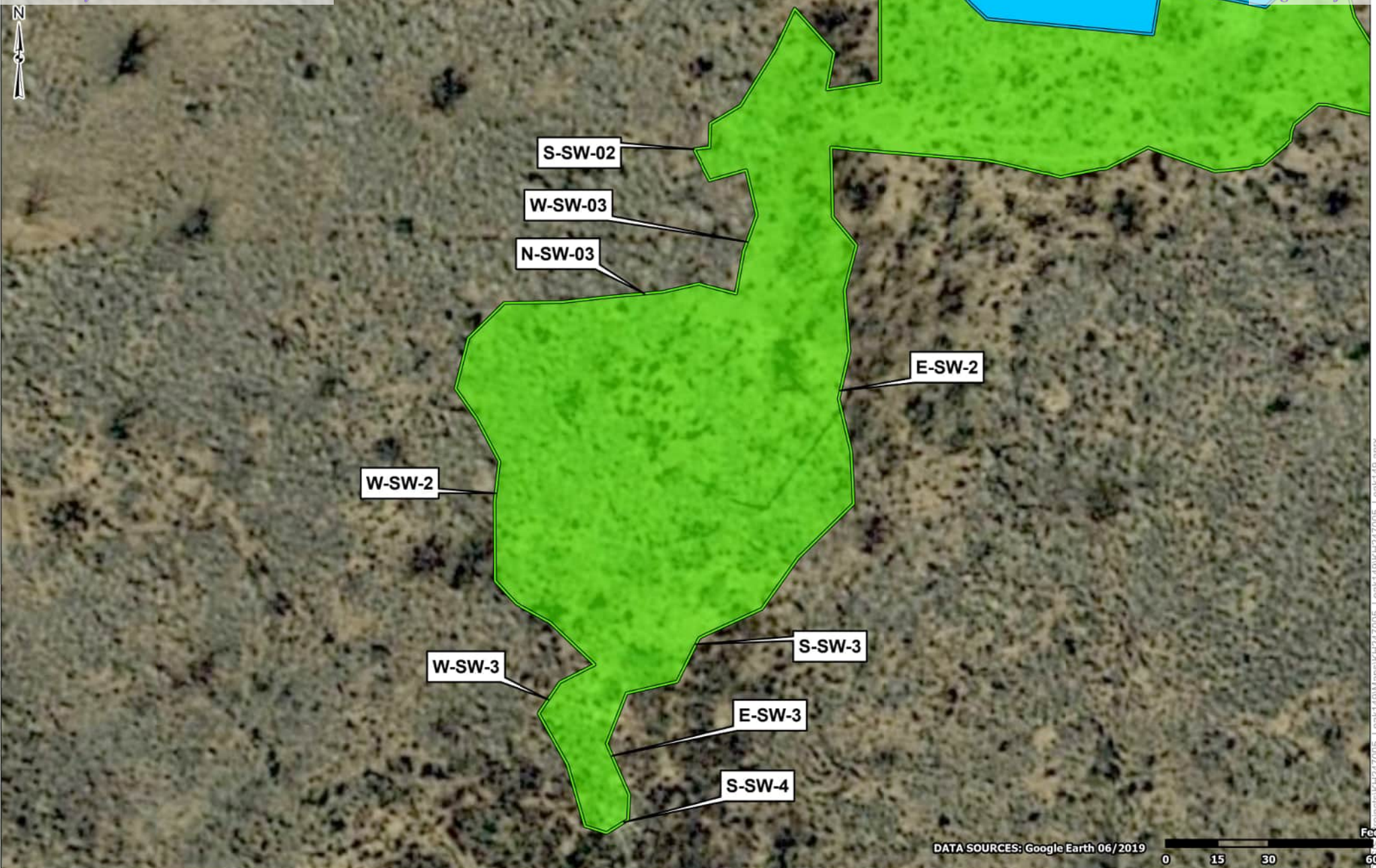
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Confirmation Wall Sample Map (North)

Leak #149
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Exhibit

8



3'-6' BGS (20,600 Sq. Ft.)
8' BGS

Project No.:
KH247005
Date:
Aug 09 2024
Drawn By:
JWL
Reviewed By:
TLC

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Confirmation Wall Sample Map (South)

Leak #149
Targa Resources LLC
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Lea County, New Mexico

Exhibit

8A

7/29/2024

**NMOCD REPORT DETAILS****Submission Contact, Application, Fee and Payment Details**

Name:	Amber Groves	Phone:	575-635-9096
Email:	agroves@targaresources.com		

Initial Release C-141**Application Details**

Incident ID:	nAPP2335429970			
District:	Hobbs			
County:	Lea			
Legal Description:	Unit:M	Section:04	Township:22S	Range:37E
Lat/Long:	N: 32.416435		E: -103.175163	

Prerequisites

Incident Operator:	TARGA MIDSTREAM SERVICES LLC
Release Type:	Natural Gas Release
Incident Status:	Pending State Approval

Release Information

Site Name:	Leak #149	
Date Discovered:	12/12/2023	(MM/DD/YYYY)
Surface Owner:	Private	

Incident Details

Incident Type:	Natural Gas Release
Fire:	No
Injuries:	No
Watercourse:	No
Public Health:	No
Significant to Property or Environment:	No
Detrimental to Freshwater:	No

Nature and Volume of Release

Released Product:	Natural Gas Vented	
Cause:	Corrosion	
Source:	Pipeline (Any)	
Release:	65	(bbls/Mcf)
Recovered:	0	(bbls/Mcf)
Additional Details:	Natural Gas Vented	

Nature and Volume of Release

Is this a gas submission	Yes	
was this a major release (Y/N) >25bbls	No	
Justification of release volume calculation	Yes	(Attached Release Volume Calculation)

Initial Response

Release has been stopped	Yes	
release area has been secured:	Yes	
released material has been contained	Yes	
All free liquids have been recovered	Yes	
If actions have not been completed, why?	N/A	(Attached Explanation)

Remediation Action Plan C-141			
Site Characterization			
what is groundwater beneath effected area?	75ft - 100ft		
What method was used to determine depth?	OCD Imaging Records Lookup		
Did release impact GW or Surface Water?	No		
continuously flowing watercourse	greater than 5 (mi.)		
lakebed, sinkhole, or playa (measured from the high-water mark)	No		
an occupied permanent residence	between 1 to 5 (mi.)		
spring or private domestic well	between 1,000 (ft.) to 1/2 (mi.)		
Incorporated municipal boundaries	between 1 to 5 (mi.)		
wetland	greater than 5 (mi.)		
subsurface mine	greater than 5 (mi.)		
a (non-karst) unstable area	greater than 5 (mi.)		
categorize the risk of this well / site being in a karst geology	Low Karst		
a 100-year floodplain	greater than 5 (mi.)		
did the release impact areas not on an exploration, development, production, or storage site			Yes
Remediation Plan			
Have lateral and vertical extents of impacts been delineated, to the strictest standards?	No		
Was the release entirely contained within a lined containment?	No		
Soil Contamination Sampling (provide the highest observed value for each)(0.1)	Chloride	6,660.0	(mg/kg)
	Total TPH	6,630.0	(mg/kg)
	GRO+DRO	3,920.0	(mg/kg)
	BTEX	-	(mg/kg)
	Benzene	-	(mg/kg)
Date of Remediation Commencement	2/20/2024		
Date of Final Sampling or Liner Inspection	7/25/2024		
Date of Remediation Completion	7/22/2024		
Estimated Surface Area (sq.ft) to be reclaimed	22,600	(Square Feet)	
Estimated Volume (cu. Yds) to be reclaimed	3350	(Cubic Yards)	
Estimated Surface Area (sq.ft) to be remediated	4,500	(Square Feet)	
Estimated Volume (cu. Yds) to be remediated	1100	(Cubic Yards)	
Excavation and off-site disposal (dig & haul)	Yes	(Ex-Situ)	
Excavation and on-site remediation (land farm)	No	(Ex-Situ)	
Soil Vapor Extraction	No	(In-Situ)	
Chemical processing (soil shredding...etc)	No	(In-Situ)	
Biological processing (microbes / fertilizer...etc)	No	(In-Situ)	
Physical processing (soil washing, gypsum...etc)	No	(In-Situ)	
Ground Water Abatement	No		
Other (Non-listed remedial process)	No		
Closure/Deferral Request C-141			
Deferral Request (attachment with explanation)	No		
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes		
Total Surface Area (sq.ft) to be remediated	22,600	(Square Feet)	
Total Volume (cu. Yds) to be remediated	3350	(Cubic Yards)	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes		
Estimated Surface Area (sq.ft) to be reclaimed	4,500	(Square Feet)	
Estimated Volume (cu. Yds) to be reclaimed	1100	(Cubic Yards)	
Attached Summary of additional remediation Activities	Yes		
Requesting approval of Reclamation Completion			

Closure Documentation
Leak 149 | Lea County, New Mexico
September 13, 2024 | Terracon Project No. KH247005



APPENDIX B – TABLES AND WELL DATA

Table 1
Soil Analytical Results Summary - Confirmation Floor Samples
Project Code: KH247005 - Targa Resources - Leak #149
NMOCD Reference No. nAPP2335429970

Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Confirmation Floor Samples											
FS01	2/21/2024	3	Composite	In-situ	49.2	ND	ND	ND	ND	ND	ND
FS02	2/21/2024	3	Composite	In-situ	43.2	ND	ND	<50.0	ND	ND	ND
FS03	2/21/2024	3	Composite	Excavated	318	ND	ND	1127	ND	757.0	370.0
	2/26/2024	4	Composite	In-situ	170	ND	ND	72.4	ND	72.4	ND
FS04	2/21/2024	3	Composite	In-situ	32.1	ND	ND	ND	ND	ND	ND
FS05	2/26/2024	3	Composite	In-situ	ND	ND	ND	49.6	ND	49.6	ND
FS06	2/26/2024	3	Composite	In-situ	ND	ND	ND	ND	ND	ND	ND
FS07	2/26/2024	2	Composite	Excavated	39.5	ND	ND	107.9	ND	54.4	53.5
	7/25/2024	8	Composite	In-situ	161	ND	ND	42.3	ND	42.3	ND
FS08	2/26/2024	2	Composite	In-situ	57.3	ND	ND	ND	ND	ND	ND
FS09	2/26/2024	2	Composite	In-situ	70.2	ND	ND	43.4	ND	43.4	ND
FS10	2/26/2024	2	Composite	In-situ	62.9	ND	ND	188.0	ND	188.0	ND
	7/25/2024	8	Composite	In-situ	907	ND	ND	35.9	ND	35.9	ND
FS11	2/26/2024	3	Composite	In-situ	74.7	ND	ND	61.9	ND	61.9	ND
FS12	2/26/2024	3	Composite	In-situ	45.8	ND	ND	ND	ND	ND	ND
FS13	2/26/2024	3	Composite	In-situ	383	ND	ND	ND	ND	ND	ND
FS14	2/26/2024	3	Composite	Excavated	421	ND	ND	340	ND	234	106
	7/25/2024	8	Composite	In-situ	975	ND	ND	169	ND	105	64
FS15	2/26/2024	3	Composite	In-situ	62.8	ND	ND	28.2	ND	28.2	ND
FS16	2/26/2024	3	Composite	In-situ	42.4	ND	ND	ND	ND	ND	ND
FS17	2/26/2024	3	Composite	In-situ	543	ND	ND	28.7	ND	28.7	ND
FS18	2/26/2024	3	Composite	In-situ	485	ND	ND	63.8	ND	63.8	ND
FS19	2/26/2024	3	Composite	Excavated	489	ND	ND	178.8	ND	115.0	63.8
	6/28/2024	4	Composite	Excavated	69.2	ND	ND	4,000.0	ND	2,540.0	1,460.0
	7/25/2024	5	Composite	In-situ	209	ND	ND	26.0	ND	26.0	ND
FS20	6/28/2024	4	Composite	Excavated	411	ND	ND	316.0	ND	136.0	180.0
	8/8/2024	5	Composite	In-situ	372	ND	ND	68.8	ND	68.8	ND
FS21	6/28/2024	4	Composite	Excavated	78.3	ND	ND	469.0	ND	469.0	674.0
	8/8/2024	5	Composite	In-situ	191	ND	ND	221.3	ND	89.3	132
FS22	6/28/2024	4	Composite	Excavated	300	ND	ND	495.0	ND	236.0	259.0
	8/8/2024	5	Composite	In-situ	410	ND	ND	64.2	ND	64.2	ND
FS23	6/28/2024	4	Composite	Excavated	259	ND	ND	3,910.0	ND	2,200.0	1,710.0
	7/25/2024	5	Composite	In-situ	606	ND	ND	ND	ND	ND	ND
FS24	6/28/2024	4	Composite	Excavated	258	ND	ND	3,350.0	ND	1,950.0	1,400.0
	7/25/2024	5	Composite	In-situ	679	ND	ND	ND	ND	ND	ND
FS25	6/28/2024	4	Composite	Excavated	334	ND	ND	3,300.0	ND	2,010.0	1,290.0
	7/25/2024	5	Composite	In-situ	301	ND	ND	49.0	ND	49.0	ND
FS26	6/28/2024	4	Composite	Excavated	388	ND	ND	1,493.0	ND	935.0	558.0
	10/17/2024	5	Composite	In-Situ	ND	ND	ND	ND	ND	ND	ND
FS27	6/3/2024	6	Composite	In-Situ	1440	ND	ND	ND	ND	ND	ND
FS28	6/3/2024	6	Composite	In-Situ	884	ND	ND	ND	ND	ND	ND
FS29	6/3/2024	5	Composite	In-Situ	911	ND	ND	ND	ND	ND	ND
FS30	6/3/2024	5	Composite	In-Situ	405	ND	ND	ND	ND	ND	ND
FS31	6/3/2024	5	Composite	In-Situ	ND	ND	ND	ND	ND	ND	ND
FS32	6/3/2024	5	Composite	Excavated	ND	ND	ND	2,980.0	ND	1,550.0	1,430.0
	6/28/2024	6	Composite	In-Situ	729	ND	ND	ND	ND	ND	ND
FS33	6/3/2024	5	Composite	In-Situ	1090	ND	ND	ND	ND	ND	ND
FS34	6/3/2024	5	Composite	In-Situ	302	ND	ND	ND	ND	ND	ND
FS35	6/3/2024	5	Composite	In-Situ	216	ND	ND	ND	ND	ND	ND
FS36	6/3/2024	5	Composite	In-Situ	192	ND	ND	ND	ND	ND	ND
FS37	6/3/2024	5	Composite	In-Situ	43.5	ND	ND	ND	ND	ND	ND
FS38	6/3/2024	5	Composite	In-Situ	ND	ND	ND	ND	ND	ND	ND
FS39	6/3/2024	5	Composite	In-Situ	568	ND	ND	ND	ND	ND	ND
FS40	6/3/2024	5	Composite	In-Situ	211	ND	ND	ND	ND	ND	ND
FS41	6/3/2024	5	Composite	In-Situ	241	ND	ND	ND	ND	ND	ND
FS42	6/3/2024	5	Composite	In-Situ	246	ND	ND	ND	ND	ND	ND
FS43	6/3/2024	5	Composite	In-Situ	ND	ND	ND	ND	ND	ND	ND
FS44	6/3/2024	5	Composite	In-Situ	78.5	ND	ND	ND	ND	ND	ND
FS45	6/3/2024	5	Composite	In-Situ	64.7	ND	ND	ND	ND	ND	ND
FS46	6/3/2024	5	Composite	In-Situ	143	ND	ND	ND	ND	ND	ND
FS47	6/3/2024	5	Composite	In-Situ	ND	ND	ND	ND	ND	ND	ND
FS48	6/3/2024	5	Composite	In-Situ	82.3	ND	ND	61.1	ND	61.1	ND
FS49	6/3/2024	5	Composite	In-situ	ND	ND	ND	ND	ND	ND	ND
NMOCD Reclamation Standards ³ (Surface to 4 ft bgs)					600	10	50	100	100		NA
NMOCD Remediation Standards ⁴ (Greater than Depths of 4 ft)					10,000	10	50	2,500	1,000		NA

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Applicable

Bold denotes concentrations above applicable laboratory SDLs.**Bold and Highlighted values exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.**

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

Data Entry: GS
 TC
 Reviewed By: CFS



Table 1
Soil Analytical Results Summary - Confirmation Floor Samples
Project Code: KH247005 - Targa Resources - Leak #149
NMOCD Reference No. nAPP2335429970


Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)	
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	
Confirmation Floor Samples												
FS50	6/3/2024	5	Composite	In-Situ	ND	ND	ND	28.0	ND	28.0	ND	
FS51	6/3/2024	5	Composite	In-Situ	ND	ND	ND	ND	ND	ND	ND	
FS52	6/3/2024	5	Composite	In-Situ	ND	ND	ND	32.3	ND	32.3	ND	
FS53	6/3/2024	6	Composite	In-Situ	ND	ND	ND	ND	ND	ND	ND	
FS54	6/3/2024	5	Composite	In-Situ	ND	ND	ND	ND	ND	ND	ND	
FS55	6/3/2024	5	Composite	In-Situ	ND	ND	ND	ND	ND	ND	ND	
FS56	6/3/2024	5	Composite	In-Situ	ND	ND	ND	ND	ND	ND	ND	
FS57	6/3/2024	5	Composite	In-Situ	107	ND	ND	46.9	ND	46.9	ND	
FS58	6/3/2024	5	Composite	In-Situ	657	ND	ND	255	ND	255	ND	
FS59	6/3/2024	5	Composite	In-Situ	707	ND	ND	420	ND	222	198	
FS60	6/3/2024	5	Composite	In-Situ	667	ND	ND	333	ND	172	161	
FS61	6/3/2024	6	Composite	In-Situ	81.4	ND	ND	ND	ND	ND	ND	
FS62	6/3/2024	6	Composite	In-Situ	40.4	ND	ND	36.6	ND	36.6	ND	
FS63	6/28/2024	8	Composite	Excavated	382.0	ND	ND	2,038.0	ND	1,140.0	898.0	
	7/25/2024	9	Composite	In-Situ	ND	ND	ND	108.0	ND	108.0	ND	
FS64	6/28/2024	4	Composite	In-Situ	ND	ND	ND	37.5	ND	37.5	ND	
FS65	6/28/2024	8	Composite	In-Situ	378	ND	ND	526.0	ND	293.0	233.0	
FS66	6/28/2024	4	Composite	In-Situ	108	ND	ND	35.3	ND	35.3	ND	
FS67	6/28/2024	12	Composite	In-Situ	1,060.0	ND	ND	915.0	ND	485.0	430.0	
FS68	6/28/2024	12	Composite	Excavated	942.0	ND	ND	2,167.0	ND	1,300.0	867.0	
	7/25/2024	14	Composite	In-Situ	101.0	ND	ND	67.8	ND	67.8	ND	
FS69	6/28/2024	13	Composite	In-Situ	508.0	ND	ND	1,537.0	ND	986.0	551.0	
FS70	6/28/2024	16	Composite	Excavated	549.0	ND	ND	3,890.0	ND	2,440.0	1,450.0	
	7/25/2024	17	Composite	In-Situ	69.9	ND	ND	671.0	ND	671.0	ND	
FS71	6/28/2024	4	Composite	In-Situ	71.6	ND	ND	276.0	ND	148.0	128.0	
FS72	6/28/2024	12	Composite	In-Situ	672.0	ND	ND	668.0	ND	429.0	239.0	
FS73	6/28/2024	16	Composite	Excavated	2,400.0	ND	ND	4,180.0	ND	2,500.0	1,680.0	
	7/25/2024	18	Composite	In-Situ	491.0	ND	ND	1,141.0	ND	773.0	368.0	
FS74	6/28/2024	16	Composite	In-Situ	2,790.0	ND	ND	889.0	ND	546.0	343.0	
FS75	6/28/2024	16	Composite	In-Situ	3,920.0	ND	ND	378.0	ND	227.0	151.0	
FS76	6/28/2024	16	Composite	Excavated	1,520.0	ND	ND	5,360.0	ND	3,380.0	1,980.0	
	7/25/2024	17	Composite	In-Situ	545.0	ND	ND	200.0	ND	200.0	ND	
FS77	6/28/2024	8	Composite	In-Situ	145	ND	ND	988.0	ND	469.0	519.0	
FS78	6/28/2024	4	Composite	In-Situ	107	ND	ND	742.0	ND	369.0	373.0	
FS79	6/28/2024	20	Composite	Excavated	3,070.0	ND	ND	6,150.0	ND	3,620.0	2,530.0	
	7/25/2024	20	Composite	In-Situ	469.0	ND	ND	1,125.0	ND	687.0	438.0	
FS80	6/28/2024	16	Composite	In-Situ	951.0	ND	ND	1,089.0	ND	522.0	567.0	
FS81	6/28/2024	16	Composite	In-Situ	4,710.0	ND	ND	248.6	ND	152.0	96.6	
FS82	6/28/2024	20	Composite	Excavated	230.0	ND	ND	2,209.0	ND	1,390.0	819.0	
	7/25/2024	20	Composite	In-Situ	160.0	ND	ND	51.0	ND	51.0	ND	
FS83	6/28/2024	4	Composite	In-Situ	767.0	ND	ND	517.0	ND	256.0	261.0	
FS84	6/28/2024	12	Composite	In-Situ	842.0	ND	ND	1,506.0	ND	913.0	593.0	
FS85	6/28/2024	16	Composite	In-Situ	791.0	ND	ND	1,074.0	ND	654.0	420.0	
FS86	6/28/2024	16	Composite	Excavated	1,520.0	ND	ND	6,600.0	ND	3,920.0	2,680.0	
	7/25/2024	17	Composite	In-Situ	101.0	ND	ND	82.2	ND	82.2	ND	
FS87	6/28/2024	12	Composite	In-Situ	649.0	ND	ND	320.0	ND	157.0	163.0	
FS88	6/28/2024	12	Composite	In-Situ	698.0	ND	ND	514.0	ND	514.0	0.0	
FS89	6/28/2024	12	Composite	In-Situ	1,060.0	ND	ND	49.7	ND	49.7	0.0	
FS90	6/28/2024	8	Composite	Excavated	45.7	ND	ND	2,028.0	ND	1,080.0	948.0	
	7/25/2024	9	Composite	In-Situ	23.1	ND	ND	98.3	ND	98.3	ND	
FS91	6/28/2024	4	Composite	In-Situ	43.5	ND	ND	1,201.0	ND	707.0	494.0	
FS92	6/28/2024	8	Composite	In-Situ	408.0	ND	ND	421.0	ND	200.0	221.0	
FS93	6/28/2024	8	Composite	In-Situ	749.0	ND	ND	816.0	ND	369.0	447.0	
FS94	6/28/2024	8	Composite	In-Situ	737.0	ND	ND	973.0	ND	386.0	587.0	
FS95	6/28/2024	8	Composite	In-Situ	804.0	ND	ND	1,236.0	ND	558.0	678.0	
FS96	6/28/2024	4	Composite	In-Situ	187.0	ND	ND	376.0	ND	188.0	188.0	
FS97	6/28/2024	4	Composite	In-Situ	86.6	ND	ND	675.0	ND	405.0	270.0	
FS98	6/28/2024	8	Composite	In-Situ	116.0	ND	ND	656.0	ND	398.0	258.0	
FS99	6/28/2024	4	Composite	In-Situ	22.4	ND	ND	429.0	ND	282.0	147.0	
FS100	6/28/2024	4	Composite	In-Situ	102.0	ND	ND	299.0	ND	196.0	103.0	
FS101	6/28/2024	4	Composite	In-Situ	42.1	ND	ND	152.7	ND	84.5	68.2	
FS102	6/28/2024	4	Composite	In-Situ	215.0	ND	ND	312.0	ND	193.0	119.0	
FS103	6/28/2024	4	Composite	In-Situ	22.5	ND	ND	454.0	ND	293.0	161.0	
NMOCD Reclamation Standards ³ (Surface to 4 ft bgs)					600	10	50	100	100			
NMOCD Remediation Standards ⁴ (Greater than Depths of 4 ft)					10,000	10	50	2,500	1,000			
1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes 2. TPH = Total petroleum hydrocarbons 3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils 4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018 ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL). NA = Not Applicable Bold denotes concentrations above applicable laboratory SDLs. Bold and Highlighted values exceed the NMOCD Reclamation and/or Remediation and Delineation Standards. In-situ = Sample is representative of material which remains in-place at the site. Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.									Data Entry:	GS TC		
									Reviewed By:	CFS		
									 Explore with us			

Table 2
Soil Analytical Results Summary - Confirmation Wall Samples
Project Code: KH247005 - Targa Resources - Leak #149
NMOCD Reference No. nAPP2335429970

Sample ID	Sample Date	Sample Start Depth (ft bgs)	Sample End Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
						EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Confirmation Wall Samples												
E-SW-01	2/21/2024	0	2	Composite	Excavated	ND	ND	ND	ND	ND	ND	ND
E-SW-02	6/3/2024	0	4	Composite	In-situ	40.1	ND	ND	ND	ND	ND	ND
	6/3/2024	4	6	Composite	In-situ	69.8	ND	ND	35.9	ND	35.9	ND
E-SW-03	6/3/2024	0	4	Composite	In-situ	61.6	ND	ND	ND	ND	ND	ND
	6/3/2024	4	6	Composite	In-situ	296	ND	ND	ND	ND	ND	ND
E-SW-04	6/28/2024	0	4	Composite	Excavated	91.8	ND	ND	1,608.0	ND	1,040.0	568.0
	7/25/2024	0	4	Composite	In-situ	ND	ND	ND	64.7	ND	64.7	ND
	6/28/2024	4	8	Composite	Excavated	356.0	ND	ND	2,550.0	ND	1,540.0	1,010.0
	7/25/2024	4	8	Composite	In-situ	51.4	ND	ND	517	ND	283	234
	6/28/2024	8	16	Composite	Excavated	1,360.0	ND	ND	6,630.0	ND	3,460.0	3,170.0
N-SW-01	7/25/2024	8	16	Composite	In-situ	36.8	ND	ND	1247	ND	850	397
	2/26/2024	0	3	Composite	In-situ	ND	ND	ND	ND	ND	ND	ND
	6/28/2024	4	8	Composite	In-situ	3,810.0	ND	ND	700.0	ND	404.0	296.0
	6/28/2024	8	16	Composite	Excavated	4,500.0	ND	ND	5,220.0	ND	3,020.0	2,200.0
	7/25/2024	8	16	Composite	In-situ	2,500.0	ND	ND	892.0		563.0	329.0
N-SW-02	6/28/2024	16	20	Composite	In-situ	854.0	ND	ND	165.1	ND	93.8	71.3
N-SW-02	2/26/2024	0	3	Composite	In-situ	ND	ND	ND	ND	ND	ND	ND
N-SW-03	6/3/2024	0	4	Composite	In-situ	ND	ND	ND	ND	ND	ND	ND
	6/3/2024	4	6	Composite	In-situ	150	ND	ND	ND	ND	ND	ND
N-SW-04	6/28/2024	0	4	Composite	In-situ	ND	ND	ND	ND	ND	ND	ND
	6/28/2024	4	8	Composite	In-situ	34.1	ND	ND	ND	ND	ND	ND
	6/28/2024	8	16	Composite	Excavated	970.0	ND	ND	2,720.0	ND	1,500.0	1,220.0
	7/25/2024	8	16	Composite	In-situ	276.0	ND	ND	564.0	ND	564.0	ND
	6/28/2024	16	20	Composite	In-situ	556.0	ND	ND	1,393.0	ND	824.0	569.0
S-SW-01	2/21/2024	0	4	Composite	In-situ	33	ND	ND	ND	ND	ND	ND
S-SW-02	2/21/2024	0	3	Composite	In-situ	ND	ND	ND	ND	ND	ND	ND
S-SW-03	6/3/2024	0	4	Composite	In-situ	ND	ND	ND	ND	ND	ND	ND
	6/3/2024	4	5	Composite	In-situ	24.3	ND	ND	62.5	ND	62.5	ND
S-SW-04	6/3/2024	0	4	Composite	In-situ	20.1	ND	ND	ND	ND	ND	ND
	6/3/2024	4	6	Composite	In-situ	48.8	ND	ND	ND	ND	ND	ND
S-SW-05	6/28/2024	0	4	Composite	Excavated	875.0	ND	ND	ND	ND	ND	ND
	8/8/2024	0	4	Composite	In-situ	ND	ND	ND	70.3	ND	70.3	ND
	6/28/2024	4	8	Composite	In-situ	1,410.0	ND	ND	58.0	ND	58.0	ND
	6/28/2024	8	16	Composite	In-situ	1,650.0	ND	ND	35.4	ND	35.4	ND
	6/28/2024	16	20	Composite	In-situ	6,660.0	ND	ND	135.0	ND	135.0	113.0
S-SW-06	6/28/2024	0	4	Composite	In-situ	514.0	ND	ND	ND	ND	ND	ND
	6/28/2024	4	8	Composite	In-situ	405.0	ND	ND	ND	ND	ND	ND
	6/28/2024	8	16	Composite	In-situ	1,590.0	ND	ND	ND	ND	ND	ND
	6/28/2024	16	20	Composite	Excavated	687.0	ND	ND	2,740.0	ND	1,540.0	1,200.0
	7/25/2024	16	20	Composite	In-situ	579.0	ND	ND	145.0	ND	145.0	ND
W-SW-01	2/26/2024	0	3	Composite	In-situ	ND	ND	ND	ND	ND	ND	ND
	6/28/2024	4	8	Composite	Excavated	1,650.0	ND	ND	3,460.0	ND	902.0	644.0
	7/25/2024	4	8	Composite	In-situ	499.0	ND	ND	28.9	ND	28.9	ND
	6/28/2024	8	16	Composite	Excavated	2,360.0	ND	ND	3,970.0	ND	2,460.0	1,510.0
	7/25/2024	8	16	Composite	In-situ	679.0	ND	ND	62.2	ND	62.2	ND
W-SW-02	6/3/2024	0	4	Composite	In-situ	ND	ND	ND	ND	ND	ND	ND
	6/3/2024	4	5	Composite	In-situ	ND	ND	ND	ND	ND	ND	ND
W-SW-03	6/3/2024	0	4	Composite	In-situ	30.8	ND	ND	ND	ND	ND	ND
	6/3/2024	4	6	Composite	In-situ	ND	ND	ND	ND	ND	ND	ND
NMOCD Reclamation Standards ³ (Surface to 4 ft bgs)						600	10	50	100		100	NA
NMOCD Remediation Standards ⁴ (Greater than Depths of 4 ft bgs)						10,000	10	50	2,500		1,000	NA

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft.

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Applicable

Bold denotes concentrations above applicable laboratory SDLs.**Bold and Highlighted values exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.**

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

Data Entry:

GS

Reviewed By:

CFS



Table 3 Soil Analytical Results Summary - Backfill Material Project Code: KH247005 - Targa Resources - Leak #149 NMOCD Reference No. nAPP2335429970										
Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
				EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Background Soil Assessment										
N-BF	2/20/2024	0.5	Composite	ND	ND	ND	ND	ND	ND	ND
N-BF	2/22/2024	0.5	Composite	ND	ND	ND	ND	ND	ND	ND
NMOCD Reclamation Standards ³ (Surface to 4 ft bgs)				600	10	50	100	100		N/A
NMOCD Remediation Standards ⁴ (Greater than				600	10	50	1,000	1,000		N/A
1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes 2. TPH = Total petroleum hydrocarbons 3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. 4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018 < = Constituent was not detected above the indicated laboratory sample detection limit (SDL). NA = Not Analyzed Bold denotes concentrations above applicable laboratory SDLs. Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards. In-situ = Sample is representative of material which remains in-place at the site. Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.										

Closure Documentation
Leak 149 | Lea County, New Mexico
September 13, 2024 | Terracon Project No. KH247005



APPENDIX C – ENVIRONMENTAL REPORT WITH BORING LOGS

1R - 484

REPORTS

DATE:

Aug. 26, 2009



August 26, 2009

Mr. Edward Hansen
State of New Mexico – Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RECEIVED
AUG 28 2009
Environmental Bureau
Oil Conservation Division

RE: OCD Remediation Project Nos. 1R-483, Elliott B-9 #1,4,&5 Tank Battery, Unit C (NE/4, NW/4), Section 9, T22S, R37E, and 1R-484, Elliott B-9 #2 & 3 Tank Battery Unit D (NW/4, NW/4), Section 9, T22S, R37E, Release Delineation Report, John H. Hendrix Corporation, Lea County, New Mexico

Dear Mr. Hansen:

This report is submitted to the State of New Mexico Oil Conservation Division on behalf of John H. Hendrix Corporation (JHHC) by Larson and Associates, Inc., its agent, and presents the results of remedial actions performed at the referenced sites. LAI and JHHC respectfully request a 180 day remediation design extension to negotiate groundwater extraction for remediation with the Office of the State Engineer (OSE), and to design remediation system consistent with OSE requirements.

This report combines the evaluation of two nearby sites since the data from each site separately does not plot well for graphics, and the physical characteristics of the site areas are very similar. However, remediation efforts will be treated separately.

If you have any questions or concerns, please call me at 432.687.0901 to discuss.

Sincerely,

LARSON & ASSOCIATES, INC.

William D. Green, PG No. 136
Texas Licensed Professional Geologist
wgreen@laenvironmental.com

Attachments

CC

Ms. Carolyn Haynes – JHHC Midland
Mr. Larry Johnson – OCD District 1

RECEIVED

AUG 28 2009

Environmental Bureau
Oil Conservation Division

Release Delineation Report

1R-483 & 1R-484

Elliott B-9 #1, 4, & 5 Tank Battery &

Elliott B-9 #2 & 3 Tank Battery

Unit C & D, Section 9, T22S, R37E

Lea County, New Mexico

OCD Project Nos. 1R-483 & 1R-484

LAI Project Nos. 6-0104-02, -03

August 26, 2009

Prepared for:

John H Hendrix Corporation

110 N Marienfeld, Suite 400

Midland, TX 79701-4461

Prepared by:

William D. Green, PG No. 136

Texas Registered Professional Geologist

Larson & Associates, Inc.

507 North Marienfeld, Suite 200

Midland, Texas 79701

Release Delineation Report
Britt B-9 Tank Batteries
Section 9, T22S, R37E
Lea County, New Mexico

August 26, 2009

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Appendix C	Laboratory Reports

Release Delineation Report
Britt B-9 Tank Batteries
Section 9, T22S, R37E
Lea County, New Mexico

August 26, 2009

Executive Summary

This report is submitted to the State of New Mexico Oil Conservation Division (OCD) on behalf of John H. Hendrix Corporation (JHHC) by Larson and Associates, Inc. (LAI), its agent, and presents the results of delineation at referenced leak sites. The report has been prepared based upon the *Guidelines for Remediation of Leaks, Spills and Releases* (OCD, August 13, 1993), with a slight deviation.

Two site investigations are presented in this report since both locations are nearby (both sites are in the N/2 of the NW/4 of Section 9), are similar in contaminants of concern, and the three monitor wells associated with each site are near linear in placement, limiting the ability to determine groundwater gradient and chemical distribution for individual sites.

Responsible Party Contact Information

JHHC's contact for environmental concerns is:

Ms. Carolyn Haynes
John H. Hendrix Corporation
110 N. Marienfeld, Suite 400
Midland, Texas 79701
Office – 432.684.6631, Cell – 575.390.9689
Email – cdoranhaynes@jhhc.org

Historic Information

Site releases were identified through the investigation of closed production pits. Both sites are located approximately 1.5 miles south of Eunice, New Mexico. Figure 1 presents the site locations plotted on a topographic map.

General Site Characteristics

The release locations are at latitude N 32° 24' 44.63", longitude W 103° 10' 31.30" for the #2&3 site, and N 32° 24' 37.28", W 103° 10' 11.77" for the #1,4,5 site (Figure 1). The surface estate is owned by Mr. Charlie Bettis and is used for oil and gas production and occasional livestock grazing.

The surface elevation is approximately 3,420 feet above mean sea level and slope gently east-southeast. The nearest surface water is more than two miles from either location. Surface soil is comprised of windblown sand with a vegetation cover of shin oak, sand burr grass, and yucca. No water wells were identified within 1,000 feet of either site using the Office of the State Engineer (OSE) Water Right Lookup database.

Several pipelines are either within the release investigation areas, or are adjacent to the points of release (Figures 2 and 3).

Release Delineation Report
Britt B-9 Tank Batteries
Section 9, T22S, R37E
Lea County, New Mexico

August 26, 2009

Geology

The *Geologic Map of New Mexico* (2003) and the *Geologic Atlas of Texas, Hobbs Sheet* indicate the vicinity's surface geology is comprised of Holocene to mid-Pleistocene age interlaid eolian and piedmont-slope deposits. This material covers the eastern flank of the Pecos River valley. These surficial deposits are primarily derived from reworking the underlying Tertiary-aged Ogallala Formation of the Southern High Plains, which are also comprised of alluvial and eolian deposits with petrocalcic soils. The Ogallala Formation is comprised of fluvial sand, silt, clay and localized gravel, with indistinct to massive crossbeds. The Ogallala sand is generally fine- to medium-grained quartz, and is known to contain arsenic, barium and other heavy metals in an easily mobilized Van der Waals bonded surficial coating.

Monitor well boring logs indicate a general lithology of an unconsolidated veneer of eolian sand over an eight- to 20-foot thickness of carbonate-indurated sand (caliche). The caliche layer is most like the zone of illuviation where carbonate dust accumulates from surface transportation by meteoric water movement. Beneath the caliche layer is a thickness of fine-grained reddish-yellow quartz sand. Redbeds were not encountered at 90' bgs. Depth to groundwater is between 75 and 80 feet below ground surface (bgs), based on monitor wells data (Table 1).

Regional Structure

The site is located over the north-central portion of the Central Basin Platform, a large elevated block between the Delaware and Midland Basins of southeastern New Mexico and West Texas. Prior to late Mississippian time this region had only mild structural deformation, producing broad shallow depressions and regional arches. Tectonic events associated with the Marathon-Ouachita orogeny in the late Mississippian uplifted the platform and subsequent Pennsylvanian and early Permian deformation compressed and faulted the area. Deformation ceased in the early Permian, as evidenced by high angle faulting that ended during Wolfcampian-aged sedimentation, and the presence of younger strata draped over the preexisting structures. A period of tectonic quiescence followed, during which erosion and gradual subsidence took place. An expanding sea eventually covered the area, depositing several thousand feet of evaporites, carbonates, and shales.

During Triassic time the region underwent slow uplift and erosion followed by down-warping that created a large landlocked basin that was filled with sediments that accumulated in flood plain, deltaic and lacustrine environments. This was followed by another period of erosion during Jurassic time, and a final marine inundation by Cretaceous seas, resulting in the deposition of a basal clastic unit with overlying marine shales and carbonates.

