



4518 W. Pierce St.

Carlsbad NM, 88220

July 23, 2025

Devon Energy Corp
5315 Buena Vista Dr.
Carlsbad NM, 88220

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

RE: **Release Investigation and Closure Report**
Devon Energy Corp.
Hognose Viper 23 Fed 1H
Unit M, Section 23, Township 23 South, Range 33 East
32.2833489°, -103.5489202°
Work Order No. 21453154
NMOCD Incident No. nAPP2432652685
Lea County, New Mexico
Terracon Project No. KH247059

To Whom It May Concern:

Terracon Consultants, Inc. (Terracon) is submitting this Release Investigation and Closure Report on behalf of Devon Energy Production Company, LP (Devon) 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 a release of produced water due to corrosion on a flow line. Detailed assessment and remedial actions by Terracon are outlined in the following sections.

Completed Actions

- 1) Conducted an initial site assessment and a series of sampling events.
- 2) Prepared maps, and associated data tables which are provided for review.
- 3) Collected soil samples from the inferred release area and submitted the samples to an approved laboratory for analysis to determine levels of impact vertically and horizontally.
- 4) Remedial activities were terminated when a confirmation sample was collected below the NMOCD RALs from Oil and Gas impacted soils.

Site Information

A notice of the Release was provided to the NMOCD District 2 Artesia Office by Jordan Villarreal on November 21, 2024, with the submission of the initial C-141 (NMOCD Reference ID: nAPP2432652685). The cause of the release was corrosion in a flow line resulting in a release of 6-barrels of produced water. Five barrels were recovered during the initial response action.

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Remediation Closure Report
Hognose Viper 23 Federal 1H | Lea County, New Mexico
July 23, 2025, | Terracon Project No. KH247059



The site is located within Unit M, Section 23, Township 23 South, Range 33 East, approximately 24 miles northwest of Jal, New Mexico. A Topographic Map and Site Location Map are included in Appendix A, as Exhibit 1 and Exhibit 2, respectively.

Regulatory Criteria

Review of the NMOSE Pod website did not identify a water well within 0.5 miles of the site. Therefore, a boring/well was installed on February 12, 2025, to a depth of 55 feet below ground surface (bgs). The well was allowed to recover for 72 hours and was found to be "dry" with no water in the well, indicating the depth to water is greater than 55 feet bgs. The well was then plugged in accordance with New Mexico Office of State Engineer (NMOSE) rules and regulations. A Boring-Well Location Map is included in Appendix A, Exhibit 3. On this basis it appears the depth to water is greater than 50 feet bgs.

There is no known lakebed, sinkhole or Playa Lake within 200 feet, no known occupied permanent residence, school, hospital or church within 300 feet, no known freshwater sources within 1,000 feet and no known wetland within 300 feet of the site. Review of the Federal Emergency Management Agency (FEMA) flood maps, identify the site is within Zone D indicating the flood hazards are undetermined but possible, and a flood hazard analysis hasn't been conducted for that area, and the flood risk is uncertain. Therefore, Zone D is not part of a Special Flood Hazard Area (SFHA) and is outside the 100-year floodplain. The site is not overlying a subsurface mine or unstable area. A review of the U.S. Fish and Wildlife Service, National Wetlands Inventory website indicates there is a Riverine located approximately 0.73 miles northeast of the site as indicated in the Regulatory Criteria Map included in 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 in Appendix A, Exhibit 5.

Remediation Standards (Surface to 4 ft. bgs)

The RAL's for the site are based on the remedial requirements for an on-pad release consisting of the removal of the affected soil from the surface to 4 feet below grade surface (bgs) in an area with depth to groundwater 51' to 100' bgs. The below remediation limits for BTEX (includes benzene, toluene, ethylbenzene, and xylenes), and benzene, chlorides and TPH (GRO+DRO+MRO), are defined within New Mexico Administration Code (NMAC) 19.15.29.12 and in the NMOCD guidance document "Procedures for Implementation of the Spill Rule" dated September 6, 2019.:

Remediation Closure Report
 Hognose Viper 23 Federal 1H | Lea County, New Mexico
 July 23, 2025, | Terracon Project No. KH247059



Parameters	Closure Criteria	Analytical Method
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
Total Petroleum Hydrocarbons (TPH) GRO, DRO and MRO	2,500 mg/kg	EPA Method 8015M
TPH (GRO+DRO)	1,000 mg/kg	EPA Method 8015M

Release Assessment / Delineation Activities

Terracon conducted release assessment activities at the site from November 25, 2024, and December 2, 2024. An area of approximately 2,555 square feet was affected by the release. A total of 20 delineation samples from 16 locations were collected and submitted for analysis of BTEX, Chlorides, and TPH. Delineation sample results for BTEX and TPH were below applicable NMOCD RAL's. Two delineation samples exceeded the RAL's for Chloride with results of 23,800 mg/kg in DSV-04 (0.0'-0.5') and 29,200 mg/kg in DSV-02 (0.0'-0.5'). These two areas were subsequently excavated during remedial activities as described in the following section. A Delineation Sample Map depicting the sample locations, and the inferred release extent are included in Appendix A, Exhibit 6. Delineation sample results are included in Appendix B, Table 1.

Remediation / Confirmation / Closure Activities

Remediation activities were conducted at the site from March 31, 2025, to July 14, 2025. This work consisted of excavation and removal of soil that exceeded NMOCD RAL's. The material remaining in place does not exceed NMOCD RAL's.

A total area of approximately 2,917 square feet was excavated to a depth of between 1-foot to 1.5-feet bgs. The excavated material was stockpiled on site, then was hauled off-site and disposed of at Delaware Basin Landfill disposal facility. In compliance with NMOCD 48-hour sample notification requirement, Devon submitted 48-hour sample notification. In compliance with NMOCD closure requirements, five-point composite closure soil samples were collected from the excavation on 200 square foot intervals. On June 20, 2025, Terracon collected a total of 14 confirmation floor samples, CFS-1 (1.0-1.5 ft) through CFS-14 (1.0-1.5 ft). The soil samples collected were submitted for analysis of BTEX, Chloride, TPH, the results for these floor samples were below the NMOCD RAL's.

A total of 8 five-point composite confirmation wall samples, CWS-1 (0.0'-1.5') through CWS-8 (0.0'-1.5') and CWS-8.1 (0.0'-1.5') were collected on 200 linear foot intervals. One confirmation wall sample CWS-8.1 (0.0-1.5 ft) exceeded the NMOCD RAL's for Chloride at a concentration of 18,800 mg/kg.

Remediation Closure Report
Hognose Viper 23 Federal 1H | Lea County, New Mexico
July 23, 2025, | Terracon Project No. KH247059



The exceedance area was excavated an additional 4-feet horizontally to a depth of 1.5-feet bgs and on June 3, 2025, one composite floor sample CFS-15 (1.0-1.5 ft) and one composite wall sample CWS-8.1 (0.0-1.5 ft) were collected. The BTEX, Chloride and TPH results for these samples were below NMOCD RAL's.

A total volume of approximately 180 cubic yards of affected soil was excavated and disposed of at the Delaware Basin Disposal Facility. Once the closure criteria were attained, the excavation was backfilled with approximately 180 cubic yards of suitable non-waste containing backfill material. A composite sample of the backfill material (BFS-1) was collected and analyzed by a laboratory for BTEX, Chloride and TPH to evaluate suitability. The laboratory sample results of the backfill indicate BTEX and TPH were below the laboratory detection limits, and Chloride was detected at a concentration of 364 mg/kg, which is below the NMOCD RAL. A Confirmation Sample Map depicting the floor and wall sample locations is included in Appendix A, Exhibit 7. Floor and wall confirmation sample analytical results are included in Appendix B, Table 2. Photographs of the project site are included in Appendix C. The analytical reports and Chain of Custody (COC) are included in Appendix D. Terracon's Standard of Care, Limitation, and Reliance is included in Appendix E.

Conclusion

In accordance with NMAC 19.15.29.12, remediation of the impacted material is complete, and Devon Energy Production Company, LP respectfully requests closure of the reportable incident that occurred on November 21, 2024, at the NMOCD Reference # nAPP2432652685 – Hognose Viper 23 Federal 1H location.

Terracon appreciates this opportunity to provide environmental consulting services to Devon Energy Production Company, LP. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,



Prepared by:

A handwritten signature in blue ink, appearing to be 'C. Smith'.

Charles F. Smith
Senior Project Manager

Reviewed by:

A handwritten signature in blue ink, appearing to be 'John Grams'.

John Grams, P.G. (TX)
Senior Geologist

Remediation Closure Report
Hognose Viper 23 Federal 1H | Lea County, New Mexico
July 23, 2025, | Terracon Project No. KH247059



Attachments:

Appendix A – Exhibits

- Exhibit 1 – Topographic Map
- Exhibit 2 – Site Location Map
- Exhibit 3 – NMOSE POD Location Map
- Exhibit 4 – Regulatory Criteria Map
- Exhibit 5 – Cave Karst Public UCP Map
- Exhibit 6 – Delineation Sample Map
- Exhibit 7 – Confirmation Sample Location Map

Appendix B – Tables and Well Data

- Table 1 – Delineation Sample Results
- Table 2 – Confirmation Sample Results
- Attachment 1 – Well Log Data

Appendix C – Photographic Log

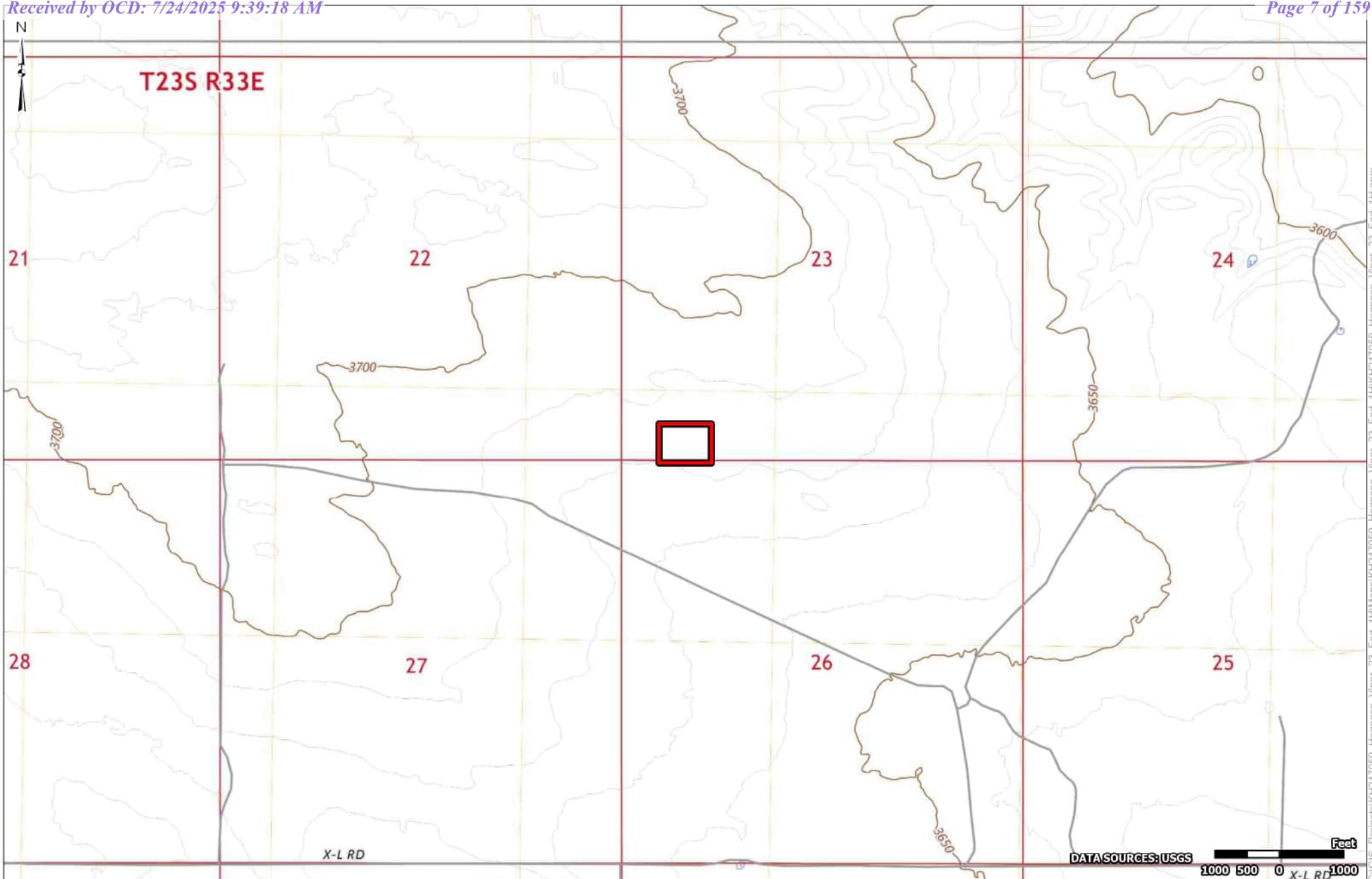
Appendix D – Analytical Report and Chain of Custody

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

Remediation Closure Report
Hognose Viper 23 Federal 1H | Lea County, New Mexico
July 23, 2025, | Terracon Project No. KH247059



APPENDIX A – EXHIBITS



 Site Boundary

Project No.:
KH247059
Date:
Jan 16 2025
Drawn By:
JWL
Reviewed By:
JRG



4526 W Pierce St
Carlsbad, NM

PH. 806-300-0140

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Topographic Map

Hognose Viper 23 Fed 1H
32.2833489, 103.5489202
Devon Energy Corp
Lea County, New Mexico

Exhibit

1



bing

DATA SOURCES: Bing

100 50 0 100

Feet




 Site Boundary

Project No.:
KH247059

Date:
Jan 16 2025

Drawn By:
JWL

Reviewed By:
JRG



Terracon

4526 W Pierce St
Carlsbad, NM

PH. 806-300-0140 terracon.com

Site Location Map
Hognose Viper 23 Fed 1H 32.2833489, 103.5489202 Devon Energy Corp Lea County, New Mexico

Exhibit
2



- Inferred Release
- NMOSE POD Location

Project No.:
KH247059
Date:
Mar 12 2025
Drawn By:
JWL
Reviewed By:
JRG

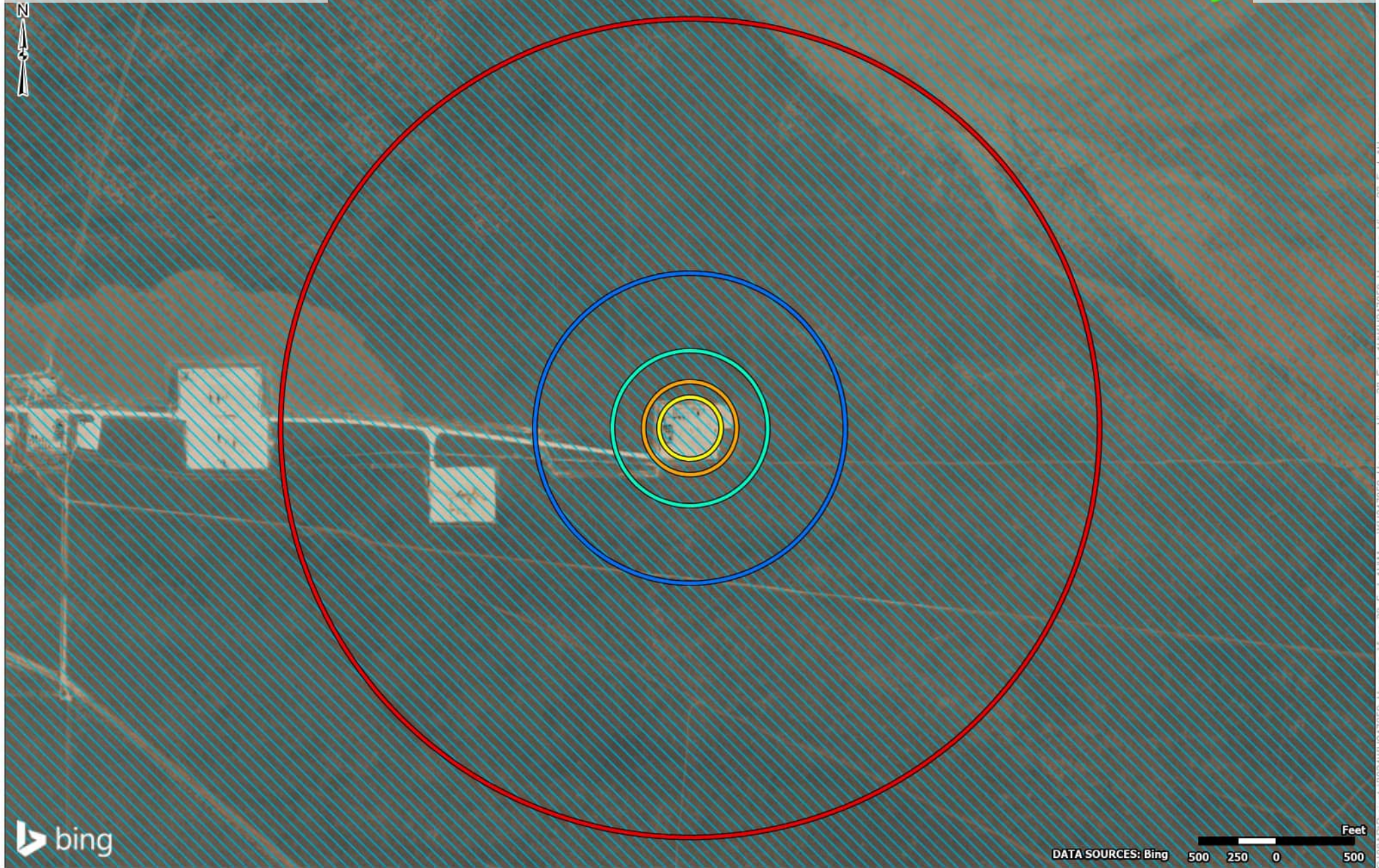
Terracon
4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com

NMOSE POD Location Map

Hognose Viper 23 Fed 1H
32.2833489, 103.5489202
Devon Energy Corp
Lea County, New Mexico


Exhibit

4



- Riverine
- Flood Zone "D"
- 200' Radius
- 300' Radius
- 500' Radius
- 1000' Radius
- 0.5-mi Radius

Project No.:
KH247059
Date:
Jul 23 2025
Drawn By:
JWL
Reviewed By:
JRG



5847 50th St
Lubbock, TX

PH. 806-300-0140 terracon.com

Regulatory Criteria Map

Hognose Viper 23 Fed 1H
32.2833489, 103.5489202
Devon Energy Corp
Lea County, New Mexico

Exhibit

4



- Site Boundary
- Karst Potential
- Low
- Medium
- High

Project No.:
KH247059
Date:
Jan 16 2025
Drawn By:
JWL
Reviewed By:
JRG

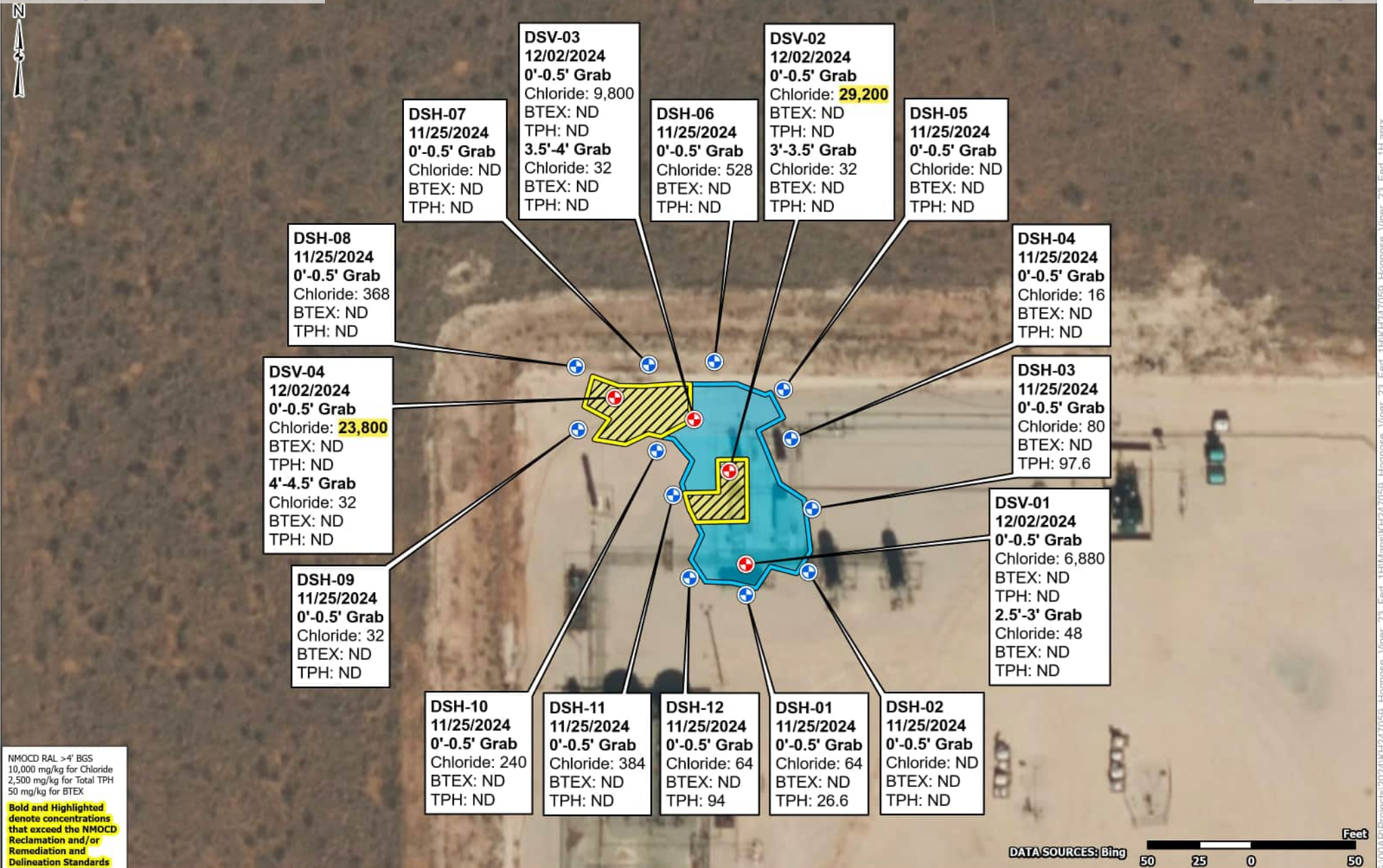
Terracon
4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com

Cave Karst Public UCP Map

Hognose Viper 23 Fed 1H
32.2833489, 103.5489202
Devon Energy Corp
Lea County, New Mexico

Exhibit

6



- Vertical Delineation Sample
- Horizontal Delineation Sample
- Inferred Release Area (2,555 Sq Ft)
- Exceeds NMOSE Standards (1,200 Sq Ft)

Released to Imaging: 9/15/2025 3:50:35 PM

Project No.:
KH247059

Date:
Jul 08 2025

Drawn By:
JWL

Reviewed By:
JRG



5847 50th St
Lubbock, TX

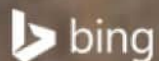
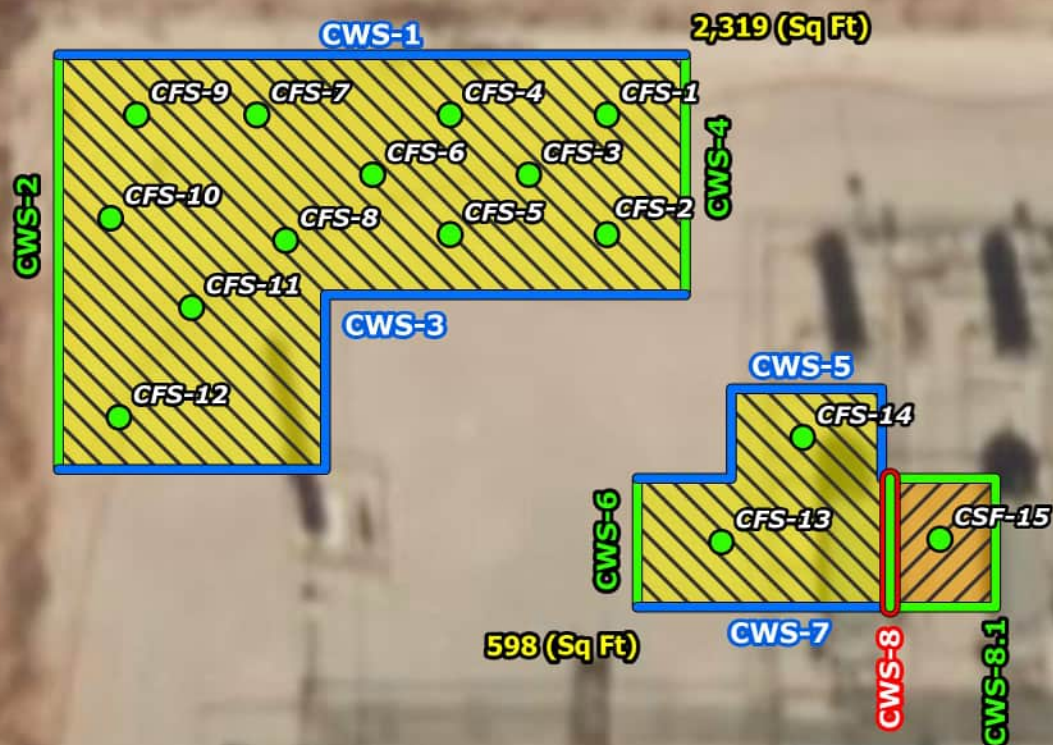
PH. 806-300-0140

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Delineation Sample Map

Hognose Viper 23 Fed 1H
32.2833489, 103.5489202
Devon Energy Corp
Lea County, New Mexico

Exhibit



DATA SOURCES: Bing

 Feet
 10 5 0 10

- Confirmation Floor Sample
- Wall Sample - North/South
- Wall Sample - East/West
- Wall Sample with Concentrations Exceeding Closure Criteria
- Additional Excavated Area

Released to Imaging: 9/15/2025 3:50:35 PM

Project No.:
KH247059

Date:
Jul 09 2025

Drawn By:
JWL

Reviewed By:
JRG



5847 50th St
Lubbock, TX

PH. 806-300-0140

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Confirmation Sample Location Map

Hognose Viper 23 Fed 1H
32.2833489, 103.5489202
Devon Energy Corp
Lea County, New Mexico

Exhibit

7

Remediation Closure Report
Hognose Viper 23 Federal 1H | Lea County, New Mexico
July 23, 2025, | Terracon Project No. KH247059




APPENDIX B – TABLES AND WELL DATA

Table 1
Soil Analytical Results Summary - Delineation Sample Results
Project Number: KH247059 - Hognose Viper 23 Fed 1H
NMOCD Reference No. nAPP2432652685

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
Release Assessment											
Horizontal Delineation Samples											
DSH-01	11/25/2024	0 - 0.5	HA-Grab	In-Situ	64	ND	ND	26.6	ND	26.6	ND
DSH-02	11/25/2024	0 - 0.5	HA-Grab	In-Situ	ND	ND	ND	0	ND	ND	ND
DSH-03	11/25/2024	0 - 0.5	HA-Grab	In-Situ	80	ND	ND	97.6	ND	67.8	29.8
DSH-04	11/25/2024	0 - 0.5	HA-Grab	In-Situ	16	ND	ND	ND	ND	ND	ND
DSH-05	11/25/2024	0 - 0.5	HA-Grab	In-Situ	ND	ND	ND	ND	ND	ND	ND
DSH-06	11/25/2024	0 - 0.5	HA-Grab	In-Situ	528	ND	ND	ND	ND	ND	ND
DSH-07	11/25/2024	0 - 0.5	HA-Grab	In-Situ	ND	ND	ND	ND	ND	ND	ND
DSH-08	11/25/2024	0 - 0.5	HA-Grab	In-Situ	368	ND	ND	ND	ND	ND	ND
DSH-09	11/25/2024	0 - 0.5	HA-Grab	In-Situ	32	ND	ND	ND	ND	ND	ND
DSH-10	11/25/2024	0 - 0.5	HA-Grab	In-Situ	240	ND	ND	ND	ND	ND	ND
DSH-11	11/25/2024	0 - 0.5	HA-Grab	In-Situ	384	ND	ND	ND	ND	ND	ND
DSH-12	11/25/2024	0 - 0.5	HA-Grab	In-Situ	64	ND	ND	94	ND	53.7	40.3
Vertical Delineation Samples											
DSV-01	12/2/2024	0 - 0.5	HA-Grab	In-Situ	6,880	ND	ND	ND	ND	ND	ND
	12/2/2024	2.5 - 3	HA-Grab	In-Situ	48	ND	ND	ND	ND	ND	ND
DSV-02	12/2/2024	0 - 0.5	HA-Grab	In-Situ	29,200	ND	ND	ND	ND	ND	ND
	12/2/2024	3 - 3.5	HA-Grab	In-Situ	32	ND	ND	ND	ND	ND	ND
DSV-03	12/2/2024	0 - 0.5	HA-Grab	In-Situ	9,800	ND	ND	ND	ND	ND	ND
	12/2/2024	3.5 - 4	HA-Grab	In-Situ	32	ND	ND	ND	ND	ND	ND
DSV-04	12/2/2024	0 - 0.5	HA-Grab	In-Situ	23,800	ND	ND	ND	ND	ND	ND
	12/2/2024	4 - 4.5	HA-Grab	In-Situ	32	ND	ND	ND	ND	ND	ND
NMOCD Reclamation Standards ³ (Surface to 4 ft bgs)					10,000	10	50	2,500	1,000		NA
NMOCD Remediation Standards ⁴ (Greater than Depths of 4 ft bgs)					10,000	10	50	2,500	1,000		NA
<div>1. BTEX = Benzene, Toluene, Ethylbenzene, and total Xylenes</div> <div>2. TPH = Total Petroleum Hydrocarbons</div> <div>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. bgs</div> <div>4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018</div> <div>ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).</div> <div>NA = Not Applicable</div> <div>Bold and Highlighted values exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.</div> <div>In-situ = Sample is representative of material which remains in-place at the site.</div> <div>Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.</div>									Data Entry:	cfs	
									Reviewed By:	jrg	
									<div>Terracon</div> <div>Explore with us</div>		

Table 2
Soil Analytical Results Summary - Confirmation Floor, Wall & Backfill Samples
Project Number: KH247059 - Hognose Viper 23 Fed 1H
NMOCD Reference No. nAPP2432652685

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											
CFS-1	6/20/2025	1.0-1.5	Composite	In-Situ	399	ND	ND	ND	ND	ND	ND
CFS-2	6/20/2025	1.0-1.5	Composite	In-Situ	1,480	ND	ND	ND	ND	ND	ND
CFS-3	6/20/2025	1.0-1.5	Composite	In-Situ	262	ND	ND	ND	ND	ND	ND
CFS-4	6/20/2025	1.0-1.5	Composite	In-Situ	186	ND	ND	ND	ND	ND	ND
CFS-5	6/20/2025	1.0-1.5	Composite	In-Situ	198	ND	ND	ND	ND	ND	ND
CFS-6	6/20/2025	1.0-1.5	Composite	In-Situ	863	ND	ND	ND	ND	ND	ND
CFS-7	6/20/2025	1.0-1.5	Composite	In-Situ	213	ND	ND	ND	ND	ND	ND
CFS-8	6/20/2025	1.0-1.5	Composite	In-Situ	789	ND	ND	ND	ND	ND	ND
CFS-9	6/20/2025	1.0-1.5	Composite	In-Situ	653	ND	ND	ND	ND	ND	ND
CFS-10	6/20/2025	1.0-1.5	Composite	In-Situ	448	ND	ND	ND	ND	ND	ND
CFS-11	6/20/2025	1.0-1.5	Composite	In-Situ	712	ND	ND	ND	ND	ND	ND
CFS-12	6/20/2025	1.0-1.5	Composite	In-Situ	1,490	ND	ND	ND	ND	ND	ND
CFS-13	6/20/2025	1.0-1.5	Composite	In-Situ	302	ND	ND	ND	ND	ND	ND
CFS-14	6/20/2025	1.0-1.5	Composite	In-Situ	6,440	ND	ND	ND	ND	ND	ND
CFS-15	7/3/2025	1.0-1.5	Composite	In-Situ	2,980	ND	ND	ND	ND	ND	ND
Confirmation Wall Samples											
CWS-1	6/20/2025	0.0-1.5	Composite	In-Situ	524	ND	ND	ND	ND	ND	ND
CWS-2	6/20/2025	0.0-1.5	Composite	In-Situ	96.8	ND	ND	ND	ND	ND	ND
CWS-3	6/20/2025	0.0-1.5	Composite	In-Situ	1,440	ND	ND	ND	ND	ND	ND
CWS-4	6/20/2025	0.0-1.5	Composite	In-Situ	5,140	ND	ND	ND	ND	ND	ND
CWS-5	6/20/2025	0.0-1.5	Composite	In-Situ	2,090	ND	ND	ND	ND	ND	ND
CWS-6	6/20/2025	0.0-1.5	Composite	In-Situ	1,480	ND	ND	ND	ND	ND	ND
CWS-7	6/20/2025	0.0-1.5	Composite	In-Situ	3,930	ND	ND	ND	ND	ND	ND
CWS-8	6/20/2025	0.0-1.5	Composite	Excavated	18,800	ND	ND	237	ND	237	ND
CWS-8.1	7/3/2025	0.0-1.5	Composite	In-Situ	824	ND	ND	ND	ND	ND	ND
Backfill Sample											
BFS-1	7/14/2025	NA	Composite	In-Situ	364	ND	ND	ND	ND	ND	ND
NMOCD Reclamation Standards ³ (Surface to 4 ft bgs)					10,000	10	50	2,500	1,000		NA
NMOCD Remediation Standards ⁴ (Greater than Depths of 4 ft bgs)					10,000	10	50	2,500	1,000		NA
<div>1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes</div> <div>2. TPH = Total Petroleum Hydrocarbons</div> <div>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. bgs</div> <div>4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018</div> <div>ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).</div> <div>NA = Not Applicable</div> <div>Bold denotes concentrations above applicable laboratory SDLs.</div> <div>Bold and Highlighted values exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.</div> <div>In-situ = Sample is representative of material which remains in-place at the site.</div> <div>Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.</div>									Data Entry:	cfs	
									Reviewed By:	jrg	
									<div></div> <div>Explore with us</div>		