The Laramide Orogeny (when Rocky Mountains were formed) uplifted the area west of the Permian Basin and the Cretaceous sea retreated to the south and east. There has been no significant faulting since Permian time; only gentle regional tilting with some local folding and small scale faulting. Hills (1970) postulated that later normal movement may have occurred by reactivation of existing faults, but that the movement was not sufficient to noticeably displace the overlying Permian strata. Hills (1970) further postulated that late movement along the faults may have created a conduit for fresh water for dissolution of Permian evaporate beds. The faults and fractures in the vicinity of the site do not appear to be active. Tension fractures being somewhat more open may be able to hold water longer and

Release Delineation Report
Britt B-9 Tank Batteries
Section 9, T22S, R37E
Lea County, New Mexico

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thereby account for the enhanced vegetation and development of erosional features such as playas along fractures. A magnitude 5 earthquake beneath the Drinkard Oilfield, approximately seven miles southeast of the facilities, demonstrates that the region is not totally without seismic activity.

Regional Stratigraphy

Regionally, the Precambrian basement is overlain by marine Cambro-Ordovician platform carbonates and Silurian-Devonian carbonates and shales. These sediments are truncated unconformably by Permian deposits consisting of marine shale, limestone, sandstone, marl, and evaporites. Permian age deposits are unconformably overlain by the Triassic Chinle Group. The Triassic Chinle Group is described as a series of fluvial and lacustrine mudstone, siltstone, sandstone, and silty dolomite strata. Cretaceous sediment strata were deposited as a shallow sea transgressed across the region, and unconformably overlie the Chinle Group. As the shallow sea regressed much of the Cretaceous section was eroded away prior to deposition of the overlying Tertiary Ogallala Formation. The depositional facies of the Ogallala Formation is a series of fluvial valley fills with both valley fills and interfluvial deposits overlain by eolian sediments. The Quaternary Blackwater Draw Formation, which overlies the Tertiary Ogallala Formation, consists of windblown sands, silts, and clays.

In the Eunice area, the Ogallala formation consists mainly of unconsolidated to poorly consolidated, very fine to medium-grained sand and gravel, with minor amount of silt and clay up to 30 feet thick under the site. Locally the "c" horizon of the modern soil is called the caprock caliche. The caprock is a hard, erosion resistant, pedogenic calcrete that is typically five to ten feet thick but may exceed 20 feet in some areas. In areas, the caliche is actually forming in, and incorporating, Holocene sediments, and often "Caprock" is a misnomer, as the caprock can be found as a deeper stratum in these areas. The upper-most unit, the Blackwater Draw Formation, consists of reddish brown, very fine to fine grained eolian sand with minor amounts of clay and caliche.

Groundwater Investigation

Prior reported investigation activities consist of the installation of two monitor wells at each location. MW-01s for both sites were installed on October 16, 2007 near the southeast (downgradient) corners of the release area. The results of these wells indicated impacted water quality with both sites exhibiting chloride and total dissolved solids (TDS) concentrations exceeding New Mexico Water Quality Control Commission Domestic Water Supply (DWS) standards. Hydrocarbons and targeted volatile organic compounds were not detected in either well. MW-02s were installed upgradient of both sites on December 3, 2007. Both of these wells had chloride and TDS values within the DWS standards. Copies of all boring logs associated with both locations are presented in Appendix A.

On June 29, 2009, LAI installed MW-03s in the downgradient direction, with locations concurred upon by the OCD (Appendix B). Again, both wells exhibited chloride and TDS values below DWS standards. Details of each site investigation are presented in the following sections.

Release Delineation Report
Britt B-9 Tank Batteries
Section 9, T22S, R37E
Lea County, New Mexico

August 26, 2009

Elliott B-9 #1,4,5 Tank Battery

This is the east-most of the two facilities. The three monitor wells associated with this facility are in a nearly straight line following the apparent groundwater gradient based upon a combined site Surfer® plot (Figure 3). Gauging data on June 30, 2009 indicates a slight groundwater mound exists under MW-01. Groundwater elevation is between 3,345.26 feet (MW-03) and 3,346.30 feet (MW-01). Groundwater gradient direction is towards the east-southeast based upon the plot of the two facilities, but may be more southerly than the near linear monitor well configuration suggests. Groundwater gradient slope between the two facilities is approximately 0.00109 ft/ft.

Chloride and TDS concentrations exhibited during June 2009 were below DWS standards for MW-02 and MW-03, while MW-01 exhibited 660 milligrams/liter (mg/l, parts per million) and 1,840 mg/l, respectfully (Figures 4 & 5).

Elliot B-9 #2&3 Tank Battery

This is the western of the two facilities. The three monitor wells associated with this facility are in a "dog-leg" configuration (Figure 3). Gauging data on June 30, 2009 indicates generally laminar groundwater flow. Groundwater elevation is between 3,346.30 feet (MW-03) and 3,347.44 feet (MW-01). Groundwater gradient direction is towards the east-southeast with an onsite slope of approximately 0.0021 ft/ft.

Chloride and TDS concentrations exhibited during June 2009 were below DWS standards for MW-02 and MW-03, while MW-01 exhibited 4,500 mg/l and 7,790 mg/l, respectfully (Figures 4 & 5).

Remedial Options

In the Eunice, NM area, groundwater discharge rates are generally very low. Recovering five gallons per hour (gph) per well is often beyond well production capacity in this region. However, groundwater extraction is not the primary concern at this site.

A New Mexico OSE permit to extract groundwater requires the point of diversion be used for a beneficial purpose. Hindering the design of a remediation program is the fact that there is no viable beneficial use of extracted groundwater as there are no livestock or croplands in the vicinity of the sites. Extracting and disposing chloride-impacted groundwater to protect the remaining groundwater is not considered a beneficial use.

JHHC intend to include all site monitor wells in the quarterly sampling plan, with the next event tentatively scheduled for October 2009. The acquisition of added data will assist in the design and implementation of an effective remediation effort.

LAI and JHHC respectfully request a 180 day extension to negotiate groundwater extraction for remediation with the Office of the State Engineer, and to design remediation system consistent with OSE requirements.

Release Delineation Report
Britt B-9 Tank Batteries
Section 9, T22S, R37E
Lea County, New Mexico

August 26, 2009

Conclusions

- Groundwater gradient slope between the two facilities is towards the east-southeast at approximately 0.00109 ft/ft.
- Elliott B-9 #1,4,5 Tank Battery has chloride and TDS concentrations exceeding DWS values in MW-01, 660 mg/l and 1,840 mg/l, respectfully. MW-02 (upgradient) and MW-03 (downgradient) are within DWS values.
- Elliot B-9 #2&3 Tank Battery has chloride and TDS concentrations exceeding DWS values in MW-01, 4,500 mg/l and 7,790 mg/l, respectfully. MW-02 (upgradient) and MW-03 (downgradient) are within DWS values.

Table 1
 Monitor Well Completion and Gauging Summary
 John H. Hendrix Corporation
 Elliott B-9 Tank Battery #1, #4 and #5 (1R0483)
 Unit C (NE/4,NW/4), Section 9, Township 22 South, Range 37 East
 Lea County, New Mexico

Well Information				Groundwater Data								
Well ID	Date Drilled	Drilled Depth (bgs)	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Well Depth from TOC	Depth to Fluid	Depth to Water	Corrected Water Elevation
MW-1	10/16/2007	90	2	3,424.90	67.03 - 86.34	2.29	3,427.19	10/16/2007	90.27	--	77.97	3,349.22
								4/7/2008		--	81.08	3,346.11
								9/4/2008		--	78.35	3,348.84
								6/3/2009		--	80.90	3,346.29
								6/30/2009		--	80.89	3,346.30
MW-2	12/3/2007	91	2	3,423.50	70.50 - 89.81	3.06	3,426.56	12/4/2007	92.84	--	78.79	3,347.77
								4/7/2008		--	81.10	3,345.46
								9/4/2008		--	78.63	3,347.93
								6/3/2009		--	80.87	3,345.69
								6/30/2009		--	80.81	3,345.75
MW-3	6/29/2009	89	2	3,424.40	69 - 89	3.14	3,427.54	6/30/2009	92.28	--	82.28	3,345.26

Notes

bgs - below ground surface

TOC - top of casing

Wells drilled and constructed by Scarborough Drilling, Inc., Lamesa, Texas, Schedule 40 threaded PVC casing and screen.

Table 1
 Monitor Well Completion and Gauging Summary
 John H. Hendrix Corporation
 Elliott B-9 Tank Battery #2 and #3 (1R0484)
 Unit D (NW/4,NW/4), Section 9, Township 22 South, Range 37 East
 Lea County, New Mexico

Well Information								Groundwater Data				
Well ID	Date Drilled	Drilled Depth (bgs)	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Well Depth from TOC	Depth to Fluid	Depth to Water	Corrected Water Elevation
MW-1	10/16/2007	90	2	3,425.80	66.13 - 85.07	2.61	3,428.41	10/16/2007	85.00	--	79.44	3,348.97
								4/7/2008		--	82.13	3,346.28
								9/4/2008		--	82.11	3,346.30
								6/3/2009		--	81.94	3,346.47
								6/30/2009		--	81.97	3,346.44
MW-2	12/3/2007	90	2	3,425.40	66.13 - 85.44	2.59	3,427.99	12/4/2007	86.07	--	79.48	3,348.51
								4/7/2008		--	80.75	3,347.24
								9/4/2008		--	80.73	3,347.26
								6/3/2009		--	80.57	3,347.42
								6/30/2009		--	80.55	3,347.44
MW-3	6/29/2009	86	2	3,424.70	66 - 86	2.34	3,427.04	6/30/2009	89.93	--	80.74	3,346.30

Notes

bgs - below ground surface

TOC - top of casing

Wells drilled and constructed by Scarborough Drilling, Inc., Lamesa, Texas, Schedule 40 screw-threaded PVC casing and screen.

Table 2
 Water Quality Parameters Summary
 John H. Hendrix Corporation
 Elliott B-9 Tank Battery #1, #4 and #5 (1R0483)
 Unit C (NE/4,NW/4), Section 9, Township 22 South, Range 37 East
 Lea County, New Mexico

Water Quality	Collection Date	Alkalinity, Total	Chloride	Nitrate	Sulfate	Total Dissolved Solids
NMWQCC Standard (mg/L)		--	250	10	600	1000
MW-01	10/16/2007	215	1710	1.83	223	3,300
	4/8/2008	200	2070	--	214	3,980
	9/4/2008	320	936	--	141	2,240
	6/3/2009	278	660	--	130	1,840
MW-02	10/16/2007	204	57	--	88	542
	4/8/2008	240	61.7	--	87.2	535
	9/4/2008	260	33.3	--	68.1	438
	6/3/2009	288	56	--	79.0	492
MW-03	6/30/2009	--	188	--	--	875

Notes

Alkalinity analyzed via EPA Method 310.1.

Anions analyzed via EPA Method 300.

TDS analyzed via EPA Method 160.1.

All values reported in Milligrams per liter (mg/L, parts per million).

< - Indicates the value is less than Method Detection Limit (MDL).

Table 2
 Water Quality Parameters Summary
 John H. Hendrix Corporation
 Elliott B-9 Tank Battery #2 and #3 (1R0484)
 Unit D (NW/4,NW/4), Section 9, Township 22 South, Range 37 East
 Lea County, New Mexico

Water Quality	Collection Date	Alkalinity, Total	Chloride	Nitrate	Sulfate	Total Dissolved Solids
NMWQCC Standard (mg/L)		--	250	10	600	1,000
MW-01	10/16/2007	271	3,500	9.87	243	6,610
	4/8/2008	273	4,410	--	226	7,980
	9/4/2008	340	3,400	--	177	6,440
	6/3/2009	342	4,500	--	202	7,790
MW-02	10/16/2007	188	222	--	205	973
	4/8/2008	210	229	--	203	920
	9/4/2008	280	194	--	173	856
	6/3/2009	259	204	--	188	892
MW-03	6/30/2009	--	100	--	--	622

Notes

Alkalinity analyzed via EPA Method 310.1.

Anions analyzed via EPA Method 300.

TDS analyzed via EPA Method 160.1.

All values reported in Milligrams per liter (mg/L, parts per million).

< - Indicates the value is less than Method Detection Limit (MDL).

Table 1
 Monitor Well Completion and Gauging Summary
 John H. Hendrix Corporation
 Elliott B-9 Tank Battery #1, #4 and #5 (1R0483)
 Unit C (NE/4,NW/4), Section 9, Township 22 South, Range 37 East
 Lea County, New Mexico

Well Information								Groundwater Data				
Well ID	Date Drilled	Drilled Depth (bgs)	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Well Depth from TOC	Depth to Fluid	Depth to Water	Corrected Water Elevation
MW-1	10/16/2007	90	2	3,424.90	67.03 - 86.34	2.29	3,427.19	10/16/2007 4/7/2008 9/4/2008 6/3/2009 6/30/2009	90.27	-- -- -- -- --	77.97 81.08 78.35 80.90 80.89	3,349.22 3,346.11 3,348.84 3,346.29 3,346.30
MW-2	12/3/2007	91	2	3,423.50	70.50 - 89.81	3.06	3,426.56	12/4/2007 4/7/2008 9/4/2008 6/3/2009 6/30/2009	92.84	-- -- -- -- --	78.79 81.10 78.63 80.87 80.81	3,347.77 3,345.46 3,347.93 3,345.69 3,345.75
MW-3	6/29/2009	89	2	3,424.40	69 - 89	3.14	3,427.54	6/30/2009	92.28	--	82.28	3,345.26

Notes

bgs - below ground surface

TOC - top of casing

Wells drilled and constructed by Scarborough Drilling, Inc., Lamesa, Texas, Schedule 40 threaded PVC casing and screen.

Table 1
 Monitor Well Completion and Gauging Summary
 John H. Hendrix Corporation
 Elliott B-9 Tank Battery #2 and #3 (1R0484)
 Unit D (NW/4,NW/4), Section 9, Township 22 South, Range 37 East
 Lea County, New Mexico

Well Information								Groundwater Data				
Well ID	Date Drilled	Drilled Depth (bgs)	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Well Depth from TOC	Depth to Fluid	Depth to Water	Corrected Water Elevation
MW-1	10/16/2007	90	2	3,425.80	66.13 - 85.07	2.61	3,428.41	10/16/2007	85.00	--	79.44	3,348.97
								4/7/2008		--	82.13	3,346.28
								9/4/2008		--	82.11	3,346.30
								6/3/2009		--	81.94	3,346.47
								6/30/2009		--	81.97	3,346.44
MW-2	12/3/2007	90	2	3,425.40	66.13 - 85.44	2.59	3,427.99	12/4/2007	86.07	--	79.48	3,348.51
								4/7/2008		--	80.75	3,347.24
								9/4/2008		--	80.73	3,347.26
								6/3/2009		--	80.57	3,347.42
								6/30/2009		--	80.55	3,347.44
MW-3	6/29/2009	86	2	3,424.70	66 - 86	2.34	3,427.04	6/30/2009	89.93	--	80.74	3,346.30

Notes

bgs - below ground surface

TOC - top of casing

Wells drilled and constructed by Scarborough Drilling, Inc., Lamesa, Texas, Schedule 40 screw-threaded PVC casing and screen.

Table 2
 Water Quality Parameters Summary
 John H. Hendrix Corporation
 Elliott B-9 Tank Battery #1, #4 and #5 (1R0483)
 Unit C (NE/4,NW/4), Section 9, Township 22 South, Range 37 East
 Lea County, New Mexico

Water Quality	Collection Date	Alkalinity, Total	Chloride	Nitrate	Sulfate	Total Dissolved Solids
NMWQCC Standard (mg/L)		--	250	10	600	1000
MW-01	10/16/2007	215	1710	1.83	223	3,300
	4/8/2008	200	2070	--	214	3,980
	9/4/2008	320	936	--	141	2,240
	6/3/2009	278	660	--	130	1,840
MW-02	10/16/2007	204	57	--	88	542
	4/8/2008	240	61.7	--	87.2	535
	9/4/2008	260	33.3	--	68.1	438
	6/3/2009	288	56	--	79.0	492
MW-03	6/30/2009	--	188	--	--	875

Notes

Alkalinity analyzed via EPA Method 310.1.

Anions analyzed via EPA Method 300.

TDS analyzed via EPA Method 160.1.

All values reported in Milligrams per liter (mg/L, parts per million).

< - Indicates the value is less than Method Detection Limit (MDL).

Table 2
 Water Quality Parameters Summary
 John H. Hendrix Corporation
 Elliott B-9 Tank Battery #2 and #3 (1R0484)
 Unit D (NW/4,NW/4), Section 9, Township 22 South, Range 37 East
 Lea County, New Mexico

Water Quality	Collection Date	Alkalinity, Total	Chloride	Nitrate	Sulfate	Total Dissolved Solids
NMWQCC Standard (mg/L)		--	250	10	600	1,000
MW-01	10/16/2007	271	3,500	9.87	243	6,610
	4/8/2008	273	4,410	--	226	7,980
	9/4/2008	340	3,400	--	177	6,440
	6/3/2009	342	4,500	--	202	7,790
MW-02	10/16/2007	188	222	--	205	973
	4/8/2008	210	229	--	203	920
	9/4/2008	280	194	--	173	856
	6/3/2009	259	204	--	188	892
MW-03	6/30/2009	--	100	--	--	622

Notes

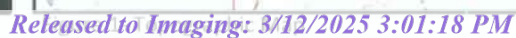
Alkalinity analyzed via EPA Method 310.1.

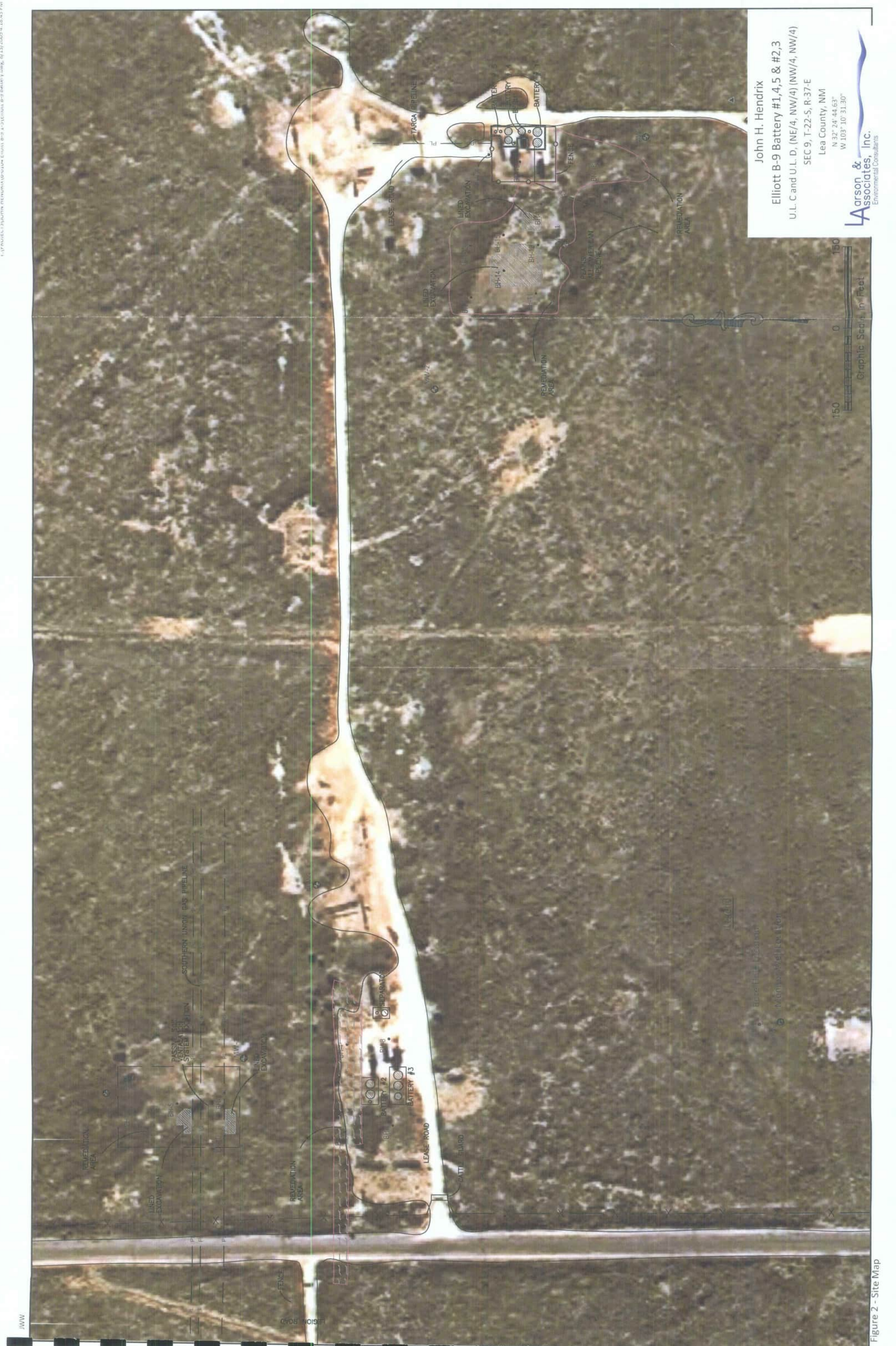
Anions analyzed via EPA Method 300.

TDS analyzed via EPA Method 160.1.

All values reported in Milligrams per liter (mg/L, parts per million).

< - Indicates the value is less than Method Detection Limit (MDL).





John H. Hendrix

Elliott B-9 Battery #1,4,5 & #2,3

U.L. C and U.L. D, (NE/4, NW/4) (NW/4, NW/4)

SEC 9, T-22-S, R-37-E

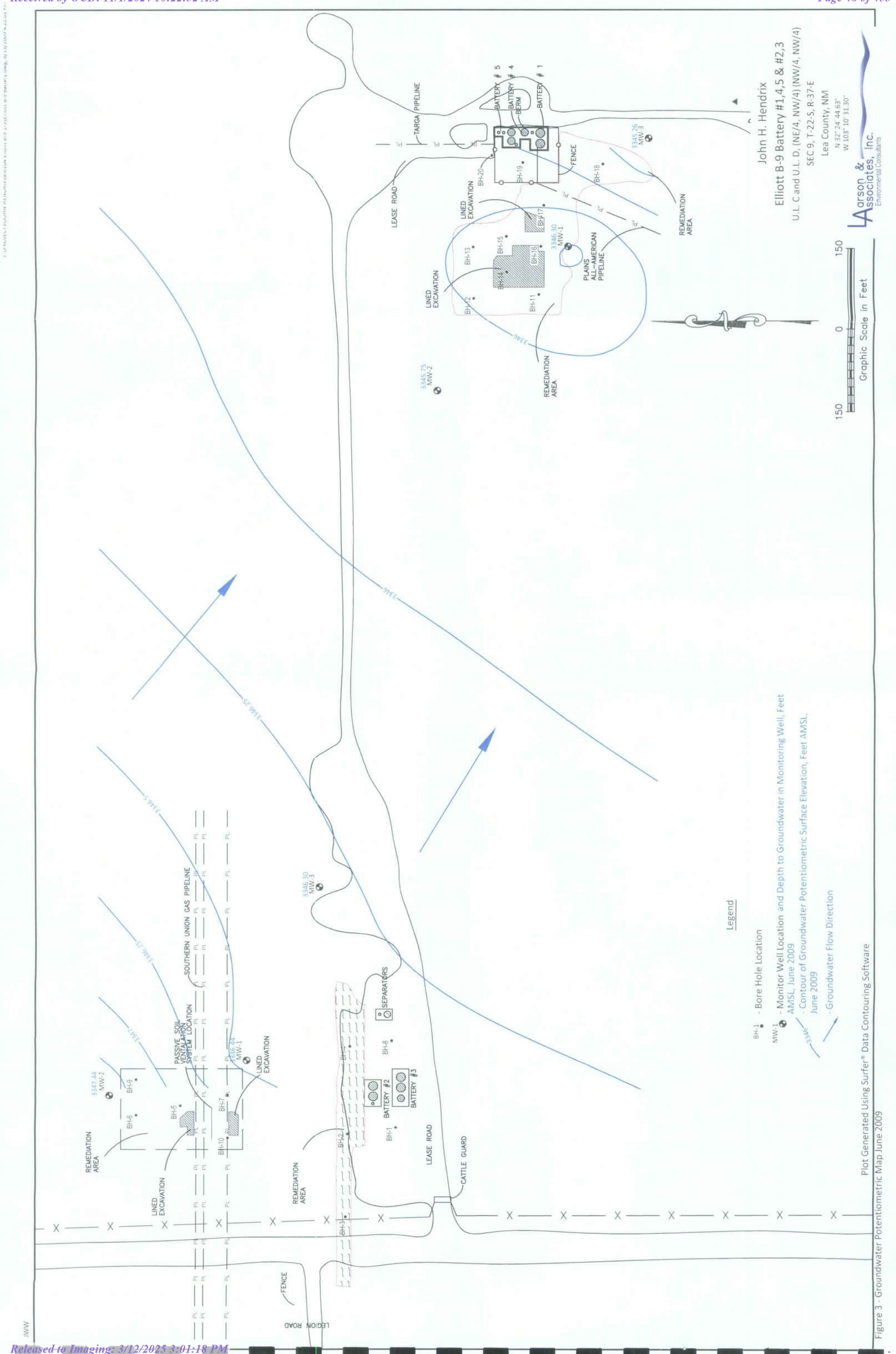
Lea County, NM

N 32° 24' 44.63"

W 103° 10' 31.30"

Arson &
Associates, Inc.
Environmental Consultants

Figure 2 - Site Map





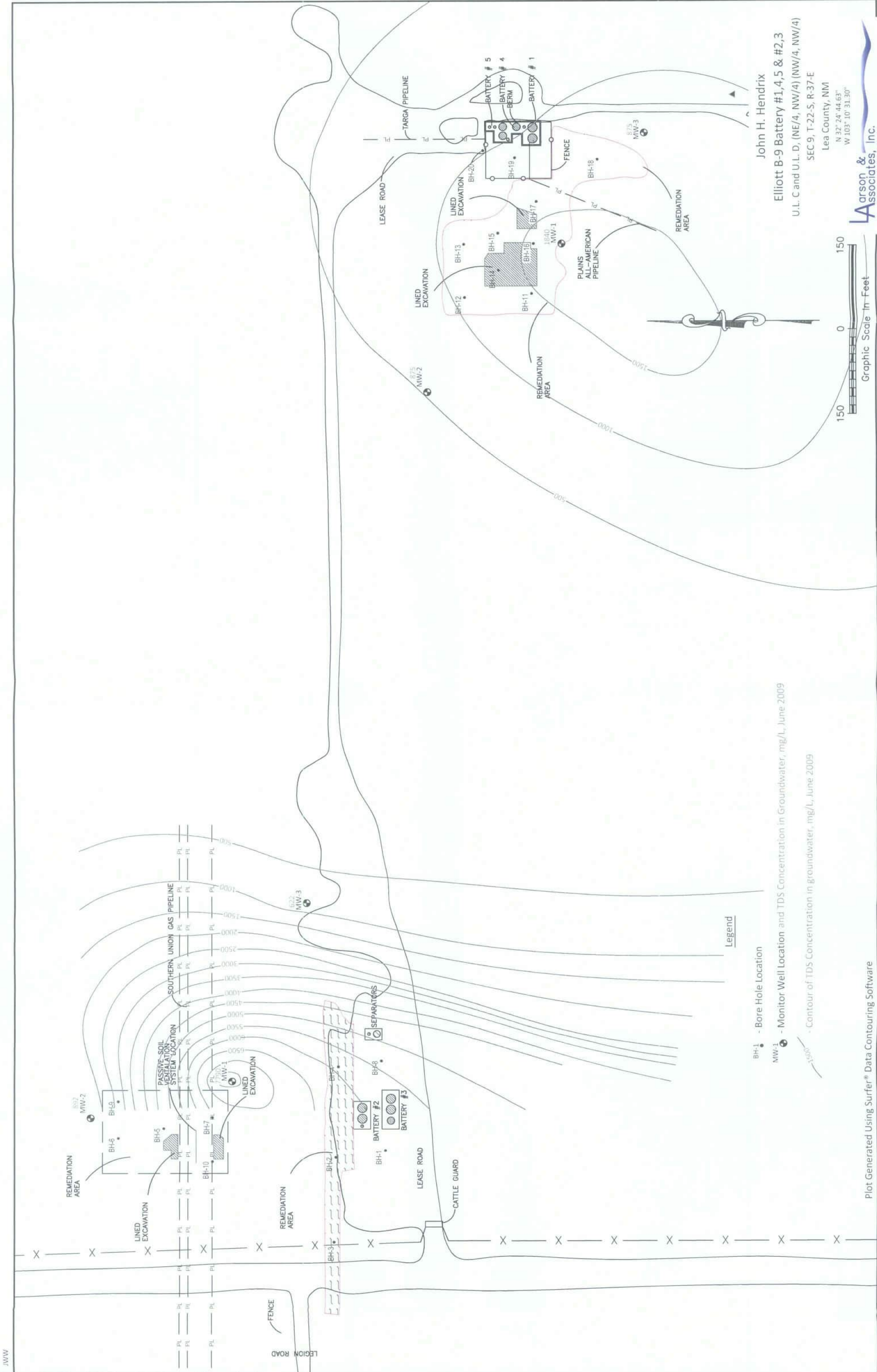


Figure 5 - TDS Concentration Map June 2009

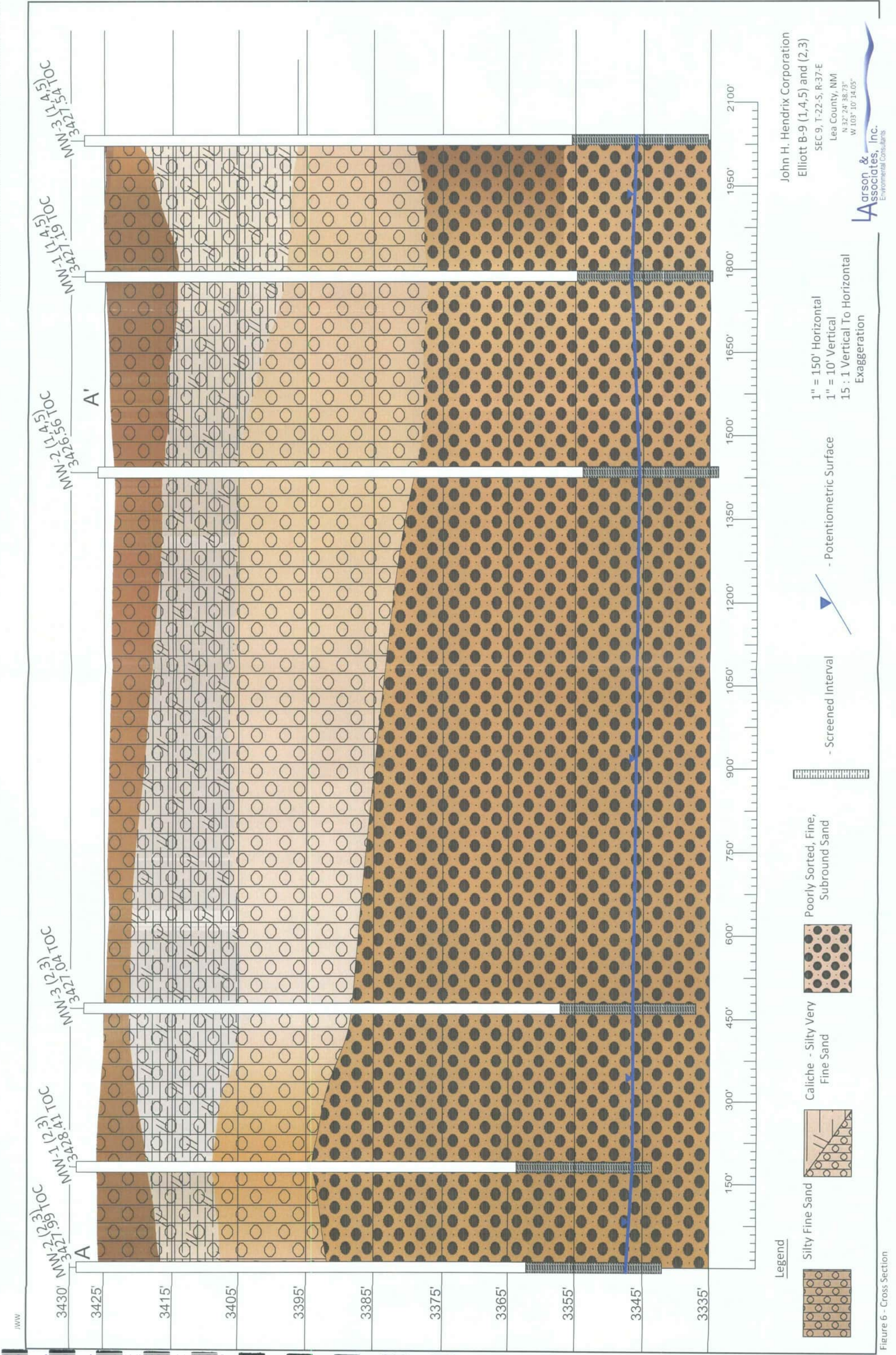
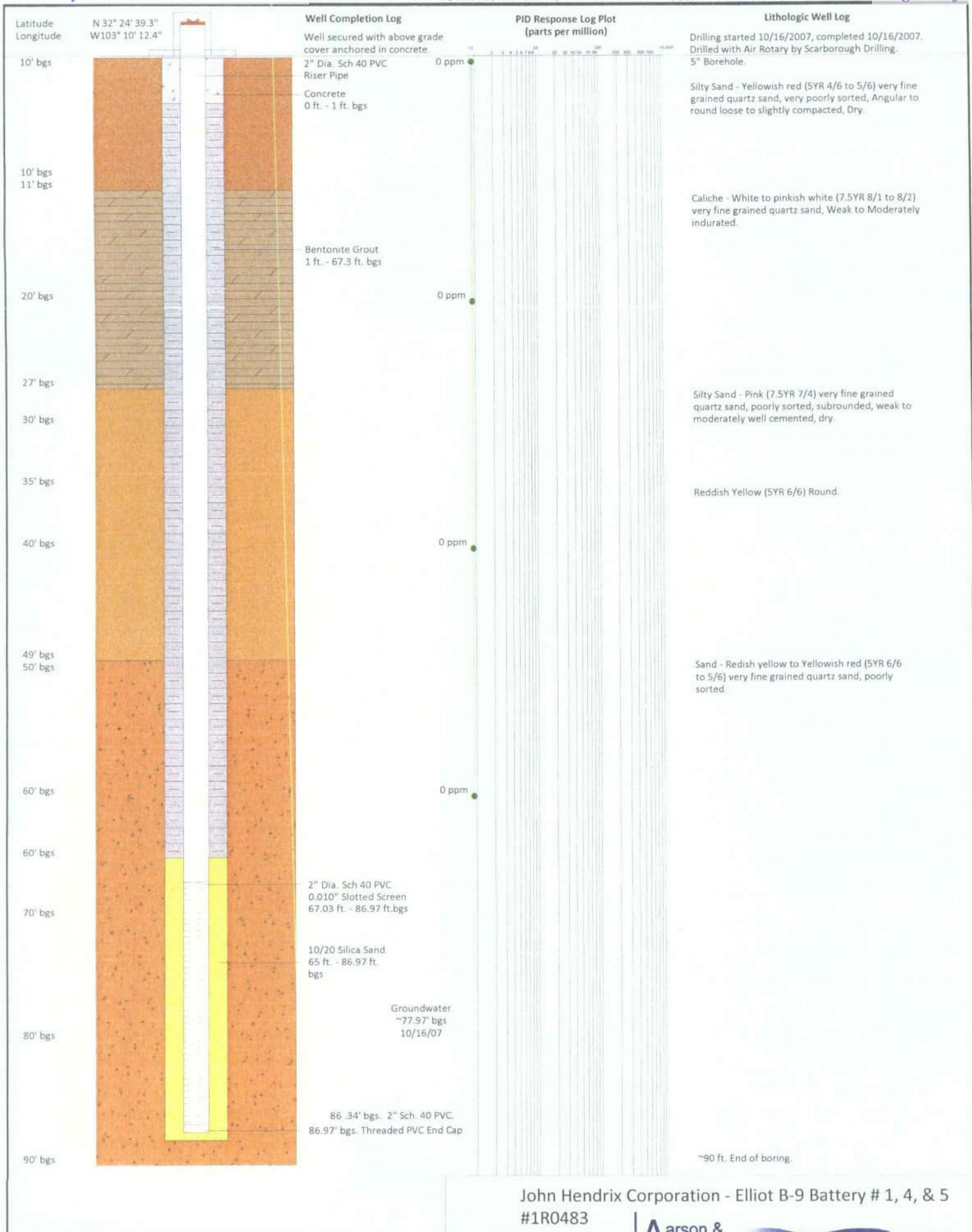


Figure 6 - Cross Section

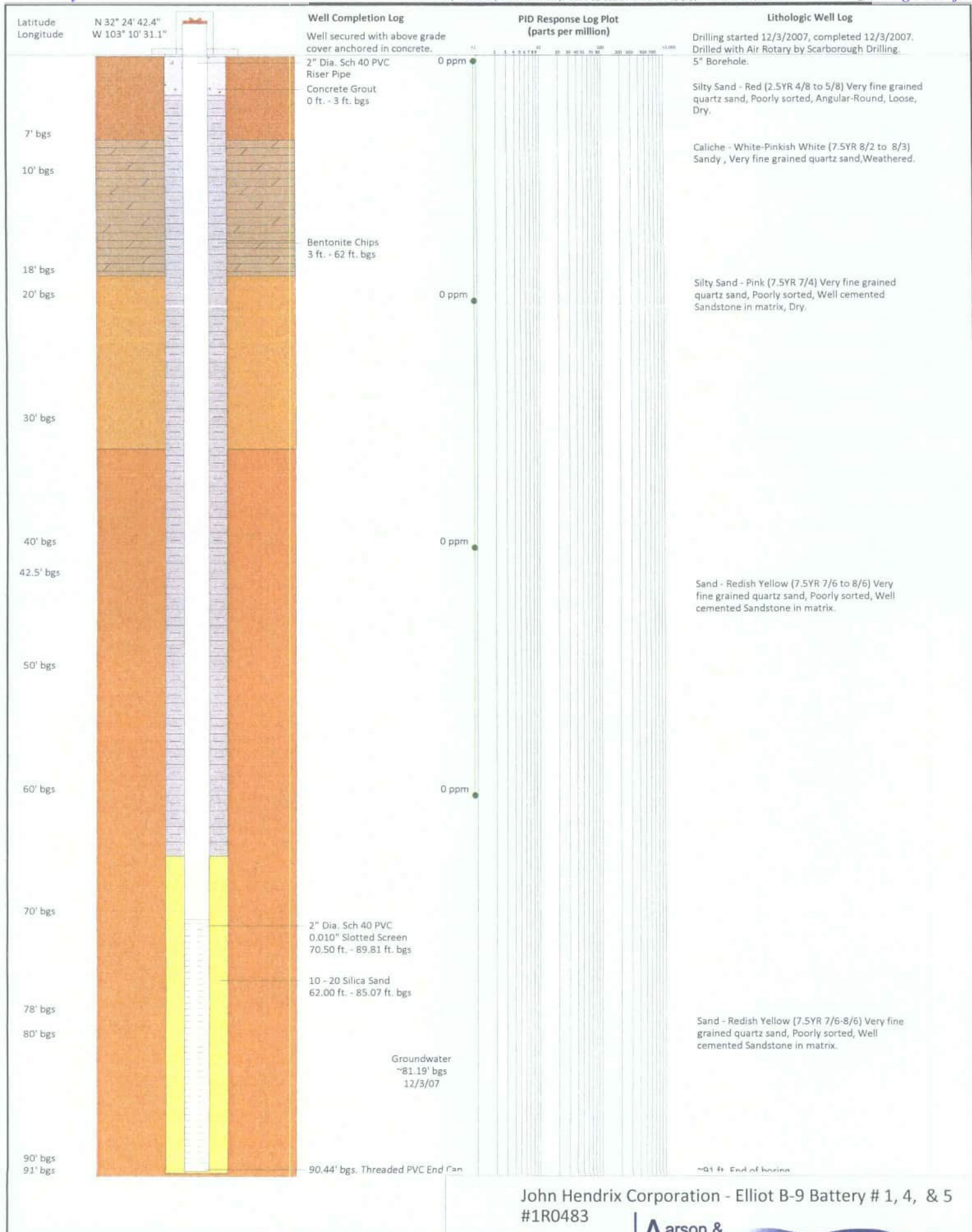


MW-1 Boring & Completion Log

Released to Imaging: 3/12/2025 3:01:18 PM

John Hendrix Corporation - Elliot B-9 Battery # 1, 4, & 5
#1R0483

Arson & Associates, Inc.
Environmental Consultants



John Hendrix Corporation - Elliot B-9 Battery # 1, 4, & 5
#1R0483

Arson & Associates, inc.
Environmental Consultants

MW-2 Boring & Completion Log

Released to Imaging: 3/12/2025 3:01:18 PM

Latitude N 32° 24' 37.28"
Longitude W 103° 10' 11.77"
TOC Elevation : 3427.54'