2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

March 11, 2025

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4929 Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4929 Pod-1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4929			
	WELL OWNER NAME(S) Devon Energy Production Company LP				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 5315 Buena Vista				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 16	SECONDS 59.1 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
		LONGITUDE 103	32	54.6 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Hognose Viper 23 Federal, SE SW SW Sec. 23 T23SR33E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 2/11/25	DRILLING ENDED 2/11/25	DEPTH OF COMPLETED WELL (FT) Temporary Well Material		BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 03/04/2025		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 55		±6.25	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

FOR OSE INTERNAL USE

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

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

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	24	24	Sand/Caliche, fine-grained ,Tan	Y ✓ N	
	24	49	25	Sand/Slight Caliche, fine-grained ,Brown	Y ✓ N	
	49	55	6	Sand, Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:				TOTAL ESTIMATED	
	<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:				WELL YIELD (gpm):	
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.			
MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. . See attach plugging record. Logs adapted from onsite Terracon Personal						
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt						
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between;"> <div>  Jackie D. Atkins Jack Atkins (Mar 10, 2025 15:39 MDT) </div> <div> 03/10/2025 </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div>SIGNATURE OF DRILLER / PRINT SIGNEE NAME</div> <div>DATE</div> </div>					



PLUGGING RECORD



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

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4929 POD 1

Well owner: Devon Energy Production Company LP

Phone No.: _____

Mailing address: 5315 Buena Vista

City: Carlsbad

State: _____

NM

Zip code: 88220

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Cameron Pruitt
- 4) Date well plugging began: 03/04/2025 Date well plugging concluded: 03/04/2025
- 5) GPS Well Location: Latitude: 32 deg, 16 min, 59.1 sec
Longitude: 103 deg, 32 min, 54.6 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),
by the following manner: Water level probe
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 01/14/2025
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

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

For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0-10'	Hydrated Bentonite	Approx. 15 gallons	15 gallons	Boring	
10'-55'	Drill Cuttings	Approx. 72 gallons	72 gallons	Boring	

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

III. SIGNATURE:

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


Jack Atkins (Mar 10, 2025 15:39 MDT)

Signature of Well Driller

03/10/2025

Date






WR-20 Well Record and Log-packet-forsign

Final Audit Report

2025-03-10

Created:	2025-03-10
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAI7-bO0l2MocFiOjmkWZeh26K7Xc_s44U

"WR-20 Well Record and Log-packet-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2025-03-10 - 9:33:58 PM GMT
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2025-03-10 - 9:34:22 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2025-03-10 - 9:38:08 PM GMT
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2025-03-10 - 9:39:54 PM GMT - Time Source: server
-  Agreement completed.
2025-03-10 - 9:39:54 PM GMT



Adobe Acrobat Sign

Remediation Closure Report
Hognose Viper 23 Federal 1H | Lea County, New Mexico
July 23, 2025, | Terracon Project No. KH247059



APPENDIX C – PHOTOGRAPHIC LOG

Hognose Viper 23 Fed 1H, Lea County, New Mexico
July 17, 2025 ■ NMOCD ID: nAPP2432652685



PHOTO 1: View of sign near southwest corner of location.



PHOTO 2: View facing northeast of site location sign and facility.

Responsive ■ Resourceful ■ Reliable

Hognose Viper 23 Fed 1H, Lea County, New Mexico
July 17, 2025 ■ NMOCD ID: nAPP2432652685



PHOTO 3: View facing west of the release area near the northwest corner of the site.



PHOTO 4: View facing west of the excavated area near the northwest corner of the site.

Responsive ■ Resourceful ■ Reliable

Hognose Viper 23 Fed 1H, Lea County, New Mexico
July 17, 2025 ■ NMOCD ID: nAPP2432652685



PHOTO 5: View facing west of backfilling the excavation area near the northwest corner of site.



PHOTO 6: View facing east of backfilling the excavation area near the northwest corner of the site.

Responsive ■ Resourceful ■ Reliable

Hognose Viper 23 Fed 1H, Lea County, New Mexico
July 17, 2025 ■ NMOCD ID: nAPP2432652685



PHOTO 7: View facing north of release area near horizontal tanks.



PHOTO 8: View facing northwest of excavation area near horizontal tanks.

Responsive ■ Resourceful ■ Reliable

Hognose Viper 23 Fed 1H, Lea County, New Mexico
July 17, 2025 ■ NMOCD ID: nAPP2432652685



PHOTO 9: View facing west of excavation area near horizontal tanks.



PHOTO 10: View facing northwest of excavation area after backfilling near horizontal tanks.

Responsive ■ Resourceful ■ Reliable

Remediation Closure Report
Hognose Viper 23 Federal 1H | Lea County, New Mexico
July 23, 2025, | Terracon Project No. KH247059



APPENDIX D – ANALYTICAL REPORT AND CHAIN OF CUSTODY



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

December 05, 2024

TRAVIS CASEY

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: HOGNOSE VIPER 23 FED 1H

Enclosed are the results of analyses for samples received by the laboratory on 11/27/24 9:24.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 11/27/2024
 Reported: 12/05/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 11/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DSH - 01 0-0.5' (H247280-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2024	ND	1.99	99.3	2.00	3.75	
Toluene*	<0.050	0.050	12/02/2024	ND	1.90	95.2	2.00	7.40	
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	1.90	94.8	2.00	10.6	
Total Xylenes*	<0.150	0.150	12/02/2024	ND	5.63	93.9	6.00	11.8	
Total BTX	<0.300	0.300	12/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/03/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2024	ND	180	89.9	200	6.72	
DRO >C10-C28*	26.6	10.0	12/02/2024	ND	171	85.4	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	12/02/2024	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 11/27/2024
 Reported: 12/05/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 11/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DSH - 02 0-0.5' (H247280-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/02/2024	ND	1.99	99.3	2.00	3.75		
Toluene*	<0.050	0.050	12/02/2024	ND	1.90	95.2	2.00	7.40		
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	1.90	94.8	2.00	10.6		
Total Xylenes*	<0.150	0.150	12/02/2024	ND	5.63	93.9	6.00	11.8		
Total BTEX	<0.300	0.300	12/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/03/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2024	ND	180	89.9	200	6.72	
DRO >C10-C28*	<10.0	10.0	12/02/2024	ND	171	85.4	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	12/02/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 11/27/2024
 Reported: 12/05/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 11/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DSH - 03 0-0.5' (H247280-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/02/2024	ND	1.99	99.3	2.00	3.75		
Toluene*	<0.050	0.050	12/02/2024	ND	1.90	95.2	2.00	7.40		
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	1.90	94.8	2.00	10.6		
Total Xylenes*	<0.150	0.150	12/02/2024	ND	5.63	93.9	6.00	11.8		
Total BTEX	<0.300	0.300	12/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/03/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2024	ND	180	89.9	200	6.72	
DRO >C10-C28*	67.8	10.0	12/02/2024	ND	171	85.4	200	7.46	
EXT DRO >C28-C36	29.8	10.0	12/02/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 11/27/2024
 Reported: 12/05/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 11/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DSH - 04 0-0.5' (H247280-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/02/2024	ND	1.99	99.3	2.00	3.75		
Toluene*	<0.050	0.050	12/02/2024	ND	1.90	95.2	2.00	7.40		
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	1.90	94.8	2.00	10.6		
Total Xylenes*	<0.150	0.150	12/02/2024	ND	5.63	93.9	6.00	11.8		
Total BTEX	<0.300	0.300	12/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/03/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2024	ND	180	89.9	200	6.72	
DRO >C10-C28*	<10.0	10.0	12/02/2024	ND	171	85.4	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	12/02/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 11/27/2024
 Reported: 12/05/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 11/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DSH - 05 0-0.5' (H247280-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/02/2024	ND	1.99	99.3	2.00	3.75		
Toluene*	<0.050	0.050	12/02/2024	ND	1.90	95.2	2.00	7.40		
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	1.90	94.8	2.00	10.6		
Total Xylenes*	<0.150	0.150	12/02/2024	ND	5.63	93.9	6.00	11.8		
Total BTEX	<0.300	0.300	12/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/03/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2024	ND	180	89.9	200	6.72	
DRO >C10-C28*	<10.0	10.0	12/02/2024	ND	171	85.4	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	12/02/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 11/27/2024
 Reported: 12/05/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 11/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DSH - 06 0-0.5' (H247280-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/02/2024	ND	1.99	99.3	2.00	3.75		
Toluene*	<0.050	0.050	12/02/2024	ND	1.90	95.2	2.00	7.40		
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	1.90	94.8	2.00	10.6		
Total Xylenes*	<0.150	0.150	12/02/2024	ND	5.63	93.9	6.00	11.8		
Total BTEX	<0.300	0.300	12/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	12/03/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2024	ND	180	89.9	200	6.72	
DRO >C10-C28*	<10.0	10.0	12/02/2024	ND	171	85.4	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	12/02/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 11/27/2024
 Reported: 12/05/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 11/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DSH - 07 0-0.5' (H247280-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/02/2024	ND	1.99	99.3	2.00	3.75		
Toluene*	<0.050	0.050	12/02/2024	ND	1.90	95.2	2.00	7.40		
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	1.90	94.8	2.00	10.6		
Total Xylenes*	<0.150	0.150	12/02/2024	ND	5.63	93.9	6.00	11.8		
Total BTEX	<0.300	0.300	12/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/03/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2024	ND	180	89.9	200	6.72	
DRO >C10-C28*	<10.0	10.0	12/02/2024	ND	171	85.4	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	12/02/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 11/27/2024
 Reported: 12/05/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 11/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DSH - 08 0-0.5' (H247280-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/02/2024	ND	1.99	99.3	2.00	3.75		
Toluene*	<0.050	0.050	12/02/2024	ND	1.90	95.2	2.00	7.40		
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	1.90	94.8	2.00	10.6		
Total Xylenes*	<0.150	0.150	12/02/2024	ND	5.63	93.9	6.00	11.8		
Total BTEX	<0.300	0.300	12/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	12/03/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2024	ND	202	101	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/02/2024	ND	199	99.4	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	12/02/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 11/27/2024
 Reported: 12/05/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 11/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DSH - 09 0-0.5' (H247280-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/03/2024	ND	1.99	99.3	2.00	3.75		
Toluene*	<0.050	0.050	12/03/2024	ND	1.90	95.2	2.00	7.40		
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	1.90	94.8	2.00	10.6		
Total Xylenes*	<0.150	0.150	12/03/2024	ND	5.63	93.9	6.00	11.8		
Total BTEX	<0.300	0.300	12/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/03/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2024	ND	202	101	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/02/2024	ND	199	99.4	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	12/02/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 11/27/2024
 Reported: 12/05/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 11/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DSH - 10 0-0.5' (H247280-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/03/2024	ND	1.99	99.3	2.00	3.75		
Toluene*	<0.050	0.050	12/03/2024	ND	1.90	95.2	2.00	7.40		
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	1.90	94.8	2.00	10.6		
Total Xylenes*	<0.150	0.150	12/03/2024	ND	5.63	93.9	6.00	11.8		
Total BTEX	<0.300	0.300	12/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	12/03/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2024	ND	202	101	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/02/2024	ND	199	99.4	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	12/02/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 11/27/2024
 Reported: 12/05/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 11/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DSH - 11 0-0.5' (H247280-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/03/2024	ND	1.99	99.3	2.00	3.75		
Toluene*	<0.050	0.050	12/03/2024	ND	1.90	95.2	2.00	7.40		
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	1.90	94.8	2.00	10.6		
Total Xylenes*	<0.150	0.150	12/03/2024	ND	5.63	93.9	6.00	11.8		
Total BTEX	<0.300	0.300	12/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	12/03/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2024	ND	202	101	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/02/2024	ND	199	99.4	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	12/02/2024	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 11/27/2024
 Reported: 12/05/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 11/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DSH - 12 0-0.5' (H247280-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/03/2024	ND	1.99	99.3	2.00	3.75		
Toluene*	<0.050	0.050	12/03/2024	ND	1.90	95.2	2.00	7.40		
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	1.90	94.8	2.00	10.6		
Total Xylenes*	<0.150	0.150	12/03/2024	ND	5.63	93.9	6.00	11.8		
Total BTEX	<0.300	0.300	12/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/03/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2024	ND	202	101	200	0.167	
DRO >C10-C28*	53.7	10.0	12/02/2024	ND	199	99.4	200	1.94	
EXT DRO >C28-C36	40.3	10.0	12/02/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Cley D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Terracon

Project Manager: Travis Casey

Address: 4526 W. Pence Street

City: Carlsbad

Phone #: 5756895949

Fax #:

State: NM Zip: 88220

Company: Devon
Attn: Jim Raley

Address:

City:

State:

Phone #:

Fax #:

Project Name: Hognose Viper 23 Fed 1H

Project Location:

Sampler Name: Travis Casey

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth		(G)RAB OR (C)OMF	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST			
		Start	End			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					Chloride (EPA Method 4500)	TPH Extended 8015	BTEX (EPA Method 8021B)	
1	4247280	0	0.5	G	1	X						X		11/25/2024	13:00	X	X	X	
2		0	0.5	G	1	X						X		11/25/2024	13:10	X	X	X	
3		0	0.5	G	1	X						X		11/25/2024	13:15	X	X	X	
4		0	0.5	G	1	X						X		11/25/2024	13:20	X	X	X	
5		0	0.5	G	1	X						X		11/25/2024	13:30	X	X	X	
6		0	0.5	G	1	X						X		11/25/2024	13:35	X	X	X	
7		0	0.5	G	1	X						X		11/25/2024	13:40	X	X	X	
8		0	0.5	G	1	X						X		11/25/2024	13:55	X	X	X	
9		0	0.5	G	1	X						X		11/25/2024	14:10	X	X	X	
10		0	0.5	G	1	X						X		11/25/2024	14:20	X	X	X	

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Relinquished By:	Date: 11-27-24	Received By: [Signature]	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Time: 9:24	Date:	REMARKS: Joseph.guesner@terracon.com; travis.casey@terracon.com; chuck.smith@terracon.com; beckysue.miller@terracon.com; gus.sanchez@terracon.com	All Results are emailed. Please provide Email address:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 1.6 Corrected Temp. °C: 1.3	Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 Correction Factor .5°C -0.5°C
FORM-006 R.3.2 10/07/21		Checked By: [Signature]	Bacteria (only) Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

my Name: Terracon

FAX (575) 393-2476

FAX (575) 393-2476

[illegible]

Relinquished By:		Date:		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: 11:07 AM		Received By: [Signature]		All Results are emailed. Please provide Email address:	
Date:		Date: 09/24		REMARKS:			
Time:				Joseph.guenther@terracon.com, Travis.Casey@terracon.com, Chuck.Smith@terracon.com, Becky.Sue.Miller@terracon.com, Gus.Sanchez@terracon.com			
Delivered By: (Circle One)		Observed Temp. °C 19.1		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 18.6		Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes			
				<input type="checkbox"/> No <input type="checkbox"/> No		AP	
Turnaround Time: Standard		<input checked="" type="checkbox"/> Bacteria (only) Sample Condition					
Thermometer ID #1140 Rush		<input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C		Corrected Temp. °C	
Correction Factor -0.0°C							



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

December 09, 2024

TRAVIS CASEY

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: HOGNOSE VIPER 23 FED 1H

Enclosed are the results of analyses for samples received by the laboratory on 12/03/24 14:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 12/03/2024
 Reported: 12/09/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 12/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DSV - 01 0.5' (H247350-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.11	105	2.00	4.03	
Toluene*	<0.050	0.050	12/05/2024	ND	2.04	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.04	102	2.00	1.85	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.11	102	6.00	1.67	
Total BTX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	12/04/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	203	101	200	2.41	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	205	102	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 12/03/2024
 Reported: 12/09/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 12/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DSV - 01 3' (H247350-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.11	105	2.00	4.03	
Toluene*	<0.050	0.050	12/05/2024	ND	2.04	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.04	102	2.00	1.85	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.11	102	6.00	1.67	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	203	101	200	2.41	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	205	102	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 12/03/2024
 Reported: 12/09/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 12/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DSV - 02 0.5' (H247350-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/05/2024	ND	2.11	105	2.00	4.03		
Toluene*	<0.050	0.050	12/05/2024	ND	2.04	102	2.00	2.66		
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.04	102	2.00	1.85		
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.11	102	6.00	1.67		
Total BTEX	<0.300	0.300	12/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	29200	16.0	12/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	203	101	200	2.41	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	205	102	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 12/03/2024
 Reported: 12/09/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 12/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DSV - 02 3.5' (H247350-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.27	113	2.00	1.30	
Toluene*	<0.050	0.050	12/05/2024	ND	2.25	113	2.00	0.00604	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.16	108	2.00	1.28	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.77	113	6.00	0.849	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	203	101	200	2.41	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	205	102	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 12/03/2024
 Reported: 12/09/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 12/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DSV - 03 0.5' (H247350-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/05/2024	ND	2.27	113	2.00	1.30		
Toluene*	<0.050	0.050	12/05/2024	ND	2.25	113	2.00	0.00604		
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.16	108	2.00	1.28		
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.77	113	6.00	0.849		
Total BTEX	<0.300	0.300	12/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9800	16.0	12/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	203	101	200	2.41	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	205	102	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 12/03/2024
 Reported: 12/09/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 12/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DSV - 03 4' (H247350-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.27	113	2.00	1.30	
Toluene*	<0.050	0.050	12/05/2024	ND	2.25	113	2.00	0.00604	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.16	108	2.00	1.28	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.77	113	6.00	0.849	
Total BTEx	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	203	101	200	2.41	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	205	102	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 12/03/2024
 Reported: 12/09/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 12/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DSV - 04 0.5' (H247350-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.27	113	2.00	1.30	
Toluene*	<0.050	0.050	12/05/2024	ND	2.25	113	2.00	0.00604	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.16	108	2.00	1.28	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.77	113	6.00	0.849	
Total BTEx	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	23800	16.0	12/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	203	101	200	2.41	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	205	102	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 TRAVIS CASEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 12/03/2024
 Reported: 12/09/2024
 Project Name: HOGNOSE VIPER 23 FED 1H
 Project Number: KH247059
 Project Location: DEVON