Well Completion Log

PID Response Log Plot
(parts per million)

Lithologic Well Log

Drilling started 6/29/2009, completed 6/29/2009.
Drilled with Air Rotary by Ken Cooper Harrison & Cooper
SM - Red (2.5YR 4/6) silty very fine sand, angular

SP - Yellowish Brown (5YR 5/8) very fine sand,
angular, no fines
SP - Yellowish Brown (5YR 5/8) fine subround sand

SM/CA - Pink (5YR 8/3) silty to fine subround sand
with carbonate, about 5% fines

SM/CA - White (5YR 8/1) silty to fine subround
sand with carbonate, about 5% fines

SM/CA - Pinkish White (5YR 8/2) silty to fine
subround sand with carbonate, about 10% fines

Lithology change at 29'
SM - Pink (5YR 7/4) subangular very fine sand with
about 20% silt

SM/CA - Pink (5YR 7/4) subangular very fine sand
with about 20% silt, increasing carbonate
content noted

SS/SP - Light Reddish Brown (5YR 6/4) subround
fine sand and carbonate indurated sandstone

SP - Pink (5YR 7/3) subround fine sand w/ <5% fines

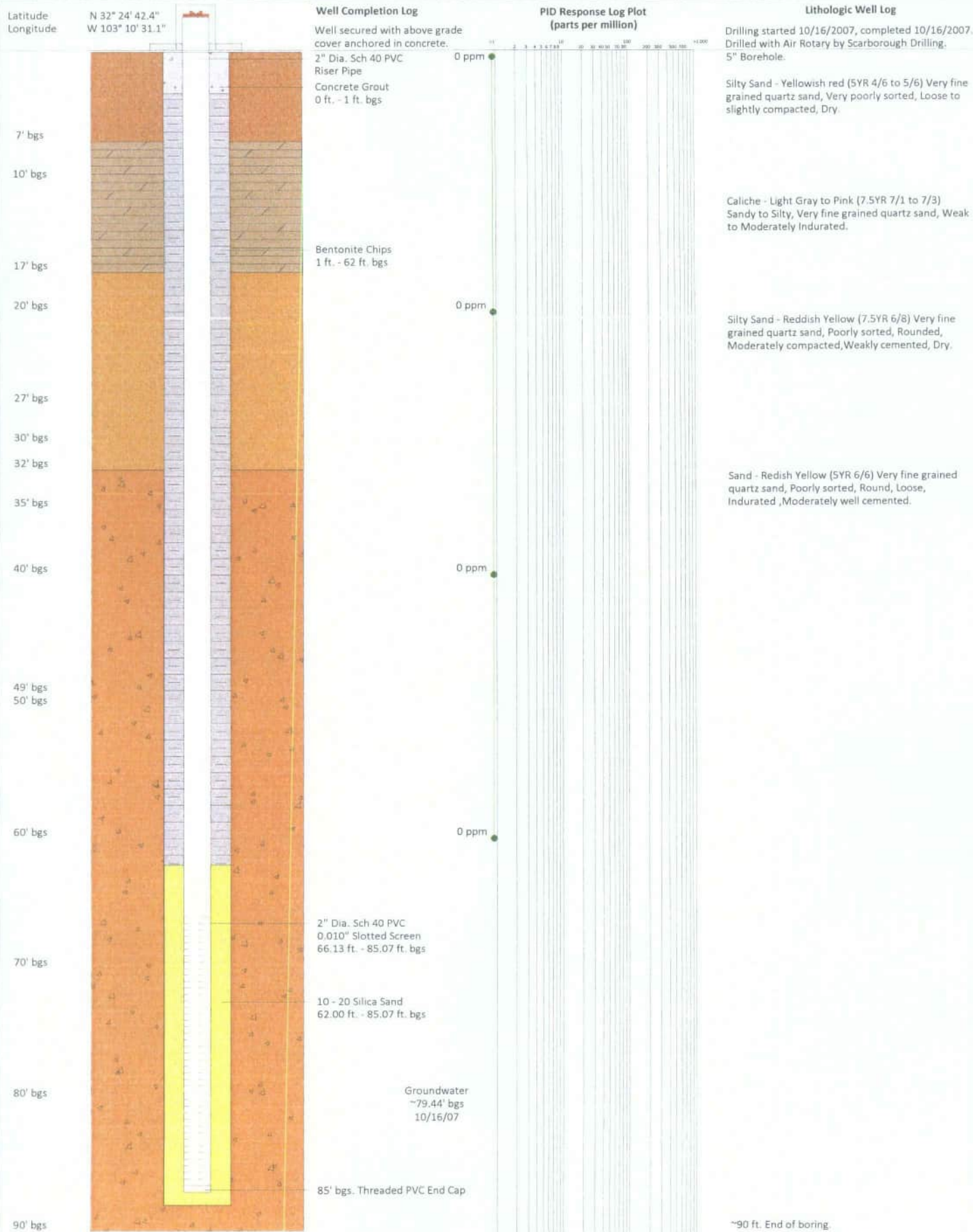
SP - Reddish Yellow (5YR 6/6) well rounded fine
sand poorly sorted/ well graded
80' SP - Reddish Yellow (5YR 6/6) well rounded fine
sand poorly sorted/ well graded, moisture noted
90' SP - Reddish Yellow (5YR 6/6) well rounded fine
sand poorly sorted/ well graded, moisture noted
Total depth at 89'

John H. Hendrix Corporation
Elliot Lease B-9 Battery #1,4,5
U.L. D, (NE/4, NW/4)
Sec. 9, T-22-S, R-37-E
Lea County, New Mexico

Larson &
Associates, Inc.
Environmental Consultants

MW-3 Boring and Completion Log

Released to Imaging: 3/12/2025 3:01:18 PM

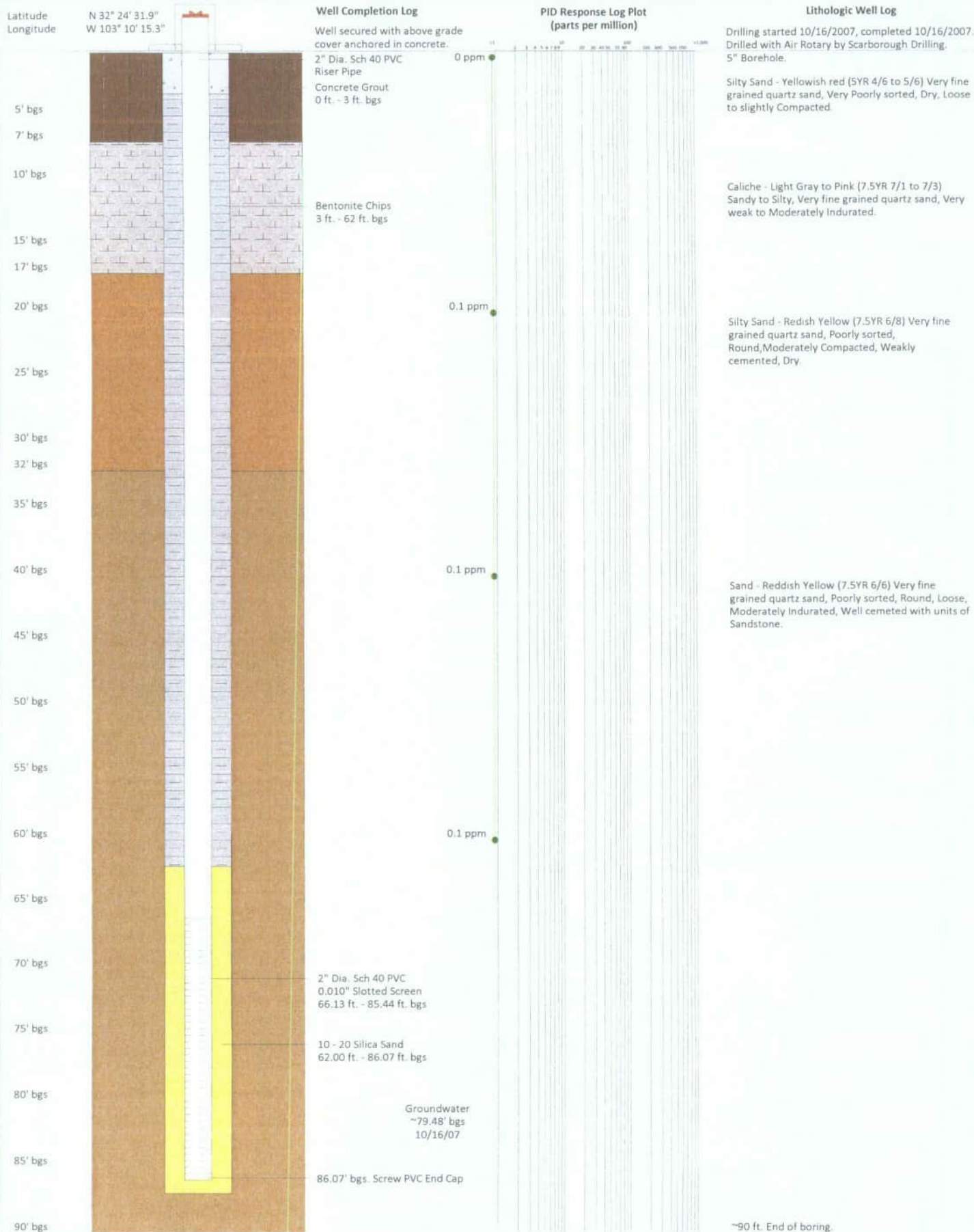


John Hendrix Corporation - Elliot B-9 Battery # 2 & 3
#1R0483

Larson & Associates, inc.
Environmental Consultants

MW-1 Boring & Completion Log

Released to Imaging: 3/12/2025 3:01:18 PM



John Hendrix Corporation - Elliot B-9 Battery # 2 & 3
#1R0484

Laarson & Associates, inc.
Environmental Consultants

MW-2 Boring & Completion Log

Released to Imaging: 3/12/2025 3:01:18 PM

Latitude N 32° 14' 43.30"
 Longitude W 103° 10' 27.62"
 TOC Elevation : 3427.04'

Well Completion Log

PID Response Log Plot
(parts per million)

Lithologic Well Log

Drilling started 6/29/2009, completed 6/29/2009.
 Drilled with Air Rotary by Ken Cooper Harrison & Cooper
 SP - Strong Brown (7.5YR 5/6) subround very fine sand with <10% silt
 SP/CA - Reddish Brown and White (5YR 5/4 to 5YR 8/1) bimodal very fine sand and caliche beds
 SM/CA - Pink (5YR 8/3) calcareous silty very fine sand about 15% fines

10' bgs

20' bgs

30' bgs

40' bgs

50' bgs

60' bgs

70' bgs

80' bgs

90' bgs

5" Borehole
 0' - 2' Concrete
 2" Sch 40 PVC
 CASING

~ 2' - 64'
 Bentonite

64' TOP OF SAND

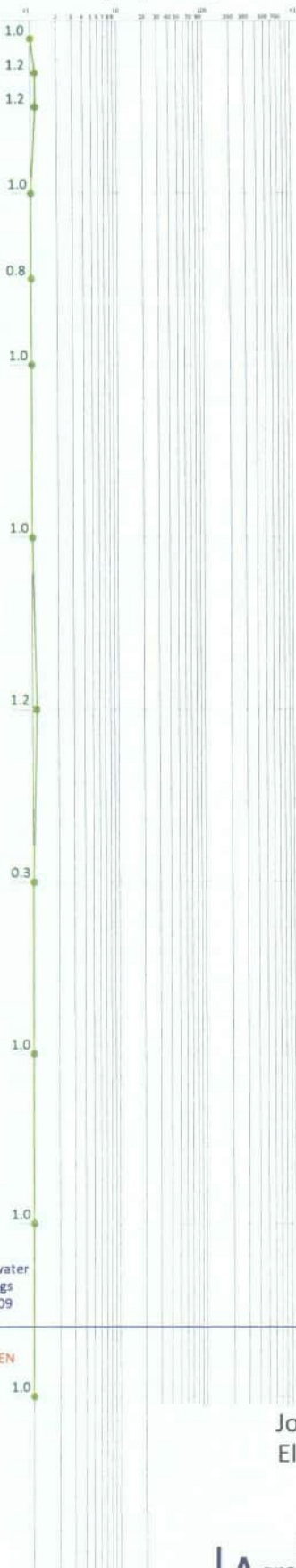
66' TOP OF SCREEN

20/40 Silica Sand
 Filter Pack

Groundwater
 ~76' bgs
 6/29/09

20' - 0.010 SLOTTED PVC SCREEN

CAP



SM - Reddish Yellow (5YR 6/6) silty very fine sand about 20% subangular sand

SM - Reddish Yellow (5YR 6/6) silty very fine sand about 20% subangular sand

SM/CA - Pink (5YR 8/3) silty about 15% subround very fine sand, carbonate indurated

SM/CA - Pink (5YR 8/3) silty about 15% subround very fine sand, carbonate indurated

SP - Reddish Yellow (5YR 6/6) rounded fine to medium sand, <2% fines

SP - Reddish Yellow (5YR 6/6) rounded fine to medium sand, <2% fines

SP - Reddish Yellow (5YR 6/6) rounded fine to medium sand, no fines

SP - Reddish Yellow (5YR 6/6) rounded fine to medium sand, no fines, moist sand

80' SP - Reddish Yellow (5YR 6/6) rounded fine to medium sand, no fines, moist sand

90' SP - Reddish Yellow (5YR 6/6) rounded fine to medium sand, no fines, moist sand

Total depth at 90'

John H. Hendrix Corporation
 Elliot Lease B-9 Battery #2,3
 U.L. D, (NE/4, NW/4)
 Sec. 9, T-22-S, R-37-E
 Lea County, New Mexico

Larson &
 Associates, Inc.
 Environmental Consultants

MW-3 Boring and Completion Log

William Green

From: Hansen, Edward J., EMNRD [edwardj.hansen@state.nm.us]
Sent: Monday, June 01, 2009 4:16 PM
To: cdoranhaynes@jhhc.org
Cc: Mark Larson; William Green; VonGonten, Glenn, EMNRD
Subject: RE: Workplans for 1R-483 and 1R-484, Elliot B-9 Tank Battery #1, #4 and #5, and Elliot B-9 Tank Battery #2 & #3, respectfully

Dear Ms. Haynes:

The New Mexico Oil Conservation Division (OCD) has received the groundwater monitoring wells installation workplan for the above-referenced John H. Hendrix Corp. sites, dated June 1, 2009, and has conducted a review of the plan. The workplan substantially meets the requirements of 19.15.29 NMAC. Therefore, the OCD hereby approves the workplan.

Please be advised that OCD approval of this workplan does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

Please keep in mind that additional wells may need to be installed to determine the full extent of the release.

If you have any questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

From: William Green [mailto:wgreen@laenvironmental.com]
Sent: Monday, June 01, 2009 1:25 PM
To: Hansen, Edward J., EMNRD
Cc: cdoranhaynes@jhhc.org; Mark Larson
Subject: Workplans for 1R-483 and 1R-484, Elliot B-9 Tank Battery #1, #4 and #5, and Elliot B-9 Tank Battery #2 & #3, respectfully

Dear Mr. Hansen,

Attached is a workplan to install monitor wells at the two referenced sites. If you have any questions please feel free to email me or call me at the phone numbers listed below. I will schedule a driller as soon as your approval is received.

Sincerely,

William D. Green, PG No. 136

Larson & Associates, Inc.
507 N. Marienfeld, Suite 200
Midland, Texas 79701



CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LARSON & ASSOCIATES, INC.
ATTN: MICHELLE GREEN
507 N. MARIEFELD, SUITE 200
MIDLAND, TX 79701

Receiving Date: 06/03/09
Reporting Date: 06/10/09
Project Number: 6-0104-02
Project Name: ELLIOTT B-9 #1, 4 & 5
Project Location: NOT GIVEN

Sampling Date: 06/03/09
Sample Type: GROUND WATER
Sample Condition: COOL & INTACT @ 4°C
Sample Received By: ML
Analyzed By: AB/HM

LAB NO.	SAMPLE ID	Cl ⁻ (mg/L)	SO ₄ (mg/L)	TDS (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)
Analysis Date:		06/05/09	06/09/09	06/08/09	06/09/09	06/09/09
H17548-1	MW-1	660	130	1,840	0	278
H17548-2	MW-2	56	79.0	492	0	288
Quality Control		490	42.7	NR	NR	988
True Value QC		500	40.0	NR	NR	1000
% Recovery		98.0	107	NR	NR	98.8
Relative Percent Difference		< 0.1	3.0	4.1	NR	1.2
METHOD: Standard Methods, EPA		4500-ClB	375.4	160.1	310.1	310.1

Chris Keene
Chemist

06/10/09
Date

H17548 Larson & Associates

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CARDINAL LABORATORIES

Page of

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CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

July 3, 2009

Michelle Green
Larson & Associates, Inc.
507 North Marienfeld, Suite 202
Midland, TX 79701

Re: Elliot B-9 Battery 1, 4, & 5

Enclosed are the results of analyses for sample number H17723, received by the laboratory on 06/30/09 at 2:20 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.




PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LARSON & ASSOCIATES, INC.
ATTN: MICHELLE GREEN
507 N. MARIENFELD, SUITE 202
MIDLAND, TX 79701

Receiving Date: 06/30/09
Reporting Date: 07/02/09
Project Number: 6-0104-02
Project Name: ELLIOTT B-9 BATTERY 1, 4 & 5
Project Location: ELLIOT B-9 BATTERY 1, 4, & 5

Sampling Date: 06/30/09
Sample Type: GROUND WATER
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: ML
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (mg/L)	TDS (mg/L)
Analysis Date:		07/01/09	07/01/09
H17723-1	MW-3	188	875
Quality Control		500	NR
True Value QC		500	NR
% Recovery		100	NR
Relative Percent Difference		< 0.1	<0.1
METHOD: Standard Methods, EPA		4500-Cl ⁻ B	160.1


Chemist

Date 07/13/09

H17723 Larson & Associates

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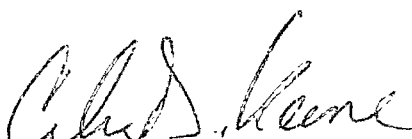
PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240


ANALYTICAL RESULTS FOR
 LARSON & ASSOCIATES, INC.
 ATTN: MICHELLE GREEN
 507 N. MARIEFELD, SUITE 200
 MIDLAND, TX 79701

Receiving Date: 06/03/09
 Reporting Date: 06/10/09
 Project Number: 6-0104-03
 Project Name: ELLIOTT B-9 #2 & 3
 Project Location: NOT GIVEN

Sampling Date: 06/03/09
 Sample Type: GROUND WATER
 Sample Condition: COOL & INTACT @ 2°C
 Sample Received By: ML
 Analyzed By: AB/HM

LAB NO.	SAMPLE ID	Cl ⁻ (mg/L)	SO ₄ (mg/L)	TDS (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)
Analysis Date:		06/05/09	06/09/09	06/08/09	06/09/09	06/09/09
H17546-1	MW-1	4,500	202	7,790	0	342
H17546-2	MW-2	204	188	892	0	259
Quality Control		490	42.7	NR	NR	988
True Value QC		500	40.0	NR	NR	1000
% Recovery		98.0	107	NR	NR	98.8
Relative Percent Difference		< 0.1	3.0	1.7	NR	1.2
METHOD: Standard Methods, EPA		4500-Cl ⁻ B	375.4	160.1	310.1	310.1


 Chemist


 Date

H17546 Larson & Associates

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

CARDINAL LABORATORIES

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(325) 673-7001 Fax (325) 673-7020 (505) 393-2326 Fax (505) 393-2476

Company Name: <u>Garson & Assoc</u>		BILL TO		ANALYSIS REQUEST																											
Project Manager: <u>Michelle Green</u>		P.O. #:																													
Address: <u>507 W. Thacker field Suite 200</u>		Company: <u>JHAC</u>																													
City: <u>Middland</u>		Attn: <u>Carolyn Hayden</u>																													
Phone #: <u>432-687-0901</u>		Address:																													
Project #: <u>6-0104-03</u>		City:																													
Project Name: <u>ELLROTH B-9 # 2 + 3</u>		State:																													
Project Location:		Phone #:																													
Sampler Name: <u>Don McInnis</u>		Fax #:																													
FOR LAB USE ONLY		PRESERV:		MATRIX		SAMPLING																									
Lab I.D.		Sample I.D.		# CONTAINERS		(G)RAB OR (C)OMP		WASTEWATER		GROUNDWATER		WASTEWATER		SOIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME		MST	
H17546-1		MW-1		1		✓																				6-3		1310			
-2		MW-2		1		✓																				6-3		1255			

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal. Legatures of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished: <u>Don McInnis</u>		Date: <u>6-3-09</u>		Received By: <u>Michelle Green</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By: <u>Don McInnis</u>		Time: <u>3:25</u>		Received By: <u>Michelle Green</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One)		Temp. <u>20C</u>		Sample Condition		CHECKED BY: <u>Michelle Green</u>		REMARKS:	
Sampler - UPS - Bus - Other:		Cool, Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cool, Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cool, Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cool, Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	

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PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

July 3, 2009

Michelle Green
Larson & Associates, Inc.
507 North Marienfeld, Suite 202
Midland, TX 79701

Re: Elliot B-9 Battery 2, 3

Enclosed are the results of analyses for sample number H17724, received by the laboratory on 06/30/09 at 2:20 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Receiving Date: 06/30/09
Reporting Date: 07/02/09
Project Number: 6-0104-03
Project Name: ELLIOTT B-9 BATTERY 2, 3
Project Location: ELLIOT B-9 BATTERY 2, 3

Sampling Date: 06/30/09
Sample Type: GROUND WATER
Sample Condition: COOL & INTACT @ 5°C
Sample Received By: ML
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (mg/L)	TDS (mg/L)
Analysis Date:		07/01/09	07/01/09
H17724-1	MW-3	100	622
Quality Control		500	NR
True Value QC		500	NR
% Recovery		100	NR
Relative Percent Difference		< 0.1	< 0.1
METHOD: Standard Methods, EPA		4500-Cl ⁻ B	160.1

Alfred Keene
Chemist

07/03/09

H17724 Larson & Associates

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Closure Documentation
Leak 149 | Lea County, New Mexico
September 13, 2024 | Terracon Project No. KH247005



APPENDIX D – PHOTOGRAPHIC LOG

Leak #149
10/2/2024

Lea County
NMOCD ID: nAPP2335429970



Photo 1

Point of release looking west



Photo 2

Excavation in progress around pipeline intersection 4'-8' bgs looking south

Leak #149
10/2/2024

Lea County
NMOCD ID: nAPP2335429970



Photo 3 Excavation in progress around pipeline intersection 0-16' bgs looking northeast

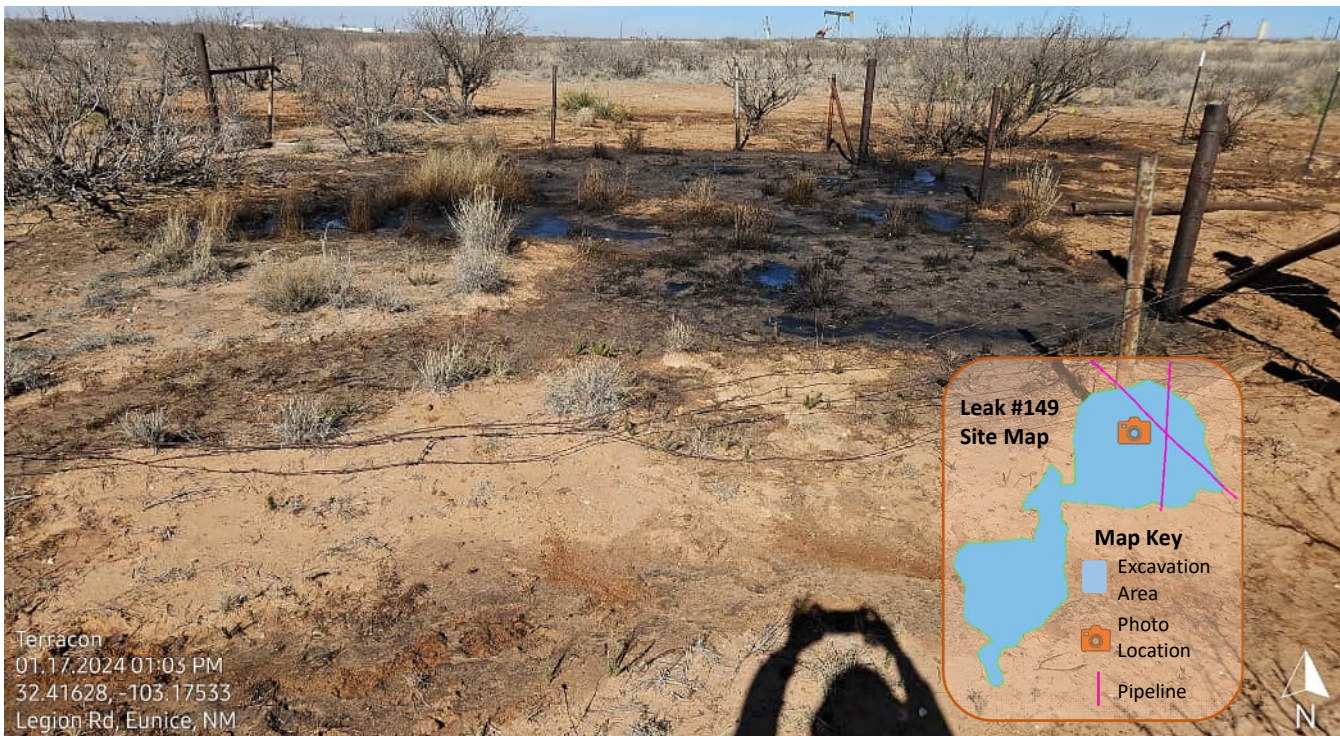


Photo 4 View of fenced off release area surface staining looking north

Leak #149
10/2/2024

Lea County
NMOCD ID: nAPP2335429970



Photo 5

View of Impacted soil 4' bgs looking north



Photo 6

View of Impacted soil 4' bgs (fence removed) looking south

Leak #149
10/2/2024

Lea County
NMOCD ID: nAPP2335429970



Photo 7 View of excavation in progress staining at 12' bgs looking northeast



Photo 8 View of S-SW-4 @ 4-20' bgs looking southwest

Leak #149
10/2/2024

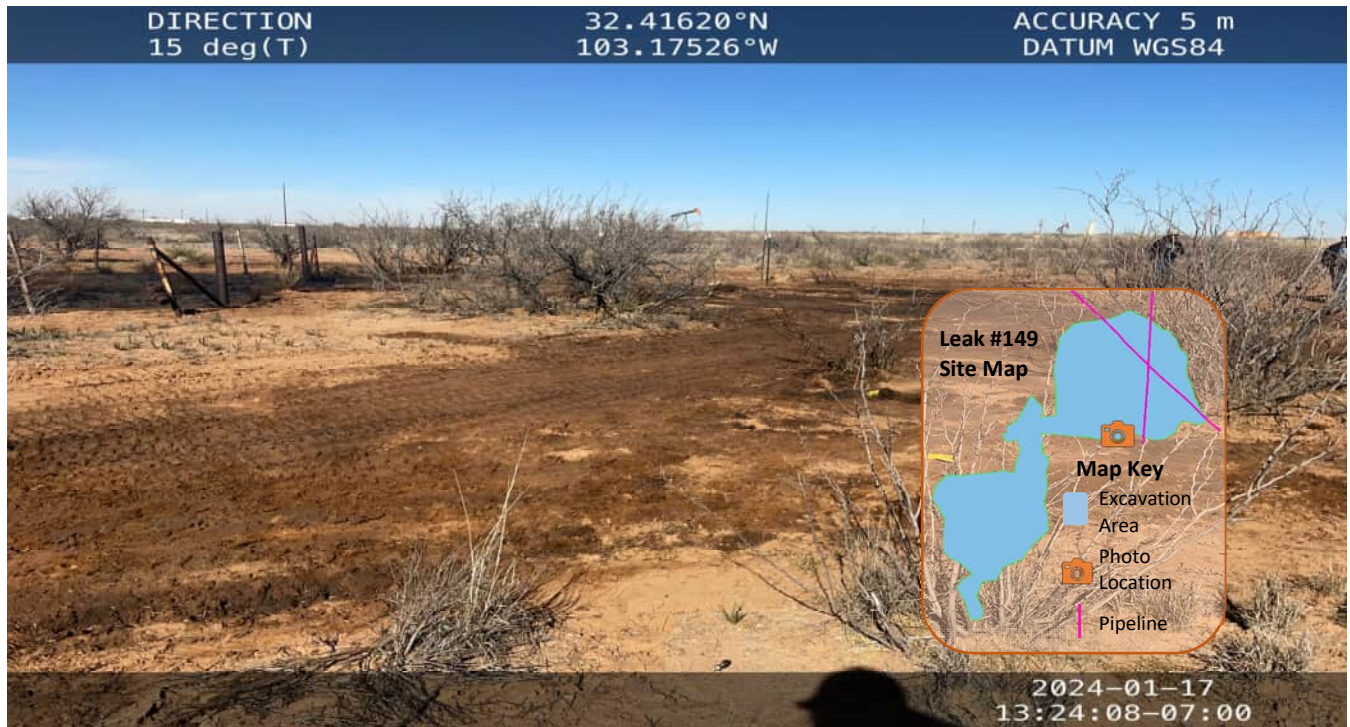
Lea County
NMOCD ID: nAPP2335429970



Terracon
Leak #149
07:25:2024 09:59 AM
32.4163, -103.17534 (±14ft)
Altitude: 3359ft
Legion Rd, Eunice, NM

Photo 9

View of N-SW-1 @ 8-20' bgs looking north



DIRECTION
15 deg(T)

32.41620°N
103.17526°W

ACCURACY 5 m
DATUM WGS84

2024-01-17
13:24:08-07:00

Photo 10

View of release on initial site visit looking north

Leak #149
10/2/2024

Lea County
NMOCD ID: nAPP2335429970



Photo 11

Excavation complete 4' bgs looking southeast



Photo 12

Excavation complete 4' bgs looking northwest

Leak #149
10/2/2024

Lea County
NMOCD ID: nAPP2335429970



Photo 13 Excavation complete southeast of pipeline intersection 4' bgs looking north



Photo 14 Surface staining near power line / Southern Area looking north

Leak #149
10/2/2024

Lea County
NMOCD ID: nAPP2335429970



Photo 15 Excavation in progress around powerline / Southern Area looking north



Photo 16 Excavation complete in southern area looking north



Photo 17

Excavation complete in southern area looking north

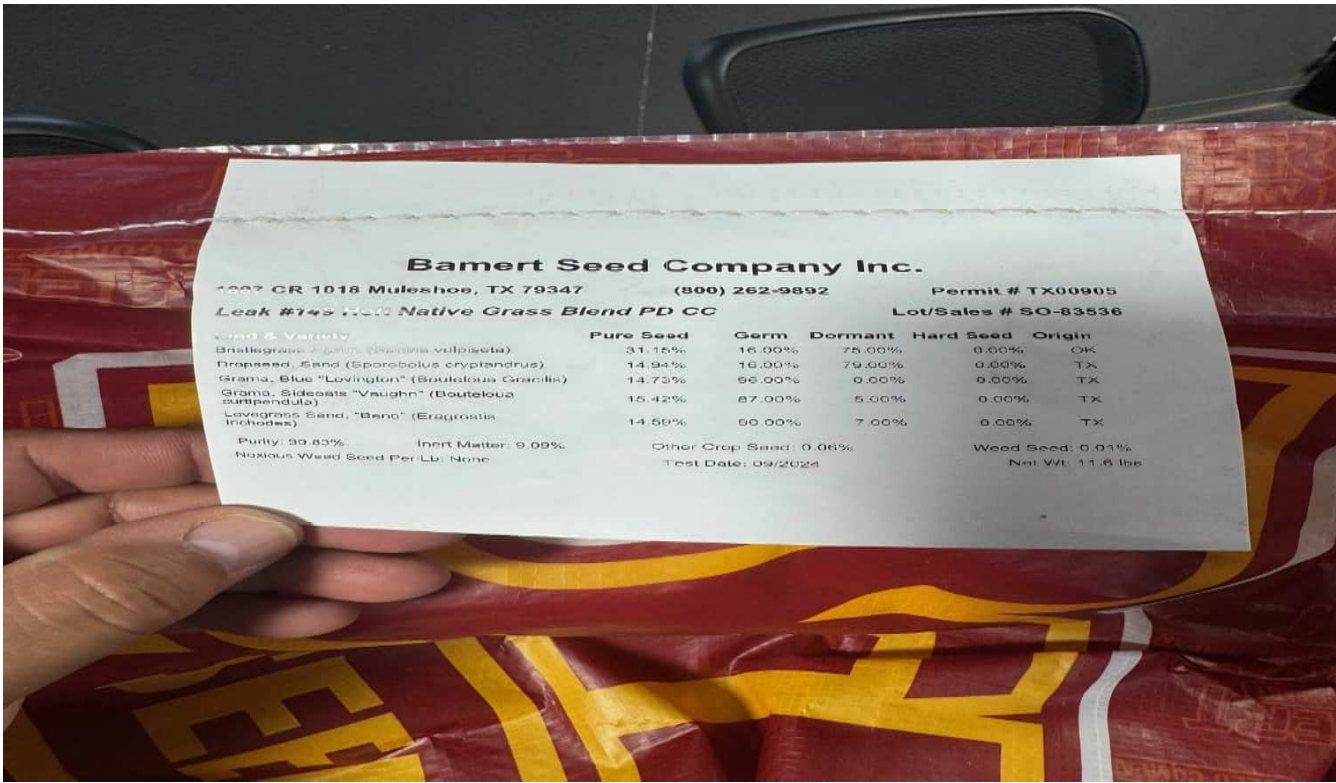


Photo 18

Seed mix



Photo 19

Disking of backfilled area in preperation for seeding



Photo 20

Disking of backfilled area in preperation for seeding



Photo 21

Hand broadcasting the backfilled area with seed



Photo 22

Hand broadcasting the backfilled area with seed



Photo 23

Watering the seeded raea



Photo 24

Watering the seeded area

Closure Documentation
Leak 149 | Lea County, New Mexico
September 13, 2024 | Terracon Project No. KH247005



APPENDIX E – ANALYTICAL REPORT AND CHAIN OF CUSTODY

Report to:
Gus Sanchez



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Terracon

Project Name: Leak #149

Work Order: E406050

Job Number: 21102-0001

Received: 6/6/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/14/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/14/24

Gus Sanchez
4518 W. Pierce St
Carlsbad, NM 87401



Project Name: Leak #149
Workorder: E406050
Date Received: 6/6/2024 9:00:56AM

Gus Sanchez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/6/2024 9:00:56AM, under the Project Name: Leak #149.

The analytical test results summarized in this report with the Project Name: Leak #149 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Chain of Custody etc.

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Sample Summary

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	06/14/24 10:14

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS-49 5-5	E406050-01A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-50 5-5	E406050-02A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-51 5-5	E406050-03A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-52 6-6	E406050-04A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-53 5-5	E406050-05A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-54 5-5	E406050-06A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-55 5-5	E406050-07A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-56 5-5	E406050-08A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-57 5-5	E406050-09A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-58 5-5	E406050-10A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-59 5-5	E406050-11A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-60 5-5	E406050-12A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-61 6-6	E406050-13A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-62 6-6	E406050-14A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.

Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
6/14/2024 10:14:45AM

FS-49 5-5

E406050-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423110
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	06/06/24	06/13/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.6 %	70-130	06/06/24	06/13/24	
<i>Surrogate: Toluene-d8</i>		98.7 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423110
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	06/06/24	06/13/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.6 %	70-130	06/06/24	06/13/24	
<i>Surrogate: Toluene-d8</i>		98.7 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424032
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/12/24	
<i>Surrogate: n-Nonane</i>		109 %	50-200	06/11/24	06/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424045
Chloride	ND	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
6/14/2024 10:14:45AM

FS-50 5-5

E406050-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423110
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		98.4 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423110
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		98.4 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424032
Diesel Range Organics (C10-C28)	28.0	25.0	1	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/12/24	
Surrogate: n-Nonane		112 %	50-200	06/11/24	06/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424045
Chloride	ND	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
6/14/2024 10:14:45AM

FS-51 5-5

E406050-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423110
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		100 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423110
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		100 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424032
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/12/24	
Surrogate: n-Nonane		109 %	50-200	06/11/24	06/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424045
Chloride	ND	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 10:14:45AM

FS-52 6-6

E406050-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423110	
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene	89.9 %	70-130		06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		06/06/24	06/13/24	
Surrogate: Toluene-d8	93.1 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene	89.9 %	70-130		06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		06/06/24	06/13/24	
Surrogate: Toluene-d8	93.1 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2424032	
Diesel Range Organics (C10-C28)	32.3	25.0	1	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/12/24	
Surrogate: n-Nonane	107 %	50-200		06/11/24	06/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2424045	
Chloride	ND	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 10:14:45AM

FS-53 5-5

E406050-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423110
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		98.2 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423110
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		98.2 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424032
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/12/24	
Surrogate: n-Nonane		108 %	50-200	06/11/24	06/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424045
Chloride	ND	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
6/14/2024 10:14:45AM

FS-54 5-5

E406050-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423110
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		98.8 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423110
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		98.8 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424032
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/12/24	
Surrogate: n-Nonane		109 %	50-200	06/11/24	06/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424045
Chloride	ND	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 10:14:45AM

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E406050-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423110
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		99.5 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423110
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		99.5 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424032
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/12/24	
Surrogate: n-Nonane		105 %	50-200	06/11/24	06/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424045
Chloride	ND	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
6/14/2024 10:14:45AM

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E406050-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423110
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		98.2 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423110
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		98.2 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424032
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/12/24	
Surrogate: n-Nonane		104 %	50-200	06/11/24	06/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424045
Chloride	ND	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
6/14/2024 10:14:45AM

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E406050-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423110
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		101 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423110
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		101 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424032
Diesel Range Organics (C10-C28)	46.9	25.0	1	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/12/24	
Surrogate: n-Nonane		111 %	50-200	06/11/24	06/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424045
Chloride	107	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 6/14/2024 10:14:45AM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

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E406050-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423110	
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		98.1 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		98.1 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2424032	
Diesel Range Organics (C10-C28)	255	250	10	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	ND	500	10	06/11/24	06/12/24	
Surrogate: n-Nonane		103 %	50-200	06/11/24	06/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2424045	
Chloride	647	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 10:14:45AM

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E406050-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423110	
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		06/06/24	06/13/24	
Surrogate: Toluene-d8	98.4 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		06/06/24	06/13/24	
Surrogate: Toluene-d8	98.4 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2424032	
Diesel Range Organics (C10-C28)	222	25.0	1	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	198	50.0	1	06/11/24	06/12/24	
Surrogate: n-Nonane	108 %	50-200		06/11/24	06/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2424045	
Chloride	707	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 6/14/2024 10:14:45AM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

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E406050-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423110	
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		98.1 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		98.1 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2424032	
Diesel Range Organics (C10-C28)	172	25.0	1	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	161	50.0	1	06/11/24	06/12/24	
Surrogate: n-Nonane		111 %	50-200	06/11/24	06/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2424045	
Chloride	667	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 6/14/2024 10:14:45AM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

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E406050-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423110	
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		100 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		98.3 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene		100 %	70-130	06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	06/06/24	06/13/24	
Surrogate: Toluene-d8		98.3 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2424032	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/12/24	
Surrogate: n-Nonane		111 %	50-200	06/11/24	06/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2424045	
Chloride	81.4	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 6/14/2024 10:14:45AM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

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E406050-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423110	
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene	99.9 %	70-130		06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		06/06/24	06/13/24	
Surrogate: Toluene-d8	98.6 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: Bromofluorobenzene	99.9 %	70-130		06/06/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		06/06/24	06/13/24	
Surrogate: Toluene-d8	98.6 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2424032	
Diesel Range Organics (C10-C28)	36.6	25.0	1	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/12/24	
Surrogate: n-Nonane	111 %	50-200		06/11/24	06/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2424045	
Chloride	40.4	20.0	1	06/11/24	06/13/24	



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 10:14:45AM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2423110-BLK1) Prepared: 06/06/24 Analyzed: 06/13/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.457		0.500		91.4	70-130			

LCS (2423110-BS1) Prepared: 06/06/24 Analyzed: 06/13/24

Benzene	2.35	0.0250	2.50		93.8	70-130			
Ethylbenzene	2.41	0.0250	2.50		96.4	70-130			
Toluene	2.27	0.0250	2.50		91.0	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	5.20	0.0500	5.00		104	70-130			
Total Xylenes	7.78	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.470		0.500		94.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.472		0.500		94.4	70-130			

Matrix Spike (2423110-MS1) Source: E406050-04 Prepared: 06/06/24 Analyzed: 06/13/24

Benzene	2.40	0.0250	2.50	ND	96.1	48-131			
Ethylbenzene	2.45	0.0250	2.50	ND	98.0	45-135			
Toluene	2.32	0.0250	2.50	ND	92.9	48-130			
o-Xylene	2.56	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.11	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.66	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.466		0.500		93.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.469		0.500		93.8	70-130			

Matrix Spike Dup (2423110-MSD1) Source: E406050-04 Prepared: 06/06/24 Analyzed: 06/13/24

Benzene	2.51	0.0250	2.50	ND	100	48-131	4.22	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	3.53	27	
Toluene	2.38	0.0250	2.50	ND	95.0	48-130	2.19	24	
o-Xylene	2.64	0.0250	2.50	ND	106	43-135	3.25	27	
p,m-Xylene	5.28	0.0500	5.00	ND	106	43-135	3.27	27	
Total Xylenes	7.92	0.0250	7.50	ND	106	43-135	3.27	27	
Surrogate: Bromofluorobenzene	0.457		0.500		91.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.457		0.500		91.3	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 10:14:45AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423110-BLK1) Prepared: 06/06/24 Analyzed: 06/13/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.457		0.500		91.4	70-130			

LCS (2423110-BS2) Prepared: 06/06/24 Analyzed: 06/13/24

Gasoline Range Organics (C6-C10)	35.3	20.0	50.0		70.7	70-130			
Surrogate: Bromofluorobenzene	0.477		0.500		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.469		0.500		93.8	70-130			

Matrix Spike (2423110-MS2) Source: E406050-04 Prepared: 06/06/24 Analyzed: 06/13/24

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.4	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

Matrix Spike Dup (2423110-MSD2) Source: E406050-04 Prepared: 06/06/24 Analyzed: 06/13/24

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0	ND	96.9	70-130	4.79	20	
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 10:14:45AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424032-BLK1) Prepared: 06/11/24 Analyzed: 06/12/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.3		50.0		111	50-200			

LCS (2424032-BS1) Prepared: 06/11/24 Analyzed: 06/12/24

Diesel Range Organics (C10-C28)	281	25.0	250		113	38-132			
Surrogate: n-Nonane	55.2		50.0		110	50-200			

Matrix Spike (2424032-MS1) Source: E406050-04 Prepared: 06/11/24 Analyzed: 06/12/24

Diesel Range Organics (C10-C28)	297	25.0	250	32.3	106	38-132			
Surrogate: n-Nonane	55.7		50.0		111	50-200			

Matrix Spike Dup (2424032-MSD1) Source: E406050-04 Prepared: 06/11/24 Analyzed: 06/12/24

Diesel Range Organics (C10-C28)	297	25.0	250	32.3	106	38-132	0.0425	20	
Surrogate: n-Nonane	52.9		50.0		106	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 10:14:45AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424045-BLK1)					Prepared: 06/11/24 Analyzed: 06/13/24				
Chloride	ND	20.0							
LCS (2424045-BS1)					Prepared: 06/11/24 Analyzed: 06/13/24				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2424045-MS1)					Source: E406050-10		Prepared: 06/11/24 Analyzed: 06/13/24		
Chloride	897	20.0	250	647	100	80-120			
Matrix Spike Dup (2424045-MSD1)					Source: E406050-10		Prepared: 06/11/24 Analyzed: 06/13/24		
Chloride	892	20.0	250	647	98.2	80-120	0.545	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	06/14/24 10:14

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Received by OCD: 11/1/2024 10:22:52 AM

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Envirotech Analytical Laboratory

Printed: 6/6/2024 6:14:29PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Terracon	Date Received:	06/06/24 09:00	Work Order ID:	E406050
Phone:	(806) 544-9276	Date Logged In:	06/05/24 20:42	Logged In By:	Alexa Michaels
Email:		Due Date:	06/13/24 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Couier**Comments/Resolution**

Due to high sample volume project Leak #149 has been separated into multiple WO E406049 and E406051.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Gus Sanchez



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Terracon

Project Name: Leak #149

Work Order: E406051

Job Number: 21102-0001

Received: 6/6/2024

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/20/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/20/24

Gus Sanchez
4518 W. Pierce St
Carlsbad, NM 87401



Project Name: Leak #149
Workorder: E406051
Date Received: 6/6/2024 9:00:56AM

Gus Sanchez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/6/2024 9:00:56AM, under the Project Name: Leak #149.

The analytical test results summarized in this report with the Project Name: Leak #149 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
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Chain of Custody etc.

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Sample Summary

Terracon	Project Name:	Leak #149	Reported: 08/20/24 15:16
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
N-SW-3 0-4	E406051-01A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
N-SW-3 4-6	E406051-02A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
W-SW-2 0-4	E406051-03A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
W-SW-2 4-5	E406051-04A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
W-SW-3 0-4	E406051-05A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
W-SW-3 4-6	E406051-06A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
S-SW-4 0-4	E406051-07A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
S-SW-4 4-6	E406051-08A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
E-SW-3 0-4	E406051-09A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
E-SW-3 4-6	E406051-10A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
E-SW-2 0-4	E406051-11A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
E-SW-2 4-6	E406051-12A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
S-SW-3 0-4	E406051-13A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
S-SW-3 4-5	E406051-14A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	8/20/2024 3:16:49PM

N-SW-3 0-4
E406051-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Benzene	ND	0.0250	1	06/06/24	06/11/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/11/24	
Toluene	ND	0.0250	1	06/06/24	06/11/24	
o-Xylene	ND	0.0250	1	06/06/24	06/11/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/11/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/11/24	
Surrogate: 4-Bromochlorobenzene-PID	91.2 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.0 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424037	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
Surrogate: n-Nonane	90.7 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424046	
Chloride	ND	20.0	1	06/11/24	06/12/24	

Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
8/20/2024 3:16:49PM

N-SW-3 4-6

E406051-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2423112
Benzene	ND	0.0250	1	06/06/24	06/11/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/11/24	
Toluene	ND	0.0250	1	06/06/24	06/11/24	
o-Xylene	ND	0.0250	1	06/06/24	06/11/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/11/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.7 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2423112
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.2 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424037
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
<i>Surrogate: n-Nonane</i>						
	88.5 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424046
Chloride	150	20.0	1	06/11/24	06/12/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
8/20/2024 3:16:49PM

W-SW-2 0-4

E406051-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Benzene	ND	0.0250	1	06/06/24	06/11/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/11/24	
Toluene	ND	0.0250	1	06/06/24	06/11/24	
o-Xylene	ND	0.0250	1	06/06/24	06/11/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/11/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.7 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.7 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2424037	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2424046	
Chloride	ND	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
8/20/2024 3:16:49PM

W-SW-2 4-5

E406051-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2423112
Benzene	ND	0.0250	1	06/06/24	06/11/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/11/24	
Toluene	ND	0.0250	1	06/06/24	06/11/24	
o-Xylene	ND	0.0250	1	06/06/24	06/11/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/11/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.6 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2423112
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.5 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424037
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424046
Chloride	ND	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 8/20/2024 3:16:49PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

W-SW-3 0-4
E406051-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Benzene	ND	0.0250	1	06/06/24	06/11/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/11/24	
Toluene	ND	0.0250	1	06/06/24	06/11/24	
o-Xylene	ND	0.0250	1	06/06/24	06/11/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/11/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/11/24	
Surrogate: 4-Bromochlorobenzene-PID	90.7 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.0 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424037	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
Surrogate: n-Nonane	93.7 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424046	
Chloride	30.8	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 8/20/2024 3:16:49PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

W-SW-3 4-6
E406051-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Benzene	ND	0.0250	1	06/06/24	06/11/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/11/24	
Toluene	ND	0.0250	1	06/06/24	06/11/24	
o-Xylene	ND	0.0250	1	06/06/24	06/11/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/11/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.6 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.0 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424037	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424046	
Chloride	ND	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
8/20/2024 3:16:49PM

S-SW-4 0-4

E406051-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Benzene	ND	0.0250	1	06/06/24	06/11/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/11/24	
Toluene	ND	0.0250	1	06/06/24	06/11/24	
o-Xylene	ND	0.0250	1	06/06/24	06/11/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/11/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.8 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2424037	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2424046	
Chloride	20.1	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 8/20/2024 3:16:49PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

S-SW-4 4-6
E406051-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Benzene	ND	0.0250	1	06/06/24	06/11/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/11/24	
Toluene	ND	0.0250	1	06/06/24	06/11/24	
o-Xylene	ND	0.0250	1	06/06/24	06/11/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/11/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/11/24	
Surrogate: 4-Bromochlorobenzene-PID	92.9 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.9 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424037	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
Surrogate: n-Nonane	107 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424046	
Chloride	48.8	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 8/20/2024 3:16:49PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

E-SW-3 0-4
E406051-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Benzene	ND	0.0250	1	06/06/24	06/11/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/11/24	
Toluene	ND	0.0250	1	06/06/24	06/11/24	
o-Xylene	ND	0.0250	1	06/06/24	06/11/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/11/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.0 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.3 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2424037	
Diesel Range Organics (C10-C28)	59.1	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2424046	
Chloride	61.6	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 8/20/2024 3:16:49PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

E-SW-3 4-6
E406051-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Benzene	ND	0.0250	1	06/06/24	06/11/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/11/24	
Toluene	ND	0.0250	1	06/06/24	06/11/24	
o-Xylene	ND	0.0250	1	06/06/24	06/11/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/11/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.9 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.6 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424037	
Diesel Range Organics (C10-C28)	76.7	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424046	
Chloride	296	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 8/20/2024 3:16:49PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

E-SW-2 0-4
E406051-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Benzene	ND	0.0250	1	06/06/24	06/11/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/11/24	
Toluene	ND	0.0250	1	06/06/24	06/11/24	
o-Xylene	ND	0.0250	1	06/06/24	06/11/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/11/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/11/24	
Surrogate: 4-Bromochlorobenzene-PID	91.8 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.3 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424037	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
Surrogate: n-Nonane	104 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424046	
Chloride	40.1	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 8/20/2024 3:16:49PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

E-SW-2 4-6
E406051-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Benzene	ND	0.0250	1	06/06/24	06/11/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/11/24	
Toluene	ND	0.0250	1	06/06/24	06/11/24	
o-Xylene	ND	0.0250	1	06/06/24	06/11/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/11/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.6 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.6 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424037	
Diesel Range Organics (C10-C28)	35.9	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424046	
Chloride	69.8	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
8/20/2024 3:16:49PM

S-SW-3 0-4**E406051-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2423112
Benzene	ND	0.0250	1	06/06/24	06/11/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/11/24	
Toluene	ND	0.0250	1	06/06/24	06/11/24	
o-Xylene	ND	0.0250	1	06/06/24	06/11/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/11/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.4 %	70-130	06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2423112
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.3 %	70-130	06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424037
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
<i>Surrogate: n-Nonane</i>						
		82.5 %	50-200	06/11/24	06/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424046
Chloride	ND	20.0	1	06/11/24	06/13/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 8/20/2024 3:16:49PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

S-SW-3 4-5
E406051-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Benzene	ND	0.0250	1	06/06/24	06/11/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/11/24	
Toluene	ND	0.0250	1	06/06/24	06/11/24	
o-Xylene	ND	0.0250	1	06/06/24	06/11/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/11/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/11/24	
Surrogate: 4-Bromochlorobenzene-PID	91.6 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.0 %	70-130		06/06/24	06/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424037	
Diesel Range Organics (C10-C28)	62.5	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
Surrogate: n-Nonane	97.1 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424046	
Chloride	24.3	20.0	1	06/11/24	06/13/24	



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	8/20/2024 3:16:49PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423112-BLK1) Prepared: 06/06/24 Analyzed: 06/10/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.15		8.00		89.4	70-130			

LCS (2423112-BS1) Prepared: 06/06/24 Analyzed: 06/10/24

Benzene	4.63	0.0250	5.00		92.5	70-130			
Ethylbenzene	4.60	0.0250	5.00		91.9	70-130			
Toluene	4.66	0.0250	5.00		93.3	70-130			
o-Xylene	4.57	0.0250	5.00		91.3	70-130			
p,m-Xylene	9.31	0.0500	10.0		93.1	70-130			
Total Xylenes	13.9	0.0250	15.0		92.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.19		8.00		89.9	70-130			

Matrix Spike (2423112-MS1) Source: E406051-03 Prepared: 06/06/24 Analyzed: 06/11/24

Benzene	4.54	0.0250	5.00	ND	90.7	54-133			
Ethylbenzene	4.51	0.0250	5.00	ND	90.2	61-133			
Toluene	4.57	0.0250	5.00	ND	91.5	61-130			
o-Xylene	4.49	0.0250	5.00	ND	89.8	63-131			
p,m-Xylene	9.13	0.0500	10.0	ND	91.3	63-131			
Total Xylenes	13.6	0.0250	15.0	ND	90.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.21		8.00		90.1	70-130			

Matrix Spike Dup (2423112-MSD1) Source: E406051-03 Prepared: 06/06/24 Analyzed: 06/11/24

Benzene	4.62	0.0250	5.00	ND	92.3	54-133	1.76	20	
Ethylbenzene	4.61	0.0250	5.00	ND	92.2	61-133	2.20	20	
Toluene	4.67	0.0250	5.00	ND	93.3	61-130	2.03	20	
o-Xylene	4.58	0.0250	5.00	ND	91.7	63-131	2.05	20	
p,m-Xylene	9.35	0.0500	10.0	ND	93.5	63-131	2.31	20	
Total Xylenes	13.9	0.0250	15.0	ND	92.9	63-131	2.23	20	
Surrogate: 4-Bromochlorobenzene-PID	7.20		8.00		90.0	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	8/20/2024 3:16:49PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423112-BLK1) Prepared: 06/06/24 Analyzed: 06/10/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			

LCS (2423112-BS2) Prepared: 06/06/24 Analyzed: 06/10/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130			

Matrix Spike (2423112-MS2) Source: E406051-03 Prepared: 06/06/24 Analyzed: 06/11/24

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.96		8.00		99.5	70-130			

Matrix Spike Dup (2423112-MSD2) Source: E406051-03 Prepared: 06/06/24 Analyzed: 06/11/24

Gasoline Range Organics (C6-C10)	49.3	20.0	50.0	ND	98.6	70-130	2.96	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		8.00		99.0	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	8/20/2024 3:16:49PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424037-BLK1) Prepared: 06/11/24 Analyzed: 06/14/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.2		50.0		102	50-200			

LCS (2424037-BS1) Prepared: 06/11/24 Analyzed: 06/14/24

Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	51.6		50.0		103	50-200			

Matrix Spike (2424037-MS1) Source: E406051-09 Prepared: 06/11/24 Analyzed: 06/14/24

Diesel Range Organics (C10-C28)	337	25.0	250	59.1	111	38-132			
Surrogate: n-Nonane	52.1		50.0		104	50-200			

Matrix Spike Dup (2424037-MSD1) Source: E406051-09 Prepared: 06/11/24 Analyzed: 06/14/24

Diesel Range Organics (C10-C28)	351	25.0	250	59.1	117	38-132	3.96	20	
Surrogate: n-Nonane	52.3		50.0		105	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	8/20/2024 3:16:49PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2424046-BLK1)					Prepared: 06/11/24 Analyzed: 06/12/24				
Chloride	ND	20.0							
LCS (2424046-BS1)					Prepared: 06/11/24 Analyzed: 06/12/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2424046-MS1)					Source: E406051-01		Prepared: 06/11/24 Analyzed: 06/12/24		
Chloride	261	20.0	250	ND	104	80-120			
Matrix Spike Dup (2424046-MSD1)					Source: E406051-01		Prepared: 06/11/24 Analyzed: 06/12/24		
Chloride	259	20.0	250	ND	104	80-120	0.744	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	08/20/24 15:16

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



CHAIN OF CUSTODY RECORD

Page 3 of 3



Office Location 4526 W. Pierce St Carlsbad NM, 88220

Project Manager Joseph Guesnier

Sampler's Name Gus Sanchez

Laboratory: E406051

Address: Job# 21102-0001

Phone:

Contact:

SRS #:

Sampler's Signature [Signature]

ANALYSIS REQUEST

LAB USE ONLY DUE DATE:

Project Number KH247005

Project Name Leak #149

No. Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml Poly	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)
S	6/3/2024	8:58	X		N-SW-2			X			X	X	X
S	6/3/2024	8:59	X		N-SW-2			X			X	X	X
S	6/3/2024	9:09	X		W-SW-2			X			X	X	X
S	6/3/2024	9:06	X		W-SW-2			X			X	X	X
S	6/3/2024	9:04	X		W-SW-3			X			X	X	X
S	6/3/2024	9:12	X		W-SW-3			X			X	X	X
S	6/3/2024	9:15	X		S-SW-4			X			X	X	X
S	6/3/2024	9:18	X		S-SW-4			X			X	X	X
S	6/3/2024	9:21	X		E-SW-3			X			X	X	X
S	6/3/2024	9:24	X		E-SW-3			X			X	X	X
S	6/3/2024	9:28	X		E-SW-2			X			X	X	X
S	6/3/2024	9:31	X		E-SW-2			X			X	X	X
S	6/3/2024	9:34	X		S-SW-3			X			X	X	X
S	6/3/2024	9:37	X		S-SW-3			X			X	X	X

-N-SW-2-805-2-2024

TURNAROUND TIME ☒ Normal ☐ 48-Hour Rush ☐ 24-Hour Rush TRRP Laboratory Review Checklist ☐ Yes ☐ No

Relinquished by (Signature) [Signature]	Date: 6-4-24	Time: 5:10	Received by (Signature) Michelle Gonzales	Date: 6-4-24	Time: 1710	Bill To: Targa
Relinquished by (Signature) Michelle Gonzales	Date: 6-5-24	Time: 1650	Received by (Signature) [Signature]	Date: 6-5-24	Time: 1650	Att: Amber Groves
Relinquished by (Signature) [Signature]	Date: 6-5-24	Time: 2400	Received by (Signature) [Signature]	Date: 6-6-24	Time: 900	

TEMP OF COOLER
WHEN RECEIVED (oC)

Matrix WW-Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal tube SL - Sludge

Container VOA - 40 ml vial A/G - Amber C 250 ml = Glass wide mouth P/O - Plastic or other

e-mail results to:

joseph.guesnier@terracon.com

travis.casey@terracon.com

mike.adams@terracon.com

beckysue.miller@terracon.com

gus.sanchez@terracon.com

chuck.smith@terracon.com

Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140

Envirotech Analytical Laboratory

Printed: 6/6/2024 6:14:36PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Terracon	Date Received: 06/06/24 09:00	Work Order ID: E406051
Phone: (806) 544-9276	Date Logged In: 06/05/24 20:44	Logged In By: Alexa Michaels
Email:	Due Date: 06/13/24 17:00 (5 day TAT)	

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Couier**Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction**Comments/Resolution**

Due to high sample volume project Leak #149 has been separated into multiple WO E406049 and E406051.

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

CHAIN OF CUSTODY RECORD

Page 3 of 3

Terracon Explore with us				Laboratory: E404051 Address: 10101 21102-0001 Phone: Contact: SRS #: Sampler's Signature: <i>[Signature]</i>				ANALYSIS REQUEST				LAB USE ONLY/DUE DATE:			
Office Location 4526 W. Pierce St Carlsbad NM, 88220				Project Manager Joseph Guesnier Sampler's Name Gus Sanchez											
Project Number KH247005		Project Name Leak #149		Identifying Marks of Sample(s)		No. Type of Containers		Chloride (EPA Method 300)		TPH Extended 8015		BTX (EPA Method 8021B)		Lab Sample ID	
Matrix	Date	Time	Comp	Grab	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml Poly						
S	6/3/2024	8:58	X		N-SW-2 -3	0	X		X	X	X	X		1	Sample ID changes per G. Sanchez
S	6/3/2024	8:59	X		N-SW-2	4	X		X	X	X	X		2	10/12/24 day
S	6/3/2024	9:09	X		W-SW-2	4	X		X	X	X	X		3	Depth Bubbles per G. Sanchez
S	6/3/2024	9:06	X		W-SW-2	4	X		X	X	X	X		4	10/12/24 day
S	6/3/2024	9:04	X		W-SW-3	4	X		X	X	X	X		5	Depth Bubbles per G. Sanchez
S	6/3/2024	9:12	X		W-SW-3	4	X		X	X	X	X		6	10/12/24 day
S	6/3/2024	9:15	X		W-SW-4	4	X		X	X	X	X		7	10/12/24 day
S	6/3/2024	9:18	X		W-SW-4	4	X		X	X	X	X		8	10/12/24 day
S	6/3/2024	9:21	X		E-SW-3	4	X		X	X	X	X		9	10/12/24 day
S	6/3/2024	9:24	X		E-SW-3	4	X		X	X	X	X		10	10/12/24 day
S	6/3/2024	9:28	X		E-SW-2	4	X		X	X	X	X		11	10/12/24 day
S	6/3/2024	9:31	X		E-SW-2	4	X		X	X	X	X		12	10/12/24 day
S	6/3/2024	9:34	X		S-SW-3	4	X		X	X	X	X		13	10/12/24 day
S	6/3/2024	9:37	X		S-SW-3	4	X		X	X	X	X		14	10/12/24 day
TURNAROUND TIME <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 48-Hour Rush <input type="checkbox"/> 24-Hour Rush <input type="checkbox"/> TRRP Laboratory Review Checklist <input type="checkbox"/> Yes <input type="checkbox"/> No															
Relinquished by (Signature)		Date: 6-4-24		Time: 5:10		Received by (Signature)		Date: 6-4-24		Time: 17:10		Targa			
Relinquished by (Signature)		Date: 6-5-24		Time: 16:50		Received by (Signature)		Date: 6-5-24		Time: 16:50		Att: Amber Groves			
Relinquished by (Signature)		Date: 6-5-24		Time: 2:00		Received by (Signature)		Date: 6-5-24		Time: 9:00					
TEMP OF COOLER															
WHEN RECEIVED (OC)															
Matrix WW-Wastewater W-Water S-Soil L-Liquid A-Air Bag C-Charcoal tube SL-Sludge															
Container VOA - 40 ml vial A/G - Amber C 250 ml = Glass wide mouth P/O - Plastic or other															
Lubbock Office # 5827 50th Street, Suite 1 # Lubbock, Texas 79424 # 806-300-0140															
e-mail results to: joseph.guesnier@terracon.com travis.casey@terracon.com mike.adams@terracon.com beckysue.miller@terracon.com gus.sanchez@terracon.com chuck.smith@terracon.com															

Report to:

Joseph Guesnier



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Terracon

Project Name: Leak #149

Work Order: E407012

Job Number: 21102-0001

Received: 7/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/10/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/10/24

Joseph Guesnier
4518 W. Pierce St
Carlsbad, NM 87401



Project Name: Leak #149
Workorder: E407012
Date Received: 7/3/2024 10:00:00AM

Joseph Guesnier,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/3/2024 10:00:00AM, under the Project Name: Leak #149.

The analytical test results summarized in this report with the Project Name: Leak #149 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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Sample Summary

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	07/10/24 11:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS19 4-4	E407012-01A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS20 4-4	E407012-02A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS21 4-4	E407012-03A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS22 4-4	E407012-04A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS23 4-4	E407012-05A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS24 4-4	E407012-06A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS25 4-4	E407012-07A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS26 4-4	E407012-08A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS32 6-6	E407012-09A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS63 8-8	E407012-10A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS64 4-4	E407012-11A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS65 8-8	E407012-12A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS66 4-4	E407012-13A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS67 12-12	E407012-14A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS68 12-12	E407012-15A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS69 13-13	E407012-16A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS70 16-16	E407012-17A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS71 4-4	E407012-18A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS72 12-12	E407012-19A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS73 16-16	E407012-20A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS74 16-16	E407012-21A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS75 16-16	E407012-22A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 11:48:16AM

FS19 4-4

E407012-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2427029
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2427029
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2427037
Diesel Range Organics (C10-C28)	2540	250	10	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	1460	500	10	07/03/24	07/04/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2427045
Chloride	69.2	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 11:48:16AM

FS20 4-4

E407012-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427029
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427029
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		107 %	70-130	07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427037
Diesel Range Organics (C10-C28)	136	50.0	2	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	180	100	2	07/03/24	07/04/24	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	07/03/24	07/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2427045
Chloride	411	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

FS21 4-4

E407012-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
Surrogate: 4-Bromochlorobenzene-PID	96.1 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427037	
Diesel Range Organics (C10-C28)	469	50.0	2	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	674	100	2	07/03/24	07/04/24	
Surrogate: n-Nonane	111 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427045	
Chloride	78.3	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

FS22 4-4

E407012-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
Surrogate: 4-Bromochlorobenzene-PID	96.3 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427037	
Diesel Range Organics (C10-C28)	236	50.0	2	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	259	100	2	07/03/24	07/04/24	
Surrogate: n-Nonane	103 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427045	
Chloride	300	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

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E407012-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
Surrogate: 4-Bromochlorobenzene-PID	96.6 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427037	
Diesel Range Organics (C10-C28)	2200	250	10	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	1710	500	10	07/03/24	07/04/24	
Surrogate: n-Nonane	109 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427045	
Chloride	259	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 11:48:16AM

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E407012-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427029
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.9 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427029
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427037
Diesel Range Organics (C10-C28)	1950	250	10	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	1400	500	10	07/03/24	07/04/24	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2427045
Chloride	258	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 11:48:16AM

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E407012-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427029
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.9 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427029
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427037
Diesel Range Organics (C10-C28)	2010	250	10	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	1290	500	10	07/03/24	07/04/24	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2427045
Chloride	334	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

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E407012-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2427037	
Diesel Range Organics (C10-C28)	935	50.0	2	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	558	100	2	07/03/24	07/04/24	
<i>Surrogate: n-Nonane</i>						
	99.2 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2427045	
Chloride	388	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 7/10/2024 11:48:16AM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

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E407012-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.9 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2427037	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/04/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2427045	
Chloride	729	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

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E407012-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2427037	
Diesel Range Organics (C10-C28)	1140	250	10	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	898	500	10	07/03/24	07/04/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2427045	
Chloride	382	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

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E407012-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2427037	
Diesel Range Organics (C10-C28)	35.7	25.0	1	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/04/24	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2427045	
Chloride	ND	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

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E407012-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2427037	
Diesel Range Organics (C10-C28)	293	50.0	2	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	233	100	2	07/03/24	07/04/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2427045	
Chloride	378	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

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E407012-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2427037	
Diesel Range Organics (C10-C28)	35.3	25.0	1	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/04/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2427045	
Chloride	108	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

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E407012-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
Surrogate: 4-Bromochlorobenzene-PID	94.3 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427037	
Diesel Range Organics (C10-C28)	485	50.0	2	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	430	100	2	07/03/24	07/04/24	
Surrogate: n-Nonane	105 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427045	
Chloride	1060	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 11:48:16AM

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E407012-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427029
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427029
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427037
Diesel Range Organics (C10-C28)	1300	50.0	2	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	867	100	2	07/03/24	07/04/24	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2427045
Chloride	942	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 11:48:16AM

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E407012-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427029
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
Surrogate: 4-Bromochlorobenzene-PID	96.5 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427029
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427037
Diesel Range Organics (C10-C28)	986	50.0	2	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	551	100	2	07/03/24	07/04/24	
Surrogate: n-Nonane	101 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2427045
Chloride	508	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

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E407012-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
Surrogate: 4-Bromochlorobenzene-PID	95.6 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427037	
Diesel Range Organics (C10-C28)	2440	50.0	2	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	1450	100	2	07/03/24	07/04/24	
Surrogate: n-Nonane	105 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427045	
Chloride	549	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 7/10/2024 11:48:16AM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

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E407012-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
Surrogate: 4-Bromochlorobenzene-PID	95.5 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427037	
Diesel Range Organics (C10-C28)	148	25.0	1	07/03/24	07/08/24	
Oil Range Organics (C28-C36)	128	50.0	1	07/03/24	07/08/24	
Surrogate: n-Nonane	99.9 %	50-200		07/03/24	07/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427045	
Chloride	71.6	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 11:48:16AM

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E407012-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427029
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427029
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427037
Diesel Range Organics (C10-C28)	429	50.0	2	07/03/24	07/08/24	
Oil Range Organics (C28-C36)	239	100	2	07/03/24	07/08/24	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		07/03/24	07/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2427045
Chloride	672	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 11:48:16AM

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E407012-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427029
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427029
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427037
Diesel Range Organics (C10-C28)	2500	250	10	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	1680	500	10	07/03/24	07/04/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2427045
Chloride	2400	40.0	2	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 11:48:16AM

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E407012-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427041
Diesel Range Organics (C10-C28)	546	125	5	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	343	250	5	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>						
	96.7 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2427032
Chloride	2790	40.0	2	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 11:48:16AM

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E407012-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427041
Diesel Range Organics (C10-C28)	227	50.0	2	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	151	100	2	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>						
	95.0 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2427032
Chloride	3920	40.0	2	07/03/24	07/03/24	



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427028-BLK1) Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

LCS (2427028-BS1) Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	4.61	0.0250	5.00		92.3	70-130			
Ethylbenzene	4.73	0.0250	5.00		94.6	70-130			
Toluene	4.75	0.0250	5.00		95.1	70-130			
o-Xylene	4.74	0.0250	5.00		94.7	70-130			
p,m-Xylene	9.61	0.0500	10.0		96.1	70-130			
Total Xylenes	14.3	0.0250	15.0		95.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike (2427028-MS1) Source: E407011-04 Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	8.66	0.0500	10.0	ND	86.6	54-133			
Ethylbenzene	8.89	0.0500	10.0	ND	88.9	61-133			
Toluene	8.92	0.0500	10.0	ND	89.2	61-130			
o-Xylene	8.92	0.0500	10.0	ND	89.2	63-131			
p,m-Xylene	18.1	0.100	20.0	ND	90.3	63-131			
Total Xylenes	27.0	0.0500	30.0	ND	89.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	14.9		16.0		93.4	70-130			

Matrix Spike Dup (2427028-MSD1) Source: E407011-04 Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	8.72	0.0500	10.0	ND	87.2	54-133	0.741	20	
Ethylbenzene	8.96	0.0500	10.0	ND	89.6	61-133	0.842	20	
Toluene	9.00	0.0500	10.0	ND	89.9	61-130	0.854	20	
o-Xylene	9.01	0.0500	10.0	ND	90.1	63-131	1.07	20	
p,m-Xylene	18.2	0.100	20.0	ND	91.2	63-131	1.02	20	
Total Xylenes	27.3	0.0500	30.0	ND	90.9	63-131	1.04	20	
Surrogate: 4-Bromochlorobenzene-PID	15.1		16.0		94.6	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427029-BLK1) Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

LCS (2427029-BS1) Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	4.55	0.0250	5.00		91.0	70-130			
Ethylbenzene	4.60	0.0250	5.00		92.0	70-130			
Toluene	4.71	0.0250	5.00		94.3	70-130			
o-Xylene	4.73	0.0250	5.00		94.6	70-130			
p,m-Xylene	9.49	0.0500	10.0		94.9	70-130			
Total Xylenes	14.2	0.0250	15.0		94.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			

Matrix Spike (2427029-MS1) Source: E407012-08 Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	4.71	0.0250	5.00	ND	94.3	54-133			
Ethylbenzene	4.78	0.0250	5.00	ND	95.5	61-133			
Toluene	4.88	0.0250	5.00	ND	97.6	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.0	63-131			
p,m-Xylene	9.86	0.0500	10.0	ND	98.6	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			

Matrix Spike Dup (2427029-MSD1) Source: E407012-08 Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	4.49	0.0250	5.00	ND	89.8	54-133	4.91	20	
Ethylbenzene	4.55	0.0250	5.00	ND	91.0	61-133	4.86	20	
Toluene	4.65	0.0250	5.00	ND	93.1	61-130	4.74	20	
o-Xylene	4.67	0.0250	5.00	ND	93.5	63-131	4.75	20	
p,m-Xylene	9.40	0.0500	10.0	ND	94.0	63-131	4.78	20	
Total Xylenes	14.1	0.0250	15.0	ND	93.8	63-131	4.77	20	
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427028-BLK1) Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			

LCS (2427028-BS2) Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		97.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike (2427028-MS2) Source: E407011-04 Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	96.2	40.0	100	ND	96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.2		16.0		95.0	70-130			

Matrix Spike Dup (2427028-MSD2) Source: E407011-04 Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	91.8	40.0	100	ND	91.8	70-130	4.65	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.3		16.0		95.8	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427029-BLK1) Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.65		8.00		108	70-130			

LCS (2427029-BS2) Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	50.1	20.0	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.72		8.00		109	70-130			

Matrix Spike (2427029-MS2) Source: E407012-08 Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.73		8.00		109	70-130			

Matrix Spike Dup (2427029-MSD2) Source: E407012-08 Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	55.4	20.0	50.0	ND	111	70-130	0.427	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.67		8.00		108	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2427037-BLK1) Prepared: 07/03/24 Analyzed: 07/04/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.6		50.0		109	50-200			

LCS (2427037-BS1) Prepared: 07/03/24 Analyzed: 07/04/24

Diesel Range Organics (C10-C28)	300	25.0	250		120	38-132			
Surrogate: n-Nonane	54.2		50.0		108	50-200			

Matrix Spike (2427037-MS1) Source: E407012-05 Prepared: 07/03/24 Analyzed: 07/04/24

Diesel Range Organics (C10-C28)	2580	250	250	2200	152	38-132			M4
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2427037-MSD1) Source: E407012-05 Prepared: 07/03/24 Analyzed: 07/04/24

Diesel Range Organics (C10-C28)	2650	250	250	2200	179	38-132	2.51	20	M4
Surrogate: n-Nonane	48.7		50.0		97.5	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2427041-BLK1)

Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.3		50.0		88.6	50-200			

LCS (2427041-BS1)

Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	290	25.0	250		116	38-132			
Surrogate: n-Nonane	47.4		50.0		94.8	50-200			

Matrix Spike (2427041-MS1)

Source: E407014-02 Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	558	50.0	250	282	110	38-132			
Surrogate: n-Nonane	46.1		50.0		92.2	50-200			

Matrix Spike Dup (2427041-MSD1)

Source: E407014-02 Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	526	50.0	250	282	97.8	38-132	5.81	20	
Surrogate: n-Nonane	48.6		50.0		97.2	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2427032-BLK1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Chloride	ND	20.0							
LCS (2427032-BS1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2427032-MS1)					Source: E407009-01		Prepared: 07/03/24 Analyzed: 07/03/24		
Chloride	316	20.0	250	58.8	103	80-120			
Matrix Spike Dup (2427032-MSD1)					Source: E407009-01		Prepared: 07/03/24 Analyzed: 07/03/24		
Chloride	316	20.0	250	58.8	103	80-120	0.0810	20	



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:48:16AM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2427045-BLK1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Chloride	ND	20.0							
LCS (2427045-BS1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2427045-MS1)					Source: E407012-03		Prepared: 07/03/24 Analyzed: 07/03/24		
Chloride	333	20.0	250	78.3	102	80-120			
Matrix Spike Dup (2427045-MSD1)					Source: E407012-03		Prepared: 07/03/24 Analyzed: 07/03/24		
Chloride	326	20.0	250	78.3	99.0	80-120	2.29	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	07/10/24 11:48

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



CHAIN OF CUSTODY RECORD

E407012

Job# 21102-0001

Page 1 of 4



Office Location 4526 W. Pierce St Carlsbad NM, 88220

Project Manager Joseph Guesnier

Sampler's Name Gus Sanchez

Laboratory: E-Tech

Address:

Phone:

Contact:

SRS #:

Sampler's Signature

ANALYSIS REQUEST

Chloride (EPA Method 300)

TPH Extended 8015

BTX (EPA Method 8021B)

LAB USE ONLY DUE DATE:

Project Number KH247005

Project Name Leak #149

No. Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml Poly	Chloride (EPA Method 300)	TPH Extended 8015	BTX (EPA Method 8021B)	Lab Sample ID
S	6/28/2024	12:42	X		FS 19	4	4	X			X	X	X	
S	6/28/2024	12:45	X		FS 20	4	4	X			X	X	X	
S	6/28/2024	12:48	X		FS 21	4	4	X			X	X	X	
S	6/28/2024	12:51	X		FS 22	4	4	X			X	X	X	
S	6/28/2024	12:53	X		FS 23	4	4	X			X	X	X	
S	6/28/2024	12:55	X		FS 24	4	4	X			X	X	X	
S	6/28/2024	12:58	X		FS 25	4	4	X			X	X	X	
S	6/28/2024	13:01	X		FS 26	4	4	X			X	X	X	
S	6/28/2024	8:43	X		FS 32	6	6	X			X	X	X	
S	6/28/2024	9:08	X		FS 63	8	8	X			X	X	X	
S	6/28/2024	9:08	X		FS 64	4	4	X			X	X	X	
S	6/28/2024	9:14	X		FS 65	8	8	X			X	X	X	
S	6/28/2024	9:16	X		FS 66	4	4	X			X	X	X	
S	6/28/2024	9:18	X		FS 67	12	12	X			X	X	X	
S	6/28/2024	9:18	X		FS 68	12	12	X			X	X	X	
S	6/28/2024	9:20	X		FS 69	13	13	X			X	X	X	
S	6/28/2024	9:56	X		FS 70	16	16	X			X	X	X	
S	6/28/2024	9:58	X		FS 71	4	4	X			X	X	X	
S	6/28/2024	9:38	X		FS 72	12	12	X			X	X	X	
S	6/28/2024	9:42	X		FS 73	16	16	X			X	X	X	
S	6/28/2024	7:51	X		FS 74	16	16	X			X	X	X	
S	6/28/2024	10:02	X		FS 75	16	16	X			X	X	X	

TURNAROUND TIME ☒ Normal ☐ 48-Hour Rush ☐ 24-Hour Rush TRRP Laboratory Review Checklist ☐ Yes ☐ No

Relinquished by (Signature) <i>[Signature]</i>	Date: 7-2-24	Time: 1615	Received by (Signature) <i>Michelle Gonzales</i>	Date: 7-2-24	Time: 1030	Bill To: Targa Att: Amber Groves
Relinquished by (Signature) <i>Michelle Gonzales</i>	Date: 7-2-24	Time: 1615	Received by (Signature) <i>Amber</i>	Date: 7-2-24	Time: 1700	
Relinquished by (Signature) <i>Amber</i>	Date: 7-2-24	Time: 1645	Received by (Signature) <i>Alexa Michaels</i>	Date: 7/3/24	Time: 1000	

TEMP OF COOLER

WHEN RECEIVED (oC)

Matrix WW-Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal tube SL - Sludge

Container VOA - 40 ml vial A/G - Amber C 250 ml = Glass wide mouth P/O - Plastic or other

e-mail results to:

joseph.guesnier@terracon.com

travis.casey@terracon.com

mike.adams@terracon.com

beckysue.miller@terracon.com

gus.sanchez@terracon.com

chuck.smith@terracon.com

Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140

Page 170 of 453

Envirotech Analytical Laboratory

Printed: 7/3/2024 1:59:50PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Terracon	Date Received:	07/03/24 10:00	Work Order ID:	E407012
Phone:	(806) 544-9276	Date Logged In:	07/02/24 15:24	Logged In By:	Alexa Michaels
Email:	joseph.guesnier@terracon.com	Due Date:	07/11/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Couier**Comments/Resolution**

Leak #149 has been separated into multiple WO due to high sample volume. WO are as follows: E407012, E407013, E407014, and E407015.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

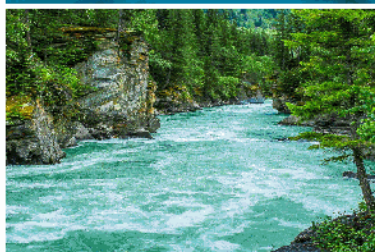
Date



envirotech Inc.