Sampling Date: 12/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DSV - 04 4.5' (H247350-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.27	113	2.00	1.30	
Toluene*	<0.050	0.050	12/05/2024	ND	2.25	113	2.00	0.00604	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.16	108	2.00	1.28	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.77	113	6.00	0.849	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/04/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	203	101	200	2.41	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	205	102	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager






CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

FAX (575) 393-2476

[illegible]

Relinquished By:		Date:	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		12-30-14		All Results are emailed. Please provide Email address:	
Relinquished By:		Time: 1:17	Received By:	REMARKS:	
		Date:		joseph.guestner@terracon.com, travis.casely@terracon.com, chuck.smith@terracon.com, beckysue.miller@terracon.com, gus.sanchez@terracon.com	
		Time:		Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition	
Delivered By: (Circle One)		Observed Temp. °C -1.9		Cool <input type="checkbox"/> Intact <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -2.5		Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
			CHECKED BY: (Initials)		
				Thermometer ID: #113-#140 <input checked="" type="checkbox"/> Red <input type="checkbox"/> Cool <input type="checkbox"/> Observed Temp. °C	
				Correction Factor: 25.5°C <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Chuck Smith
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Generated 6/30/2025 8:48:48 AM

JOB DESCRIPTION

Hognose Viper 23 Fed 1H
KH247059

JOB NUMBER

820-19526-1

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock TX 79424

Eurofins Lubbock

Job Notes

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Authorization



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Authorized for release by
Jessica Kramer, Project Manager
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(432)704-5440

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Laboratory Job ID: 820-19526-1
SDG: KH247059

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1

Job ID: 820-19526-1

Eurofins Lubbock

Job Narrative 820-19526-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 6/23/2025 12:07 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-112847 and analytical batch 880-112842 was outside the upper control limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-112847 and analytical batch 880-112842 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-112934 and analytical batch 880-112978 was outside the upper control limits.

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

Diesel Range Organics

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-112940 and analytical batch 880-113145 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-113003 and analytical batch 880-113081 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-113000 and analytical batch 880-113076 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CFS-1 (1.0'-1.5')

Lab Sample ID: 820-19526-1

Date Collected: 06/20/25 10:36

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 16:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 16:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 16:29	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		06/24/25 15:02	06/25/25 16:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 16:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/24/25 15:02	06/25/25 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	06/24/25 15:02	06/25/25 16:29	1
1,4-Difluorobenzene (Surr)	108		70 - 130	06/24/25 15:02	06/25/25 16:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/25/25 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/26/25 12:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/25 15:31	06/26/25 12:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/24/25 15:31	06/26/25 12:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/25 15:31	06/26/25 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130	06/24/25 15:31	06/26/25 12:27	1
o-Terphenyl (Surr)	92		70 - 130	06/24/25 15:31	06/26/25 12:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	399	F1	10.1		mg/Kg			06/26/25 00:38	1

Client Sample ID: CFS-2 (1.0'-1.5')

Lab Sample ID: 820-19526-2

Date Collected: 06/20/25 10:40

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/24/25 15:02	06/25/25 16:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/24/25 15:02	06/25/25 16:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/24/25 15:02	06/25/25 16:50	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/24/25 15:02	06/25/25 16:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/24/25 15:02	06/25/25 16:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/24/25 15:02	06/25/25 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	06/24/25 15:02	06/25/25 16:50	1
1,4-Difluorobenzene (Surr)	105		70 - 130	06/24/25 15:02	06/25/25 16:50	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CFS-2 (1.0'-1.5')

Lab Sample ID: 820-19526-2

Date Collected: 06/20/25 10:40

Matrix: Solid

Date Received: 06/23/25 12:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/25/25 16:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/26/25 13:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/24/25 15:31	06/26/25 13:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		06/24/25 15:31	06/26/25 13:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/24/25 15:31	06/26/25 13:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130				06/24/25 15:31	06/26/25 13:12	1
o-Terphenyl (Surr)	91		70 - 130				06/24/25 15:31	06/26/25 13:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1480		9.92		mg/Kg			06/26/25 00:55	1

Client Sample ID: CFS-3 (1.0'-1.5')

Lab Sample ID: 820-19526-3

Date Collected: 06/20/25 10:45

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/24/25 15:02	06/25/25 17:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/24/25 15:02	06/25/25 17:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/24/25 15:02	06/25/25 17:10	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		06/24/25 15:02	06/25/25 17:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/24/25 15:02	06/25/25 17:10	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/24/25 15:02	06/25/25 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				06/24/25 15:02	06/25/25 17:10	1
1,4-Difluorobenzene (Surr)	105		70 - 130				06/24/25 15:02	06/25/25 17:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/25/25 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/26/25 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/25 15:31	06/26/25 13:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/24/25 15:31	06/26/25 13:27	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CFS-3 (1.0'-1.5')

Lab Sample ID: 820-19526-3

Date Collected: 06/20/25 10:45

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/25 15:31	06/26/25 13:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130				06/24/25 15:31	06/26/25 13:27	1
o-Terphenyl (Surr)	93		70 - 130				06/24/25 15:31	06/26/25 13:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	262		9.96		mg/Kg			06/26/25 01:01	1

Client Sample ID: CFS-4 (1.0'-1.5')

Lab Sample ID: 820-19526-4

Date Collected: 06/20/25 10:50

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/24/25 15:02	06/25/25 17:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/24/25 15:02	06/25/25 17:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/24/25 15:02	06/25/25 17:30	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		06/24/25 15:02	06/25/25 17:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/24/25 15:02	06/25/25 17:30	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/24/25 15:02	06/25/25 17:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				06/24/25 15:02	06/25/25 17:30	1
1,4-Difluorobenzene (Surr)	109		70 - 130				06/24/25 15:02	06/25/25 17:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/25/25 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/26/25 13:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/24/25 15:31	06/26/25 13:42	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		06/24/25 15:31	06/26/25 13:42	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/24/25 15:31	06/26/25 13:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130				06/24/25 15:31	06/26/25 13:42	1
o-Terphenyl (Surr)	90		70 - 130				06/24/25 15:31	06/26/25 13:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	186		9.92		mg/Kg			06/26/25 01:06	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CFS-5 (1.0'-1.5')

Lab Sample ID: 820-19526-5

Date Collected: 06/20/25 10:55

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 17:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 17:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 17:51	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/24/25 15:02	06/25/25 17:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 17:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/24/25 15:02	06/25/25 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	06/24/25 15:02	06/25/25 17:51	1
1,4-Difluorobenzene (Surr)	109		70 - 130	06/24/25 15:02	06/25/25 17:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/25/25 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/26/25 13:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/24/25 15:31	06/26/25 13:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		06/24/25 15:31	06/26/25 13:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/24/25 15:31	06/26/25 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130	06/24/25 15:31	06/26/25 13:58	1
o-Terphenyl (Surr)	94		70 - 130	06/24/25 15:31	06/26/25 13:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	198		10.0		mg/Kg			06/26/25 01:12	1

Client Sample ID: CFS-6 (1.0'-1.5')

Lab Sample ID: 820-19526-6

Date Collected: 06/20/25 11:00

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/24/25 15:02	06/25/25 18:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/24/25 15:02	06/25/25 18:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/24/25 15:02	06/25/25 18:11	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		06/24/25 15:02	06/25/25 18:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/24/25 15:02	06/25/25 18:11	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/24/25 15:02	06/25/25 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	06/24/25 15:02	06/25/25 18:11	1
1,4-Difluorobenzene (Surr)	106		70 - 130	06/24/25 15:02	06/25/25 18:11	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CFS-6 (1.0'-1.5')

Lab Sample ID: 820-19526-6

Date Collected: 06/20/25 11:00

Matrix: Solid

Date Received: 06/23/25 12:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/25/25 18:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/26/25 14:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/25 15:31	06/26/25 14:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/24/25 15:31	06/26/25 14:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/25 15:31	06/26/25 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130				06/24/25 15:31	06/26/25 14:13	1
o-Terphenyl (Surr)	86		70 - 130				06/24/25 15:31	06/26/25 14:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	863		9.94		mg/Kg			06/26/25 01:29	1

Client Sample ID: CFS-7 (1.0'-1.5')

Lab Sample ID: 820-19526-7

Date Collected: 06/20/25 11:05

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/24/25 15:02	06/25/25 18:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/24/25 15:02	06/25/25 18:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/24/25 15:02	06/25/25 18:32	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/24/25 15:02	06/25/25 18:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/24/25 15:02	06/25/25 18:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/24/25 15:02	06/25/25 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				06/24/25 15:02	06/25/25 18:32	1
1,4-Difluorobenzene (Surr)	110		70 - 130				06/24/25 15:02	06/25/25 18:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/25/25 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/26/25 14:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/24/25 15:31	06/26/25 14:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		06/24/25 15:31	06/26/25 14:28	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CFS-7 (1.0'-1.5')

Date Collected: 06/20/25 11:05

Date Received: 06/23/25 12:07

Lab Sample ID: 820-19526-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/24/25 15:31	06/26/25 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130				06/24/25 15:31	06/26/25 14:28	1
o-Terphenyl (Surr)	90		70 - 130				06/24/25 15:31	06/26/25 14:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	213		9.92		mg/Kg			06/26/25 01:35	1

Client Sample ID: CFS-8 (1.0'-1.5')

Date Collected: 06/20/25 11:10

Date Received: 06/23/25 12:07

Lab Sample ID: 820-19526-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/24/25 15:02	06/25/25 18:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/24/25 15:02	06/25/25 18:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/24/25 15:02	06/25/25 18:52	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/24/25 15:02	06/25/25 18:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/24/25 15:02	06/25/25 18:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/24/25 15:02	06/25/25 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				06/24/25 15:02	06/25/25 18:52	1
1,4-Difluorobenzene (Surr)	106		70 - 130				06/24/25 15:02	06/25/25 18:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/25/25 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/26/25 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/24/25 15:31	06/26/25 14:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		06/24/25 15:31	06/26/25 14:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/24/25 15:31	06/26/25 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130				06/24/25 15:31	06/26/25 14:43	1
o-Terphenyl (Surr)	92		70 - 130				06/24/25 15:31	06/26/25 14:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	789		9.94		mg/Kg			06/26/25 01:40	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CFS-9 (1.0'-1.5')

Lab Sample ID: 820-19526-9

Date Collected: 06/20/25 11:15

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 19:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 19:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 19:13	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		06/24/25 15:02	06/25/25 19:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 19:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/24/25 15:02	06/25/25 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	06/24/25 15:02	06/25/25 19:13	1
1,4-Difluorobenzene (Surr)	110		70 - 130	06/24/25 15:02	06/25/25 19:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/25/25 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/26/25 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/24/25 15:31	06/26/25 14:58	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		06/24/25 15:31	06/26/25 14:58	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/24/25 15:31	06/26/25 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130	06/24/25 15:31	06/26/25 14:58	1
o-Terphenyl (Surr)	89		70 - 130	06/24/25 15:31	06/26/25 14:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	653		9.96		mg/Kg			06/26/25 01:46	1

Client Sample ID: CFS-10 (1.0'-1.5')

Lab Sample ID: 820-19526-10

Date Collected: 06/20/25 11:20

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 19:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 19:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 19:33	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/24/25 15:02	06/25/25 19:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 19:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/24/25 15:02	06/25/25 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	06/24/25 15:02	06/25/25 19:33	1
1,4-Difluorobenzene (Surr)	104		70 - 130	06/24/25 15:02	06/25/25 19:33	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CFS-10 (1.0'-1.5')

Lab Sample ID: 820-19526-10

Date Collected: 06/20/25 11:20

Matrix: Solid

Date Received: 06/23/25 12:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/25/25 19:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/26/25 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/25 15:31	06/26/25 15:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/24/25 15:31	06/26/25 15:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/25 15:31	06/26/25 15:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130				06/24/25 15:31	06/26/25 15:13	1
o-Terphenyl (Surr)	92		70 - 130				06/24/25 15:31	06/26/25 15:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	448		9.92		mg/Kg			06/26/25 01:52	1

Client Sample ID: CFS-11 (1.0'-1.5')

Lab Sample ID: 820-19526-11

Date Collected: 06/20/25 11:25

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 21:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 21:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 21:23	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/24/25 15:02	06/25/25 21:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 21:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/24/25 15:02	06/25/25 21:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				06/24/25 15:02	06/25/25 21:23	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/24/25 15:02	06/25/25 21:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/25/25 21:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/26/25 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/24/25 15:31	06/26/25 15:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		06/24/25 15:31	06/26/25 15:44	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CFS-11 (1.0'-1.5')

Lab Sample ID: 820-19526-11

Date Collected: 06/20/25 11:25

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/24/25 15:31	06/26/25 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130				06/24/25 15:31	06/26/25 15:44	1
o-Terphenyl (Surr)	86		70 - 130				06/24/25 15:31	06/26/25 15:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	712		9.94		mg/Kg			06/26/25 01:57	1

Client Sample ID: CFS-12 (1.0'-1.5')

Lab Sample ID: 820-19526-12

Date Collected: 06/20/25 11:30

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 21:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 21:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 21:44	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		06/24/25 15:02	06/25/25 21:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 21:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/24/25 15:02	06/25/25 21:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				06/24/25 15:02	06/25/25 21:44	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/24/25 15:02	06/25/25 21:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/25/25 21:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/26/25 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/24/25 15:31	06/26/25 15:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		06/24/25 15:31	06/26/25 15:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/24/25 15:31	06/26/25 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130				06/24/25 15:31	06/26/25 15:59	1
o-Terphenyl (Surr)	84		70 - 130				06/24/25 15:31	06/26/25 15:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1490		9.94		mg/Kg			06/26/25 02:14	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CWS-1 (0'-1.5')

Lab Sample ID: 820-19526-13

Date Collected: 06/20/25 11:35

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 22:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 22:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 22:04	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/24/25 15:02	06/25/25 22:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 22:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/24/25 15:02	06/25/25 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	06/24/25 15:02	06/25/25 22:04	1
1,4-Difluorobenzene (Surr)	108		70 - 130	06/24/25 15:02	06/25/25 22:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/25/25 22:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/26/25 16:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/25 15:31	06/26/25 16:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/24/25 15:31	06/26/25 16:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/25 15:31	06/26/25 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130	06/24/25 15:31	06/26/25 16:14	1
o-Terphenyl (Surr)	79		70 - 130	06/24/25 15:31	06/26/25 16:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	524		9.92		mg/Kg			06/26/25 02:20	1

Client Sample ID: CWS-2 (0'-1.5')

Lab Sample ID: 820-19526-14

Date Collected: 06/20/25 11:40

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 22:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 22:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 22:25	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/24/25 15:02	06/25/25 22:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 22:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/24/25 15:02	06/25/25 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	06/24/25 15:02	06/25/25 22:25	1
1,4-Difluorobenzene (Surr)	111		70 - 130	06/24/25 15:02	06/25/25 22:25	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CWS-2 (0'-1.5')

Lab Sample ID: 820-19526-14

Date Collected: 06/20/25 11:40

Matrix: Solid

Date Received: 06/23/25 12:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/25/25 22:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/26/25 16:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/24/25 15:31	06/26/25 16:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		06/24/25 15:31	06/26/25 16:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/24/25 15:31	06/26/25 16:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130				06/24/25 15:31	06/26/25 16:30	1
o-Terphenyl (Surr)	80		70 - 130				06/24/25 15:31	06/26/25 16:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.8		10.0		mg/Kg			06/26/25 02:37	1

Client Sample ID: CWS-3 (0'-1.5')

Lab Sample ID: 820-19526-15

Date Collected: 06/20/25 11:45

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/24/25 15:02	06/25/25 22:45	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/24/25 15:02	06/25/25 22:45	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/24/25 15:02	06/25/25 22:45	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		06/24/25 15:02	06/25/25 22:45	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/24/25 15:02	06/25/25 22:45	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/24/25 15:02	06/25/25 22:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				06/24/25 15:02	06/25/25 22:45	1
1,4-Difluorobenzene (Surr)	107		70 - 130				06/24/25 15:02	06/25/25 22:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/25/25 22:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/26/25 16:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/24/25 15:31	06/26/25 16:45	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		06/24/25 15:31	06/26/25 16:45	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CWS-3 (0'-1.5')

Lab Sample ID: 820-19526-15

Date Collected: 06/20/25 11:45

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/24/25 15:31	06/26/25 16:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130				06/24/25 15:31	06/26/25 16:45	1
o-Terphenyl (Surr)	87		70 - 130				06/24/25 15:31	06/26/25 16:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1440		9.96		mg/Kg			06/26/25 02:43	1

Client Sample ID: CWS-4 (0'-1.5')