Report to:

Joseph Guesnier



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Terracon

Project Name: Leak #149

Work Order: E407013

Job Number: 21102-0001

Received: 7/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/10/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/10/24

Joseph Guesnier
4518 W. Pierce St
Carlsbad, NM 87401



Project Name: Leak #149
Workorder: E407013
Date Received: 7/3/2024 10:00:00AM

Joseph Guesnier,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/3/2024 10:00:00AM, under the Project Name: Leak #149.

The analytical test results summarized in this report with the Project Name: Leak #149 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	07/10/24 13:09

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS 76 16-16	E407013-01A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 77 8-8	E407013-02A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 78 4-4	E407013-03A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 79 20-20	E407013-04A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 80 16-16	E407013-05A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 81 16-16	E407013-06A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 82 20-20	E407013-07A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 83 4-4	E407013-08A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 84 12-12	E407013-09A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 85 16-16	E407013-10A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 86 16-16	E407013-11A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 87 12-12	E407013-12A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 88 12-12	E407013-13A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 89 12-12	E407013-14A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 90 8-8	E407013-15A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 91 4-4	E407013-16A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 92 8-8	E407013-17A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 93 8-8	E407013-18A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 94 8-8	E407013-19A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 95 8-8	E407013-20A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 96 4-4	E407013-21A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 97 4-4	E407013-22A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 1:09:20PM

FS 76 16-16

E407013-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.9 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	106 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2427038	
Diesel Range Organics (C10-C28)	3380	250	10	07/03/24	07/09/24	
Oil Range Organics (C28-C36)	1980	500	10	07/03/24	07/09/24	
<i>Surrogate: n-Nonane</i>	91.1 %	50-200		07/03/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427047	
Chloride	1520	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 1:09:20PM

FS 77 8-8

E407013-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427030
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.6 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427030
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2427038
Diesel Range Organics (C10-C28)	469	250	10	07/03/24	07/09/24	
Oil Range Organics (C28-C36)	519	500	10	07/03/24	07/09/24	
<i>Surrogate: n-Nonane</i>						
	95.2 %	50-200		07/03/24	07/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2427047
Chloride	145	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

FS 78 4-4

E407013-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	94.1 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2427038	
Diesel Range Organics (C10-C28)	369	50.0	2	07/03/24	07/09/24	
Oil Range Organics (C28-C36)	373	100	2	07/03/24	07/09/24	
Surrogate: n-Nonane	94.7 %	50-200		07/03/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427047	
Chloride	107	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 1:09:20PM

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E407013-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427030
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.6 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427030
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2427038
Diesel Range Organics (C10-C28)	3620	500	20	07/03/24	07/09/24	
Oil Range Organics (C28-C36)	2530	1000	20	07/03/24	07/09/24	
<i>Surrogate: n-Nonane</i>						
	93.2 %	50-200		07/03/24	07/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2427047
Chloride	3070	40.0	2	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 7/10/2024 1:09:20PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

FS 80 16-16
E407013-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	93.5 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	105 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2427038	
Diesel Range Organics (C10-C28)	522	250	10	07/03/24	07/09/24	
Oil Range Organics (C28-C36)	567	500	10	07/03/24	07/09/24	
Surrogate: n-Nonane	102 %	50-200		07/03/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427047	
Chloride	951	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 7/10/2024 1:09:20PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

FS 81 16-16
E407013-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	94.0 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2427038	
Diesel Range Organics (C10-C28)	152	25.0	1	07/03/24	07/09/24	
Oil Range Organics (C28-C36)	96.6	50.0	1	07/03/24	07/09/24	
Surrogate: n-Nonane	80.8 %	50-200		07/03/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427047	
Chloride	4710	40.0	2	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

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E407013-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	94.8 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2427038	
Diesel Range Organics (C10-C28)	1390	50.0	2	07/03/24	07/09/24	
Oil Range Organics (C28-C36)	819	100	2	07/03/24	07/09/24	
Surrogate: n-Nonane	86.9 %	50-200		07/03/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427047	
Chloride	230	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

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E407013-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2427038	
Diesel Range Organics (C10-C28)	256	50.0	2	07/03/24	07/09/24	
Oil Range Organics (C28-C36)	261	100	2	07/03/24	07/09/24	
Surrogate: n-Nonane	92.6 %	50-200		07/03/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427047	
Chloride	767	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 7/10/2024 1:09:20PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

FS 84 12-12
E407013-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	92.2 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2427038	
Diesel Range Organics (C10-C28)	913	50.0	2	07/03/24	07/09/24	
Oil Range Organics (C28-C36)	593	100	2	07/03/24	07/09/24	
Surrogate: n-Nonane	85.8 %	50-200		07/03/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427047	
Chloride	842	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

FS 85 16-16
E407013-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	94.2 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2427038	
Diesel Range Organics (C10-C28)	654	50.0	2	07/03/24	07/09/24	
Oil Range Organics (C28-C36)	420	100	2	07/03/24	07/09/24	
Surrogate: n-Nonane	88.6 %	50-200		07/03/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427047	
Chloride	791	20.0	1	07/03/24	07/03/24	

Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

FS 86 16-16
E407013-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	90.4 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2427038	
Diesel Range Organics (C10-C28)	3920	500	20	07/03/24	07/09/24	
Oil Range Organics (C28-C36)	2680	1000	20	07/03/24	07/09/24	
Surrogate: n-Nonane	87.1 %	50-200		07/03/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427047	
Chloride	1520	40.0	2	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

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E407013-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	94.5 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2427038	
Diesel Range Organics (C10-C28)	157	50.0	2	07/03/24	07/10/24	
Oil Range Organics (C28-C36)	163	100	2	07/03/24	07/10/24	
Surrogate: n-Nonane	90.4 %	50-200		07/03/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427047	
Chloride	649	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 1:09:20PM

FS 88 12-12

E407013-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.8 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2427038	
Diesel Range Organics (C10-C28)	514	500	20	07/03/24	07/10/24	
Oil Range Organics (C28-C36)	ND	1000	20	07/03/24	07/10/24	
<i>Surrogate: n-Nonane</i>						
	94.8 %	50-200		07/03/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427047	
Chloride	698	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

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E407013-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2427038	
Diesel Range Organics (C10-C28)	49.7	25.0	1	07/03/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/10/24	
Surrogate: n-Nonane	86.4 %	50-200		07/03/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427047	
Chloride	1060	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

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E407013-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2427038	
Diesel Range Organics (C10-C28)	1080	250	10	07/03/24	07/10/24	
Oil Range Organics (C28-C36)	948	500	10	07/03/24	07/10/24	
Surrogate: n-Nonane	85.1 %	50-200		07/03/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427047	
Chloride	45.7	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

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E407013-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	95.0 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2427038	
Diesel Range Organics (C10-C28)	707	50.0	2	07/03/24	07/10/24	
Oil Range Organics (C28-C36)	494	100	2	07/03/24	07/10/24	
Surrogate: n-Nonane	85.1 %	50-200		07/03/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427047	
Chloride	43.5	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 7/10/2024 1:09:20PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

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E407013-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2427038	
Diesel Range Organics (C10-C28)	200	50.0	2	07/03/24	07/10/24	
Oil Range Organics (C28-C36)	221	100	2	07/03/24	07/10/24	
<i>Surrogate: n-Nonane</i>						
	77.8 %	50-200		07/03/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2427047	
Chloride	408	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 7/10/2024 1:09:20PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

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E407013-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	93.5 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2427038	
Diesel Range Organics (C10-C28)	369	50.0	2	07/03/24	07/10/24	
Oil Range Organics (C28-C36)	447	100	2	07/03/24	07/10/24	
Surrogate: n-Nonane	86.4 %	50-200		07/03/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427047	
Chloride	749	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 1:09:20PM

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E407013-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427030
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427030
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2427038
Diesel Range Organics (C10-C28)	386	250	10	07/03/24	07/10/24	
Oil Range Organics (C28-C36)	587	500	10	07/03/24	07/10/24	
<i>Surrogate: n-Nonane</i>						
	81.4 %	50-200		07/03/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2427047
Chloride	737	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

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E407013-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2427038	
Diesel Range Organics (C10-C28)	558	250	10	07/03/24	07/10/24	
Oil Range Organics (C28-C36)	678	500	10	07/03/24	07/10/24	
Surrogate: n-Nonane	84.7 %	50-200		07/03/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427047	
Chloride	804	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 1:09:20PM

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E407013-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2427028	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.6 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2427028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.0 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427041	
Diesel Range Organics (C10-C28)	188	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	80.1	50.0	1	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>	97.4 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427032	
Chloride	187	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 7/10/2024 1:09:20PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

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E407013-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2427028	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
Surrogate: 4-Bromochlorobenzene-PID	92.2 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2427028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.7 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427041	
Diesel Range Organics (C10-C28)	405	125	5	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	270	250	5	07/03/24	07/03/24	
Surrogate: n-Nonane	96.7 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427032	
Chloride	86.6	20.0	1	07/03/24	07/03/24	



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427028-BLK1)Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

LCS (2427028-BS1)Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	4.61	0.0250	5.00		92.3	70-130			
Ethylbenzene	4.73	0.0250	5.00		94.6	70-130			
Toluene	4.75	0.0250	5.00		95.1	70-130			
o-Xylene	4.74	0.0250	5.00		94.7	70-130			
p,m-Xylene	9.61	0.0500	10.0		96.1	70-130			
Total Xylenes	14.3	0.0250	15.0		95.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike (2427028-MS1)Source: E407011-04Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	8.66	0.0500	10.0	ND	86.6	54-133			
Ethylbenzene	8.89	0.0500	10.0	ND	88.9	61-133			
Toluene	8.92	0.0500	10.0	ND	89.2	61-130			
o-Xylene	8.92	0.0500	10.0	ND	89.2	63-131			
p,m-Xylene	18.1	0.100	20.0	ND	90.3	63-131			
Total Xylenes	27.0	0.0500	30.0	ND	89.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	14.9		16.0		93.4	70-130			

Matrix Spike Dup (2427028-MSD1)Source: E407011-04Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	8.72	0.0500	10.0	ND	87.2	54-133	0.741	20	
Ethylbenzene	8.96	0.0500	10.0	ND	89.6	61-133	0.842	20	
Toluene	9.00	0.0500	10.0	ND	89.9	61-130	0.854	20	
o-Xylene	9.01	0.0500	10.0	ND	90.1	63-131	1.07	20	
p,m-Xylene	18.2	0.100	20.0	ND	91.2	63-131	1.02	20	
Total Xylenes	27.3	0.0500	30.0	ND	90.9	63-131	1.04	20	
Surrogate: 4-Bromochlorobenzene-PID	15.1		16.0		94.6	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427030-BLK1)Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

LCS (2427030-BS1)Prepared: 07/03/24 Analyzed: 07/04/24

Benzene	4.64	0.0250	5.00		92.9	70-130			
Ethylbenzene	4.68	0.0250	5.00		93.6	70-130			
Toluene	4.82	0.0250	5.00		96.4	70-130			
o-Xylene	4.81	0.0250	5.00		96.2	70-130			
p,m-Xylene	9.65	0.0500	10.0		96.5	70-130			
Total Xylenes	14.5	0.0250	15.0		96.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.3	70-130			

Matrix Spike (2427030-MS1)Source: E407013-10Prepared: 07/03/24 Analyzed: 07/04/24

Benzene	4.46	0.0250	5.00	ND	89.2	54-133			
Ethylbenzene	4.50	0.0250	5.00	ND	90.0	61-133			
Toluene	4.62	0.0250	5.00	ND	92.4	61-130			
o-Xylene	4.62	0.0250	5.00	ND	92.3	63-131			
p,m-Xylene	9.26	0.0500	10.0	ND	92.6	63-131			
Total Xylenes	13.9	0.0250	15.0	ND	92.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

Matrix Spike Dup (2427030-MSD1)Source: E407013-10Prepared: 07/03/24 Analyzed: 07/04/24

Benzene	4.75	0.0250	5.00	ND	95.0	54-133	6.31	20	
Ethylbenzene	4.80	0.0250	5.00	ND	96.0	61-133	6.55	20	
Toluene	4.93	0.0250	5.00	ND	98.6	61-130	6.53	20	
o-Xylene	4.93	0.0250	5.00	ND	98.6	63-131	6.61	20	
p,m-Xylene	9.89	0.0500	10.0	ND	98.9	63-131	6.62	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.8	63-131	6.61	20	
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427028-BLK1) Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			

LCS (2427028-BS2) Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		97.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike (2427028-MS2) Source: E407011-04 Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	96.2	40.0	100	ND	96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.2		16.0		95.0	70-130			

Matrix Spike Dup (2427028-MSD2) Source: E407011-04 Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	91.8	40.0	100	ND	91.8	70-130	4.65	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.3		16.0		95.8	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427030-BLK1) Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.46		8.00		106	70-130			

LCS (2427030-BS2) Prepared: 07/03/24 Analyzed: 07/04/24

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.63		8.00		108	70-130			

Matrix Spike (2427030-MS2) Source: E407013-10 Prepared: 07/03/24 Analyzed: 07/04/24

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.77		8.00		110	70-130			

Matrix Spike Dup (2427030-MSD2) Source: E407013-10 Prepared: 07/03/24 Analyzed: 07/04/24

Gasoline Range Organics (C6-C10)	54.4	20.0	50.0	ND	109	70-130	0.232	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.63		8.00		108	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2427038-BLK1) Prepared: 07/03/24 Analyzed: 07/09/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	39.3		50.0		78.6	50-200			

LCS (2427038-BS1) Prepared: 07/03/24 Analyzed: 07/09/24

Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	41.4		50.0		82.9	50-200			

Matrix Spike (2427038-MS1) Source: E407013-09 Prepared: 07/03/24 Analyzed: 07/09/24

Diesel Range Organics (C10-C28)	1200	50.0	250	913	114	38-132			
Surrogate: n-Nonane	47.2		50.0		94.5	50-200			

Matrix Spike Dup (2427038-MSD1) Source: E407013-09 Prepared: 07/03/24 Analyzed: 07/09/24

Diesel Range Organics (C10-C28)	1340	50.0	250	913	171	38-132	11.2	20	M4
Surrogate: n-Nonane	49.4		50.0		98.8	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427041-BLK1) Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.3		50.0		88.6	50-200			

LCS (2427041-BS1) Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	290	25.0	250		116	38-132			
Surrogate: n-Nonane	47.4		50.0		94.8	50-200			

Matrix Spike (2427041-MS1) Source: E407014-02 Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	558	50.0	250	282	110	38-132			
Surrogate: n-Nonane	46.1		50.0		92.2	50-200			

Matrix Spike Dup (2427041-MSD1) Source: E407014-02 Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	526	50.0	250	282	97.8	38-132	5.81	20	
Surrogate: n-Nonane	48.6		50.0		97.2	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427032-BLK1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Chloride	ND	20.0							
LCS (2427032-BS1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2427032-MS1)					Source: E407009-01		Prepared: 07/03/24 Analyzed: 07/03/24		
Chloride	316	20.0	250	58.8	103	80-120			
Matrix Spike Dup (2427032-MSD1)					Source: E407009-01		Prepared: 07/03/24 Analyzed: 07/03/24		
Chloride	316	20.0	250	58.8	103	80-120	0.0810	20	



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 1:09:20PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427047-BLK1)				Prepared: 07/03/24 Analyzed: 07/03/24					
Chloride	ND	20.0							
LCS (2427047-BS1)				Prepared: 07/03/24 Analyzed: 07/03/24					
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2427047-MS1)				Source: E407013-01		Prepared: 07/03/24 Analyzed: 07/03/24			
Chloride	1710	20.0	250	1520	76.1	80-120			M4
Matrix Spike Dup (2427047-MSD1)				Source: E407013-01		Prepared: 07/03/24 Analyzed: 07/03/24			
Chloride	1760	20.0	250	1520	94.9	80-120	2.71	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	07/10/24 13:09

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



CHAIN OF CUSTODY RECORD

Page 2 of 4



Office Location 4526 W. Pierce St Carlsbad NM, 88220

Project Manager Joseph Guesnier

Sampler's Name Gus Sanchez

Laboratory: _____

Address: _____

Phone: _____

Contact: _____

SRS #: _____

Sampler's Signature

ANALYSIS REQUEST

Chloride (EPA Method 300)

TPH Extended 8015

BTEX (EPA Method 8021B)

LAB USE ONLY DUE DATE:

E407013

pb# 21102-0001

Project Number KH247005

Project Name Leak #149

No. Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml Poly	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)
S	6/28/2024	10:04	X		FS 76	16	16	X			X	X	X
S	6/28/2024	9:24	X		FS 77	8	8	X			X	X	X
S	6/28/2024	9:26	X		FS 78	4	4	X			X	X	X
S	6/28/2024	11:21	X		FS 79	20	20	X			X	X	X
S	6/28/2024	11:31	X		FS 80	16	16	X			X	X	X
S	6/28/2024	11:34	X		FS 81	16	16	X			X	X	X
S	6/28/2024	11:38	X		FS 82	20	20	X			X	X	X
S	6/28/2024	11:28	X		FS 83	4	4	X			X	X	X
S	6/28/2024	11:25	X		FS 84	12	12	X			X	X	X
S	6/28/2024	11:42	X		FS 85	16	16	X			X	X	X
S	6/28/2024	11:44	X		FS 86	16	16	X			X	X	X
S	6/28/2024	11:44	X		FS 87	12	12	X			X	X	X
S	6/28/2024	11:46	X		FS 88	12	12	X			X	X	X
S	6/28/2024	11:48	X		FS 89	12	12	X			X	X	X
S	6/28/2024	11:49	X		FS 90	8	8	X			X	X	X
S	6/28/2024	11:51	X		FS 91	4	4	X			X	X	X
S	6/28/2024	11:46	X		FS 92	8	8	X			X	X	X
S	6/28/2024	11:48	X		FS 93	8	8	X			X	X	X
S	6/28/2024	11:50	X		FS 94	8	8	X			X	X	X
S	6/28/2024	12:01	X		FS 95	8	8	X			X	X	X
S	6/28/2024	12:05	X		FS 96	4	4	X			X	X	X
S	6/28/2024	12:12	X		FS 97	4	4	X			X	X	X

TURNAROUND TIME ☒ Normal ☐ 48-Hour Rush ☐ 24-Hour Rush TRRP Laboratory Review Checklist ☐ Yes ☐ No

Relinquished by (Signature) <i>[Signature]</i>	Date: 7-2-24	Time:	Received by (Signature) <i>Michelle Gonzales</i>	Date: 7-2-24	Time: 1030	Bill To:
Relinquished by (Signature) <i>Michelle Gonzales</i>	Date: 7-2-24	Time: 1615	Received by (Signature) <i>[Signature]</i>	Date: 7-2-24	Time: 1700	Targa
Relinquished by (Signature) <i>[Signature]</i>	Date: 7-2-24	Time: 2345	Received by (Signature) <i>Alexa Michaels</i>	Date: 7/3/24	Time: 1000	Att: Amber Groves
TEMP OF COOLER WHEN RECEIVED (oC)						

Matrix WW-Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal tube SL - Sludge

Container VOA - 40 ml vial A/G - Amber C 250 ml = Glass wide mou P/O - Plastic or other

Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140

e-mail results to:

joseph.guesnier@terracon.com

travis.casey@terracon.com

mike.adams@terracon.com

beckysue.miller@terracon.com

gus.sanchez@terracon.com

chuck.smith@terracon.com

Envirotech Analytical Laboratory

Printed: 7/3/2024 2:09:04PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Terracon	Date Received:	07/03/24 10:00	Work Order ID:	E407013
Phone:	(806) 544-9276	Date Logged In:	07/02/24 15:26	Logged In By:	Alexa Michaels
Email:	joseph.guesnier@terracon.com	Due Date:	07/11/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CouierComments/Resolution

Leak #149 has been separated into multiple WO due to high sample volume. WO are as follows: E407012, E407013, E407014, and E407015.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

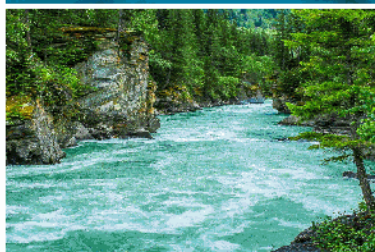
Date



envirotech Inc.

Report to:

Joseph Guesnier



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Terracon

Project Name: Leak #149

Work Order: E407014

Job Number: 21102-0001

Received: 7/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/10/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/10/24

Joseph Guesnier
4518 W. Pierce St
Carlsbad, NM 87401



Project Name: Leak #149
Workorder: E407014
Date Received: 7/3/2024 10:00:00AM

Joseph Guesnier,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/3/2024 10:00:00AM, under the Project Name: Leak #149.

The analytical test results summarized in this report with the Project Name: Leak #149 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

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Sample Summary

Terracon	Project Name:	Leak #149	Reported: 07/10/24 11:46
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS 98 8-8	E407014-01A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 99 4-4	E407014-02A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 100 4-4	E407014-03A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 101 4-4	E407014-04A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 102 4-4	E407014-05A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS 103 4-4	E407014-06A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 11:46:05AM

FS 98 8-8

E407014-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2427028	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.4 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2427028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.3 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427041	
Diesel Range Organics (C10-C28)	398	125	5	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	258	250	5	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>	93.9 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427032	
Chloride	116	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 11:46:05AM

FS 99 4-4

E407014-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427041
Diesel Range Organics (C10-C28)	282	50.0	2	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	147	100	2	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>						
	96.8 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2427032
Chloride	22.4	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:46:05AM

FS 100 4-4
E407014-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2427028	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
Surrogate: 4-Bromochlorobenzene-PID	93.6 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2427028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.6 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427041	
Diesel Range Organics (C10-C28)	196	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	103	50.0	1	07/03/24	07/03/24	
Surrogate: n-Nonane	95.3 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427032	
Chloride	102	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 11:46:05AM

FS 101 4-4

E407014-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427041
Diesel Range Organics (C10-C28)	84.5	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	68.2	50.0	1	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>						
	98.8 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2427032
Chloride	42.1	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:46:05AM

FS 102 4-4
E407014-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2427028	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
Surrogate: 4-Bromochlorobenzene-PID	92.8 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2427028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427041	
Diesel Range Organics (C10-C28)	193	50.0	2	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	119	100	2	07/03/24	07/03/24	
Surrogate: n-Nonane	98.1 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427032	
Chloride	215	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:46:05AM

FS 103 4-4
E407014-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2427028	
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
Surrogate: 4-Bromochlorobenzene-PID	93.3 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2427028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.3 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427041	
Diesel Range Organics (C10-C28)	293	50.0	2	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	161	100	2	07/03/24	07/03/24	
Surrogate: n-Nonane	98.4 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2427032	
Chloride	22.5	20.0	1	07/03/24	07/03/24	



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:46:05AM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427028-BLK1)Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

LCS (2427028-BS1)Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	4.61	0.0250	5.00		92.3	70-130			
Ethylbenzene	4.73	0.0250	5.00		94.6	70-130			
Toluene	4.75	0.0250	5.00		95.1	70-130			
o-Xylene	4.74	0.0250	5.00		94.7	70-130			
p,m-Xylene	9.61	0.0500	10.0		96.1	70-130			
Total Xylenes	14.3	0.0250	15.0		95.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike (2427028-MS1)Source: E407011-04Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	8.66	0.0500	10.0	ND	86.6	54-133			
Ethylbenzene	8.89	0.0500	10.0	ND	88.9	61-133			
Toluene	8.92	0.0500	10.0	ND	89.2	61-130			
o-Xylene	8.92	0.0500	10.0	ND	89.2	63-131			
p,m-Xylene	18.1	0.100	20.0	ND	90.3	63-131			
Total Xylenes	27.0	0.0500	30.0	ND	89.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	14.9		16.0		93.4	70-130			

Matrix Spike Dup (2427028-MSD1)Source: E407011-04Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	8.72	0.0500	10.0	ND	87.2	54-133	0.741	20	
Ethylbenzene	8.96	0.0500	10.0	ND	89.6	61-133	0.842	20	
Toluene	9.00	0.0500	10.0	ND	89.9	61-130	0.854	20	
o-Xylene	9.01	0.0500	10.0	ND	90.1	63-131	1.07	20	
p,m-Xylene	18.2	0.100	20.0	ND	91.2	63-131	1.02	20	
Total Xylenes	27.3	0.0500	30.0	ND	90.9	63-131	1.04	20	
Surrogate: 4-Bromochlorobenzene-PID	15.1		16.0		94.6	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:46:05AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427028-BLK1) Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			

LCS (2427028-BS2) Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		97.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike (2427028-MS2) Source: E407011-04 Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	96.2	40.0	100	ND	96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.2		16.0		95.0	70-130			

Matrix Spike Dup (2427028-MSD2) Source: E407011-04 Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	91.8	40.0	100	ND	91.8	70-130	4.65	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.3		16.0		95.8	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:46:05AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427041-BLK1) Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.3		50.0		88.6	50-200			

LCS (2427041-BS1) Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	290	25.0	250		116	38-132			
Surrogate: n-Nonane	47.4		50.0		94.8	50-200			

Matrix Spike (2427041-MS1) Source: E407014-02 Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	558	50.0	250	282	110	38-132			
Surrogate: n-Nonane	46.1		50.0		92.2	50-200			

Matrix Spike Dup (2427041-MSD1) Source: E407014-02 Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	526	50.0	250	282	97.8	38-132	5.81	20	
Surrogate: n-Nonane	48.6		50.0		97.2	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 11:46:05AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427032-BLK1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Chloride	ND	20.0							
LCS (2427032-BS1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2427032-MS1)					Source: E407009-01		Prepared: 07/03/24 Analyzed: 07/03/24		
Chloride	316	20.0	250	58.8	103	80-120			
Matrix Spike Dup (2427032-MSD1)					Source: E407009-01		Prepared: 07/03/24 Analyzed: 07/03/24		
Chloride	316	20.0	250	58.8	103	80-120	0.0810	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	07/10/24 11:46

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Received by OCD: 11/1/2024 10:22:52 AM

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Envirotech Analytical Laboratory

Printed: 7/3/2024 2:12:47PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Terracon	Date Received:	07/03/24 10:00	Work Order ID:	E407014
Phone:	(806) 544-9276	Date Logged In:	07/02/24 15:29	Logged In By:	Alexa Michaels
Email:	joseph.guesnier@terracon.com	Due Date:	07/11/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CouierComments/Resolution

Leak #149 has been separated into multiple WO due to high sample volume. WO are as follows: E407012, E407013, E407014, and E407015.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:

Joseph Guesnier



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Terracon

Project Name: Leak #149

Work Order: E407015

Job Number: 21102-0001

Received: 7/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/10/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/10/24

Joseph Guesnier
4518 W. Pierce St
Carlsbad, NM 87401



Project Name: Leak #149
Workorder: E407015
Date Received: 7/3/2024 10:00:00AM

Joseph Guesnier,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/3/2024 10:00:00AM, under the Project Name: Leak #149.

The analytical test results summarized in this report with the Project Name: Leak #149 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	07/10/24 14:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
N-SW-1 4-8	E407015-01A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
N-SW-1 4-16	E407015-02A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
N-SW-1 16-20	E407015-03A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
N-SW-4 0-4	E407015-04A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
N-SW-4 4-8	E407015-05A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
N-SW-4 8-16	E407015-06A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
N-SW-4 16-20	E407015-07A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
S-SW-5 0-4	E407015-08A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
S-SW-5 4-8	E407015-09A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
S-SW-5 8-16	E407015-10A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
S-SW-5 16-20	E407015-11A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
S-SW-6 0-4	E407015-12A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
S-SW-6 4-8	E407015-13A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
S-SW-6 8-16	E407015-14A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
S-SW-6 16-20	E407015-15A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
E-SW-4 0-4	E407015-16A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
E-SW-4 4-8	E407015-17A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
E-SW-4 8-16	E407015-18A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
W-SW-1 4-8	E407015-19A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
W-SW-1 8-16	E407015-20A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 2:48:52PM

N-SW-1 4-8

E407015-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427039	
Diesel Range Organics (C10-C28)	404	50.0	2	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	296	100	2	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>						
	79.1 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427048	
Chloride	3810	40.0	2	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 2:48:52PM

N-SW-1 4-16
E407015-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	89.6 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.1 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427039	
Diesel Range Organics (C10-C28)	3020	125	5	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	2200	250	5	07/03/24	07/03/24	
Surrogate: n-Nonane	79.8 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427048	
Chloride	4500	40.0	2	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 2:48:52PM

N-SW-1 16-20

E407015-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427031
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427031
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427039
Diesel Range Organics (C10-C28)	93.8	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	71.3	50.0	1	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>						
	81.8 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2427048
Chloride	854	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 2:48:52PM

N-SW-4 0-4

E407015-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427031
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.0 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427031
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.6 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427039
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>						
	81.9 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2427048
Chloride	ND	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 2:48:52PM

N-SW-4 4-8
E407015-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	92.4 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.2 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427039	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/03/24	
Surrogate: n-Nonane	82.1 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427048	
Chloride	34.1	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 2:48:52PM

N-SW-4 8-16
E407015-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	91.3 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427039	
Diesel Range Organics (C10-C28)	1500	125	5	07/03/24	07/08/24	
Oil Range Organics (C28-C36)	1220	250	5	07/03/24	07/08/24	
Surrogate: n-Nonane	87.1 %	50-200		07/03/24	07/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427048	
Chloride	970	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 2:48:52PM

N-SW-4 16-20
E407015-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	90.8 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.2 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427039	
Diesel Range Organics (C10-C28)	824	50.0	2	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	569	100	2	07/03/24	07/03/24	
Surrogate: n-Nonane	80.9 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427048	
Chloride	556	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 7/10/2024 2:48:52PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

S-SW-5 0-4
E407015-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	92.4 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.2 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427039	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/03/24	
Surrogate: n-Nonane	78.4 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427048	
Chloride	875	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 2:48:52PM

S-SW-5 4-8
E407015-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	91.9 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.7 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427039	
Diesel Range Organics (C10-C28)	58.0	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/03/24	
Surrogate: n-Nonane	81.7 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427048	
Chloride	1410	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 2:48:52PM

S-SW-5 8-16
E407015-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	92.8 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.7 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427039	
Diesel Range Organics (C10-C28)	35.4	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/03/24	
Surrogate: n-Nonane	81.9 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427048	
Chloride	1650	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 2:48:52PM

S-SW-5 16-20
E407015-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	91.2 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.5 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427039	
Diesel Range Organics (C10-C28)	135	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	113	50.0	1	07/03/24	07/03/24	
Surrogate: n-Nonane	74.0 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427048	
Chloride	6660	100	5	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 2:48:52PM

S-SW-6 0-4

E407015-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.4 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427039	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>						
	83.5 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427048	
Chloride	514	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 2:48:52PM

S-SW-6 4-8

E407015-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427039	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>						
	83.3 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427048	
Chloride	405	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 2:48:52PM

S-SW-6 8-16

E407015-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.0 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427039	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/04/24	
<i>Surrogate: n-Nonane</i>						
	82.5 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427048	
Chloride	1590	40.0	2	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 2:48:52PM

S-SW-6 16-20
E407015-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	90.8 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427039	
Diesel Range Organics (C10-C28)	1540	500	20	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	1200	1000	20	07/03/24	07/04/24	
Surrogate: n-Nonane	81.8 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427048	
Chloride	687	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 2:48:52PM

E-SW-4 0-4

E407015-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427031
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.6 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427031
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.8 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427039
Diesel Range Organics (C10-C28)	1040	50.0	2	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	568	100	2	07/03/24	07/04/24	
<i>Surrogate: n-Nonane</i>						
	81.0 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2427048
Chloride	91.8	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 2:48:52PM

E-SW-4 4-8
E407015-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	90.2 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427039	
Diesel Range Organics (C10-C28)	1540	125	5	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	1010	250	5	07/03/24	07/04/24	
Surrogate: n-Nonane	82.9 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427048	
Chloride	356	20.0	1	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 2:48:52PM

E-SW-4 8-16
E407015-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	89.7 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.3 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427039	
Diesel Range Organics (C10-C28)	3460	1250	50	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	3170	2500	50	07/03/24	07/04/24	
Surrogate: n-Nonane	89.3 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427048	
Chloride	1360	40.0	2	07/03/24	07/03/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 2:48:52PM

W-SW-1 4-8
E407015-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
Surrogate: 4-Bromochlorobenzene-PID	89.8 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.4 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427039	
Diesel Range Organics (C10-C28)	902	125	5	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	644	250	5	07/03/24	07/04/24	
Surrogate: n-Nonane	84.6 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427048	
Chloride	1650	40.0	2	07/03/24	07/03/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
7/10/2024 2:48:52PM

W-SW-1 8-16

E407015-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Benzene	ND	0.0250	1	07/03/24	07/04/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/04/24	
Toluene	ND	0.0250	1	07/03/24	07/04/24	
o-Xylene	ND	0.0250	1	07/03/24	07/04/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/04/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	88.7 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2427031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.9 %	70-130		07/03/24	07/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427039	
Diesel Range Organics (C10-C28)	2460	125	5	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	1510	250	5	07/03/24	07/04/24	
<i>Surrogate: n-Nonane</i>	82.2 %	50-200		07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427048	
Chloride	2360	40.0	2	07/03/24	07/03/24	



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 2:48:52PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427031-BLK1)Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			

LCS (2427031-BS1)Prepared: 07/03/24 Analyzed: 07/04/24

Benzene	4.41	0.0250	5.00		88.2	70-130			
Ethylbenzene	4.61	0.0250	5.00		92.2	70-130			
Toluene	4.60	0.0250	5.00		92.0	70-130			
o-Xylene	4.62	0.0250	5.00		92.4	70-130			
p,m-Xylene	9.37	0.0500	10.0		93.7	70-130			
Total Xylenes	14.0	0.0250	15.0		93.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.0	70-130			

Matrix Spike (2427031-MS1)Source: E407015-10Prepared: 07/03/24 Analyzed: 07/10/24

Benzene	5.00	0.0250	5.00	ND	100	54-133			
Ethylbenzene	4.79	0.0250	5.00	ND	95.7	61-133			
Toluene	4.92	0.0250	5.00	ND	98.4	61-130			
o-Xylene	4.75	0.0250	5.00	ND	95.0	63-131			
p,m-Xylene	9.73	0.0500	10.0	ND	97.3	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.2	70-130			

Matrix Spike Dup (2427031-MSD1)Source: E407015-10Prepared: 07/03/24 Analyzed: 07/04/24

Benzene	4.35	0.0250	5.00	ND	87.0	54-133	14.0	20	
Ethylbenzene	4.54	0.0250	5.00	ND	90.9	61-133	5.20	20	
Toluene	4.54	0.0250	5.00	ND	90.8	61-130	8.04	20	
o-Xylene	4.56	0.0250	5.00	ND	91.1	63-131	4.15	20	
p,m-Xylene	9.23	0.0500	10.0	ND	92.3	63-131	5.28	20	
Total Xylenes	13.8	0.0250	15.0	ND	91.9	63-131	4.91	20	
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 2:48:52PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427031-BLK1) Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			

LCS (2427031-BS2) Prepared: 07/03/24 Analyzed: 07/04/24

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0		90.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130			

Matrix Spike (2427031-MS2) Source: E407015-10 Prepared: 07/03/24 Analyzed: 07/04/24

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0	ND	93.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			

Matrix Spike Dup (2427031-MSD2) Source: E407015-10 Prepared: 07/03/24 Analyzed: 07/04/24

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.6	70-130	1.85	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 2:48:52PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427039-BLK1) Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	37.9		50.0		75.7	50-200			

LCS (2427039-BS1) Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	222	25.0	250		88.6	38-132			
Surrogate: n-Nonane	39.0		50.0		78.0	50-200			

Matrix Spike (2427039-MS1) Source: E407015-06 Prepared: 07/03/24 Analyzed: 07/08/24

Diesel Range Organics (C10-C28)	1700	125	250	1500	76.8	38-132			
Surrogate: n-Nonane	44.1		50.0		88.2	50-200			

Matrix Spike Dup (2427039-MSD1) Source: E407015-06 Prepared: 07/03/24 Analyzed: 07/08/24

Diesel Range Organics (C10-C28)	1640	125	250	1500	54.2	38-132	3.40	20	
Surrogate: n-Nonane	42.6		50.0		85.2	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	7/10/2024 2:48:52PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2427048-BLK1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Chloride	ND	20.0							
LCS (2427048-BS1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2427048-MS1)					Source: E407015-04		Prepared: 07/03/24 Analyzed: 07/03/24		
Chloride	263	20.0	250	ND	105	80-120			
Matrix Spike Dup (2427048-MSD1)					Source: E407015-04		Prepared: 07/03/24 Analyzed: 07/03/24		
Chloride	265	20.0	250	ND	106	80-120	0.716	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	07/10/24 14:48

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



CHAIN OF CUSTODY RECORD

Page 4 of 4



Office Location 4526 W. Pierce St Carlsbad NM, 88220

Project Manager Joseph Guesnier

Sampler's Name Gus Sanchez

Laboratory: _____

Address: _____

Phone: _____

Contact: _____

SRS #: _____

Sampler's Signature *[Signature]*

ANALYSIS REQUEST

Chloride (EPA Method 300)

TPH Extended 8015

BTEX (EPA Method 8021B)

LAB USE ONLY DUE DATE:

E407015

Job # 21102-0001

Project Number KH247005

Project Name Leak #149

No. Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml Poly	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)
	6/28/2024	11:39	X		N-SW-1	4	8	X			X	X	X
S	6/28/2024	11:33	X		N-SW-1	8	16	X			X	X	X
S	6/28/2024	11:28	X		N-SW-1	16	20	X			X	X	X
S	6/28/2024	12:06	X		N-SW-4	0	4	X			X	X	X
S	6/28/2024	12:04	X		N-SW-4	4	8	X			X	X	X
S	6/28/2024	11:32	X		N-SW-4	8	16	X			X	X	X
S	6/28/2024	11:28	X		N-SW-4	16	20	X			X	X	X
S	6/28/2024	11:44	X		S-SW-5	0	4	X			X	X	X
S	6/28/2024	11:42	X		S-SW-5	4	8	X			X	X	X
S	6/28/2024	11:26	X		S-SW-5	8	16	X			X	X	X
S	6/28/2024	11:24	X		S-SW-5	16	20	X			X	X	X
S	6/28/2024	12:21	X		S-SW-6	0	4	X			X	X	X
S	6/28/2024	12:08	X		S-SW-6	4	8	X			X	X	X
S	6/28/2024	11:28	X		S-SW-6	8	16	X			X	X	X
S	6/28/2024	11:31	X		S-SW-6	16	20	X			X	X	X
S	6/28/2024	11:58	X		E-SW-4	0	4	X			X	X	X
S	6/28/2024	12:00	X		E-SW-4	4	8	X			X	X	X
S	6/28/2024	11:36	X		E-SW-4	8	16	X			X	X	X
S	6/28/2024	11:18	X		W-SW-1	4	8	X			X	X	X
S	6/28/2024	11:20	X		W-SW-1	8	16	X			X	X	X

Lab Sample ID

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TURNAROUND TIME ☒ Normal ☐ 48-Hour Rush ☐ 24-Hour Rush TTRP Laboratory Review Checklist ☐ Yes ☐ No

Relinquished by (Signature) *[Signature]* Date: 7-2-24 Time: Received by (Signature) *[Signature]* Date: 7-2-24 Time: 1030

Relinquished by (Signature) *[Signature]* Date: 7-2-24 Time: 1615 Received by (Signature) *[Signature]* Date: 7-2-24 Time: 1700

Relinquished by (Signature) *[Signature]* Date: 7-2-24 Time: 2345 Received by (Signature) *[Signature]* Date: 7-3-24 Time: 1000

TEMP OF COOLER WHEN RECEIVED (oC)

Bill To:

Targa

Att: Amber Groves

e-mail results to:

joseph.guesnier@terracon.com

travis.casey@terracon.com

mike.adams@terracon.com

beckysue.miller@terracon.com

gus.sanchez@terracon.com

chuck.smith@terracon.com

Matrix WW-Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal tube SL - Sludge

Container VOA - 40 ml vial A/G - Amber C 250 ml = Glass wide mou P/O - Plastic or other

Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140

Envirotech Analytical Laboratory

Printed: 7/3/2024 2:19:52PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Terracon	Date Received:	07/03/24 10:00	Work Order ID:	E407015
Phone:	(806) 544-9276	Date Logged In:	07/02/24 15:33	Logged In By:	Alexa Michaels
Email:	joseph.guesnier@terracon.com	Due Date:	07/11/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Couier**Comments/Resolution**

Leak #149 has been separated into multiple WO due to high sample volume. WO are as follows: E407012, E407013, E407014, and E407015.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:

Joseph Guesnier



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Terracon

Project Name: Leak #149

Work Order: E407239

Job Number: 21102-0001

Received: 7/30/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/19/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/19/24

Joseph Guesnier
4518 W. Pierce St
Carlsbad, NM 87401



Project Name: Leak #149
Workorder: E407239
Date Received: 7/30/2024 8:30:00AM

Joseph Guesnier,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/30/2024 8:30:00AM, under the Project Name: Leak #149.

The analytical test results summarized in this report with the Project Name: Leak #149 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Laboratory Administrator
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Sample Summary

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	08/19/24 10:53

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS 07 8-8	E407239-01A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
FS-11 8-8	E407239-02A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
FS 14 8-8	E407239-03A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
FS 19 5-5	E407239-04A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
FS 23 5-5	E407239-05A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
FS 24 5-5	E407239-06A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
FS 25 5-5	E407239-07A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
FS 63 9-9	E407239-08A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
FS 68 14-14	E407239-09A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
FS 70 17-17	E407239-10A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
FS 73 18-18	E407239-11A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
FS 76 17-17	E407239-12A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
FS 79 20-20	E407239-13A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
FS 82 20-20	E407239-14A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
FS 86 17-17	E407239-15A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
FS 90 9-9	E407239-16A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
W-SW-01 4-8	E407239-17A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
W-SW-01 8-16	E407239-18A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
N-SW-01 8-16	E407239-19A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
N-SW-04 8-16	E407239-20A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
S-SW-06 16-20	E407239-21A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
E-SW-04 0-4	E407239-22A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
E-SW-04 4-8	E407239-23A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.
E-SW-04 8-16	E407239-24A	Soil	07/25/24	07/30/24	Glass Jar, 4 oz.



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
8/19/2024 10:53:16AM

FS 07 8-8

E407239-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
<i>Surrogate: Bromofluorobenzene</i>		98.7 %	70-130	07/30/24	07/31/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.6 %	70-130	07/30/24	07/31/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
<i>Surrogate: Bromofluorobenzene</i>		98.7 %	70-130	07/30/24	07/31/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.6 %	70-130	07/30/24	07/31/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431049
Diesel Range Organics (C10-C28)	42.3	25.0	1	07/30/24	07/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/31/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	07/30/24	07/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2431059
Chloride	161	20.0	1	07/30/24	07/30/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
8/19/2024 10:53:16AM

FS-11 8-8

E407239-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	106 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	106 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431049
Diesel Range Organics (C10-C28)	35.9	25.0	1	07/30/24	07/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/31/24	
Surrogate: n-Nonane	95.6 %	50-200		07/30/24	07/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2431059
Chloride	907	20.0	1	07/30/24	07/30/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

FS 14 8-8

E407239-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	106 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	106 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431049	
Diesel Range Organics (C10-C28)	105	25.0	1	07/30/24	07/31/24	
Oil Range Organics (C28-C36)	64.0	50.0	1	07/30/24	07/31/24	
Surrogate: n-Nonane	99.4 %	50-200		07/30/24	07/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2431059	
Chloride	975	20.0	1	07/30/24	07/30/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
8/19/2024 10:53:16AM

FS 19 5-5

E407239-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	95.5 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	104 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	95.5 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	104 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431049
Diesel Range Organics (C10-C28)	26.0	25.0	1	07/30/24	08/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	08/01/24	
Surrogate: n-Nonane	97.8 %	50-200		07/30/24	08/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2431059
Chloride	209	20.0	1	07/30/24	07/30/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
8/19/2024 10:53:16AM

FS 23 5-5

E407239-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	98.0 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	106 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	98.0 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	106 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431049
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/24	07/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/31/24	
Surrogate: n-Nonane	105 %	50-200		07/30/24	07/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2431059
Chloride	606	20.0	1	07/30/24	07/30/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
8/19/2024 10:53:16AM

FS 24 5-5

E407239-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	98.0 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	107 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	98.0 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	107 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431049
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/24	08/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	08/01/24	
Surrogate: n-Nonane	97.7 %	50-200		07/30/24	08/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2431059
Chloride	679	20.0	1	07/30/24	07/30/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

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E407239-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	107 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	107 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431049	
Diesel Range Organics (C10-C28)	49.0	25.0	1	07/30/24	08/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	08/01/24	
Surrogate: n-Nonane	99.2 %	50-200		07/30/24	08/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2431059	
Chloride	301	20.0	1	07/30/24	07/30/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
8/19/2024 10:53:16AM

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E407239-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	99.4 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	104 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	99.4 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	104 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431049
Diesel Range Organics (C10-C28)	108	50.0	2	07/30/24	07/31/24	
Oil Range Organics (C28-C36)	ND	100	2	07/30/24	07/31/24	
Surrogate: n-Nonane	103 %	50-200		07/30/24	07/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2431059
Chloride	ND	20.0	1	07/30/24	07/30/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
8/19/2024 10:53:16AM

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E407239-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene		102 %	70-130	07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	07/30/24	07/31/24	
Surrogate: Toluene-d8		106 %	70-130	07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene		102 %	70-130	07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	07/30/24	07/31/24	
Surrogate: Toluene-d8		106 %	70-130	07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431049
Diesel Range Organics (C10-C28)	67.8	25.0	1	07/30/24	08/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	08/01/24	
Surrogate: n-Nonane		102 %	50-200	07/30/24	08/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2431059
Chloride	101	20.0	1	07/30/24	07/30/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
8/19/2024 10:53:16AM

FS 70 17-17

E407239-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	96.6 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	106 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	96.6 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	106 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2431119	
Diesel Range Organics (C10-C28)	671	125	5	07/30/24	08/02/24	
Oil Range Organics (C28-C36)	ND	250	5	07/30/24	08/02/24	
Surrogate: n-Nonane	100 %	50-200		07/30/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2431059	
Chloride	69.9	20.0	1	07/30/24	07/30/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

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E407239-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	07/30/24	07/31/24	
Surrogate: Toluene-d8		103 %	70-130	07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	07/30/24	07/31/24	
Surrogate: Toluene-d8		103 %	70-130	07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431049	
Diesel Range Organics (C10-C28)	773	125	5	07/30/24	07/31/24	
Oil Range Organics (C28-C36)	368	250	5	07/30/24	07/31/24	
Surrogate: n-Nonane		105 %	50-200	07/30/24	07/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2431059	
Chloride	491	20.0	1	07/30/24	07/30/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

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E407239-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	104 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	104 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431049	
Diesel Range Organics (C10-C28)	200	50.0	2	07/30/24	07/31/24	
Oil Range Organics (C28-C36)	ND	100	2	07/30/24	07/31/24	
Surrogate: n-Nonane	101 %	50-200		07/30/24	07/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2431059	
Chloride	545	20.0	1	07/30/24	07/30/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
8/19/2024 10:53:16AM

FS 79 20-20

E407239-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	105 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	105 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431049
Diesel Range Organics (C10-C28)	687	125	5	07/30/24	07/31/24	
Oil Range Organics (C28-C36)	438	250	5	07/30/24	07/31/24	
Surrogate: n-Nonane	153 %	50-200		07/30/24	07/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2431059
Chloride	469	20.0	1	07/30/24	07/30/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

FS 82 20-20
E407239-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	98.7 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	105 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	98.7 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	105 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431049	
Diesel Range Organics (C10-C28)	51.0	25.0	1	07/30/24	07/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/31/24	
Surrogate: n-Nonane	104 %	50-200		07/30/24	07/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2431059	
Chloride	160	20.0	1	07/30/24	07/31/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

FS 86 17-17
E407239-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	106 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	106 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431049	
Diesel Range Organics (C10-C28)	82.2	50.0	2	07/30/24	07/31/24	
Oil Range Organics (C28-C36)	ND	100	2	07/30/24	07/31/24	
Surrogate: n-Nonane	97.7 %	50-200		07/30/24	07/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2431059	
Chloride	101	20.0	1	07/30/24	07/31/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

FS 90 9-9

E407239-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	106 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	106 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431049	
Diesel Range Organics (C10-C28)	98.3	50.0	2	07/30/24	07/31/24	
Oil Range Organics (C28-C36)	ND	100	2	07/30/24	07/31/24	
Surrogate: n-Nonane	99.4 %	50-200		07/30/24	07/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2431059	
Chloride	23.1	20.0	1	07/30/24	07/31/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

W-SW-01 4-8
E407239-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	107 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	107 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431049	
Diesel Range Organics (C10-C28)	28.9	25.0	1	07/30/24	07/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/31/24	
Surrogate: n-Nonane	94.5 %	50-200		07/30/24	07/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2431059	
Chloride	499	20.0	1	07/30/24	07/31/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

W-SW-01 8-16
E407239-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	107 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	107 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2431049	
Diesel Range Organics (C10-C28)	62.2	25.0	1	07/30/24	07/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/31/24	
Surrogate: n-Nonane	93.9 %	50-200		07/30/24	07/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431059	
Chloride	679	20.0	1	07/30/24	07/31/24	

Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
8/19/2024 10:53:16AM

N-SW-01 8-16

E407239-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	99.5 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	106 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2431051
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	99.5 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	106 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431049
Diesel Range Organics (C10-C28)	563	125	5	07/30/24	07/31/24	
Oil Range Organics (C28-C36)	329	250	5	07/30/24	07/31/24	
Surrogate: n-Nonane	92.9 %	50-200		07/30/24	07/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2431059
Chloride	2500	40.0	2	07/30/24	07/31/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
8/19/2024 10:53:16AM

N-SW-04 8-16

E407239-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	102 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	106 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2431051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: Bromofluorobenzene	102 %	70-130		07/30/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		07/30/24	07/31/24	
Surrogate: Toluene-d8	106 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431049	
Diesel Range Organics (C10-C28)	564	125	5	07/30/24	07/31/24	
Oil Range Organics (C28-C36)	ND	250	5	07/30/24	07/31/24	
Surrogate: n-Nonane	97.5 %	50-200		07/30/24	07/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2431059	
Chloride	276	20.0	1	07/30/24	07/31/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
8/19/2024 10:53:16AM

S-SW-06 16-20

E407239-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431040
Benzene	ND	0.0250	1	07/30/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/30/24	
Toluene	ND	0.0250	1	07/30/24	07/30/24	
o-Xylene	ND	0.0250	1	07/30/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431040
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.9 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431047
Diesel Range Organics (C10-C28)	145	125	5	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	250	5	07/30/24	07/30/24	
<i>Surrogate: n-Nonane</i>						
		96.3 %	50-200	07/30/24	07/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431044
Chloride	579	20.0	1	07/30/24	07/31/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

E-SW-04 0-4
E407239-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2431040	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2431040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.7 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431047	
Diesel Range Organics (C10-C28)	64.7	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
Surrogate: n-Nonane	89.9 %	50-200		07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2431044	
Chloride	ND	20.0	1	07/30/24	07/31/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

E-SW-04 4-8
E407239-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2431040	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2431040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.6 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431047	
Diesel Range Organics (C10-C28)	283	50.0	2	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	234	100	2	07/30/24	07/30/24	
Surrogate: n-Nonane	96.4 %	50-200		07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2431044	
Chloride	51.4	20.0	1	07/30/24	07/31/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
8/19/2024 10:53:16AM

E-SW-04 8-16

E407239-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431040
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431040
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.6 %	70-130	07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431047
Diesel Range Organics (C10-C28)	850	50.0	2	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	397	100	2	07/30/24	07/30/24	
<i>Surrogate: n-Nonane</i>						
		92.8 %	50-200	07/30/24	07/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431044
Chloride	36.8	20.0	1	07/30/24	07/31/24	



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2431051-BLK1) Prepared: 07/30/24 Analyzed: 07/31/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

LCS (2431051-BS1) Prepared: 07/30/24 Analyzed: 07/31/24

Benzene	2.28	0.0250	2.50		91.0	70-130			
Ethylbenzene	2.38	0.0250	2.50		95.4	70-130			
Toluene	2.38	0.0250	2.50		95.3	70-130			
o-Xylene	2.34	0.0250	2.50		93.6	70-130			
p,m-Xylene	4.70	0.0500	5.00		93.9	70-130			
Total Xylenes	7.04	0.0250	7.50		93.8	70-130			
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

Matrix Spike (2431051-MS1) Source: E407239-07 Prepared: 07/30/24 Analyzed: 07/31/24

Benzene	2.32	0.0250	2.50	ND	92.9	48-131			
Ethylbenzene	2.43	0.0250	2.50	ND	97.2	45-135			
Toluene	2.43	0.0250	2.50	ND	97.1	48-130			
o-Xylene	2.28	0.0250	2.50	ND	91.0	43-135			
p,m-Xylene	4.58	0.0500	5.00	ND	91.6	43-135			
Total Xylenes	6.85	0.0250	7.50	ND	91.4	43-135			
Surrogate: Bromofluorobenzene	0.476		0.500		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

Matrix Spike Dup (2431051-MSD1) Source: E407239-07 Prepared: 07/30/24 Analyzed: 07/31/24

Benzene	2.29	0.0250	2.50	ND	91.4	48-131	1.54	23	
Ethylbenzene	2.40	0.0250	2.50	ND	95.8	45-135	1.47	27	
Toluene	2.39	0.0250	2.50	ND	95.6	48-130	1.58	24	
o-Xylene	2.29	0.0250	2.50	ND	91.5	43-135	0.504	27	
p,m-Xylene	4.62	0.0500	5.00	ND	92.4	43-135	0.870	27	
Total Xylenes	6.91	0.0250	7.50	ND	92.1	43-135	0.749	27	
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431040-BLK1) Prepared: 07/30/24 Analyzed: 07/30/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.84		8.00		98.0	70-130			

LCS (2431040-BS1) Prepared: 07/30/24 Analyzed: 07/30/24

Benzene	4.99	0.0250	5.00		99.7	70-130			
Ethylbenzene	5.00	0.0250	5.00		100	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	4.99	0.0250	5.00		99.8	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.3	70-130			

Matrix Spike (2431040-MS1) Source: E407235-05 Prepared: 07/30/24 Analyzed: 07/30/24

Benzene	4.85	0.0250	5.00	ND	96.9	54-133			
Ethylbenzene	4.87	0.0250	5.00	ND	97.4	61-133			
Toluene	4.91	0.0250	5.00	ND	98.2	61-130			
o-Xylene	4.87	0.0250	5.00	ND	97.4	63-131			
p,m-Xylene	9.94	0.0500	10.0	ND	99.4	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.93		8.00		99.1	70-130			

Matrix Spike Dup (2431040-MSD1) Source: E407235-05 Prepared: 07/30/24 Analyzed: 07/30/24

Benzene	5.10	0.0250	5.00	ND	102	54-133	5.14	20	
Ethylbenzene	5.12	0.0250	5.00	ND	102	61-133	5.02	20	
Toluene	5.16	0.0250	5.00	ND	103	61-130	4.98	20	
o-Xylene	5.12	0.0250	5.00	ND	102	63-131	5.01	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	4.86	20	
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131	4.91	20	
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.8	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431040-BLK1) Prepared: 07/30/24 Analyzed: 07/30/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

LCS (2431040-BS2) Prepared: 07/30/24 Analyzed: 07/30/24

Gasoline Range Organics (C6-C10)	43.8	20.0	50.0		87.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			

Matrix Spike (2431040-MS2) Source: E407235-05 Prepared: 07/30/24 Analyzed: 07/30/24

Gasoline Range Organics (C6-C10)	43.8	20.0	50.0	ND	87.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130			

Matrix Spike Dup (2431040-MSD2) Source: E407235-05 Prepared: 07/30/24 Analyzed: 07/30/24

Gasoline Range Organics (C6-C10)	42.7	20.0	50.0	ND	85.4	70-130	2.47	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431051-BLK1) Prepared: 07/30/24 Analyzed: 07/31/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

LCS (2431051-BS2) Prepared: 07/30/24 Analyzed: 07/31/24

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0		106	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

Matrix Spike (2431051-MS2) Source: E407239-07 Prepared: 07/30/24 Analyzed: 07/31/24

Gasoline Range Organics (C6-C10)	55.3	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			

Matrix Spike Dup (2431051-MSD2) Source: E407239-07 Prepared: 07/30/24 Analyzed: 07/31/24

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130	1.49	20	
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.3	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431047-BLK1) Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			

LCS (2431047-BS1) Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	246	25.0	250		98.4	38-132			
Surrogate: n-Nonane	47.5		50.0		94.9	50-200			

Matrix Spike (2431047-MS1) Source: E407239-21 Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	453	125	250	145	123	38-132			
Surrogate: n-Nonane	47.9		50.0		95.8	50-200			

Matrix Spike Dup (2431047-MSD1) Source: E407239-21 Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	380	125	250	145	93.9	38-132	17.6	20	
Surrogate: n-Nonane	45.9		50.0		91.7	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431049-BLK1) Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.7		50.0		105	50-200			

LCS (2431049-BS1) Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	248	25.0	250		99.2	38-132			
Surrogate: n-Nonane	51.6		50.0		103	50-200			

Matrix Spike (2431049-MS1) Source: E407239-07 Prepared: 07/30/24 Analyzed: 08/01/24

Diesel Range Organics (C10-C28)	290	25.0	250	49.0	96.5	38-132			
Surrogate: n-Nonane	56.0		50.0		112	50-200			

Matrix Spike Dup (2431049-MSD1) Source: E407239-07 Prepared: 07/30/24 Analyzed: 08/01/24

Diesel Range Organics (C10-C28)	302	25.0	250	49.0	101	38-132	4.10	20	
Surrogate: n-Nonane	51.5		50.0		103	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431119-BLK1) Prepared: 08/01/24 Analyzed: 08/01/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.2		50.0		108	50-200			

LCS (2431119-BS1) Prepared: 08/01/24 Analyzed: 08/02/24

Diesel Range Organics (C10-C28)	237	25.0	250		94.6	38-132			
Surrogate: n-Nonane	53.4		50.0		107	50-200			

LCS Dup (2431119-BSD1) Prepared: 08/01/24 Analyzed: 08/02/24

Diesel Range Organics (C10-C28)	238	25.0	250		95.4	38-132	0.769	20	
Surrogate: n-Nonane	53.2		50.0		106	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2431044-BLK1)					Prepared: 07/30/24 Analyzed: 07/30/24				
Chloride	ND	20.0							
LCS (2431044-BS1)					Prepared: 07/30/24 Analyzed: 07/30/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2431044-MS1)					Source: E407235-05		Prepared: 07/30/24 Analyzed: 07/30/24		
Chloride	292	20.0	250	38.7	101	80-120			
Matrix Spike Dup (2431044-MSD1)					Source: E407235-05		Prepared: 07/30/24 Analyzed: 07/30/24		
Chloride	292	20.0	250	38.7	101	80-120	0.0791	20	



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	8/19/2024 10:53:16AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431059-BLK1)				Prepared: 07/30/24 Analyzed: 07/30/24					
Chloride	ND	20.0							
LCS (2431059-BS1)				Prepared: 07/30/24 Analyzed: 07/30/24					
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2431059-MS1)				Source: E407239-07		Prepared: 07/30/24 Analyzed: 07/30/24			
Chloride	574	20.0	250	301	109	80-120			
Matrix Spike Dup (2431059-MSD1)				Source: E407239-07		Prepared: 07/30/24 Analyzed: 07/30/24			
Chloride	556	20.0	250	301	102	80-120	3.21	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	08/19/24 10:53

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

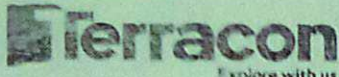
Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



CHAIN OF CUSTODY RECORD

Page 1 of 2

 Office Location: 4526 W. Pierce St Carlsbad NM, 88220 Project Manager: Joseph Guesnier Sampler's Name: Gus Sanchez		Laboratory: _____		ANALYSIS REQUEST				LAB USE ONLY DUE DATE:						
		Address: _____ Phone: _____ Contact: _____ SRS #: _____ Sampler's Signature: _____		Chloride (EPA Method 300) TPH Extended 8015 BTEX (EPA Method 8021B)				W0:E407239 Job# 21102-0001						
Project Number: 104247005		Project Name: Leak #149		No. Type of Containers				Lab Sample ID						
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml Poly	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Lab Sample ID
S	7/25/2024	11:21	X		FS-10 FS 07	8	8	X			X	X	X	15453516
S	7/25/2024	11:19	X		FS-10 FS 11	8	8	X			X	X	X	
S	7/25/2024	11:18	X		FS 14	8	8	X			X	X	X	
S	7/25/2024	11:31	X		FS 19	4	4	X			X	X	X	
S	7/25/2024	11:33	X		FS 23	4	4	X			X	X	X	
S	7/25/2024	11:35	X		FS 24	4	4	X			X	X	X	
S	7/25/2024	11:36	X		FS 25	4	4	X			X	X	X	
S	7/25/2024	12:00	X		FS 63	9	9	X			X	X	X	
S	7/25/2024	11:28	X		FS 68	14	14	X			X	X	X	
S	7/25/2024	11:30	X		FS 70	17	17	X			X	X	X	
S	7/25/2024	11:32	X		FS 73	18	18	X			X	X	X	
S	7/25/2024	11:35	X		FS 76	17	17	X			X	X	X	
S	7/25/2024	11:36	X		FS 79	20	20	X			X	X	X	
S	7/25/2024	12:20	X		FS 82	20	20	X			X	X	X	
S	7/25/2024	12:28	X		FS 86	17	17	X			X	X	X	
S	7/25/2024	12:30	X		FS 90	9	9	X			X	X	X	
TURNAROUND TIME <input type="checkbox"/> Normal <input type="checkbox"/> 48-Hour Rush <input type="checkbox"/> 24-Hour Rush TRRP Laboratory Review Checklist <input type="checkbox"/> Yes <input type="checkbox"/> No														
Relinquished by (Signature): <i>[Signature]</i>		Date: 7-29-24	Time: 11:40	Received by (Signature): <i>Michelle Gonzales</i>		Date: 7-29-24	Time: 1140	Targa		e-mail results to:				
Relinquished by (Signature): <i>[Signature]</i>		Date: 7-29-24	Time: 1700	Received by (Signature): <i>[Signature]</i>		Date: 7-29-24	Time: 1700	Att: Amber Groves		joseph.guesnier@terracon.com				
Relinquished by (Signature): <i>[Signature]</i>		Date: 7-29-24	Time: 2145	Received by (Signature): <i>[Signature]</i>		Date: 7-30-24	Time: 0830			travis.casey@terracon.com				
TEMP OF COOLER WHEN RECEIVED (oC): 4										mike.adams@terracon.com				
Matrix: WW-Wastewater W-Water S-Soil L-Liquid A-Air Bag C-Charcoal tube SL-Sludge										beckysue.miller@terracon.com				
Container: VOA - 40 ml vial A/G - Amber C 250 ml = Glass wide mouth P/O - Plastic or other										gus.sanchez@terracon.com				
										chuck.smith@terracon.com				
Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140														

Page 2 of 2

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CHAIN OF CUSTODY RECORD

Page 1 of 2



Office Location 4526 W. Pierce St Carlsbad NM, 88220
Project Manager Joseph Guesnier
Sampler's Name Gus Sanchez

Laboratory:
Address:
Phone:
Contact:
SRS #:
Sampler's Signature

ANALYSIS REQUEST

LAB USE ONLY DUE DATE:

WO: E407239

JOB# 21102-0001

Project Number
KH247005

Project Name

Leak #149

No. Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml Poly	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)
	7/25/2024	11:21	X		FS 07	8	8	X			X	X	X
S	7/25/2024	11:19	X		FS 11	8	8	X			X	X	X
S	7/25/2024	11:18	X		FS 14	8	8	X			X	X	X
S	7/25/2024	11:31	X		FS 19	4	4	X			X	X	X
S	7/25/2024	11:33	X		FS 23	4	4	X			X	X	X
S	7/25/2024	11:35	X		FS 24	4	4	X			X	X	X
S	7/25/2024	11:36	X		FS 25	4	4	X			X	X	X
S	7/25/2024	12:00	X		FS 63	9	9	X			X	X	X
S	7/25/2024	11:28	X		FS 68	14	14	X			X	X	X
S	7/25/2024	11:30	X		FS 70	17	17	X			X	X	X
S	7/25/2024	11:32	X		FS 73	18	18	X			X	X	X
S	7/25/2024	11:35	X		FS 76	17	17	X			X	X	X
S	7/25/2024	11:36	X		FS 79	20	20	X			X	X	X
S	7/25/2024	12:20	X		FS 82	20	20	X			X	X	X
S	7/25/2024	12:28	X		FS 86	17	17	X			X	X	X
S	7/25/2024	12:30	X		FS 90	9	9	X			X	X	X

Lab Sample ID

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16TURNAROUND TIME ☐ Normal ☐ 48-Hour Rush ☐ 24-Hour Rush TRRP Laboratory Review Checklist ☐ Yes ☐ No

Relinquished by (Signature)	Date: 7-29-24	Time: 11:40	Received by (Signature)	Date: 7-29-24	Time: 11:40	Bill To:
Michelle Gonzales	7-29-24	1700	J.M.	7-29-24	1700	Targa
Relinquished by (Signature)	Date: 7-29-24	Time: 2145	Received by (Signature)	Date: 7-30-24	Time: 0830	Att: Amber Groves
J.M.	7-29-24	2145	[Signature]	7-30-24	0830	

TEMP OF COOLER
WHEN RECEIVED (oC)

4

Matrix WW-Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal tube SL - Sludge
Container VOA - 40 ml vial A/G - Amber C 250 ml = Glass wide mouth P/O - Plastic or other

e-mail results to:

joseph.guesnier@terracon.com
travis.casey@terracon.com
mike.adams@terracon.com
beckysue.miller@terracon.com
gus.sanchez@terracon.com
chuck.smith@terracon.com

Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140

CHAIN OF CUSTODY RECORD

Page 2 of 2



Office Location 4526 W. Pierce St Carlsbad NM, 88220
Project Manager Joseph Guesnier
Sampler's Name Gus Sanchez

Laboratory:
Address:
Phone:
Contact:
SRS #:
Sampler's Signature

ANALYSIS REQUEST

LAB USE ONLY DUE DATE:

WO: F40723A
Job # 21102-0001

Project Number KH247005 Project Name Leak #149 No. Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml Poly	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Lab Sample ID
S	7/25/2024	10:38	X		W-SW-01	4	8	X			X	X	X	17
S	7/25/2024	10:39	X		W-SW-01	8	16	X			X	X	X	18
S	7/25/2024	10:46	X		N-SW-01	8	16	X			X	X	X	19
S	7/25/2024	10:52	X		N-SW-04	8	16	X			X	X	X	20
S	7/25/2024	10:55	X		S-SW-06	16	20	X			X	X	X	21
S	7/25/2024	12:12	X		E-SW-01	0	4	X			X	X	X	22
S	7/25/2024	11:05	X		E-SW-01	4	8	X			X	X	X	23
S	7/25/2024	12:40	X		E-SW-01	8	16	X			X	X	X	24

TURNAROUND TIME ☐ Normal ☐ 48-Hour Rush ☐ 24-Hour Rush TRRP Laboratory Review Checklist ☐ Yes ☐ No

Relinquished by (Signature) <i>[Signature]</i>	Date: 7-29-24	Time: 11:40	Received by (Signature) <i>Michelle Gonzales</i>	Date: 7-29-24	Time: 11:40	Bill To:
Relinquished by (Signature) <i>Michelle Gonzales</i>	Date: 7-29-24	Time: 1700	Received by (Signature) <i>A.M.</i>	Date: 7-29-24	Time: 1700	Targa
Relinquished by (Signature) <i>A.M.</i>	Date: 7-29-24	Time: 2145	Received by (Signature) <i>[Signature]</i>	Date: 7-30-24	Time: 0830	Att: Amber Groves

TEMP OF COOLER WHEN RECEIVED (oC) 4

e-mail results to:

joseph.guesnier@terracon.com
travis.casey@terracon.com
mike.adams@terracon.com
beckysue.miller@terracon.com
gus.sanchez@terracon.com
chuck.smith@terracon.com

Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140

Envirotech Analytical Laboratory

Printed: 7/30/2024 11:28:39AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Terracon	Date Received:	07/30/24 08:30	Work Order ID:	E407239
Phone:	(806) 544-9276	Date Logged In:	07/30/24 09:32	Logged In By:	Noe Soto
Email:	joseph.guesnier@terracon.com	Due Date:	08/05/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.


Date



envirotech Inc.


CHAIN OF CUSTODY RECORD

Page 1 of 2

 Office Location: 4526 W. Pierce St Carlsbad NM, 88220 Project Manager: Joseph Guesnier Sampler's Name: Gus Sanchez		Laboratory:		ANALYSIS REQUEST				LAB USE ONLY DUE DATE						
		Address:						W0:E407239						
Phone:		Contact:						JOB# 21102-0001						
SRS #:		Sampler's Signature:												
Project Number: 8424704		Project Name: Leak #149		No. Type of Containers										
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml Poly	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Lab Sample ID
S	7/25/2024	11:01	X		FS 07	8	8	X			X	X	X	per. G. Sanchez 8/19/24 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
S	7/25/2024	11:19	X		FS 10 FS 11	8	8	X			X	X	X	
S	7/25/2024	11:18	X		FS 14	8	8	X			X	X	X	
S	7/25/2024	11:31	X		FS 19	8	8	X			X	X	X	
S	7/25/2024	11:33	X		FS 23	8	8	X			X	X	X	
S	7/25/2024	11:35	X		FS 24	8	8	X			X	X	X	
S	7/25/2024	11:36	X		FS 25	8	8	X			X	X	X	
S	7/25/2024	12:00	X		FS 63	9	9	X			X	X	X	
S	7/25/2024	11:28	X		FS 68	14	14	X			X	X	X	
S	7/25/2024	11:30	X		FS 70	17	17	X			X	X	X	
S	7/25/2024	11:32	X		FS 73	18	18	X			X	X	X	
S	7/25/2024	11:35	X		FS 76	17	17	X			X	X	X	
S	7/25/2024	11:36	X		FS 79	20	20	X			X	X	X	
S	7/25/2024	12:20	X		FS 82	20	20	X			X	X	X	
S	7/25/2024	12:28	X		FS 86	17	17	X			X	X	X	
S	7/25/2024	12:30	X		FS 90	9	9	X			X	X	X	
TURNAROUND TIME <input type="checkbox"/> Normal <input type="checkbox"/> 48-Hour Rush <input type="checkbox"/> 24-Hour Rush TRRP Laboratory Review Checklist <input type="checkbox"/> Yes <input type="checkbox"/> No														
Relinquished by (Signature)		Date: 7-29-24	Time: 11:40	Received by (Signature)		Date: 7-29-24	Time: 11:40	Targa		e-mail results to:				
Relinquished by (Signature)		Date: 7-29-24	Time: 1700	Received by (Signature)		Date: 7-29-24	Time: 1700	Att Amber Groves		joseph.guesnier@terracon.com				
Relinquished by (Signature)		Date: 7-29-24	Time: 2145	Received by (Signature)		Date: 7-30-24	Time: 0830			travis.casey@terracon.com				
TEMP OF COOLER WHEN RECEIVED (oC)		4								mike.adams@terracon.com				
Matrix		WW-Wastewater W-Water S-Soil L-Liquid A-Air Bag C-Charcoal tube SL-Sludge								beckysue.miller@terracon.com				
Container		VOA - 40 ml vial A/G - Amber C 250 ml - Glass wide mouth P/O - Plastic or other								gus.sanchez@terracon.com				
Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140														

CHAIN OF CUSTODY RECORD

Page 2 of 2

 Explore with us		Laboratory:		ANALYSIS REQUEST				LAB USE ONLY DUE DATE:						
		Address:						WO: F407239						
Office Location		4526 W. Pierce St Carlsbad NM, 88220		Phone:				Job # 21102-0001						
Project Manager		Joseph Guesnier		Contact:										
Sampler's Name		Gus Sanchez		SRS #:										
		Sampler's Signature												
Project Number		Project Name		No. Type of Containers										
KH247005		Leak #149												
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml Poly	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Lab Sample ID
S	7/25/2024	10:38	X		W-SW-01	4	8	X			X	X	X	17
S	7/25/2024	10:39	X		W-SW-01	8	16	X			X	X	X	18
S	7/25/2024	10:46	X		N-SW-01	8	16	X			X	X	X	19
S	7/25/2024	10:52	X		N-SW-04	8	16	X			X	X	X	20
S	7/25/2024	10:55	X		S-SW-06	16	20	X			X	X	X	21
S	7/25/2024	12:12	X		E-SW-04	0	4	X			X	X	X	22
S	7/25/2024	11:05	X		E-SW-04	4	8	X			X	X	X	23
S	7/25/2024	12:40	X		E-SW-04	8	16	X			X	X	X	24
TURNAROUND TIME <input type="checkbox"/> Normal <input type="checkbox"/> 48-Hour Rush <input type="checkbox"/> 24-Hour Rush TRRP Laboratory Review Checklist <input type="checkbox"/> Yes <input type="checkbox"/> No														
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:	Targa		e-mail results to:				
<i>[Signature]</i>		7-29-24	11:40	<i>Michelle Gonzales</i>		7-29-24	11:40	Att: Amber Groves		joseph.guesnier@terracon.com				
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:			travis.casey@terracon.com				
<i>Michelle Gonzales</i>		7-29-24	1700	<i>A.M.</i>		7-29-24	1700			mike.adams@terracon.com				
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:			beckysue.miller@terracon.com				
<i>[Signature]</i>		7-29-24	2145	<i>[Signature]</i>		7-30-24	0830			gus.sanchez@terracon.com				
TEMP OF COOLER		4												
WHEN RECEIVED (oC)														
Matrix		WW-Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal tube SL - Sludge												
Container		VOA - 40 ml vial A/G - Amber C 250 ml = Glass wide mouth P/O - Plastic or other												
Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140														

Report to:
Gus Sanchez



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Terracon

Project Name: Leak #149

Work Order: E408104

Job Number: 21102-0001

Received: 8/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/13/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/13/24

Gus Sanchez
4518 W. Pierce St
Carlsbad, NM 87401



Project Name: Leak #149
Workorder: E408104
Date Received: 8/12/2024 8:15:00AM

Gus Sanchez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/12/2024 8:15:00AM, under the Project Name: Leak #149.