Lab Sample ID: 820-19526-16

Date Collected: 06/20/25 11:50

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 23:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 23:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 23:05	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		06/24/25 15:02	06/25/25 23:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 23:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/24/25 15:02	06/25/25 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				06/24/25 15:02	06/25/25 23:05	1
1,4-Difluorobenzene (Surr)	108		70 - 130				06/24/25 15:02	06/25/25 23:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/25/25 23:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/26/25 17:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/25 15:31	06/26/25 17:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/24/25 15:31	06/26/25 17:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/25 15:31	06/26/25 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130				06/24/25 15:31	06/26/25 17:00	1
o-Terphenyl (Surr)	90		70 - 130				06/24/25 15:31	06/26/25 17:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5140		99.2		mg/Kg			06/26/25 02:48	10

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CFS-13 (1.0'-1.5')

Lab Sample ID: 820-19526-17

Date Collected: 06/20/25 11:55

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 23:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 23:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 23:26	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/24/25 15:02	06/25/25 23:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 23:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/24/25 15:02	06/25/25 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	06/24/25 15:02	06/25/25 23:26	1
1,4-Difluorobenzene (Surr)	103		70 - 130	06/24/25 15:02	06/25/25 23:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/25/25 23:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/26/25 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/24/25 15:31	06/26/25 17:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		06/24/25 15:31	06/26/25 17:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/24/25 15:31	06/26/25 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130	06/24/25 15:31	06/26/25 17:15	1
o-Terphenyl (Surr)	83		70 - 130	06/24/25 15:31	06/26/25 17:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	302		10.1		mg/Kg			06/26/25 02:54	1

Client Sample ID: CFS-14 (1.0'-1.5')

Lab Sample ID: 820-19526-18

Date Collected: 06/20/25 12:00

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 23:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 23:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 23:46	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/24/25 15:02	06/25/25 23:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/25/25 23:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/24/25 15:02	06/25/25 23:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	06/24/25 15:02	06/25/25 23:46	1
1,4-Difluorobenzene (Surr)	103		70 - 130	06/24/25 15:02	06/25/25 23:46	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CFS-14 (1.0'-1.5')

Lab Sample ID: 820-19526-18

Date Collected: 06/20/25 12:00

Matrix: Solid

Date Received: 06/23/25 12:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/25/25 23:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/26/25 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/24/25 15:31	06/26/25 17:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		06/24/25 15:31	06/26/25 17:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/24/25 15:31	06/26/25 17:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130				06/24/25 15:31	06/26/25 17:30	1
o-Terphenyl (Surr)	86		70 - 130				06/24/25 15:31	06/26/25 17:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6440		100		mg/Kg			06/26/25 03:00	10

Client Sample ID: CWS-5 (0'-1.5')

Lab Sample ID: 820-19526-19

Date Collected: 06/20/25 12:05

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/26/25 00:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/26/25 00:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/26/25 00:07	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/24/25 15:02	06/26/25 00:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:02	06/26/25 00:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/24/25 15:02	06/26/25 00:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				06/24/25 15:02	06/26/25 00:07	1
1,4-Difluorobenzene (Surr)	108		70 - 130				06/24/25 15:02	06/26/25 00:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/26/25 00:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/26/25 17:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/25 15:31	06/26/25 17:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/24/25 15:31	06/26/25 17:45	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CWS-5 (0'-1.5')

Lab Sample ID: 820-19526-19

Date Collected: 06/20/25 12:05

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/25 15:31	06/26/25 17:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130				06/24/25 15:31	06/26/25 17:45	1
o-Terphenyl (Surr)	87		70 - 130				06/24/25 15:31	06/26/25 17:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2090		49.5		mg/Kg			06/26/25 03:05	5

Client Sample ID: CWS-6 (0'-1.5')

Lab Sample ID: 820-19526-20

Date Collected: 06/20/25 12:10

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/26/25 00:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/26/25 00:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/26/25 00:27	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		06/24/25 15:02	06/26/25 00:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/26/25 00:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/24/25 15:02	06/26/25 00:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				06/24/25 15:02	06/26/25 00:27	1
1,4-Difluorobenzene (Surr)	103		70 - 130				06/24/25 15:02	06/26/25 00:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/26/25 00:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/26/25 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/24/25 15:31	06/26/25 18:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		06/24/25 15:31	06/26/25 18:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/24/25 15:31	06/26/25 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130				06/24/25 15:31	06/26/25 18:00	1
o-Terphenyl (Surr)	85		70 - 130				06/24/25 15:31	06/26/25 18:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1480		9.90		mg/Kg			06/26/25 03:11	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CWS-7 (0'-1.5')

Lab Sample ID: 820-19526-21

Date Collected: 06/20/25 12:15

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:00	06/24/25 23:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:00	06/24/25 23:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:00	06/24/25 23:16	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		06/24/25 15:00	06/24/25 23:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:00	06/24/25 23:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/24/25 15:00	06/24/25 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	06/24/25 15:00	06/24/25 23:16	1
1,4-Difluorobenzene (Surr)	102		70 - 130	06/24/25 15:00	06/24/25 23:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/24/25 23:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/27/25 08:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/24/25 15:33	06/27/25 08:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/24/25 15:33	06/27/25 08:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/24/25 15:33	06/27/25 08:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	06/24/25 15:33	06/27/25 08:58	1
o-Terphenyl (Surr)	91		70 - 130	06/24/25 15:33	06/27/25 08:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3930	F1	49.6		mg/Kg			06/26/25 03:56	5

Client Sample ID: CWS-8 (0'-1.5')

Lab Sample ID: 820-19526-22

Date Collected: 06/20/25 12:20

Matrix: Solid

Date Received: 06/23/25 12:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:00	06/24/25 23:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:00	06/24/25 23:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:00	06/24/25 23:36	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/24/25 15:00	06/24/25 23:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/24/25 15:00	06/24/25 23:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/24/25 15:00	06/24/25 23:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	06/24/25 15:00	06/24/25 23:36	1
1,4-Difluorobenzene (Surr)	102		70 - 130	06/24/25 15:00	06/24/25 23:36	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CWS-8 (0'-1.5')

Lab Sample ID: 820-19526-22

Date Collected: 06/20/25 12:20

Matrix: Solid

Date Received: 06/23/25 12:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/24/25 23:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	237		49.9		mg/Kg			06/27/25 09:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/24/25 15:33	06/27/25 09:47	1
Diesel Range Organics (Over C10-C28)	237		49.9		mg/Kg		06/24/25 15:33	06/27/25 09:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/24/25 15:33	06/27/25 09:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130				06/24/25 15:33	06/27/25 09:47	1
o-Terphenyl (Surr)	101		70 - 130				06/24/25 15:33	06/27/25 09:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18800		199		mg/Kg			06/26/25 04:13	20

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
820-19526-1	CFS-1 (1.0'-1.5')	91	108
820-19526-1 MS	CFS-1 (1.0'-1.5')	106	99
820-19526-1 MSD	CFS-1 (1.0'-1.5')	99	97
820-19526-2	CFS-2 (1.0'-1.5')	113	105
820-19526-3	CFS-3 (1.0'-1.5')	115	105
820-19526-4	CFS-4 (1.0'-1.5')	108	109
820-19526-5	CFS-5 (1.0'-1.5')	120	109
820-19526-6	CFS-6 (1.0'-1.5')	124	106
820-19526-7	CFS-7 (1.0'-1.5')	119	110
820-19526-8	CFS-8 (1.0'-1.5')	122	106
820-19526-9	CFS-9 (1.0'-1.5')	117	110
820-19526-10	CFS-10 (1.0'-1.5')	119	104
820-19526-11	CFS-11 (1.0'-1.5')	94	96
820-19526-12	CFS-12 (1.0'-1.5')	108	100
820-19526-13	CWS-1 (0'-1.5')	114	108
820-19526-14	CWS-2 (0'-1.5')	113	111
820-19526-15	CWS-3 (0'-1.5')	117	107
820-19526-16	CWS-4 (0'-1.5')	115	108
820-19526-17	CFS-13 (1.0'-1.5')	124	103
820-19526-18	CFS-14 (1.0'-1.5')	119	103
820-19526-19	CWS-5 (0'-1.5')	118	108
820-19526-20	CWS-6 (0'-1.5')	124	103
820-19526-21	CWS-7 (0'-1.5')	118	102
820-19526-22	CWS-8 (0'-1.5')	113	102
890-8342-A-1-B MS	Matrix Spike	112	101
890-8342-A-1-C MSD	Matrix Spike Duplicate	95	100
LCS 880-112847/1-A	Lab Control Sample	97	92
LCS 880-112934/1-A	Lab Control Sample	102	99
LCSD 880-112847/2-A	Lab Control Sample Dup	96	86
LCSD 880-112934/2-A	Lab Control Sample Dup	101	102
MB 880-112847/5-A	Method Blank	152 S1+	95
MB 880-112934/5-A	Method Blank	145 S1+	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
820-19526-1	CFS-1 (1.0'-1.5')	85	92
820-19526-1 MS	CFS-1 (1.0'-1.5')	98	99
820-19526-1 MSD	CFS-1 (1.0'-1.5')	96	96
820-19526-2	CFS-2 (1.0'-1.5')	83	91
820-19526-3	CFS-3 (1.0'-1.5')	85	93
820-19526-4	CFS-4 (1.0'-1.5')	84	90
820-19526-5	CFS-5 (1.0'-1.5')	84	94

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Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
820-19526-6	CFS-6 (1.0'-1.5')	80	86
820-19526-7	CFS-7 (1.0'-1.5')	83	90
820-19526-8	CFS-8 (1.0'-1.5')	84	92
820-19526-9	CFS-9 (1.0'-1.5')	81	89
820-19526-10	CFS-10 (1.0'-1.5')	86	92
820-19526-11	CFS-11 (1.0'-1.5')	81	86
820-19526-12	CFS-12 (1.0'-1.5')	80	84
820-19526-13	CWS-1 (0'-1.5')	76	79
820-19526-14	CWS-2 (0'-1.5')	77	80
820-19526-15	CWS-3 (0'-1.5')	81	87
820-19526-16	CWS-4 (0'-1.5')	82	90
820-19526-17	CFS-13 (1.0'-1.5')	79	83
820-19526-18	CFS-14 (1.0'-1.5')	80	86
820-19526-19	CWS-5 (0'-1.5')	81	87
820-19526-20	CWS-6 (0'-1.5')	80	85
820-19526-21	CWS-7 (0'-1.5')	91	91
820-19526-21 MS	CWS-7 (0'-1.5')	87	95
820-19526-21 MSD	CWS-7 (0'-1.5')	88	95
820-19526-22	CWS-8 (0'-1.5')	96	101
LCS 880-112940/2-A	Lab Control Sample	77	82
LCS 880-112943/2-A	Lab Control Sample	106	116
LCSD 880-112940/3-A	Lab Control Sample Dup	78	82
LCSD 880-112943/3-A	Lab Control Sample Dup	104	114
MB 880-112940/1-A	Method Blank	75	85
MB 880-112943/1-A	Method Blank	95	100

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-112847/5-A

Matrix: Solid

Analysis Batch: 112842

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112847

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/25 10:26	06/24/25 15:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/25 10:26	06/24/25 15:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/25 10:26	06/24/25 15:09	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/24/25 10:26	06/24/25 15:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/25 10:26	06/24/25 15:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/24/25 10:26	06/24/25 15:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	06/24/25 10:26	06/24/25 15:09	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/24/25 10:26	06/24/25 15:09	1

Lab Sample ID: LCS 880-112847/1-A

Matrix: Solid

Analysis Batch: 112842

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112847

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08859		mg/Kg		89	70 - 130
Toluene	0.100	0.08616		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.09812		mg/Kg		98	70 - 130
m,p-Xylenes	0.200	0.1837		mg/Kg		92	70 - 130
o-Xylene	0.100	0.1019		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-112847/2-A

Matrix: Solid

Analysis Batch: 112842

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112847

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09476		mg/Kg		95	70 - 130	7	35
Toluene	0.100	0.1117		mg/Kg		112	70 - 130	26	35
Ethylbenzene	0.100	0.1081		mg/Kg		108	70 - 130	10	35
m,p-Xylenes	0.200	0.2131		mg/Kg		107	70 - 130	15	35
o-Xylene	0.100	0.1159		mg/Kg		116	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 890-8342-A-1-B MS

Matrix: Solid

Analysis Batch: 112842

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 112847

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1184		mg/Kg		118	70 - 130
Toluene	<0.00200	U	0.100	0.1030		mg/Kg		103	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

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

Lab Sample ID: 890-8342-A-1-B MS

Matrix: Solid

Analysis Batch: 112842

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 112847

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.100	0.1372	F1	mg/Kg		137	70 - 130
m,p-Xylenes	<0.00399	U	0.200	0.2567		mg/Kg		128	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.1399	F1	mg/Kg		140	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-8342-A-1-C MSD

Matrix: Solid

Analysis Batch: 112842

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 112847

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.1133		mg/Kg		113	70 - 130	4	35
Toluene	<0.00200	U	0.100	0.1046		mg/Kg		105	70 - 130	2	35
Ethylbenzene	<0.00200	U F1	0.100	0.1109		mg/Kg		111	70 - 130	21	35
m,p-Xylenes	<0.00399	U	0.200	0.1918		mg/Kg		96	70 - 130	29	35
o-Xylene	<0.00200	U F1	0.100	0.1217		mg/Kg		122	70 - 130	14	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-112934/5-A

Matrix: Solid

Analysis Batch: 112978

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112934

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 16:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 16:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 16:00	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/24/25 15:02	06/25/25 16:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/25 15:02	06/25/25 16:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/24/25 15:02	06/25/25 16:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130	06/24/25 15:02	06/25/25 16:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/24/25 15:02	06/25/25 16:00	1

Lab Sample ID: LCS 880-112934/1-A

Matrix: Solid

Analysis Batch: 112978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112934

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1036		mg/Kg		104	70 - 130
Toluene	0.100	0.09917		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1086		mg/Kg		109	70 - 130
m,p-Xylenes	0.200	0.2188		mg/Kg		109	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

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

Lab Sample ID: LCS 880-112934/1-A

Matrix: Solid

Analysis Batch: 112978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112934

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1236		mg/Kg		124	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-112934/2-A

Matrix: Solid

Analysis Batch: 112978

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112934

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1084		mg/Kg		108	70 - 130	5	35
Toluene	0.100	0.09708		mg/Kg		97	70 - 130	2	35
Ethylbenzene	0.100	0.1190		mg/Kg		119	70 - 130	9	35
m,p-Xylenes	0.200	0.2300		mg/Kg		115	70 - 130	5	35
o-Xylene	0.100	0.1274		mg/Kg		127	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 820-19526-1 MS

Matrix: Solid

Analysis Batch: 112978

Client Sample ID: CFS-1 (1.0'-1.5')

Prep Type: Total/NA

Prep Batch: 112934

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09739		mg/Kg		97	70 - 130
Toluene	<0.00200	U	0.100	0.08751		mg/Kg		88	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09148		mg/Kg		91	70 - 130
m,p-Xylenes	<0.00399	U	0.200	0.1996		mg/Kg		100	70 - 130
o-Xylene	<0.00200	U	0.100	0.1191		mg/Kg		119	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 820-19526-1 MSD

Matrix: Solid

Analysis Batch: 112978

Client Sample ID: CFS-1 (1.0'-1.5')

Prep Type: Total/NA

Prep Batch: 112934

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.1002		mg/Kg		100	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.08976		mg/Kg		90	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.09590		mg/Kg		96	70 - 130	5	35
m,p-Xylenes	<0.00399	U	0.200	0.1912		mg/Kg		96	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.1119		mg/Kg		112	70 - 130	6	35

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

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

Lab Sample ID: 820-19526-1 MSD

Matrix: Solid

Analysis Batch: 112978

Client Sample ID: CFS-1 (1.0'-1.5')

Prep Type: Total/NA

Prep Batch: 112934

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-112940/1-A

Matrix: Solid

Analysis Batch: 113145

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112940

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/25 15:30	06/26/25 10:09	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/24/25 15:30	06/26/25 10:09	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/25 15:30	06/26/25 10:09	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane (Surr)	75		70 - 130				06/24/25 15:30	06/26/25 10:09	1	
o-Terphenyl (Surr)	85		70 - 130				06/24/25 15:30	06/26/25 10:09	1	

Lab Sample ID: LCS 880-112940/2-A

Matrix: Solid

Analysis Batch: 113145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112940

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	878.6		mg/Kg		88	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	920.4		mg/Kg		92	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	77		70 - 130							
o-Terphenyl (Surr)	82		70 - 130							

Lab Sample ID: LCSD 880-112940/3-A

Matrix: Solid

Analysis Batch: 113145

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112940

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1055		mg/Kg		105	70 - 130	18	20
Diesel Range Organics (Over C10-C28)			1000	1138	*1	mg/Kg		114	70 - 130	21	20
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	78		70 - 130								
o-Terphenyl (Surr)	82		70 - 130								

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

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

Lab Sample ID: 820-19526-1 MS

Matrix: Solid

Analysis Batch: 113145

Client Sample ID: CFS-1 (1.0'-1.5')

Prep Type: Total/NA

Prep Batch: 112940

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	836.9		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U *1	998	935.6		mg/Kg		94	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	98		70 - 130						
o-Terphenyl (Surr)	99		70 - 130						

Lab Sample ID: 820-19526-1 MSD

Matrix: Solid

Analysis Batch: 113145

Client Sample ID: CFS-1 (1.0'-1.5')

Prep Type: Total/NA

Prep Batch: 112940

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	821.2		mg/Kg		82	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U *1	998	899.5		mg/Kg		90	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	96		70 - 130								
o-Terphenyl (Surr)	96		70 - 130								

Lab Sample ID: MB 880-112943/1-A

Matrix: Solid

Analysis Batch: 113218

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/25 15:33	06/27/25 06:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/24/25 15:33	06/27/25 06:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/25 15:33	06/27/25 06:59	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130				06/24/25 15:33	06/27/25 06:59	1
o-Terphenyl (Surr)	100		70 - 130				06/24/25 15:33	06/27/25 06:59	1

Lab Sample ID: LCS 880-112943/2-A

Matrix: Solid

Analysis Batch: 113218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	905.4		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	980.4		mg/Kg		98	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

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

Lab Sample ID: LCS 880-112943/2-A

Matrix: Solid

Analysis Batch: 113218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112943

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	106		70 - 130
o-Terphenyl (Surr)	116		70 - 130

Lab Sample ID: LCSD 880-112943/3-A

Matrix: Solid

Analysis Batch: 113218

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112943

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	904.1		mg/Kg		90	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	989.6		mg/Kg		99	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	114		70 - 130

Lab Sample ID: 820-19526-21 MS

Matrix: Solid

Analysis Batch: 113218

Client Sample ID: CWS-7 (0'-1.5')

Prep Type: Total/NA

Prep Batch: 112943

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	717.4		mg/Kg		72	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	822.1		mg/Kg		80	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	87		70 - 130
o-Terphenyl (Surr)	95		70 - 130

Lab Sample ID: 820-19526-21 MSD

Matrix: Solid

Analysis Batch: 113218

Client Sample ID: CWS-7 (0'-1.5')

Prep Type: Total/NA

Prep Batch: 112943

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	728.5		mg/Kg		73	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	997	828.7		mg/Kg		81	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	95		70 - 130

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-113000/1-A

Matrix: Solid

Analysis Batch: 113076

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/26/25 00:21	1

Lab Sample ID: LCS 880-113000/2-A

Matrix: Solid

Analysis Batch: 113076

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.8		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-113000/3-A

Matrix: Solid

Analysis Batch: 113076

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	248.6		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 820-19526-1 MS

Matrix: Solid

Analysis Batch: 113076

Client Sample ID: CFS-1 (1.0'-1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	399	F1	252	617.1	F1	mg/Kg		86	90 - 110

Lab Sample ID: 820-19526-1 MSD

Matrix: Solid

Analysis Batch: 113076

Client Sample ID: CFS-1 (1.0'-1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	399	F1	252	620.0	F1	mg/Kg		88	90 - 110	0	20

Lab Sample ID: 820-19526-11 MS

Matrix: Solid

Analysis Batch: 113076

Client Sample ID: CFS-11 (1.0'-1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	712		249	944.8		mg/Kg		94	90 - 110

Lab Sample ID: 820-19526-11 MSD

Matrix: Solid

Analysis Batch: 113076

Client Sample ID: CFS-11 (1.0'-1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	712		249	944.3		mg/Kg		93	90 - 110	0	20

Lab Sample ID: MB 880-113003/1-A

Matrix: Solid

Analysis Batch: 113081

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/26/25 03:39	1

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-113003/2-A

Matrix: Solid

Analysis Batch: 113081

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-113003/3-A

Matrix: Solid

Analysis Batch: 113081

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	249.4		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 820-19526-21 MS

Matrix: Solid

Analysis Batch: 113081

Client Sample ID: CWS-7 (0'-1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3930	F1	1240	5360	F1	mg/Kg		115	90 - 110

Lab Sample ID: 820-19526-21 MSD

Matrix: Solid

Analysis Batch: 113081

Client Sample ID: CWS-7 (0'-1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3930	F1	1240	5368	F1	mg/Kg		116	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

GC VOA

Analysis Batch: 112842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19526-21	CWS-7 (0'-1.5')	Total/NA	Solid	8021B	112847
820-19526-22	CWS-8 (0'-1.5')	Total/NA	Solid	8021B	112847
MB 880-112847/5-A	Method Blank	Total/NA	Solid	8021B	112847
LCS 880-112847/1-A	Lab Control Sample	Total/NA	Solid	8021B	112847
LCSD 880-112847/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112847
890-8342-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	112847
890-8342-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	112847

Prep Batch: 112847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19526-21	CWS-7 (0'-1.5')	Total/NA	Solid	5035	
820-19526-22	CWS-8 (0'-1.5')	Total/NA	Solid	5035	
MB 880-112847/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112847/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112847/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8342-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-8342-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 112934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19526-1	CFS-1 (1.0'-1.5')	Total/NA	Solid	5035	
820-19526-2	CFS-2 (1.0'-1.5')	Total/NA	Solid	5035	
820-19526-3	CFS-3 (1.0'-1.5')	Total/NA	Solid	5035	
820-19526-4	CFS-4 (1.0'-1.5')	Total/NA	Solid	5035	
820-19526-5	CFS-5 (1.0'-1.5')	Total/NA	Solid	5035	
820-19526-6	CFS-6 (1.0'-1.5')	Total/NA	Solid	5035	
820-19526-7	CFS-7 (1.0'-1.5')	Total/NA	Solid	5035	
820-19526-8	CFS-8 (1.0'-1.5')	Total/NA	Solid	5035	
820-19526-9	CFS-9 (1.0'-1.5')	Total/NA	Solid	5035	
820-19526-10	CFS-10 (1.0'-1.5')	Total/NA	Solid	5035	
820-19526-11	CFS-11 (1.0'-1.5')	Total/NA	Solid	5035	
820-19526-12	CFS-12 (1.0'-1.5')	Total/NA	Solid	5035	
820-19526-13	CWS-1 (0'-1.5')	Total/NA	Solid	5035	
820-19526-14	CWS-2 (0'-1.5')	Total/NA	Solid	5035	
820-19526-15	CWS-3 (0'-1.5')	Total/NA	Solid	5035	
820-19526-16	CWS-4 (0'-1.5')	Total/NA	Solid	5035	
820-19526-17	CFS-13 (1.0'-1.5')	Total/NA	Solid	5035	
820-19526-18	CFS-14 (1.0'-1.5')	Total/NA	Solid	5035	
820-19526-19	CWS-5 (0'-1.5')	Total/NA	Solid	5035	
820-19526-20	CWS-6 (0'-1.5')	Total/NA	Solid	5035	
MB 880-112934/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112934/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112934/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-19526-1 MS	CFS-1 (1.0'-1.5')	Total/NA	Solid	5035	
820-19526-1 MSD	CFS-1 (1.0'-1.5')	Total/NA	Solid	5035	

Analysis Batch: 112978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19526-1	CFS-1 (1.0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-2	CFS-2 (1.0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-3	CFS-3 (1.0'-1.5')	Total/NA	Solid	8021B	112934

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

GC VOA (Continued)

Analysis Batch: 112978 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19526-4	CFS-4 (1.0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-5	CFS-5 (1.0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-6	CFS-6 (1.0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-7	CFS-7 (1.0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-8	CFS-8 (1.0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-9	CFS-9 (1.0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-10	CFS-10 (1.0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-11	CFS-11 (1.0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-12	CFS-12 (1.0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-13	CWS-1 (0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-14	CWS-2 (0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-15	CWS-3 (0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-16	CWS-4 (0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-17	CFS-13 (1.0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-18	CFS-14 (1.0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-19	CWS-5 (0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-20	CWS-6 (0'-1.5')	Total/NA	Solid	8021B	112934
MB 880-112934/5-A	Method Blank	Total/NA	Solid	8021B	112934
LCS 880-112934/1-A	Lab Control Sample	Total/NA	Solid	8021B	112934
LCSD 880-112934/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112934
820-19526-1 MS	CFS-1 (1.0'-1.5')	Total/NA	Solid	8021B	112934
820-19526-1 MSD	CFS-1 (1.0'-1.5')	Total/NA	Solid	8021B	112934

Analysis Batch: 113019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19526-1	CFS-1 (1.0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-2	CFS-2 (1.0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-3	CFS-3 (1.0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-4	CFS-4 (1.0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-5	CFS-5 (1.0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-6	CFS-6 (1.0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-7	CFS-7 (1.0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-8	CFS-8 (1.0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-9	CFS-9 (1.0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-10	CFS-10 (1.0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-11	CFS-11 (1.0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-12	CFS-12 (1.0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-13	CWS-1 (0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-14	CWS-2 (0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-15	CWS-3 (0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-16	CWS-4 (0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-17	CFS-13 (1.0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-18	CFS-14 (1.0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-19	CWS-5 (0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-20	CWS-6 (0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-21	CWS-7 (0'-1.5')	Total/NA	Solid	Total BTEX	
820-19526-22	CWS-8 (0'-1.5')	Total/NA	Solid	Total BTEX	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

GC Semi VOA

Prep Batch: 112940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19526-1	CFS-1 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-2	CFS-2 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-3	CFS-3 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-4	CFS-4 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-5	CFS-5 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-6	CFS-6 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-7	CFS-7 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-8	CFS-8 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-9	CFS-9 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-10	CFS-10 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-11	CFS-11 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-12	CFS-12 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-13	CWS-1 (0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-14	CWS-2 (0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-15	CWS-3 (0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-16	CWS-4 (0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-17	CFS-13 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-18	CFS-14 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-19	CWS-5 (0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-20	CWS-6 (0'-1.5')	Total/NA	Solid	8015NM Prep	
MB 880-112940/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-112940/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-112940/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-19526-1 MS	CFS-1 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-1 MSD	CFS-1 (1.0'-1.5')	Total/NA	Solid	8015NM Prep	

Prep Batch: 112943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19526-21	CWS-7 (0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-22	CWS-8 (0'-1.5')	Total/NA	Solid	8015NM Prep	
MB 880-112943/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-112943/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-112943/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-19526-21 MS	CWS-7 (0'-1.5')	Total/NA	Solid	8015NM Prep	
820-19526-21 MSD	CWS-7 (0'-1.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 113145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19526-1	CFS-1 (1.0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-2	CFS-2 (1.0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-3	CFS-3 (1.0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-4	CFS-4 (1.0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-5	CFS-5 (1.0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-6	CFS-6 (1.0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-7	CFS-7 (1.0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-8	CFS-8 (1.0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-9	CFS-9 (1.0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-10	CFS-10 (1.0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-11	CFS-11 (1.0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-12	CFS-12 (1.0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-13	CWS-1 (0'-1.5')	Total/NA	Solid	8015B NM	112940

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
 SDG: KH247059

GC Semi VOA (Continued)

Analysis Batch: 113145 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19526-14	CWS-2 (0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-15	CWS-3 (0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-16	CWS-4 (0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-17	CFS-13 (1.0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-18	CFS-14 (1.0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-19	CWS-5 (0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-20	CWS-6 (0'-1.5')	Total/NA	Solid	8015B NM	112940
MB 880-112940/1-A	Method Blank	Total/NA	Solid	8015B NM	112940
LCS 880-112940/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	112940
LCSD 880-112940/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	112940
820-19526-1 MS	CFS-1 (1.0'-1.5')	Total/NA	Solid	8015B NM	112940
820-19526-1 MSD	CFS-1 (1.0'-1.5')	Total/NA	Solid	8015B NM	112940

Analysis Batch: 113188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19526-1	CFS-1 (1.0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-2	CFS-2 (1.0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-3	CFS-3 (1.0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-4	CFS-4 (1.0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-5	CFS-5 (1.0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-6	CFS-6 (1.0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-7	CFS-7 (1.0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-8	CFS-8 (1.0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-9	CFS-9 (1.0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-10	CFS-10 (1.0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-11	CFS-11 (1.0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-12	CFS-12 (1.0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-13	CWS-1 (0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-14	CWS-2 (0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-15	CWS-3 (0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-16	CWS-4 (0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-17	CFS-13 (1.0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-18	CFS-14 (1.0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-19	CWS-5 (0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-20	CWS-6 (0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-21	CWS-7 (0'-1.5')	Total/NA	Solid	8015 NM	
820-19526-22	CWS-8 (0'-1.5')	Total/NA	Solid	8015 NM	

Analysis Batch: 113218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19526-21	CWS-7 (0'-1.5')	Total/NA	Solid	8015B NM	112943
820-19526-22	CWS-8 (0'-1.5')	Total/NA	Solid	8015B NM	112943
MB 880-112943/1-A	Method Blank	Total/NA	Solid	8015B NM	112943
LCS 880-112943/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	112943
LCSD 880-112943/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	112943
820-19526-21 MS	CWS-7 (0'-1.5')	Total/NA	Solid	8015B NM	112943
820-19526-21 MSD	CWS-7 (0'-1.5')	Total/NA	Solid	8015B NM	112943

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

HPLC/IC

Leach Batch: 113000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19526-1	CFS-1 (1.0'-1.5')	Soluble	Solid	DI Leach	
820-19526-2	CFS-2 (1.0'-1.5')	Soluble	Solid	DI Leach	
820-19526-3	CFS-3 (1.0'-1.5')	Soluble	Solid	DI Leach	
820-19526-4	CFS-4 (1.0'-1.5')	Soluble	Solid	DI Leach	
820-19526-5	CFS-5 (1.0'-1.5')	Soluble	Solid	DI Leach	
820-19526-6	CFS-6 (1.0'-1.5')	Soluble	Solid	DI Leach	
820-19526-7	CFS-7 (1.0'-1.5')	Soluble	Solid	DI Leach	
820-19526-8	CFS-8 (1.0'-1.5')	Soluble	Solid	DI Leach	
820-19526-9	CFS-9 (1.0'-1.5')	Soluble	Solid	DI Leach	
820-19526-10	CFS-10 (1.0'-1.5')	Soluble	Solid	DI Leach	
820-19526-11	CFS-11 (1.0'-1.5')	Soluble	Solid	DI Leach	
820-19526-12	CFS-12 (1.0'-1.5')	Soluble	Solid	DI Leach	
820-19526-13	CWS-1 (0'-1.5')	Soluble	Solid	DI Leach	
820-19526-14	CWS-2 (0'-1.5')	Soluble	Solid	DI Leach	
820-19526-15	CWS-3 (0'-1.5')	Soluble	Solid	DI Leach	
820-19526-16	CWS-4 (0'-1.5')	Soluble	Solid	DI Leach	
820-19526-17	CFS-13 (1.0'-1.5')	Soluble	Solid	DI Leach	
820-19526-18	CFS-14 (1.0'-1.5')	Soluble	Solid	DI Leach	
820-19526-19	CWS-5 (0'-1.5')	Soluble	Solid	DI Leach	
820-19526-20	CWS-6 (0'-1.5')	Soluble	Solid	DI Leach	
MB 880-113000/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-113000/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-113000/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-19526-1 MS	CFS-1 (1.0'-1.5')	Soluble	Solid	DI Leach	
820-19526-1 MSD	CFS-1 (1.0'-1.5')	Soluble	Solid	DI Leach	
820-19526-11 MS	CFS-11 (1.0'-1.5')	Soluble	Solid	DI Leach	
820-19526-11 MSD	CFS-11 (1.0'-1.5')	Soluble	Solid	DI Leach	

Leach Batch: 113003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19526-21	CWS-7 (0'-1.5')	Soluble	Solid	DI Leach	
820-19526-22	CWS-8 (0'-1.5')	Soluble	Solid	DI Leach	
MB 880-113003/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-113003/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-113003/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-19526-21 MS	CWS-7 (0'-1.5')	Soluble	Solid	DI Leach	
820-19526-21 MSD	CWS-7 (0'-1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 113076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19526-1	CFS-1 (1.0'-1.5')	Soluble	Solid	300.0	113000
820-19526-2	CFS-2 (1.0'-1.5')	Soluble	Solid	300.0	113000
820-19526-3	CFS-3 (1.0'-1.5')	Soluble	Solid	300.0	113000
820-19526-4	CFS-4 (1.0'-1.5')	Soluble	Solid	300.0	113000
820-19526-5	CFS-5 (1.0'-1.5')	Soluble	Solid	300.0	113000
820-19526-6	CFS-6 (1.0'-1.5')	Soluble	Solid	300.0	113000
820-19526-7	CFS-7 (1.0'-1.5')	Soluble	Solid	300.0	113000
820-19526-8	CFS-8 (1.0'-1.5')	Soluble	Solid	300.0	113000
820-19526-9	CFS-9 (1.0'-1.5')	Soluble	Solid	300.0	113000
820-19526-10	CFS-10 (1.0'-1.5')	Soluble	Solid	300.0	113000
820-19526-11	CFS-11 (1.0'-1.5')	Soluble	Solid	300.0	113000

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

HPLC/IC (Continued)