The analytical test results summarized in this report with the Project Name: Leak #149 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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mgonzales@envirotech-inc.com

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Sample Summary

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	08/13/24 15:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-SW-05 0-4	E408104-01A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	8/13/2024 3:41:09PM

S-SW-05 0-4
E408104-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2433003	
Benzene	ND	0.0250	1	08/12/24	08/12/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/12/24	
Toluene	ND	0.0250	1	08/12/24	08/12/24	
o-Xylene	ND	0.0250	1	08/12/24	08/12/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/12/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/12/24	
Surrogate: 4-Bromochlorobenzene-PID	89.1 %	70-130		08/12/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2433003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.9 %	70-130		08/12/24	08/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2433001	
Diesel Range Organics (C10-C28)	70.3	50.0	2	08/12/24	08/12/24	
Oil Range Organics (C28-C36)	ND	100	2	08/12/24	08/12/24	
Surrogate: n-Nonane	123 %	50-200		08/12/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2433002	
Chloride	ND	20.0	1	08/12/24	08/12/24	

QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	8/13/2024 3:41:09PM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433003-BLK1)

Prepared: 08/12/24 Analyzed: 08/12/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.04		8.00		88.0	70-130			

LCS (2433003-BS1)

Prepared: 08/12/24 Analyzed: 08/12/24

Benzene	4.55	0.0250	5.00		91.0	70-130			
Ethylbenzene	4.76	0.0250	5.00		95.3	70-130			
Toluene	4.74	0.0250	5.00		94.9	70-130			
o-Xylene	4.77	0.0250	5.00		95.3	70-130			
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130			
Total Xylenes	14.5	0.0250	15.0		96.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.24		8.00		90.5	70-130			

Matrix Spike (2433003-MS1)

Source: E408106-06

Prepared: 08/12/24 Analyzed: 08/12/24

Benzene	4.46	0.0250	5.00	ND	89.3	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.4	61-133			
Toluene	4.69	0.0250	5.00	ND	93.7	61-130			
o-Xylene	4.72	0.0250	5.00	ND	94.5	63-131			
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131			
Total Xylenes	14.3	0.0250	15.0	ND	95.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.14		8.00		89.2	70-130			

Matrix Spike Dup (2433003-MSD1)

Source: E408106-06

Prepared: 08/12/24 Analyzed: 08/12/24

Benzene	4.17	0.0250	5.00	ND	83.4	54-133	6.83	20	
Ethylbenzene	4.42	0.0250	5.00	ND	88.5	61-133	6.52	20	
Toluene	4.38	0.0250	5.00	ND	87.7	61-130	6.65	20	
o-Xylene	4.43	0.0250	5.00	ND	88.6	63-131	6.40	20	
p,m-Xylene	9.02	0.0500	10.0	ND	90.2	63-131	6.35	20	
Total Xylenes	13.4	0.0250	15.0	ND	89.7	63-131	6.37	20	
Surrogate: 4-Bromochlorobenzene-PID	7.09		8.00		88.6	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	8/13/2024 3:41:09PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433003-BLK1) Prepared: 08/12/24 Analyzed: 08/12/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

LCS (2433003-BS2) Prepared: 08/12/24 Analyzed: 08/12/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			

Matrix Spike (2433003-MS2) Source: E408106-06 Prepared: 08/12/24 Analyzed: 08/12/24

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0	ND	90.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			

Matrix Spike Dup (2433003-MSD2) Source: E408106-06 Prepared: 08/12/24 Analyzed: 08/12/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.348	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	8/13/2024 3:41:09PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433001-BLK1) Prepared: 08/12/24 Analyzed: 08/12/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.8		50.0		120	50-200			

LCS (2433001-BS1) Prepared: 08/12/24 Analyzed: 08/12/24

Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	61.9		50.0		124	50-200			

Matrix Spike (2433001-MS1) Source: E408106-07 Prepared: 08/12/24 Analyzed: 08/12/24

Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	61.7		50.0		123	50-200			

Matrix Spike Dup (2433001-MSD1) Source: E408106-07 Prepared: 08/12/24 Analyzed: 08/12/24

Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	38-132	0.596	20	
Surrogate: n-Nonane	57.7		50.0		115	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	8/13/2024 3:41:09PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433002-BLK1)					Prepared: 08/12/24 Analyzed: 08/12/24				
Chloride	ND	20.0							
LCS (2433002-BS1)					Prepared: 08/12/24 Analyzed: 08/12/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2433002-MS1)					Source: E408105-01		Prepared: 08/12/24 Analyzed: 08/12/24		
Chloride	268	200	250	ND	107	80-120			
Matrix Spike Dup (2433002-MSD1)					Source: E408105-01		Prepared: 08/12/24 Analyzed: 08/12/24		
Chloride	267	200	250	ND	107	80-120	0.176	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	08/13/24 15:41

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Received by OCD: 11/1/2024 10:22:52 AM

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Envirotech Analytical Laboratory

Printed: 8/12/2024 10:08:30AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Terracon	Date Received:	08/12/24 08:15	Work Order ID:	E408104
Phone:	(806) 544-9276	Date Logged In:	08/09/24 15:42	Logged In By:	Alexa Michaels
Email:		Due Date:	08/13/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Gus Sanchez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Terracon

Project Name: Leak #149

Work Order: E408110

Job Number: 21102-0001

Received: 8/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/13/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



Date Reported: 8/13/24

Gus Sanchez
4518 W. Pierce St
Carlsbad, NM 87401

Project Name: Leak #149
Workorder: E408110
Date Received: 8/12/2024 8:15:00AM

Gus Sanchez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/12/2024 8:15:00AM, under the Project Name: Leak #149.

The analytical test results summarized in this report with the Project Name: Leak #149 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

Terracon	Project Name:	Leak #149	Reported: 08/13/24 15:47
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS-20 5-5	E408110-01A	Soil	08/08/24	08/10/24	Glass Jar, 2 oz.
FS-21 5-5	E408110-02A	Soil	08/08/24	08/10/24	Glass Jar, 2 oz.
FS-22 5-5	E408110-03A	Soil	08/08/24	08/10/24	Glass Jar, 2 oz.



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
8/13/2024 3:47:05PM

FS-20 5-5

E408110-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2433004
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		89.4 %	70-130	08/12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2433004
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		103 %	70-130	08/12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2433014
Diesel Range Organics (C10-C28)	66.8	50.0	2	08/12/24	08/12/24	
Oil Range Organics (C28-C36)	ND	100	2	08/12/24	08/12/24	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	08/12/24	08/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2433017
Chloride	372	20.0	1	08/12/24	08/12/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
8/13/2024 3:47:05PM

FS-21 5-5

E408110-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2433004
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.3 %	70-130		08/12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2433004
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		08/12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2433014
Diesel Range Organics (C10-C28)	89.3	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	132	50.0	1	08/12/24	08/13/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		08/12/24	08/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2433017
Chloride	191	20.0	1	08/12/24	08/12/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 8/13/2024 3:47:05PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

FS-22 5-5

E408110-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2433004	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
Surrogate: 4-Bromochlorobenzene-PID	89.7 %	70-130		08/12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2433004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	103 %	70-130		08/12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2433014	
Diesel Range Organics (C10-C28)	64.2	50.0	2	08/12/24	08/12/24	
Oil Range Organics (C28-C36)	ND	100	2	08/12/24	08/12/24	
Surrogate: n-Nonane	97.7 %	50-200		08/12/24	08/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2433017	
Chloride	410	20.0	1	08/12/24	08/12/24	



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	8/13/2024 3:47:05PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433004-BLK1) Prepared: 08/12/24 Analyzed: 08/13/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.17		8.00		89.6	70-130			

LCS (2433004-BS1) Prepared: 08/12/24 Analyzed: 08/13/24

Benzene	4.64	0.0250	5.00		92.7	70-130			
Ethylbenzene	4.63	0.0250	5.00		92.6	70-130			
Toluene	4.77	0.0250	5.00		95.4	70-130			
o-Xylene	4.73	0.0250	5.00		94.6	70-130			
p,m-Xylene	9.52	0.0500	10.0		95.2	70-130			
Total Xylenes	14.3	0.0250	15.0		95.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.14		8.00		89.2	70-130			

Matrix Spike (2433004-MS1) Source: E408105-07 Prepared: 08/12/24 Analyzed: 08/13/24

Benzene	4.75	0.0250	5.00	ND	95.1	54-133			
Ethylbenzene	4.74	0.0250	5.00	ND	94.8	61-133			
Toluene	4.89	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.86	0.0250	5.00	ND	97.1	63-131			
p,m-Xylene	9.74	0.0500	10.0	ND	97.4	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.24		8.00		90.6	70-130			

Matrix Spike Dup (2433004-MSD1) Source: E408105-07 Prepared: 08/12/24 Analyzed: 08/13/24

Benzene	4.83	0.0250	5.00	ND	96.6	54-133	1.55	20	
Ethylbenzene	4.81	0.0250	5.00	ND	96.3	61-133	1.54	20	
Toluene	4.97	0.0250	5.00	ND	99.3	61-130	1.51	20	
o-Xylene	4.94	0.0250	5.00	ND	98.7	63-131	1.59	20	
p,m-Xylene	9.88	0.0500	10.0	ND	98.8	63-131	1.45	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.8	63-131	1.50	20	
Surrogate: 4-Bromochlorobenzene-PID	7.27		8.00		90.8	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	8/13/2024 3:47:05PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433004-BLK1) Prepared: 08/12/24 Analyzed: 08/13/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.46		8.00		106	70-130			

LCS (2433004-BS2) Prepared: 08/12/24 Analyzed: 08/13/24

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0		80.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.59		8.00		107	70-130			

Matrix Spike (2433004-MS2) Source: E408105-07 Prepared: 08/12/24 Analyzed: 08/13/24

Gasoline Range Organics (C6-C10)	41.1	20.0	50.0	ND	82.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.56		8.00		107	70-130			

Matrix Spike Dup (2433004-MSD2) Source: E408105-07 Prepared: 08/12/24 Analyzed: 08/13/24

Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.9	70-130	2.92	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.49		8.00		106	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	8/13/2024 3:47:05PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433014-BLK1) Prepared: 08/12/24 Analyzed: 08/12/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.4		50.0		96.7	50-200			

LCS (2433014-BS1) Prepared: 08/12/24 Analyzed: 08/12/24

Diesel Range Organics (C10-C28)	238	25.0	250		95.3	38-132			
Surrogate: n-Nonane	46.4		50.0		92.8	50-200			

Matrix Spike (2433014-MS1) Source: E408110-02 Prepared: 08/12/24 Analyzed: 08/13/24

Diesel Range Organics (C10-C28)	320	25.0	250	89.3	92.2	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			

Matrix Spike Dup (2433014-MSD1) Source: E408110-02 Prepared: 08/12/24 Analyzed: 08/13/24

Diesel Range Organics (C10-C28)	318	25.0	250	89.3	91.6	38-132	0.455	20	
Surrogate: n-Nonane	47.9		50.0		95.8	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	8/13/2024 3:47:05PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2433017-BLK1)					Prepared: 08/12/24 Analyzed: 08/12/24				
Chloride	ND	20.0							
LCS (2433017-BS1)					Prepared: 08/12/24 Analyzed: 08/12/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2433017-MS1)					Source: E408110-01		Prepared: 08/12/24 Analyzed: 08/12/24		
Chloride	642	20.0	250	372	108	80-120			
Matrix Spike Dup (2433017-MSD1)					Source: E408110-01		Prepared: 08/12/24 Analyzed: 08/12/24		
Chloride	630	20.0	250	372	103	80-120	1.78	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.

Definitions and Notes

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	08/13/24 15:47

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Received by OCD: 11/1/2024 10:22:52 AM

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Envirotech Analytical Laboratory

Printed: 8/12/2024 8:37:14AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Terracon	Date Received:	08/12/24 08:15	Work Order ID:	E408110
Phone:	(806) 544-9276	Date Logged In:	08/12/24 08:34	Logged In By:	Alexa Michaels
Email:		Due Date:	08/13/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:

Joseph Guesnier



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Terracon

Project Name: Leak #149

Work Order: E402221

Job Number: 21102-0001

Received: 2/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/29/24

5796 U.S. Hwy 64
Farmington, NM 87401

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Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/29/24



Joseph Guesnier
4518 W. Pierce St
Carlsbad, NM 87401

Project Name: Leak #149
Workorder: E402221
Date Received: 2/23/2024 8:00:00AM

Joseph Guesnier,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/23/2024 8:00:00AM, under the Project Name: Leak #149.

The analytical test results summarized in this report with the Project Name: Leak #149 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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Sample Summary

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	02/29/24 12:29

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 3'	E402221-01A	Soil	02/21/24	02/23/24	Glass Jar, 4 oz.
FS02 3'	E402221-02A	Soil	02/21/24	02/23/24	Glass Jar, 4 oz.
FS03 3'	E402221-03A	Soil	02/21/24	02/23/24	Glass Jar, 4 oz.
FS04 3'	E402221-04A	Soil	02/21/24	02/23/24	Glass Jar, 4 oz.
E -SW01 0 2'	E402221-05A	Soil	02/21/24	02/23/24	Glass Jar, 4 oz.
S -SW01 0 4'	E402221-06A	Soil	02/21/24	02/23/24	Glass Jar, 4 oz.
S -SW02 0 3'	E402221-07A	Soil	02/21/24	02/23/24	Glass Jar, 4 oz.



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	2/29/2024 12:29:18PM

FS01 3'

E402221-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2408090	
Benzene	ND	0.0250	1	02/23/24	02/29/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/29/24	
Toluene	ND	0.0250	1	02/23/24	02/29/24	
o-Xylene	ND	0.0250	1	02/23/24	02/29/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/29/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/29/24	
Surrogate: 4-Bromochlorobenzene-PID	87.7 %	70-130		02/23/24	02/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2408090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.3 %	70-130		02/23/24	02/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409007	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane	76.0 %	50-200		02/26/24	02/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2408094	
Chloride	49.2	20.0	1	02/23/24	02/24/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
2/29/2024 12:29:18PM

FS02 3'

E402221-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2408090	
Benzene	ND	0.0250	1	02/23/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/28/24	
Toluene	ND	0.0250	1	02/23/24	02/28/24	
o-Xylene	ND	0.0250	1	02/23/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	90.9 %	70-130		02/23/24	02/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2408090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	98.5 %	70-130		02/23/24	02/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409007	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
<i>Surrogate: n-Nonane</i>	78.8 %	50-200		02/26/24	02/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2408094	
Chloride	43.2	20.0	1	02/23/24	02/24/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	2/29/2024 12:29:18PM

FS03 3'

E402221-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2408090	
Benzene	ND	0.0250	1	02/23/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/28/24	
Toluene	ND	0.0250	1	02/23/24	02/28/24	
o-Xylene	ND	0.0250	1	02/23/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		02/23/24	02/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2408090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.9 %	70-130		02/23/24	02/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409007	
Diesel Range Organics (C10-C28)	757	125	5	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	370	250	5	02/26/24	02/27/24	
<i>Surrogate: n-Nonane</i>						
	82.9 %	50-200		02/26/24	02/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2408094	
Chloride	318	20.0	1	02/23/24	02/24/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
2/29/2024 12:29:18PM

FS04 3'

E402221-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2408090	
Benzene	ND	0.0250	1	02/23/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/28/24	
Toluene	ND	0.0250	1	02/23/24	02/28/24	
o-Xylene	ND	0.0250	1	02/23/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.4 %	70-130		02/23/24	02/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2408090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.7 %	70-130		02/23/24	02/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409007	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
<i>Surrogate: n-Nonane</i>						
	81.5 %	50-200		02/26/24	02/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2408094	
Chloride	32.1	20.0	1	02/23/24	02/24/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
2/29/2024 12:29:18PM

E -SW01 0 2'

E402221-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2408090	
Benzene	ND	0.0250	1	02/23/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/28/24	
Toluene	ND	0.0250	1	02/23/24	02/28/24	
o-Xylene	ND	0.0250	1	02/23/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.9 %	70-130		02/23/24	02/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2408090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.2 %	70-130		02/23/24	02/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409007	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
<i>Surrogate: n-Nonane</i>						
	83.9 %	50-200		02/26/24	02/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2408094	
Chloride	ND	20.0	1	02/23/24	02/24/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	2/29/2024 12:29:18PM

S -SW01 0 4'
E402221-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2408090	
Benzene	ND	0.0250	1	02/23/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/28/24	
Toluene	ND	0.0250	1	02/23/24	02/28/24	
o-Xylene	ND	0.0250	1	02/23/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/28/24	
Surrogate: 4-Bromochlorobenzene-PID	90.5 %	70-130		02/23/24	02/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2408090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.1 %	70-130		02/23/24	02/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409007	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane	83.4 %	50-200		02/26/24	02/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2408094	
Chloride	33.0	20.0	1	02/23/24	02/24/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	2/29/2024 12:29:18PM

S -SW02 0 3'
E402221-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2408090	
Benzene	ND	0.0250	1	02/23/24	02/28/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/28/24	
Toluene	ND	0.0250	1	02/23/24	02/28/24	
o-Xylene	ND	0.0250	1	02/23/24	02/28/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/28/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/28/24	
Surrogate: 4-Bromochlorobenzene-PID	89.7 %	70-130		02/23/24	02/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2408090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.1 %	70-130		02/23/24	02/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409007	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane	66.2 %	50-200		02/26/24	02/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2408094	
Chloride	ND	20.0	1	02/23/24	02/24/24	



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	2/29/2024 12:29:18PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2408090-BLK1) Prepared: 02/23/24 Analyzed: 02/29/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.01		8.00		87.6	70-130			

LCS (2408090-BS1) Prepared: 02/23/24 Analyzed: 02/29/24

Benzene	4.70	0.0250	5.00		94.0	70-130			
Ethylbenzene	4.65	0.0250	5.00		93.0	70-130			
Toluene	4.67	0.0250	5.00		93.5	70-130			
o-Xylene	4.59	0.0250	5.00		91.8	70-130			
p,m-Xylene	9.35	0.0500	10.0		93.5	70-130			
Total Xylenes	13.9	0.0250	15.0		92.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.01		8.00		87.6	70-130			

Matrix Spike (2408090-MS1) Source: E402221-01 Prepared: 02/23/24 Analyzed: 02/29/24

Benzene	4.96	0.0250	5.00	ND	99.2	54-133			
Ethylbenzene	4.92	0.0250	5.00	ND	98.5	61-133			
Toluene	4.94	0.0250	5.00	ND	98.8	61-130			
o-Xylene	4.86	0.0250	5.00	ND	97.3	63-131			
p,m-Xylene	9.90	0.0500	10.0	ND	99.0	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.92		8.00		86.6	70-130			

Matrix Spike Dup (2408090-MSD1) Source: E402221-01 Prepared: 02/23/24 Analyzed: 02/29/24

Benzene	4.81	0.0250	5.00	ND	96.2	54-133	3.09	20	
Ethylbenzene	4.79	0.0250	5.00	ND	95.7	61-133	2.86	20	
Toluene	4.80	0.0250	5.00	ND	96.0	61-130	2.87	20	
o-Xylene	4.72	0.0250	5.00	ND	94.3	63-131	3.08	20	
p,m-Xylene	9.62	0.0500	10.0	ND	96.2	63-131	2.94	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.5	63-131	2.98	20	
Surrogate: 4-Bromochlorobenzene-PID	6.93		8.00		86.6	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	2/29/2024 12:29:18PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2408090-BLK1) Prepared: 02/23/24 Analyzed: 02/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.7	70-130			

LCS (2408090-BS2) Prepared: 02/23/24 Analyzed: 02/29/24

Gasoline Range Organics (C6-C10)	47.3	20.0	50.0		94.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.96		8.00		99.5	70-130			

Matrix Spike (2408090-MS2) Source: E402221-01 Prepared: 02/23/24 Analyzed: 02/29/24

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.9	70-130			

Matrix Spike Dup (2408090-MSD2) Source: E402221-01 Prepared: 02/23/24 Analyzed: 02/29/24

Gasoline Range Organics (C6-C10)	52.7	20.0	50.0	ND	105	70-130	3.63	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		8.00		100	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	2/29/2024 12:29:18PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409007-BLK1) Prepared: 02/26/24 Analyzed: 02/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.0		50.0		80.0	50-200			

LCS (2409007-BS1) Prepared: 02/26/24 Analyzed: 02/26/24

Diesel Range Organics (C10-C28)	229	25.0	250		91.8	38-132			
Surrogate: n-Nonane	40.6		50.0		81.2	50-200			

Matrix Spike (2409007-MS1) Source: E402216-01 Prepared: 02/26/24 Analyzed: 02/26/24

Diesel Range Organics (C10-C28)	237	25.0	250	ND	94.6	38-132			
Surrogate: n-Nonane	40.0		50.0		79.9	50-200			

Matrix Spike Dup (2409007-MSD1) Source: E402216-01 Prepared: 02/26/24 Analyzed: 02/26/24

Diesel Range Organics (C10-C28)	237	25.0	250	ND	94.6	38-132	0.00630	20	
Surrogate: n-Nonane	40.3		50.0		80.6	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	2/29/2024 12:29:18PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2408094-BLK1)					Prepared: 02/23/24 Analyzed: 02/23/24				
Chloride	ND	20.0							
LCS (2408094-BS1)					Prepared: 02/23/24 Analyzed: 02/24/24				
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2408094-MS1)					Source: E402218-01		Prepared: 02/23/24 Analyzed: 02/24/24		
Chloride	279	100	250	ND	112	80-120			
Matrix Spike Dup (2408094-MSD1)					Source: E402218-01		Prepared: 02/23/24 Analyzed: 02/24/24		
Chloride	294	100	250	ND	118	80-120	5.42	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	02/29/24 12:29

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



[illegible]

Envirotech Analytical Laboratory

Printed: 2/23/2024 11:25:22AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Terracon	Date Received:	02/23/24 08:00	Work Order ID:	E402221
Phone:	(806) 544-9276	Date Logged In:	02/23/24 08:10	Logged In By:	Angelina Pineda
Email:	joseph.guesnier@terracon.com	Due Date:	02/29/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client InstructionComments/Resolution

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Travis Casey



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Terracon

Project Name: Leak #149

Work Order: E402287

Job Number: 21102-0001

Received: 2/29/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/7/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 3/7/24

Travis Casey
4518 W. Pierce St
Carlsbad, NM 87401



Project Name: Leak #149
Workorder: E402287
Date Received: 2/29/2024 5:30:00AM

Travis Casey,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/29/2024 5:30:00AM, under the Project Name: Leak #149.

The analytical test results summarized in this report with the Project Name: Leak #149 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Travis Casey	03/07/24 13:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS 03 4 4	E402287-01A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
FS 05 3 3	E402287-02A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
FS 06 3 3	E402287-03A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
FS 07 2 2	E402287-04A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
FS 08 2 2	E402287-05A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
FS 09 2 2	E402287-06A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
FS 10 2 2	E402287-07A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
FS 11 3 3	E402287-08A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
FS 12 3 3	E402287-09A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
FS 13 3 3	E402287-10A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
FS 14 3 3	E402287-11A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
FS 15 3 3	E402287-12A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
FS 16 3 3	E402287-13A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
FS 17 3 3	E402287-14A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
FS 18 3 3	E402287-15A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
FS 19 3 3	E402287-16A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
W-SW-01 0 3	E402287-17A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
N-SW-02 0 3	E402287-18A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.
N-SW-01 0 3	E402287-19A	Soil	02/26/24	02/29/24	Glass Jar, 4 oz.



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Travis Casey

Reported:
3/7/2024 1:52:50PM

FS 03 4 4

E402287-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2409070
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
Surrogate: 4-Bromochlorobenzene-PID	93.9 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2409070
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.2 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2410040
Diesel Range Organics (C10-C28)	72.4	25.0	1	03/05/24	03/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/05/24	
Surrogate: n-Nonane	89.6 %	50-200		03/05/24	03/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2409074
Chloride	170	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 3/7/2024 1:52:50PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Travis Casey	

FS 05 3 3

E402287-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
Surrogate: 4-Bromochlorobenzene-PID	95.6 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.9 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	49.6	25.0	1	03/05/24	03/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/05/24	
Surrogate: n-Nonane	87.8 %	50-200		03/05/24	03/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409074	
Chloride	ND	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Travis Casey

Reported:
3/7/2024 1:52:50PM

FS 06 3 3

E402287-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.3 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.6 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/05/24	
<i>Surrogate: n-Nonane</i>						
	91.5 %	50-200		03/05/24	03/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409074	
Chloride	ND	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Travis Casey

Reported:
3/7/2024 1:52:50PM

FS 07 2 2

E402287-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.6 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	54.4	25.0	1	03/05/24	03/05/24	
Oil Range Organics (C28-C36)	53.5	50.0	1	03/05/24	03/05/24	
<i>Surrogate: n-Nonane</i>						
	94.3 %	50-200		03/05/24	03/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409074	
Chloride	39.5	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Travis Casey	3/7/2024 1:52:50PM

FS 08 2 2

E402287-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
Surrogate: 4-Bromochlorobenzene-PID	95.3 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.8 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	50.8	25.0	1	03/05/24	03/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/05/24	
Surrogate: n-Nonane	90.3 %	50-200		03/05/24	03/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409074	
Chloride	57.3	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Travis Casey

Reported:
3/7/2024 1:52:50PM

FS 09 2 2

E402287-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.1 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.4 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	43.4	25.0	1	03/05/24	03/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/05/24	
<i>Surrogate: n-Nonane</i>	92.7 %	50-200		03/05/24	03/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409074	
Chloride	70.2	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 3/7/2024 1:52:50PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Travis Casey	

FS 10 2 2

E402287-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.6 %	70-130	02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	188	125	5	03/05/24	03/05/24	
Oil Range Organics (C28-C36)	ND	250	5	03/05/24	03/05/24	
<i>Surrogate: n-Nonane</i>		91.5 %	50-200	03/05/24	03/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409074	
Chloride	62.9	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Travis Casey

Reported:
3/7/2024 1:52:50PM

FS 11 3 3

E402287-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.7 %	70-130	02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	61.9	25.0	1	03/05/24	03/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/06/24	
<i>Surrogate: n-Nonane</i>						
		92.2 %	50-200	03/05/24	03/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409074	
Chloride	74.7	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 3/7/2024 1:52:50PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Travis Casey	

FS 12 3 3

E402287-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.1 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/06/24	
<i>Surrogate: n-Nonane</i>						
	86.2 %	50-200		03/05/24	03/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409074	
Chloride	45.8	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 3/7/2024 1:52:50PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Travis Casey	

FS 1333
E402287-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.9 %	70-130	02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/06/24	
<i>Surrogate: n-Nonane</i>						
		89.4 %	50-200	03/05/24	03/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409074	
Chloride	383	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Travis Casey

Reported:
3/7/2024 1:52:50PM

FS 14 3 3

E402287-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.1 %	70-130	02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	234	50.0	2	03/05/24	03/06/24	
Oil Range Organics (C28-C36)	106	100	2	03/05/24	03/06/24	
<i>Surrogate: n-Nonane</i>		90.2 %	50-200	03/05/24	03/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409074	
Chloride	421	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Travis Casey

Reported:
3/7/2024 1:52:50PM

FS 15 3 3

E402287-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.8 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.5 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	28.2	25.0	1	03/05/24	03/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/06/24	
<i>Surrogate: n-Nonane</i>						
	89.6 %	50-200		03/05/24	03/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409074	
Chloride	62.8	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Travis Casey	3/7/2024 1:52:50PM

FS 16 3 3

E402287-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
Surrogate: 4-Bromochlorobenzene-PID	98.4 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.9 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/06/24	
Surrogate: n-Nonane	85.0 %	50-200		03/05/24	03/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409074	
Chloride	42.4	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Travis Casey

Reported:
3/7/2024 1:52:50PM

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E402287-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.7 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.7 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	28.7	25.0	1	03/05/24	03/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/06/24	
<i>Surrogate: n-Nonane</i>						
	91.0 %	50-200		03/05/24	03/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2409074	
Chloride	543	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 3/7/2024 1:52:50PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Travis Casey	

FS 18 3 3

E402287-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
Surrogate: 4-Bromochlorobenzene-PID	99.0 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.0 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	63.8	50.0	2	03/05/24	03/06/24	
Oil Range Organics (C28-C36)	ND	100	2	03/05/24	03/06/24	
Surrogate: n-Nonane	87.9 %	50-200		03/05/24	03/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2409074	
Chloride	485	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Travis Casey

Reported:
3/7/2024 1:52:50PM

FS 19 3 3

E402287-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.6 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	89.1 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	115	25.0	1	03/05/24	03/06/24	
Oil Range Organics (C28-C36)	63.8	50.0	1	03/05/24	03/06/24	
<i>Surrogate: n-Nonane</i>	92.0 %	50-200		03/05/24	03/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2409074	
Chloride	489	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 3/7/2024 1:52:50PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Travis Casey	

W-SW-01 0 3
E402287-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
Surrogate: 4-Bromochlorobenzene-PID	99.0 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.7 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/06/24	
Surrogate: n-Nonane	87.2 %	50-200		03/05/24	03/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2409074	
Chloride	ND	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Travis Casey	3/7/2024 1:52:50PM

N-SW-02 0 3
E402287-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
Surrogate: 4-Bromochlorobenzene-PID	99.5 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.2 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/06/24	
Surrogate: n-Nonane	89.5 %	50-200		03/05/24	03/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2409074	
Chloride	ND	20.0	1	02/29/24	03/01/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 3/7/2024 1:52:50PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Travis Casey	

N-SW-01 0 3
E402287-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Benzene	ND	0.0250	1	02/29/24	03/06/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/06/24	
Toluene	ND	0.0250	1	02/29/24	03/06/24	
o-Xylene	ND	0.0250	1	02/29/24	03/06/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/06/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/06/24	
Surrogate: 4-Bromochlorobenzene-PID	98.0 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.8 %	70-130		02/29/24	03/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410040	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/06/24	
Surrogate: n-Nonane	88.2 %	50-200		03/05/24	03/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2409074	
Chloride	ND	20.0	1	02/29/24	03/01/24	



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Travis Casey	3/7/2024 1:52:50PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409070-BLK1)Prepared: 02/29/24 Analyzed: 03/06/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			

LCS (2409070-BS1)Prepared: 02/29/24 Analyzed: 03/06/24

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.1	70-130			
Toluene	5.10	0.0250	5.00		102	70-130			
o-Xylene	5.03	0.0250	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.6	70-130			

Matrix Spike (2409070-MS1)Source: E402287-03Prepared: 02/29/24 Analyzed: 03/06/24

Benzene	5.21	0.0250	5.00	ND	104	54-133			
Ethylbenzene	5.04	0.0250	5.00	ND	101	61-133			
Toluene	5.18	0.0250	5.00	ND	104	61-130			
o-Xylene	5.11	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.7	70-130			

Matrix Spike Dup (2409070-MSD1)Source: E402287-03Prepared: 02/29/24 Analyzed: 03/06/24

Benzene	5.12	0.0250	5.00	ND	102	54-133	1.67	20	
Ethylbenzene	4.95	0.0250	5.00	ND	99.1	61-133	1.69	20	
Toluene	5.10	0.0250	5.00	ND	102	61-130	1.61	20	
o-Xylene	5.03	0.0250	5.00	ND	101	63-131	1.59	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	1.57	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	1.57	20	
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Travis Casey	3/7/2024 1:52:50PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409070-BLK1) Prepared: 02/29/24 Analyzed: 03/06/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.00		8.00		87.5	70-130			

LCS (2409070-BS2) Prepared: 02/29/24 Analyzed: 03/06/24

Gasoline Range Organics (C6-C10)	38.7	20.0	50.0		77.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.12		8.00		89.0	70-130			

Matrix Spike (2409070-MS2) Source: E402287-03 Prepared: 02/29/24 Analyzed: 03/06/24

Gasoline Range Organics (C6-C10)	39.6	20.0	50.0	ND	79.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.5	70-130			

Matrix Spike Dup (2409070-MSD2) Source: E402287-03 Prepared: 02/29/24 Analyzed: 03/06/24

Gasoline Range Organics (C6-C10)	39.3	20.0	50.0	ND	78.6	70-130	0.765	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.7	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Travis Casey	3/7/2024 1:52:50PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2410040-BLK1) Prepared: 03/05/24 Analyzed: 03/05/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.3		50.0		88.7	50-200			

LCS (2410040-BS1) Prepared: 03/05/24 Analyzed: 03/05/24

Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
Surrogate: n-Nonane	46.7		50.0		93.3	50-200			

Matrix Spike (2410040-MS1) Source: E402287-03 Prepared: 03/05/24 Analyzed: 03/05/24

Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	49.7		50.0		99.4	50-200			

Matrix Spike Dup (2410040-MSD1) Source: E402287-03 Prepared: 03/05/24 Analyzed: 03/05/24

Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.1	38-132	9.28	20	
Surrogate: n-Nonane	43.9		50.0		87.7	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Travis Casey	3/7/2024 1:52:50PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409074-BLK1)					Prepared: 02/29/24 Analyzed: 03/01/24				
Chloride	ND	20.0							
LCS (2409074-BS1)					Prepared: 02/29/24 Analyzed: 03/01/24				
Chloride	249	20.0	250		99.5	90-110			
Matrix Spike (2409074-MS1)					Source: E402287-05		Prepared: 02/29/24 Analyzed: 03/01/24		
Chloride	312	20.0	250	57.3	102	80-120			
Matrix Spike Dup (2409074-MSD1)					Source: E402287-05		Prepared: 02/29/24 Analyzed: 03/01/24		
Chloride	315	20.0	250	57.3	103	80-120	0.979	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Travis Casey	03/07/24 13:52

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



CHAIN OF CUSTODY RECORD

WD# E402287
Job # 21102-0001

Page ____ of ____

TerraconLaboratory
Address:

ANALYSIS REQUEST

LAB USE ONLY DUE DATE:

Office Location 4518 W. Pierce St Carlsbad NM, 88220

Phone: 806 507 7057

Contact:

SRS #:

Sampler's Signature

Project Manager Travis Casey
Sampler's Name Gus SanchezProject Number
KH247005Project Name
Leak #149

No. Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml Poly	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Lab Sample ID
	2-26-24	2:11	✓		FS 03	4	4	✓			✓	✓	✓	1
		2:15			FS 05	3	3							2
		2:19			FS 06	2	2							3
		2:22			FS 07	2	2							4
		2:27			FS 08	2	2							5
		2:39			FS 09	2	2							6
		2:46			FS 10	2	2							7
		9:42			FS 11	3	3							8
		9:45			FS 12	3	3							9
		9:48			FS 13	3	3							10
		9:59			FS 14	3	3							11
		10:06			FS 15	3	3							12
		10:02			FS 16	3	3							13
		10:09			FS 17	3	3							14
		1:23			FS 18	3	3							15
		10:46			FS 19	3	3							16
		2:52			W-SW-01	0	3							17
		2:56			N-SW-02	0	3							18
		3:01			N-SW-01	0	3							19

TURNAROUND TIME ☒ Normal ☐ 48-Hour Rush ☐ 24-Hour Rush TRRP Laboratory Review Checklist ☐ Yes ☐ No

Relinquished by (Signature)	Date: 2/28	Time:	Received by (Signature)	Date: 2-28-24	Time: 1022	Bill To:
Relinquished by (Signature)	Date: 2-28-24	Time: 1710	Received by (Signature)	Date: 2-28	Time: 1749	Targa
Relinquished by (Signature)	Date: 2-29	Time: 2403	Received by (Signature)	Date: 2-29-24	Time: 0530	ep Amber Groves
TEMP OF COOLER WHEN RECEIVED (oC) 40						

e-mail results to:

joseph.guesnier@terracon.com

travis.casey@terracon.com

mike.adams@terracon.com

beckysue.miller@terracon.com

gus.sanchez@terracon.com

Matrix WW-Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal tube SL - Sludge
Container VOA - 40 ml vial A/G - Amber G 250 ml = Glass wide mouth P/O - Plastic or other

Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140

Envirotech Analytical Laboratory

Printed: 2/29/2024 10:21:07AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Terracon	Date Received:	02/29/24 05:30	Work Order ID:	E402287
Phone:	(806) 544-9276	Date Logged In:	02/28/24 16:15	Logged In By:	Alexa Michaels
Email:	joseph.guesnier@terracon.com	Due Date:	03/06/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client InstructionComments/Resolution

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Gus Sanchez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Terracon

Project Name: Leak #149

Work Order: E406049

Job Number: 21102-0001

Received: 6/6/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/14/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



Date Reported: 6/14/24

Gus Sanchez
4518 W. Pierce St
Carlsbad, NM 87401

Project Name: Leak #149
Workorder: E406049
Date Received: 6/6/2024 9:00:56AM

Gus Sanchez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/6/2024 9:00:56AM, under the Project Name: Leak #149.

The analytical test results summarized in this report with the Project Name: Leak #149 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
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Cell: 775-287-1762
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Sample Summary

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	06/14/24 12:32

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS-27 6-6	E406049-01A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-28 6-6	E406049-02A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-29 5-5	E406049-03A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-30 5-5	E406049-04A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-31 5-5	E406049-05A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-32 5-5	E406049-06A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-33 5-5	E406049-07A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-34 5-5	E406049-08A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-35 5-5	E406049-09A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-36 5-5	E406049-10A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-37 5-5	E406049-11A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-38 5-5	E406049-12A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-39 5-5	E406049-13A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-40 5-5	E406049-14A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-41 5-5	E406049-15A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-42 5-5	E406049-16A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-43 5-5	E406049-17A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-44 5-5	E406049-18A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-45 5-5	E406049-19A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-46 5-5	E406049-20A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-47 5-5	E406049-21A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.
FS-48 5-5	E406049-22A	Soil	06/03/24	06/06/24	Glass Jar, 2 oz.



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

FS-27 6-6

E406049-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Benzene	ND	0.0250	1	06/06/24	06/12/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/12/24	
Toluene	ND	0.0250	1	06/06/24	06/12/24	
o-Xylene	ND	0.0250	1	06/06/24	06/12/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/12/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/12/24	
Surrogate: 4-Bromochlorobenzene-PID	90.8 %	70-130		06/06/24	06/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	110 %	70-130		06/06/24	06/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424036	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/13/24	
Surrogate: n-Nonane	118 %	50-200		06/11/24	06/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424025	
Chloride	1440	20.0	1	06/10/24	06/11/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

FS-28 6-6

E406049-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Benzene	ND	0.0250	1	06/06/24	06/12/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/12/24	
Toluene	ND	0.0250	1	06/06/24	06/12/24	
o-Xylene	ND	0.0250	1	06/06/24	06/12/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/12/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/12/24	
Surrogate: 4-Bromochlorobenzene-PID	91.3 %	70-130		06/06/24	06/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	110 %	70-130		06/06/24	06/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424036	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/13/24	
Surrogate: n-Nonane	116 %	50-200		06/11/24	06/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424025	
Chloride	884	20.0	1	06/10/24	06/11/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

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E406049-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Benzene	ND	0.0250	1	06/06/24	06/12/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/12/24	
Toluene	ND	0.0250	1	06/06/24	06/12/24	
o-Xylene	ND	0.0250	1	06/06/24	06/12/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/12/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.9 %	70-130		06/06/24	06/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	111 %	70-130		06/06/24	06/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2424036	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/13/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		06/11/24	06/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2424025	
Chloride	911	20.0	1	06/10/24	06/11/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

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E406049-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Benzene	ND	0.0250	1	06/06/24	06/12/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/12/24	
Toluene	ND	0.0250	1	06/06/24	06/12/24	
o-Xylene	ND	0.0250	1	06/06/24	06/12/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/12/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/12/24	
Surrogate: 4-Bromochlorobenzene-PID	90.4 %	70-130		06/06/24	06/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	111 %	70-130		06/06/24	06/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424036	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/13/24	
Surrogate: n-Nonane	115 %	50-200		06/11/24	06/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424025	
Chloride	405	20.0	1	06/10/24	06/12/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

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E406049-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Benzene	ND	0.0250	1	06/06/24	06/12/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/12/24	
Toluene	ND	0.0250	1	06/06/24	06/12/24	
o-Xylene	ND	0.0250	1	06/06/24	06/12/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/12/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.4 %	70-130		06/06/24	06/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	111 %	70-130		06/06/24	06/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2424036	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/13/24	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		06/11/24	06/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2424025	
Chloride	ND	20.0	1	06/10/24	06/12/24	

Sample Data

Terracon	Project Name:	Leak #149	Reported: 6/14/2024 12:32:17PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

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E406049-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	109 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424036	
Diesel Range Organics (C10-C28)	1550	500	20	06/11/24	06/13/24	
Oil Range Organics (C28-C36)	1430	1000	20	06/11/24	06/13/24	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		06/11/24	06/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424025	
Chloride	764	20.0	1	06/10/24	06/12/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

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E406049-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: 4-Bromochlorobenzene-PID	93.0 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	110 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424036	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/13/24	
Surrogate: n-Nonane	111 %	50-200		06/11/24	06/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424025	
Chloride	1090	20.0	1	06/10/24	06/12/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

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E406049-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	111 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2424036	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/13/24	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		06/11/24	06/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2424025	
Chloride	302	20.0	1	06/10/24	06/12/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
6/14/2024 12:32:17PM

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E406049-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423107
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423107
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	111 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424036
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/13/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		06/11/24	06/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424025
Chloride	216	20.0	1	06/10/24	06/12/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

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E406049-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: 4-Bromochlorobenzene-PID	91.2 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	112 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424036	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/13/24	
Surrogate: n-Nonane	115 %	50-200		06/11/24	06/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424025	
Chloride	192	20.0	1	06/10/24	06/12/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 6/14/2024 12:32:17PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

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E406049-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: 4-Bromochlorobenzene-PID	91.7 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	111 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424036	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/13/24	
Surrogate: n-Nonane	115 %	50-200		06/11/24	06/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424025	
Chloride	43.5	20.0	1	06/10/24	06/12/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
6/14/2024 12:32:17PM

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E406049-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423107
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.4 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423107
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		111 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424036
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/13/24	
<i>Surrogate: n-Nonane</i>						
		111 %	50-200	06/11/24	06/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424025
Chloride	ND	20.0	1	06/10/24	06/12/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

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E406049-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: 4-Bromochlorobenzene-PID	91.6 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	112 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424036	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
Surrogate: n-Nonane	114 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424025	
Chloride	568	20.0	1	06/10/24	06/12/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
6/14/2024 12:32:17PM

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E406049-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423107
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		92.1 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423107
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		112 %	70-130	06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424036
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
<i>Surrogate: n-Nonane</i>						
		111 %	50-200	06/11/24	06/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424025
Chloride	211	20.0	1	06/10/24	06/12/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 6/14/2024 12:32:17PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

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E406049-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	111 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2424036	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2424025	
Chloride	241	20.0	1	06/10/24	06/12/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
6/14/2024 12:32:17PM

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E406049-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423107
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.3 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423107
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	111 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424036
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424025
Chloride	246	20.0	1	06/10/24	06/12/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
6/14/2024 12:32:17PM

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E406049-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423107
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423107
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424036
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424025
Chloride	ND	20.0	1	06/10/24	06/12/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

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E406049-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: 4-Bromochlorobenzene-PID	91.8 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	110 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424036	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
Surrogate: n-Nonane	104 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424025	
Chloride	78.5	20.0	1	06/10/24	06/12/24	



Sample Data

Terracon	Project Name:	Leak #149	Reported: 6/14/2024 12:32:17PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	

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E406049-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: 4-Bromochlorobenzene-PID	92.1 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	111 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424036	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
Surrogate: n-Nonane	107 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424025	
Chloride	64.7	20.0	1	06/10/24	06/12/24	



Sample Data

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

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E406049-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Benzene	ND	0.0250	1	06/06/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/13/24	
Toluene	ND	0.0250	1	06/06/24	06/13/24	
o-Xylene	ND	0.0250	1	06/06/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/13/24	
Surrogate: 4-Bromochlorobenzene-PID	92.3 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2423107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	110 %	70-130		06/06/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424036	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/14/24	
Surrogate: n-Nonane	103 %	50-200		06/11/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2424025	
Chloride	143	20.0	1	06/10/24	06/12/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
6/14/2024 12:32:17PM

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E406049-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423109
Benzene	ND	0.0250	1	06/06/24	06/12/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/12/24	
Toluene	ND	0.0250	1	06/06/24	06/12/24	
o-Xylene	ND	0.0250	1	06/06/24	06/12/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/12/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/12/24	
Surrogate: Bromofluorobenzene		111 %	70-130	06/06/24	06/12/24	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130	06/06/24	06/12/24	
Surrogate: Toluene-d8		105 %	70-130	06/06/24	06/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423109
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/12/24	
Surrogate: Bromofluorobenzene		111 %	70-130	06/06/24	06/12/24	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130	06/06/24	06/12/24	
Surrogate: Toluene-d8		105 %	70-130	06/06/24	06/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424008
Diesel Range Organics (C10-C28)	ND	25.0	1	06/10/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/10/24	06/11/24	
Surrogate: n-Nonane		118 %	50-200	06/10/24	06/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424017
Chloride	ND	20.0	1	06/10/24	06/11/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Gus Sanchez

Reported:
6/14/2024 12:32:17PM

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E406049-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423109
Benzene	ND	0.0250	1	06/06/24	06/12/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/12/24	
Toluene	ND	0.0250	1	06/06/24	06/12/24	
o-Xylene	ND	0.0250	1	06/06/24	06/12/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/12/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/12/24	
Surrogate: Bromofluorobenzene		107 %	70-130	06/06/24	06/12/24	
Surrogate: 1,2-Dichloroethane-d4		90.5 %	70-130	06/06/24	06/12/24	
Surrogate: Toluene-d8		106 %	70-130	06/06/24	06/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423109
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/12/24	
Surrogate: Bromofluorobenzene		107 %	70-130	06/06/24	06/12/24	
Surrogate: 1,2-Dichloroethane-d4		90.5 %	70-130	06/06/24	06/12/24	
Surrogate: Toluene-d8		106 %	70-130	06/06/24	06/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424008
Diesel Range Organics (C10-C28)	61.1	25.0	1	06/10/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/10/24	06/11/24	
Surrogate: n-Nonane		115 %	50-200	06/10/24	06/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424017
Chloride	82.3	20.0	1	06/10/24	06/11/24	



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2423109-BLK1) Prepared: 06/06/24 Analyzed: 06/12/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.550		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.5	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS (2423109-BS1) Prepared: 06/06/24 Analyzed: 06/12/24

Benzene	2.16	0.0250	2.50		86.5	70-130			
Ethylbenzene	2.41	0.0250	2.50		96.4	70-130			
Toluene	2.40	0.0250	2.50		95.8	70-130			
o-Xylene	2.53	0.0250	2.50		101	70-130			
p,m-Xylene	5.04	0.0500	5.00		101	70-130			
Total Xylenes	7.57	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

Matrix Spike (2423109-MS1) Source: E406048-04 Prepared: 06/06/24 Analyzed: 06/12/24

Benzene	2.16	0.0250	2.50	ND	86.4	48-131			
Ethylbenzene	2.44	0.0250	2.50	ND	97.6	45-135			
Toluene	2.40	0.0250	2.50	ND	96.0	48-130			
o-Xylene	2.63	0.0250	2.50	ND	105	43-135			
p,m-Xylene	5.23	0.0500	5.00	ND	105	43-135			
Total Xylenes	7.86	0.0250	7.50	ND	105	43-135			
Surrogate: Bromofluorobenzene	0.565		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

Matrix Spike Dup (2423109-MSD1) Source: E406048-04 Prepared: 06/06/24 Analyzed: 06/12/24

Benzene	2.14	0.0250	2.50	ND	85.5	48-131	1.14	23	
Ethylbenzene	2.48	0.0250	2.50	ND	99.4	45-135	1.83	27	
Toluene	2.44	0.0250	2.50	ND	97.7	48-130	1.75	24	
o-Xylene	2.63	0.0250	2.50	ND	105	43-135	0.152	27	
p,m-Xylene	5.25	0.0500	5.00	ND	105	43-135	0.391	27	
Total Xylenes	7.88	0.0250	7.50	ND	105	43-135	0.210	27	
Surrogate: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423107-BLK1)Prepared: 06/06/24 Analyzed: 06/12/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.09		8.00		88.6	70-130			

LCS (2423107-BS1)Prepared: 06/06/24 Analyzed: 06/12/24

Benzene	5.20	0.0250	5.00		104	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	5.10	0.0250	5.00		102	70-130			
o-Xylene	4.95	0.0250	5.00		99.0	70-130			
p,m-Xylene	9.98	0.0500	10.0		99.8	70-130			
Total Xylenes	14.9	0.0250	15.0		99.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.10		8.00		88.7	70-130			

Matrix Spike (2423107-MS1)Source: E406049-04Prepared: 06/06/24 Analyzed: 06/12/24

Benzene	5.02	0.0250	5.00	ND	100	54-133			
Ethylbenzene	4.71	0.0250	5.00	ND	94.2	61-133			
Toluene	4.93	0.0250	5.00	ND	98.7	61-130			
o-Xylene	4.79	0.0250	5.00	ND	95.8	63-131			
p,m-Xylene	9.69	0.0500	10.0	ND	96.9	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.35		8.00		91.9	70-130			

Matrix Spike Dup (2423107-MSD1)Source: E406049-04Prepared: 06/06/24 Analyzed: 06/12/24

Benzene	5.33	0.0250	5.00	ND	107	54-133	6.02	20	
Ethylbenzene	5.00	0.0250	5.00	ND	99.9	61-133	5.96	20	
Toluene	5.24	0.0250	5.00	ND	105	61-130	5.97	20	
o-Xylene	5.09	0.0250	5.00	ND	102	63-131	6.01	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	5.98	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	5.99	20	
Surrogate: 4-Bromochlorobenzene-PID	7.30		8.00		91.3	70-130			

QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423107-BLK1) Prepared: 06/06/24 Analyzed: 06/12/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.71		8.00		109	70-130			

LCS (2423107-BS2) Prepared: 06/06/24 Analyzed: 06/12/24

Gasoline Range Organics (C6-C10)	53.5	20.0	50.0		107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.04		8.00		113	70-130			

Matrix Spike (2423107-MS2) Source: E406049-04 Prepared: 06/06/24 Analyzed: 06/12/24

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.89		8.00		111	70-130			

Matrix Spike Dup (2423107-MSD2) Source: E406049-04 Prepared: 06/06/24 Analyzed: 06/12/24

Gasoline Range Organics (C6-C10)	60.7	20.0	50.0	ND	121	70-130	11.9	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.01		8.00		113	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423109-BLK1) Prepared: 06/06/24 Analyzed: 06/12/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.550		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.5	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS (2423109-BS2) Prepared: 06/06/24 Analyzed: 06/12/24

Gasoline Range Organics (C6-C10)	57.8	20.0	50.0		116	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.447		0.500		89.3	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike (2423109-MS2) Source: E406048-04 Prepared: 06/06/24 Analyzed: 06/12/24

Gasoline Range Organics (C6-C10)	57.9	20.0	50.0	ND	116	70-130			
Surrogate: Bromofluorobenzene	0.550		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			

Matrix Spike Dup (2423109-MSD2) Source: E406048-04 Prepared: 06/06/24 Analyzed: 06/12/24

Gasoline Range Organics (C6-C10)	59.3	20.0	50.0	ND	119	70-130	2.52	20	
Surrogate: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.7	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424008-BLK1) Prepared: 06/10/24 Analyzed: 06/11/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.9		50.0		114	50-200			

LCS (2424008-BS1) Prepared: 06/10/24 Analyzed: 06/11/24

Diesel Range Organics (C10-C28)	318	25.0	250		127	38-132			
Surrogate: n-Nonane	58.5		50.0		117	50-200			

Matrix Spike (2424008-MS1) Source: E406035-03 Prepared: 06/10/24 Analyzed: 06/11/24

Diesel Range Organics (C10-C28)	379	25.0	250	51.1	131	38-132			
Surrogate: n-Nonane	59.5		50.0		119	50-200			

Matrix Spike Dup (2424008-MSD1) Source: E406035-03 Prepared: 06/10/24 Analyzed: 06/11/24

Diesel Range Organics (C10-C28)	380	25.0	250	51.1	132	38-132	0.345	20	
Surrogate: n-Nonane	58.8		50.0		118	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424036-BLK1)					Prepared: 06/11/24 Analyzed: 06/13/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.1		50.0		114	50-200			

LCS (2424036-BS1)					Prepared: 06/11/24 Analyzed: 06/13/24				
Diesel Range Organics (C10-C28)	306	25.0	250		122	38-132			
Surrogate: n-Nonane	56.9		50.0		114	50-200			

Matrix Spike (2424036-MS1)					Source: E406049-11		Prepared: 06/11/24 Analyzed: 06/13/24		
Diesel Range Organics (C10-C28)	331	25.0	250	ND	132	38-132			
Surrogate: n-Nonane	59.6		50.0		119	50-200			

Matrix Spike Dup (2424036-MSD1)					Source: E406049-11		Prepared: 06/11/24 Analyzed: 06/13/24		
Diesel Range Organics (C10-C28)	327	25.0	250	ND	131	38-132	1.08	20	
Surrogate: n-Nonane	59.9		50.0		120	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2424017-BLK1)					Prepared: 06/10/24 Analyzed: 06/10/24				
Chloride	ND	20.0							
LCS (2424017-BS1)					Prepared: 06/10/24 Analyzed: 06/10/24				
Chloride	249	20.0	250		99.5	90-110			
Matrix Spike (2424017-MS1)					Source: E406064-02		Prepared: 06/10/24 Analyzed: 06/10/24		
Chloride	289	20.0	250	37.1	101	80-120			
Matrix Spike Dup (2424017-MSD1)					Source: E406064-02		Prepared: 06/10/24 Analyzed: 06/10/24		
Chloride	289	20.0	250	37.1	101	80-120	0.0769	20	



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	6/14/2024 12:32:17PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424025-BLK1)					Prepared: 06/10/24 Analyzed: 06/11/24				
Chloride	ND	20.0							
LCS (2424025-BS1)					Prepared: 06/10/24 Analyzed: 06/11/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2424025-MS1)					Source: E406049-03		Prepared: 06/10/24 Analyzed: 06/11/24		
Chloride	1130	20.0	250	911	87.2	80-120			
Matrix Spike Dup (2424025-MSD1)					Source: E406049-03		Prepared: 06/10/24 Analyzed: 06/11/24		
Chloride	1150	20.0	250	911	94.8	80-120	1.67	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.

Definitions and Notes

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Gus Sanchez	06/14/24 12:32

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



CHAIN OF CUSTODY RECORD

Page 1 of 3



Office Location 4526 W. Pierce St Carlsbad NM, 88220

Project Manager Joseph Guesnier

Sampler's Name Gus Sanchez

Laboratory: E406049

Address: Job# 21102-0001

Phone:

Contact:

SRS #:

Sampler's Signature

ANALYSIS REQUEST

LAB USE ONLY DUE DATE:

Project Number KH247005

Project Name Leak #149

No. Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml Poly	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Lab Sample ID
S	6/3/2024	7:10	X		FS-27	6	6	X			X	X	X	
S	6/3/2024	7:13	X		FS-28	6	6	X			X	X	X	
S	6/3/2024	7:15	X		FS-29	5	5	X			X	X	X	
S	6/3/2024	7:18	X		FS-30	5	5	X			X	X	X	
S	6/3/2024	7:21	X		FS-31	5	5	X			X	X	X	
S	6/3/2024	7:24	X		FS-32	5	5	X			X	X	X	
S	6/3/2024	7:27	X		FS-33	5	5	X			X	X	X	
S	6/3/2024	7:29	X		FS-34	5	5	X			X	X	X	
S	6/3/2024	7:33	X		FS-35	5	5	X			X	X	X	
S	6/3/2024	7:36	X		FS-36	5	5	X			X	X	X	
S	6/3/2024	7:38	X		FS-37	5	5	X			X	X	X	
S	6/3/2024	7:41	X		FS-38	5	5	X			X	X	X	
S	6/3/2024	7:44	X		FS-39	5	5	X			X	X	X	
S	6/3/2024	7:47	X		FS-40	5	5	X			X	X	X	
S	6/3/2024	7:50	X		FS-41	5	5	X			X	X	X	
S	6/3/2024	7:53	X		FS-42	5	5	X			X	X	X	
S	6/3/2024	7:55	X		FS-43	5	5	X			X	X	X	
S	6/3/2024	7:58	X		FS-44	5	5	X			X	X	X	
S	6/3/2024	8:02	X		FS-45	5	5	X			X	X	X	
S	6/3/2024	8:05	X		FS-46	5	5	X			X	X	X	
S	6/3/2024	8:08	X		FS-47	5	5	X			X	X	X	
S	6/3/2024	8:11	X		FS-48	5	5	X			X	X	X	

TURNAROUND TIME ☒ Normal ☐ 48-Hour Rush ☐ 24-Hour Rush TRRP Laboratory Review Checklist ☐ Yes ☐ No

Relinquished by (Signature)	Date: 6-4-24	Time: 5:10	Received by (Signature)	Date: 6-4-24	Time: 1710	Bill To:
Michelle Gonzales			Michelle Gonzales			Targa
Relinquished by (Signature)	Date: 6-5-24	Time: 1650	Received by (Signature)	Date: 6-5-24	Time: 1650	Att: Amber Groves
Michelle Gonzales			Michelle Gonzales			
Relinquished by (Signature)	Date: 6-5-24	Time: 2400	Received by (Signature)	Date: 6-10-24	Time: 900	
Michelle Gonzales			Michelle Gonzales			

TEMP OF COOLER
WHEN RECEIVED (oC)

Matrix WW-Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal tube SL - Sludge

Container VOA - 40 ml vial A/G - Amber C 250 ml = Glass wide mou P/O - Plastic or other

Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140

e-mail results to:

joseph.guesnier@terracon.com

travis.casey@terracon.com

mike.adams@terracon.com

beckysue.miller@terracon.com

gus.sanchez@terracon.com

chuck.smith@terracon.com

Envirotech Analytical Laboratory

Printed: 6/6/2024 6:14:20PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Terracon	Date Received:	06/06/24 09:00	Work Order ID:	E406049
Phone:	(806) 544-9276	Date Logged In:	06/05/24 20:39	Logged In By:	Alexa Michaels
Email:		Due Date:	06/13/24 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Couier**Comments/Resolution**

Due to high sample volume project Leak #149 has been separated into multiple WO E406049 and E406051.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Joseph Guesnier



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Terracon

Project Name: Leak #149

Work Order: E410048

Job Number: 21102-0001

Received: 10/7/2024

Revision: 0

Report Reviewed By:

Draft

Walter Hinchman
Laboratory Director
10/7/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/7/24

Joseph Guesnier
4518 W. Pierce St
Carlsbad, NM 87401



Project Name: Leak #149
Workorder: E410048
Date Received: 10/7/2024 5:00:00AM

Joseph Guesnier,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/7/2024 5:00:00AM, under the Project Name: Leak #149.

The analytical test results summarized in this report with the Project Name: Leak #149 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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rainaschwanz@envirotech-inc.com

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mgonzales@envirotech-inc.com

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Sample Summary

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/07/24 14:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
N-BF	E410048-01A	Soil	10/03/24	10/07/24	Glass Jar, 4 oz.
S-BF	E410048-02A	Soil	10/03/24	10/07/24	Glass Jar, 4 oz.



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
10/7/2024 2:48:31PM

N-BF

E410048-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2441007	
Benzene	ND	0.0250	1	10/07/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/07/24	
Toluene	ND	0.0250	1	10/07/24	10/07/24	
o-Xylene	ND	0.0250	1	10/07/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/07/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	90.4 %	70-130		10/07/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2441007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	98.3 %	70-130		10/07/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2441003	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/07/24	
<i>Surrogate: n-Nonane</i>	104 %	50-200		10/07/24	10/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2441002	
Chloride	ND	20.0	1	10/07/24	10/07/24	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Leak #149
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
10/7/2024 2:48:31PM

S-BF

E410048-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2441007	
Benzene	ND	0.0250	1	10/07/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/07/24	
Toluene	ND	0.0250	1	10/07/24	10/07/24	
o-Xylene	ND	0.0250	1	10/07/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/07/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	90.5 %	70-130		10/07/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2441007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	100 %	70-130		10/07/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2441003	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/07/24	
<i>Surrogate: n-Nonane</i>	98.9 %	50-200		10/07/24	10/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2441002	
Chloride	ND	20.0	1	10/07/24	10/07/24	



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/7/2024 2:48:31PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2441007-BLK1)

Prepared: 10/07/24 Analyzed: 10/07/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.15		8.00		102	70-130			

LCS (2441007-BS1)

Prepared: 10/07/24 Analyzed: 10/07/24

Benzene	5.44	0.0250	5.00		109	70-130			
Ethylbenzene	5.36	0.0250	5.00		107	70-130			
Toluene	5.43	0.0250	5.00		109	70-130			
o-Xylene	5.37	0.0250	5.00		107	70-130			
p,m-Xylene	10.9	0.0500	10.0		109	70-130			
Total Xylenes	16.3	0.0250	15.0		109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			

LCS Dup (2441007-BSD1)

Prepared: 10/07/24 Analyzed: 10/07/24

Benzene	4.57	0.0250	5.00		91.5	70-130	17.4	20	
Ethylbenzene	4.50	0.0250	5.00		90.0	70-130	17.5	20	
Toluene	4.56	0.0250	5.00		91.2	70-130	17.5	20	
o-Xylene	4.50	0.0250	5.00		89.9	70-130	17.7	20	
p,m-Xylene	9.18	0.0500	10.0		91.8	70-130	17.2	20	
Total Xylenes	13.7	0.0250	15.0		91.2	70-130	17.4	20	
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/7/2024 2:48:31PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2441007-BLK1) Prepared: 10/07/24 Analyzed: 10/07/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			

LCS (2441007-BS2) Prepared: 10/07/24 Analyzed: 10/07/24

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0		90.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			

LCS Dup (2441007-BSD2) Prepared: 10/07/24 Analyzed: 10/07/24

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.8	70-130	7.08	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/7/2024 2:48:31PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2441003-BLK1)					Prepared: 10/07/24 Analyzed: 10/07/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.9		50.0		108	50-200			

LCS (2441003-BS1)					Prepared: 10/07/24 Analyzed: 10/07/24				
Diesel Range Organics (C10-C28)	228	25.0	250		91.3	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			

Matrix Spike (2441003-MS1)					Source: E410048-01		Prepared: 10/07/24 Analyzed: 10/07/24		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	52.6		50.0		105	50-200			

Matrix Spike Dup (2441003-MSD1)					Source: E410048-01		Prepared: 10/07/24 Analyzed: 10/07/24		
Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	38-132	7.89	20	
Surrogate: n-Nonane	54.5		50.0		109	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/7/2024 2:48:31PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2441002-BLK1)					Prepared: 10/07/24 Analyzed: 10/07/24				
Chloride	ND	20.0							
LCS (2441002-BS1)					Prepared: 10/07/24 Analyzed: 10/07/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2441002-MS1)					Source: E410041-01		Prepared: 10/07/24 Analyzed: 10/07/24		
Chloride	386	200	250	ND	154	80-120			M6
Matrix Spike Dup (2441002-MSD1)					Source: E410041-01		Prepared: 10/07/24 Analyzed: 10/07/24		
Chloride	390	200	250	ND	156	80-120	1.09	20	M6

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Terracon	Project Name:	Leak #149	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/07/24 14:48

- M6 Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Envirotech Analytical Laboratory

Printed: 10/7/2024 8:47:22AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Terracon	Date Received: 10/07/24 05:00	Work Order ID: E410048
Phone: (806) 544-9276	Date Logged In: 10/04/24 14:48	Logged In By: Caitlin Mars
Email: joseph.guesnier@terracon.com	Due Date: 10/07/24 17:00 (0 day TAT)	

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

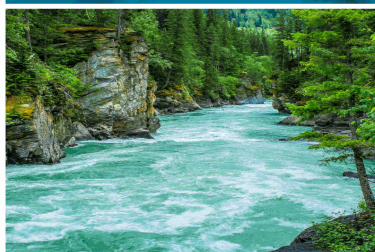
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Travis Casey



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Terracon

Project Name: Leak #149

Work Order: E410223

Job Number: 24073-C-0001

Received: 10/21/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/22/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/22/24

Travis Casey
4526 W. Pierce St
Carlsbad, NM 88220



Project Name: Leak #149
Workorder: E410223
Date Received: 10/21/2024 7:15:00AM

Travis Casey,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/21/2024 7:15:00AM, under the Project Name: Leak #149.

The analytical test results summarized in this report with the Project Name: Leak #149 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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Sample Summary

Terracon	Project Name:	Leak #149	Reported:
4526 W. Pierce St	Project Number:	24073-C-0001	
Carlsbad NM, 88220	Project Manager:	Travis Casey	10/22/24 15:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS-26 4'-5'	E410223-01A	Soil	10/17/24	10/21/24	Glass Jar, 4 oz.



Sample Data

Terracon	Project Name:	Leak #149	
4526 W. Pierce St	Project Number:	24073-C-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Travis Casey	10/22/2024 3:52:55PM

FS-26 4'-5'

E410223-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2443001	
Benzene	ND	0.0250	1	10/21/24	10/21/24	
Ethylbenzene	ND	0.0250	1	10/21/24	10/21/24	
Toluene	ND	0.0250	1	10/21/24	10/21/24	
o-Xylene	ND	0.0250	1	10/21/24	10/21/24	
p,m-Xylene	ND	0.0500	1	10/21/24	10/21/24	
Total Xylenes	ND	0.0250	1	10/21/24	10/21/24	
Surrogate: 4-Bromochlorobenzene-PID	90.7 %	70-130		10/21/24	10/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2443001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/21/24	10/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.3 %	70-130		10/21/24	10/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2443006	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/21/24	10/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/21/24	10/21/24	
Surrogate: n-Nonane	104 %	50-200		10/21/24	10/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2443007	
Chloride	ND	20.0	1	10/21/24	10/21/24	



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4526 W. Pierce St	Project Number:	24073-C-0001	
Carlsbad NM, 88220	Project Manager:	Travis Casey	10/22/2024 3:52:55PM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443001-BLK1) Prepared: 10/21/24 Analyzed: 10/21/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.3	70-130			

LCS (2443001-BS1) Prepared: 10/21/24 Analyzed: 10/21/24

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.1	70-130			
Toluene	5.03	0.0250	5.00		101	70-130			
o-Xylene	4.95	0.0250	5.00		98.9	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.26		8.00		90.8	70-130			

LCS Dup (2443001-BSD1) Prepared: 10/21/24 Analyzed: 10/21/24

Benzene	4.97	0.0250	5.00		99.5	70-130	2.29	20	
Ethylbenzene	4.87	0.0250	5.00		97.5	70-130	1.65	20	
Toluene	4.94	0.0250	5.00		98.7	70-130	1.97	20	
o-Xylene	4.87	0.0250	5.00		97.4	70-130	1.49	20	
p,m-Xylene	9.92	0.0500	10.0		99.2	70-130	1.42	20	
Total Xylenes	14.8	0.0250	15.0		98.6	70-130	1.44	20	
Surrogate: 4-Bromochlorobenzene-PID	7.35		8.00		91.9	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4526 W. Pierce St	Project Number:	24073-C-0001	
Carlsbad NM, 88220	Project Manager:	Travis Casey	10/22/2024 3:52:55PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443001-BLK1) Prepared: 10/21/24 Analyzed: 10/21/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.1	70-130			

LCS (2443001-BS2) Prepared: 10/21/24 Analyzed: 10/21/24

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130			

LCS Dup (2443001-BSD2) Prepared: 10/21/24 Analyzed: 10/21/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0		83.6	70-130	2.72	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4526 W. Pierce St	Project Number:	24073-C-0001	
Carlsbad NM, 88220	Project Manager:	Travis Casey	10/22/2024 3:52:55PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443006-BLK1)					Prepared: 10/21/24 Analyzed: 10/21/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.0		50.0		98.0	50-200			

LCS (2443006-BS1)					Prepared: 10/21/24 Analyzed: 10/21/24				
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			

Matrix Spike (2443006-MS1)					Source: E410225-06		Prepared: 10/21/24 Analyzed: 10/21/24		
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	53.6		50.0		107	50-200			

Matrix Spike Dup (2443006-MSD1)					Source: E410225-06		Prepared: 10/21/24 Analyzed: 10/21/24		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132	5.72	20	
Surrogate: n-Nonane	52.7		50.0		105	50-200			



QC Summary Data

Terracon	Project Name:	Leak #149	Reported:
4526 W. Pierce St	Project Number:	24073-C-0001	
Carlsbad NM, 88220	Project Manager:	Travis Casey	10/22/2024 3:52:55PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2443007-BLK1)					Prepared: 10/21/24 Analyzed: 10/21/24				
Chloride	ND	20.0							
LCS (2443007-BS1)					Prepared: 10/21/24 Analyzed: 10/21/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2443007-MS1)					Source: E410223-01		Prepared: 10/21/24 Analyzed: 10/21/24		
Chloride	254	20.0	250	ND	102	80-120			
Matrix Spike Dup (2443007-MSD1)					Source: E410223-01		Prepared: 10/21/24 Analyzed: 10/21/24		
Chloride	259	20.0	250	ND	104	80-120	1.82	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.

Definitions and Notes

Terracon	Project Name:	Leak #149	
4526 W. Pierce St	Project Number:	24073-C-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Travis Casey	10/22/24 15:52

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



CHAIN OF CUSTODY RECORD

Lab WO# E410223
Job # ~~21058-0007~~
24073-C-000
Page 1 of 1

Received by OCD: 11/1/2024 10:22:52 AM

[illegible]

Envirotech Analytical Laboratory

Printed: 10/21/2024 2:53:07PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Terracon	Date Received:	10/21/24 07:15	Work Order ID:	E410223
Phone:	(575) 689-5949	Date Logged In:	10/18/24 15:34	Logged In By:	Caitlin Mars
Email:	travis.casey@terracon.com	Due Date:	10/21/24 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.


Date



envirotech Inc.

CHAIN OF CUSTODY RECORD

Lab WO# E410223
 Job # ~~21058-0009~~
 24073-C-0001
 Page 1 of 1

 Terracon Explore with us					Laboratory: EnviroTech Address: Phone: Contact: SRS #:					ANALYSIS REQUEST Chloride (EPA Method 300) TPH Extended 8015 BTEX (EPA Method 8021B)					LAB USE ONLY DUE DATE:				
					Office Location: 4526 W. Pierce St Carlsbad NM, 88220					Project Manager: Travis Casey					Project Name: Leak #149				
					Sampler's Name: Travis Casey					Sampler's Signature:					Please sent invoice to Terracon Attention: Travis Casey				
					Project Number: KH247005					Project Name: Leak #149					No. Type of Containers				
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml Poly	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Lab Sample ID					
S	10/17/2024	9:15	X	X	FS-26	NS	4	5	1		X	X	X	1					
Per T. Casey changed depth. NS 10-22-24																			
TURNAROUND TIME <input type="checkbox"/> Normal <input type="checkbox"/> 48-Hour Rush <input checked="" type="checkbox"/> 24-Hour Rush Relinquished by (Signature) <i>[Signature]</i> Date: 10/18/24 Time: 11:00 Relinquished by (Signature) <i>[Signature]</i> Date: 10-18-24 Time: 2:15 Relinquished by (Signature) <i>[Signature]</i> Date: 10-18-24 Time: 2:40 TEMP OF COOLER WHEN RECEIVED (CoC) 4°C Matrix WW-Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal tube SL - Sludge Container VOA - 40 ml vial A/G - Amber C 250 ml = Glass wide mol P/O - Plastic or other																			
TRRP Laboratory Review Checklist <input type="checkbox"/> Yes <input type="checkbox"/> No Received by (Signature) <i>[Signature]</i> Date: 10-18-24 Time: 11:00 Received by (Signature) <i>[Signature]</i> Date: 10-18-24 Time: 2:15 Received by (Signature) <i>[Signature]</i> Date: 10-21-24 Time: 07:15 Bill To: Devon ATTN: Dale Woodall																			
E-mail results to: joseph.guesnier@terracon.com travis.casey@terracon.com mike.adams@terracon.com beckysue.miller@terracon.com gus.sanchez@terracon.com chuck.smith@terracon.com																			

Carlsbad Office ■ 4526 W. Pierce St ■ Carlsbad, New Mexico 88220 ■ 806-300-0140



APPENDIX F – TERRACON STANDARD OF CARE, LIMITATION, AND RELIANCE

Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These services were performed in accordance with the Scope of Work agreed with you, Targa Midstream Services LLC, as reflected in your Bid Request Form for NMOCD Incident No. nAPP2335429970 or as reflected in our proposal (PKH247007).

Additional Scope Limitations

The development of this Closure Report is based on information provided by Targa Midstream Services LLC and Terracon's remediation and construction services line. Such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those by information provided by Targa Midstream Services LLC. The data, interpretations, findings, and recommendations are based solely upon reformation executed within the scope of these services.

Reliance

This report has been prepared for the exclusive use of Targa Midstream Services LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Targa Midstream Services LLC, and Terracon. Any unauthorized distribution or reuse is at Targa Midstream Services LLC, sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal and Targa Midstream Services LLC, and Terracon's Master Services Agreement. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to Targa Midstream Services LLC, and all relying parties unless otherwise agreed in writing.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 398098

QUESTIONS

Operator: TARGA MIDSTREAM SERVICES LLC 811 Louisiana Street Houston, TX 77002	OGRID: 24650
	Action Number: 398098
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2335429970
Incident Name	NAPP2335429970 LEAK #149 @ 0
Incident Type	Natural Gas Release
Incident Status	Reclamation Report Received
Incident Facility	[fAPP2123021777] Targa NM Gathering System

Location of Release Source

Please answer all the questions in this group.

Site Name	LEAK #149
Date Release Discovered	12/12/2023
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Cause: Corrosion Pipeline (Any) Condensate Released: 4 BBL Recovered: 0 BBL Lost: 4 BBL.
Natural Gas Vented (Mcf) Details	Cause: Corrosion Pipeline (Any) Natural Gas Vented Released: 65 MCF Recovered: 0 MCF Lost: 65 MCF.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 398098

QUESTIONS (continued)

Operator: TARGA MIDSTREAM SERVICES LLC 811 Louisiana Street Houston, TX 77002	OGRID: 24650
	Action Number: 398098
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Amber Groves Title: Environmental Specialist Email: agroves@targaresources.com Date: 11/01/2024
--	--

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QUESTIONS, Page 3

Action 398098

QUESTIONS (continued)

Operator: TARGA MIDSTREAM SERVICES LLC 811 Louisiana Street Houston, TX 77002	OGRID: 24650
	Action Number: 398098
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	6660
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	6630
GRO+DRO (EPA SW-846 Method 8015M)	3920
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	02/20/2024
On what date will (or did) the final sampling or liner inspection occur	07/25/2024
On what date will (or was) the remediation complete(d)	07/25/2024
What is the estimated surface area (in square feet) that will be reclaimed	22600
What is the estimated volume (in cubic yards) that will be reclaimed	3350
What is the estimated surface area (in square feet) that will be remediated	4500
What is the estimated volume (in cubic yards) that will be remediated	1100
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 398098

QUESTIONS (continued)

Operator: TARGA MIDSTREAM SERVICES LLC 811 Louisiana Street Houston, TX 77002	OGRID: 24650
	Action Number: 398098
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	J&L LANDFARM [FEEM0112339187]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Amber Groves Title: Environmental Specialist Email: agroves@targaresources.com Date: 11/01/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 398098

QUESTIONS (continued)

Operator: TARGA MIDSTREAM SERVICES LLC 811 Louisiana Street Houston, TX 77002	OGRID: 24650
	Action Number: 398098
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS, Page 6

Action 398098

QUESTIONS (continued)

Operator: TARGA MIDSTREAM SERVICES LLC 811 Louisiana Street Houston, TX 77002	OGRID: 24650
	Action Number: 398098
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	392626
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/17/2024
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	22600
What was the total volume (cubic yards) remediated	3350
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	22600
What was the total volume (in cubic yards) reclaimed	3350
Summarize any additional remediation activities not included by answers (above)	Please see attached closure report describing all remediation and reclamation activities.

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Amber Groves Title: Environmental Specialist Email: agroves@targaresources.com Date: 11/01/2024
--	--

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QUESTIONS, Page 7

Action 398098

QUESTIONS (continued)

Operator: TARGA MIDSTREAM SERVICES LLC 811 Louisiana Street Houston, TX 77002	OGRID: 24650
	Action Number: 398098
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	22600
What was the total volume of replacement material (in cubic yards) for this site	3350
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseedling commence(d)	09/13/2024
Summarize any additional reclamation activities not included by answers (above)	Please see attached report for description of reclamation activities.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseedling plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Amber Groves Title: Environmental Specialist Email: agroves@targaresources.com Date: 11/01/2024

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QUESTIONS, Page 8

Action 398098

QUESTIONS (continued)

Operator: TARGA MIDSTREAM SERVICES LLC 811 Louisiana Street Houston, TX 77002	OGRID: 24650
	Action Number: 398098
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 398098

CONDITIONS

Operator: TARGA MIDSTREAM SERVICES LLC 811 Louisiana Street Houston, TX 77002	OGRID: 24650
	Action Number: 398098
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Final Closure report for remediation and reclamation is approved.	3/12/2025
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	3/12/2025