Analysis Batch: 113076 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19526-12	CFS-12 (1.0'-1.5')	Soluble	Solid	300.0	113000
820-19526-13	CWS-1 (0'-1.5')	Soluble	Solid	300.0	113000
820-19526-14	CWS-2 (0'-1.5')	Soluble	Solid	300.0	113000
820-19526-15	CWS-3 (0'-1.5')	Soluble	Solid	300.0	113000
820-19526-16	CWS-4 (0'-1.5')	Soluble	Solid	300.0	113000
820-19526-17	CFS-13 (1.0'-1.5')	Soluble	Solid	300.0	113000
820-19526-18	CFS-14 (1.0'-1.5')	Soluble	Solid	300.0	113000
820-19526-19	CWS-5 (0'-1.5')	Soluble	Solid	300.0	113000
820-19526-20	CWS-6 (0'-1.5')	Soluble	Solid	300.0	113000
MB 880-113000/1-A	Method Blank	Soluble	Solid	300.0	113000
LCS 880-113000/2-A	Lab Control Sample	Soluble	Solid	300.0	113000
LCSD 880-113000/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	113000
820-19526-1 MS	CFS-1 (1.0'-1.5')	Soluble	Solid	300.0	113000
820-19526-1 MSD	CFS-1 (1.0'-1.5')	Soluble	Solid	300.0	113000
820-19526-11 MS	CFS-11 (1.0'-1.5')	Soluble	Solid	300.0	113000
820-19526-11 MSD	CFS-11 (1.0'-1.5')	Soluble	Solid	300.0	113000

Analysis Batch: 113081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19526-21	CWS-7 (0'-1.5')	Soluble	Solid	300.0	113003
820-19526-22	CWS-8 (0'-1.5')	Soluble	Solid	300.0	113003
MB 880-113003/1-A	Method Blank	Soluble	Solid	300.0	113003
LCS 880-113003/2-A	Lab Control Sample	Soluble	Solid	300.0	113003
LCSD 880-113003/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	113003
820-19526-21 MS	CWS-7 (0'-1.5')	Soluble	Solid	300.0	113003
820-19526-21 MSD	CWS-7 (0'-1.5')	Soluble	Solid	300.0	113003

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CFS-1 (1.0'-1.5')**Lab Sample ID: 820-19526-1****Date Collected: 06/20/25 10:36****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 16:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 16:29	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 12:27	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 12:27	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		1			113076	06/26/25 00:38	CS	EET MID

Client Sample ID: CFS-2 (1.0'-1.5')**Lab Sample ID: 820-19526-2****Date Collected: 06/20/25 10:40****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 16:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 16:50	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 13:12	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 13:12	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		1			113076	06/26/25 00:55	CS	EET MID

Client Sample ID: CFS-3 (1.0'-1.5')**Lab Sample ID: 820-19526-3****Date Collected: 06/20/25 10:45****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 17:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 17:10	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 13:27	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 13:27	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		1			113076	06/26/25 01:01	CS	EET MID

Client Sample ID: CFS-4 (1.0'-1.5')**Lab Sample ID: 820-19526-4****Date Collected: 06/20/25 10:50****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 17:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 17:30	SA	EET MID

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CFS-4 (1.0'-1.5')**Lab Sample ID: 820-19526-4****Date Collected: 06/20/25 10:50****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			113188	06/26/25 13:42	SA	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 13:42	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		1			113076	06/26/25 01:06	CS	EET MID

Client Sample ID: CFS-5 (1.0'-1.5')**Lab Sample ID: 820-19526-5****Date Collected: 06/20/25 10:55****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 17:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 17:51	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 13:58	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 13:58	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		1			113076	06/26/25 01:12	CS	EET MID

Client Sample ID: CFS-6 (1.0'-1.5')**Lab Sample ID: 820-19526-6****Date Collected: 06/20/25 11:00****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 18:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 18:11	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 14:13	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 14:13	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		1			113076	06/26/25 01:29	CS	EET MID

Client Sample ID: CFS-7 (1.0'-1.5')**Lab Sample ID: 820-19526-7****Date Collected: 06/20/25 11:05****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 18:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 18:32	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 14:28	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 14:28	TKC	EET MID

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CFS-7 (1.0'-1.5')**Lab Sample ID: 820-19526-7****Date Collected: 06/20/25 11:05****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		1			113076	06/26/25 01:35	CS	EET MID

Client Sample ID: CFS-8 (1.0'-1.5')**Lab Sample ID: 820-19526-8****Date Collected: 06/20/25 11:10****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 18:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 18:52	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 14:43	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 14:43	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		1			113076	06/26/25 01:40	CS	EET MID

Client Sample ID: CFS-9 (1.0'-1.5')**Lab Sample ID: 820-19526-9****Date Collected: 06/20/25 11:15****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 19:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 19:13	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 14:58	SA	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 14:58	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		1			113076	06/26/25 01:46	CS	EET MID

Client Sample ID: CFS-10 (1.0'-1.5')**Lab Sample ID: 820-19526-10****Date Collected: 06/20/25 11:20****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 19:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 19:33	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 15:13	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 15:13	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		1			113076	06/26/25 01:52	CS	EET MID

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CFS-11 (1.0'-1.5')**Lab Sample ID: 820-19526-11****Date Collected: 06/20/25 11:25****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 21:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 21:23	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 15:44	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 15:44	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		1			113076	06/26/25 01:57	CS	EET MID

Client Sample ID: CFS-12 (1.0'-1.5')**Lab Sample ID: 820-19526-12****Date Collected: 06/20/25 11:30****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 21:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 21:44	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 15:59	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 15:59	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		1			113076	06/26/25 02:14	CS	EET MID

Client Sample ID: CWS-1 (0'-1.5')**Lab Sample ID: 820-19526-13****Date Collected: 06/20/25 11:35****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 22:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 22:04	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 16:14	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 16:14	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		1			113076	06/26/25 02:20	CS	EET MID

Client Sample ID: CWS-2 (0'-1.5')**Lab Sample ID: 820-19526-14****Date Collected: 06/20/25 11:40****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 22:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 22:25	SA	EET MID

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CWS-2 (0'-1.5')**Lab Sample ID: 820-19526-14****Date Collected: 06/20/25 11:40****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			113188	06/26/25 16:30	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 16:30	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		1			113076	06/26/25 02:37	CS	EET MID

Client Sample ID: CWS-3 (0'-1.5')**Lab Sample ID: 820-19526-15****Date Collected: 06/20/25 11:45****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 22:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 22:45	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 16:45	SA	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 16:45	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		1			113076	06/26/25 02:43	CS	EET MID

Client Sample ID: CWS-4 (0'-1.5')**Lab Sample ID: 820-19526-16****Date Collected: 06/20/25 11:50****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 23:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 23:05	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 17:00	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 17:00	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		10			113076	06/26/25 02:48	CS	EET MID

Client Sample ID: CFS-13 (1.0'-1.5')**Lab Sample ID: 820-19526-17****Date Collected: 06/20/25 11:55****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 23:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 23:26	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 17:15	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 17:15	TKC	EET MID

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CFS-13 (1.0'-1.5')**Lab Sample ID: 820-19526-17****Date Collected: 06/20/25 11:55****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		1			113076	06/26/25 02:54	CS	EET MID

Client Sample ID: CFS-14 (1.0'-1.5')**Lab Sample ID: 820-19526-18****Date Collected: 06/20/25 12:00****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/25/25 23:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/25/25 23:46	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 17:30	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 17:30	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		10			113076	06/26/25 03:00	CS	EET MID

Client Sample ID: CWS-5 (0'-1.5')**Lab Sample ID: 820-19526-19****Date Collected: 06/20/25 12:05****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/26/25 00:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/26/25 00:07	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 17:45	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 17:45	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		5			113076	06/26/25 03:05	CS	EET MID

Client Sample ID: CWS-6 (0'-1.5')**Lab Sample ID: 820-19526-20****Date Collected: 06/20/25 12:10****Matrix: Solid****Date Received: 06/23/25 12:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	112934	06/24/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112978	06/26/25 00:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/26/25 00:27	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/26/25 18:00	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	112940	06/24/25 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113145	06/26/25 18:00	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	113000	06/25/25 11:01	SA	EET MID
Soluble	Analysis	300.0		1			113076	06/26/25 03:11	CS	EET MID

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Client Sample ID: CWS-7 (0'-1.5')
Date Collected: 06/20/25 12:15
Date Received: 06/23/25 12:07

Lab Sample ID: 820-19526-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	112847	06/24/25 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112842	06/24/25 23:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/24/25 23:16	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/27/25 08:58	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	112943	06/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113218	06/27/25 08:58	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	113003	06/25/25 11:02	SA	EET MID
Soluble	Analysis	300.0		5			113081	06/26/25 03:56	CS	EET MID

Client Sample ID: CWS-8 (0'-1.5')
Date Collected: 06/20/25 12:20
Date Received: 06/23/25 12:07

Lab Sample ID: 820-19526-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	112847	06/24/25 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112842	06/24/25 23:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113019	06/24/25 23:36	SA	EET MID
Total/NA	Analysis	8015 NM		1			113188	06/27/25 09:47	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	112943	06/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113218	06/27/25 09:47	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	113003	06/25/25 11:02	SA	EET MID
Soluble	Analysis	300.0		20			113081	06/26/25 04:13	CS	EET MID

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19526-1
SDG: KH247059

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-19526-1	CFS-1 (1.0'-1.5')	Solid	06/20/25 10:36	06/23/25 12:07
820-19526-2	CFS-2 (1.0'-1.5')	Solid	06/20/25 10:40	06/23/25 12:07
820-19526-3	CFS-3 (1.0'-1.5')	Solid	06/20/25 10:45	06/23/25 12:07
820-19526-4	CFS-4 (1.0'-1.5')	Solid	06/20/25 10:50	06/23/25 12:07
820-19526-5	CFS-5 (1.0'-1.5')	Solid	06/20/25 10:55	06/23/25 12:07
820-19526-6	CFS-6 (1.0'-1.5')	Solid	06/20/25 11:00	06/23/25 12:07
820-19526-7	CFS-7 (1.0'-1.5')	Solid	06/20/25 11:05	06/23/25 12:07
820-19526-8	CFS-8 (1.0'-1.5')	Solid	06/20/25 11:10	06/23/25 12:07
820-19526-9	CFS-9 (1.0'-1.5')	Solid	06/20/25 11:15	06/23/25 12:07
820-19526-10	CFS-10 (1.0'-1.5')	Solid	06/20/25 11:20	06/23/25 12:07
820-19526-11	CFS-11 (1.0'-1.5')	Solid	06/20/25 11:25	06/23/25 12:07
820-19526-12	CFS-12 (1.0'-1.5')	Solid	06/20/25 11:30	06/23/25 12:07
820-19526-13	CWS-1 (0'-1.5')	Solid	06/20/25 11:35	06/23/25 12:07
820-19526-14	CWS-2 (0'-1.5')	Solid	06/20/25 11:40	06/23/25 12:07
820-19526-15	CWS-3 (0'-1.5')	Solid	06/20/25 11:45	06/23/25 12:07
820-19526-16	CWS-4 (0'-1.5')	Solid	06/20/25 11:50	06/23/25 12:07
820-19526-17	CFS-13 (1.0'-1.5')	Solid	06/20/25 11:55	06/23/25 12:07
820-19526-18	CFS-14 (1.0'-1.5')	Solid	06/20/25 12:00	06/23/25 12:07
820-19526-19	CWS-5 (0'-1.5')	Solid	06/20/25 12:05	06/23/25 12:07
820-19526-20	CWS-6 (0'-1.5')	Solid	06/20/25 12:10	06/23/25 12:07
820-19526-21	CWS-7 (0'-1.5')	Solid	06/20/25 12:15	06/23/25 12:07
820-19526-22	CWS-8 (0'-1.5')	Solid	06/20/25 12:20	06/23/25 12:07

				Laboratory: Eurofins 6701 Aberdeen Lubbock, Texas 79424		Page <u>2</u> of <u>2</u>	
				Address: Lubbock, Texas 79424		LAB USE ONLY DUE DATE:	
Office Location Lubbock, Texas				Phone: (806) 794-1296		TEMP OF COOLER WHEN RECEIVED (°C) <u>53.15</u>	
Project Manager Chuck Smith				Contact: Holly Taylor		LAB USE ONLY DUE DATE:	
Sampler's Name Daniel Pavelka				Sampler's Signature 		LAB USE ONLY DUE DATE:	
Project Number KH247059				Project Name Hognose Viper 23 Fed 1H		LAB USE ONLY DUE DATE:	
Identifying Marks of Sample(s)				No. Type of Containers		LAB USE ONLY DUE DATE:	
Grab				4 oz Glass		LAB USE ONLY DUE DATE:	
Time				Start Depth (ft)		LAB USE ONLY DUE DATE:	
Date				End Depth (ft)		LAB USE ONLY DUE DATE:	
Matrix				Identifying Marks of Sample(s)		LAB USE ONLY DUE DATE:	
Time				Start Depth (ft)		LAB USE ONLY DUE DATE:	
Date				End Depth (ft)		LAB USE ONLY DUE DATE:	
Matrix				Identifying Marks of Sample(s)		LAB USE ONLY DUE DATE:	
Time				Start Depth (ft)		LAB USE ONLY DUE DATE:	
Date				End Depth (ft)		LAB USE ONLY DUE DATE:	
Matrix				Identifying Marks of Sample(s)		LAB USE ONLY DUE DATE:	
Time				Start Depth (ft)		LAB USE ONLY DUE DATE:	
Date				End Depth (ft)		LAB USE ONLY DUE DATE:	
Matrix				Identifying Marks of Sample(s)		LAB USE ONLY DUE DATE:	
Time				Start Depth (ft)		LAB USE ONLY DUE DATE:	
Date				End Depth (ft)		LAB USE ONLY DUE DATE:	
Matrix				Identifying Marks of Sample(s)		LAB USE ONLY DUE DATE:	
Time				Start Depth (ft)		LAB USE ONLY DUE DATE:	
Date				End Depth (ft)		LAB USE ONLY DUE DATE:	
Matrix				Identifying Marks of Sample(s)		LAB USE ONLY DUE DATE:	
Time				Start Depth (ft)		LAB USE ONLY DUE DATE:	
Date				End Depth (ft)		LAB USE ONLY DUE DATE:	
Matrix				Identifying Marks of Sample(s)		LAB USE ONLY DUE DATE:	
Time				Start Depth (ft)		LAB USE ONLY DUE DATE:	
Date				End Depth (ft)		LAB USE ONLY DUE DATE:	
Matrix				Identifying Marks of Sample(s)		LAB USE ONLY DUE DATE:	
Time				Start Depth (ft)		LAB USE ONLY DUE DATE:	
Date				End Depth (ft)		LAB USE ONLY DUE DATE:	
Matrix				Identifying Marks of Sample(s)		LAB USE ONLY DUE DATE:	
Time				Start Depth (ft)		LAB USE ONLY DUE DATE:	
Date				End Depth (ft)		LAB USE ONLY DUE DATE:	
Matrix				Identifying Marks of Sample(s)		LAB USE ONLY DUE DATE:	
Time				Start Depth (ft)		LAB USE ONLY DUE DATE:	
Date				End Depth (ft)		LAB USE ONLY DUE DATE:	
Matrix				Identifying Marks of Sample(s)		LAB USE ONLY DUE DATE:	
Time							

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-19526-1

SDG Number: KH247059

Login Number: 19526**List Number: 1****Creator: Guillen, Kyrstin****List Source: Eurofins Lubbock**

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

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-19526-1

SDG Number: KH247059

Login Number: 19526

List Number: 2

Creator: Rios, Minerva

List Source: Eurofins Midland

List Creation: 06/24/25 02:59 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Chuck Smith
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Generated 7/10/2025 12:44:25 PM

JOB DESCRIPTION

Hognose Viper 23 Fed 1H
KH247059

JOB NUMBER

820-19722-1

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock TX 79424

See page two for job notes and contact information.

Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
7/10/2025 12:44:25 PM

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

Eurofins Lubbock

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification # 02015.

VL = field staff performs tests under NJ State certification # 06005.

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334.

H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Laboratory Job ID: 820-19722-1
SDG: KH247059

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19722-1
SDG: KH247059

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project: Hognose Viper 23 Fed 1H

Job ID: 820-19722-1

Job ID: 820-19722-1**Eurofins Lubbock****Job Narrative
820-19722-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 7/7/2025 12:18 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C.

GC VOA

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

Diesel Range Organics

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-113798 and analytical batch 880-113809 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19722-1
SDG: KH247059

Client Sample ID: CWS-8.1 (0-1.5)

Lab Sample ID: 820-19722-1

Date Collected: 07/03/25 11:40

Matrix: Solid

Date Received: 07/07/25 12:18

Sample Depth: 0 - 1.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/25 10:21	07/08/25 13:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/25 10:21	07/08/25 13:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/25 10:21	07/08/25 13:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/25 10:21	07/08/25 13:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/25 10:21	07/08/25 13:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/25 10:21	07/08/25 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	07/08/25 10:21	07/08/25 13:46	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/08/25 10:21	07/08/25 13:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/08/25 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/10/25 02:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/25 08:08	07/10/25 02:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/25 08:08	07/10/25 02:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/25 08:08	07/10/25 02:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	07/08/25 08:08	07/10/25 02:43	1
o-Terphenyl	111		70 - 130	07/08/25 08:08	07/10/25 02:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	824		10.1		mg/Kg			07/09/25 11:52	1

Client Sample ID: CFS-15 (0-1.5)

Lab Sample ID: 820-19722-2

Date Collected: 07/03/25 11:45

Matrix: Solid

Date Received: 07/07/25 12:18

Sample Depth: 0 - 1.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/25 10:21	07/08/25 14:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/25 10:21	07/08/25 14:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/25 10:21	07/08/25 14:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/08/25 10:21	07/08/25 14:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/25 10:21	07/08/25 14:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/08/25 10:21	07/08/25 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	07/08/25 10:21	07/08/25 14:06	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19722-1
SDG: KH247059

Client Sample ID: CFS-15 (0-1.5)

Lab Sample ID: 820-19722-2

Date Collected: 07/03/25 11:45

Matrix: Solid

Date Received: 07/07/25 12:18

Sample Depth: 0 - 1.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	07/08/25 10:21	07/08/25 14:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/08/25 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/10/25 02:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/25 08:08	07/10/25 02:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/25 08:08	07/10/25 02:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/25 08:08	07/10/25 02:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				07/08/25 08:08	07/10/25 02:58	1
o-Terphenyl	109		70 - 130				07/08/25 08:08	07/10/25 02:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2980		49.6		mg/Kg			07/09/25 11:58	5

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19722-1
SDG: KH247059

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
820-19722-1	CWS-8.1 (0-1.5)	81	99
820-19722-2	CFS-15 (0-1.5)	89	98
890-8386-A-1-E MS	Matrix Spike	105	94
890-8386-A-1-F MSD	Matrix Spike Duplicate	114	100
LCS 880-113754/1-A	Lab Control Sample	91	106
LCSD 880-113754/2-A	Lab Control Sample Dup	111	95
MB 880-113754/5-A	Method Blank	83	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
820-19722-1	CWS-8.1 (0-1.5)	106	111
820-19722-2	CFS-15 (0-1.5)	104	109
890-8390-A-2-E MS	Matrix Spike	96	108
890-8390-A-2-F MSD	Matrix Spike Duplicate	95	108
LCS 880-113734/2-A	Lab Control Sample	92	106
LCSD 880-113734/3-A	Lab Control Sample Dup	93	107
MB 880-113734/1-A	Method Blank	96	99
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19722-1
SDG: KH247059

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-113754/5-A

Matrix: Solid

Analysis Batch: 113739

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113754

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/25 10:21	07/08/25 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/25 10:21	07/08/25 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/25 10:21	07/08/25 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/25 10:21	07/08/25 11:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/25 10:21	07/08/25 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/25 10:21	07/08/25 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	07/08/25 10:21	07/08/25 11:40	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/08/25 10:21	07/08/25 11:40	1

Lab Sample ID: LCS 880-113754/1-A

Matrix: Solid

Analysis Batch: 113739

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09969		mg/Kg		100	70 - 130
Toluene	0.100	0.1018		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1037		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.1969		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09914		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-113754/2-A

Matrix: Solid

Analysis Batch: 113739

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113754

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09035		mg/Kg		90	70 - 130	10	35
Toluene	0.100	0.09556		mg/Kg		96	70 - 130	6	35
Ethylbenzene	0.100	0.1059		mg/Kg		106	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2358		mg/Kg		118	70 - 130	18	35
o-Xylene	0.100	0.1184		mg/Kg		118	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-8386-A-1-E MS

Matrix: Solid

Analysis Batch: 113739

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 113754

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08554		mg/Kg		86	70 - 130
Toluene	<0.00200	U	0.100	0.09042		mg/Kg		90	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19722-1
SDG: KH247059

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

Lab Sample ID: 890-8386-A-1-E MS

Matrix: Solid

Analysis Batch: 113739

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 113754

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1073		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1961		mg/Kg		98	70 - 130
o-Xylene	<0.00200	U	0.100	0.09879		mg/Kg		99	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	105		70 - 130						
1,4-Difluorobenzene (Surr)	94		70 - 130						

Lab Sample ID: 890-8386-A-1-F MSD

Matrix: Solid

Analysis Batch: 113739

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 113754

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08715		mg/Kg		87	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.08625		mg/Kg		86	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.100	0.09224		mg/Kg		92	70 - 130	15	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1698		mg/Kg		85	70 - 130	14	35
o-Xylene	<0.00200	U	0.100	0.08825		mg/Kg		88	70 - 130	11	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	114		70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130								

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

Lab Sample ID: MB 880-113734/1-A

Matrix: Solid

Analysis Batch: 113843

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/25 07:59	07/09/25 23:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/25 07:59	07/09/25 23:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/25 07:59	07/09/25 23:47	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				07/08/25 07:59	07/09/25 23:47	1
o-Terphenyl	99		70 - 130				07/08/25 07:59	07/09/25 23:47	1

Lab Sample ID: LCS 880-113734/2-A

Matrix: Solid

Analysis Batch: 113843

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	992.4		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1069		mg/Kg		107	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19722-1
SDG: KH247059

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

Lab Sample ID: LCS 880-113734/2-A

Matrix: Solid

Analysis Batch: 113843

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113734

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: LCSD 880-113734/3-A

Matrix: Solid

Analysis Batch: 113843

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113734

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1004		mg/Kg		100	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1069		mg/Kg		107	70 - 130	0	20
Surrogate		LCSD	LCSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	93		70 - 130								
o-Terphenyl	107		70 - 130								

Lab Sample ID: 890-8390-A-2-E MS

Matrix: Solid

Analysis Batch: 113843

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 113734

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	912.4		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1031		mg/Kg		103	70 - 130		
Surrogate		MS	MS								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	96		70 - 130								
o-Terphenyl	108		70 - 130								

Lab Sample ID: 890-8390-A-2-F MSD

Matrix: Solid

Analysis Batch: 113843

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 113734

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	905.1		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1032		mg/Kg		103	70 - 130	0	20
Surrogate		MSD	MSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	95		70 - 130								
o-Terphenyl	108		70 - 130								

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19722-1
SDG: KH247059

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-113798/1-A

Matrix: Solid

Analysis Batch: 113809

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			07/09/25 09:42	1

Lab Sample ID: LCS 880-113798/2-A

Matrix: Solid

Analysis Batch: 113809

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.9		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-113798/3-A

Matrix: Solid

Analysis Batch: 113809

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.8		mg/Kg		98	90 - 110	2	20

Lab Sample ID: 880-60124-A-4-B MS

Matrix: Solid

Analysis Batch: 113809

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1760	F1	1260	3298	F1	mg/Kg		122	90 - 110

Lab Sample ID: 880-60124-A-4-C MSD

Matrix: Solid

Analysis Batch: 113809

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1760	F1	1260	3267	F1	mg/Kg		119	90 - 110	1	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19722-1
SDG: KH247059

GC VOA

Analysis Batch: 113739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19722-1	CWS-8.1 (0-1.5)	Total/NA	Solid	8021B	113754
820-19722-2	CFS-15 (0-1.5)	Total/NA	Solid	8021B	113754
MB 880-113754/5-A	Method Blank	Total/NA	Solid	8021B	113754
LCS 880-113754/1-A	Lab Control Sample	Total/NA	Solid	8021B	113754
LCSD 880-113754/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	113754
890-8386-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	113754
890-8386-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	113754

Prep Batch: 113754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19722-1	CWS-8.1 (0-1.5)	Total/NA	Solid	5035	
820-19722-2	CFS-15 (0-1.5)	Total/NA	Solid	5035	
MB 880-113754/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-113754/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-113754/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8386-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-8386-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 113780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19722-1	CWS-8.1 (0-1.5)	Total/NA	Solid	Total BTEX	
820-19722-2	CFS-15 (0-1.5)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 113734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19722-1	CWS-8.1 (0-1.5)	Total/NA	Solid	8015NM Prep	
820-19722-2	CFS-15 (0-1.5)	Total/NA	Solid	8015NM Prep	
MB 880-113734/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-113734/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-113734/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8390-A-2-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8390-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 113843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19722-1	CWS-8.1 (0-1.5)	Total/NA	Solid	8015B NM	113734
820-19722-2	CFS-15 (0-1.5)	Total/NA	Solid	8015B NM	113734
MB 880-113734/1-A	Method Blank	Total/NA	Solid	8015B NM	113734
LCS 880-113734/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	113734
LCSD 880-113734/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	113734
890-8390-A-2-E MS	Matrix Spike	Total/NA	Solid	8015B NM	113734
890-8390-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	113734

Analysis Batch: 113888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19722-1	CWS-8.1 (0-1.5)	Total/NA	Solid	8015 NM	
820-19722-2	CFS-15 (0-1.5)	Total/NA	Solid	8015 NM	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19722-1
SDG: KH247059

HPLC/IC

Leach Batch: 113798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19722-1	CWS-8.1 (0-1.5)	Soluble	Solid	DI Leach	
820-19722-2	CFS-15 (0-1.5)	Soluble	Solid	DI Leach	
MB 880-113798/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-113798/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-113798/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-60124-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-60124-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 113809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19722-1	CWS-8.1 (0-1.5)	Soluble	Solid	300.0	113798
820-19722-2	CFS-15 (0-1.5)	Soluble	Solid	300.0	113798
MB 880-113798/1-A	Method Blank	Soluble	Solid	300.0	113798
LCS 880-113798/2-A	Lab Control Sample	Soluble	Solid	300.0	113798
LCSD 880-113798/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	113798
880-60124-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	113798
880-60124-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	113798

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19722-1
SDG: KH247059

Client Sample ID: CWS-8.1 (0-1.5)
Date Collected: 07/03/25 11:40
Date Received: 07/07/25 12:18

Lab Sample ID: 820-19722-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	113754	07/08/25 10:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	113739	07/08/25 13:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113780	07/08/25 13:46	SA	EET MID
Total/NA	Analysis	8015 NM		1			113888	07/10/25 02:43	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	113734	07/08/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113843	07/10/25 02:43	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	113798	07/09/25 08:41	SA	EET MID
Soluble	Analysis	300.0		1			113809	07/09/25 11:52	CS	EET MID

Client Sample ID: CFS-15 (0-1.5)
Date Collected: 07/03/25 11:45
Date Received: 07/07/25 12:18

Lab Sample ID: 820-19722-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	113754	07/08/25 10:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	113739	07/08/25 14:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113780	07/08/25 14:06	SA	EET MID
Total/NA	Analysis	8015 NM		1			113888	07/10/25 02:58	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	113734	07/08/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113843	07/10/25 02:58	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	113798	07/09/25 08:41	SA	EET MID
Soluble	Analysis	300.0		5			113809	07/09/25 11:58	CS	EET MID

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19722-1
SDG: KH247059

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19722-1
SDG: KH247059

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19722-1
SDG: KH247059

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
820-19722-1	CWS-8.1 (0-1.5)	Solid	07/03/25 11:40	07/07/25 12:18	0 - 1.5
820-19722-2	CFS-15 (0-1.5)	Solid	07/03/25 11:45	07/07/25 12:18	0 - 1.5

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Loc: 820
19722

820-19722 Chain of Custody

CHAIN

		Laboratory: Eurofins Address: 6701 Aberdeen Lubbock, Texas 79424 Phone: (806) 794-1296 Contact: Holly Taylor		ANALYSIS REQUESTED Chloride (EPA Method 300) BTEX (EPA Method 8260B) TPH 8015 extended		TEMP OF COOLER WHEN RECEIVED (°C) 4.2/4.5 12.1/10.3	
		Office Location: Lubbock, Texas Project Manager: Chuck Smith Sampler's Name: Daniel Pavelka		Project Name: Hognose Viper 23 Fed 1H Identifying Marks of Sample(s): CWS-8.1 (0-1.5), CFS-15 (1.0-1.5)		Page 1 of 1 Lab Sample ID	
Project Number: KH247059	Project Name: Hognose Viper 23 Fed 1H		No. Type of Containers		No. Type of Containers 4 Oz Glass		
Matrix	Date	Time	Grab	Comp	Start Depth (ft)	End Depth (ft)	
S	7/3/2025	1140	X	X	0.0	1.5	X
S	7/3/2025	1145	X	X	1.0	1.5	X
NFE							
TURNAROUND TIME Relinquished by (Signature): Date: 7/3/25 12:00 Relinquished by (Signature): Date: 7-3-25 12:18 Relinquished by (Signature): Date: 7-3-25 12:18 Relinquished by (Signature): Date: 7-3-25 12:18							
Bill To: Terracon e-mail results to: chuck.smith@terracon.com joseph.guesnier@terracon.com daniel.pavelka@terracon.com							
Matrix: WWA Wastewater VOA 40 ml vial Container: W. Water A/G - Amber Glass 1L S - Soil 250 ml = Glass wide mouth L - Liquid P/O - Plastic or other Wipe C - Charcoal tube SL - Sludge							
Lubbock Office ■ 5847 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140 Responsive ■ Resourceful ■ Reliable							

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-19722-1

SDG Number: KH247059

Login Number: 19722

List Number: 1

Creator: Guillen, Kyrstin

List Source: Eurofins Lubbock

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

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-19722-1

SDG Number: KH247059

Login Number: 19722

List Number: 2

Creator: Vasquez, Julisa

List Source: Eurofins Midland

List Creation: 07/08/25 10:58 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Joseph Guesnier
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424
Generated 7/17/2025 12:39:16 PM

JOB DESCRIPTION

Hognose Viper 23 Fed 1H
KH247059

JOB NUMBER

820-19879-1

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock TX 79424

See page two for job notes and contact information.

Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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7/17/2025 12:39:16 PM

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

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Laboratory Job ID: 820-19879-1
SDG: KH247059

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19879-1
SDG: KH247059

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project: Hognose Viper 23 Fed 1H

Job ID: 820-19879-1

Job ID: 820-19879-1

Eurofins Lubbock

Job Narrative
820-19879-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The sample was received on 7/15/2025 9:23 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -4.1°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: BFS-1 (820-19879-1)

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19879-1
SDG: KH247059

Client Sample ID: BFS-1

Lab Sample ID: 820-19879-1

Date Collected: 07/14/25 15:20

Matrix: Solid

Date Received: 07/15/25 09:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/16/25 20:24	07/16/25 23:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/16/25 20:24	07/16/25 23:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/16/25 20:24	07/16/25 23:48	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		07/16/25 20:24	07/16/25 23:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/16/25 20:24	07/16/25 23:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/16/25 20:24	07/16/25 23:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	07/16/25 20:24	07/16/25 23:48	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/16/25 20:24	07/16/25 23:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/16/25 23:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/17/25 04:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/16/25 08:25	07/17/25 04:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/16/25 08:25	07/17/25 04:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/16/25 08:25	07/17/25 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130	07/16/25 08:25	07/17/25 04:00	1
o-Terphenyl (Surr)	100		70 - 130	07/16/25 08:25	07/17/25 04:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	364		9.96		mg/Kg			07/16/25 17:37	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19879-1
SDG: KH247059

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
820-19879-1	BFS-1	112	94
820-19879-1 MS	BFS-1	96	101
820-19879-1 MSD	BFS-1	99	106
LCS 880-114301/1-A	Lab Control Sample	98	109
LCSD 880-114301/2-A	Lab Control Sample Dup	98	102
MB 880-114291/8	Method Blank	102	93
MB 880-114301/5-A	Method Blank	99	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
820-19879-1	BFS-1	111	100
890-8450-A-1-L MS	Matrix Spike	103	100
890-8450-A-1-M MSD	Matrix Spike Duplicate	104	101
LCS 880-114246/2-A	Lab Control Sample	107	107
LCSD 880-114246/3-A	Lab Control Sample Dup	108	107
MB 880-114246/1-A	Method Blank	103	94
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19879-1
SDG: KH247059

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-114291/8

Matrix: Solid

Analysis Batch: 114291

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			07/16/25 16:28	1
Toluene	<0.00200	U	0.00200		mg/Kg			07/16/25 16:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			07/16/25 16:28	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg			07/16/25 16:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			07/16/25 16:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			07/16/25 16:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130		07/16/25 16:28	1
1,4-Difluorobenzene (Surr)	93		70 - 130		07/16/25 16:28	1

Lab Sample ID: MB 880-114301/5-A

Matrix: Solid

Analysis Batch: 114291

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114301

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/16/25 20:24	07/16/25 23:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/16/25 20:24	07/16/25 23:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/16/25 20:24	07/16/25 23:27	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		07/16/25 20:24	07/16/25 23:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/16/25 20:24	07/16/25 23:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/16/25 20:24	07/16/25 23:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/16/25 20:24	07/16/25 23:27	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/16/25 20:24	07/16/25 23:27	1

Lab Sample ID: LCS 880-114301/1-A

Matrix: Solid

Analysis Batch: 114291

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 114301

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1056		mg/Kg		106	70 - 130
Toluene	0.100	0.09573		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1081		mg/Kg		108	70 - 130
m,p-Xylenes	0.200	0.2152		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1059		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-114301/2-A

Matrix: Solid

Analysis Batch: 114291

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 114301

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1001		mg/Kg		100	70 - 130	5	35

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19879-1
SDG: KH247059

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

Lab Sample ID: LCSD 880-114301/2-A

Matrix: Solid

Analysis Batch: 114291

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 114301

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09540		mg/Kg		95	70 - 130	0	35
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130	1	35
m,p-Xylenes	0.200	0.2130		mg/Kg		107	70 - 130	1	35
o-Xylene	0.100	0.1056		mg/Kg		106	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 820-19879-1 MS

Matrix: Solid

Analysis Batch: 114291

Client Sample ID: BFS-1

Prep Type: Total/NA

Prep Batch: 114301

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1003		mg/Kg		100	70 - 130
Toluene	<0.00200	U	0.100	0.09348		mg/Kg		93	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1034		mg/Kg		103	70 - 130
m,p-Xylenes	<0.00399	U	0.200	0.2037		mg/Kg		102	70 - 130
o-Xylene	<0.00200	U	0.100	0.1021		mg/Kg		102	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 820-19879-1 MSD

Matrix: Solid

Analysis Batch: 114291

Client Sample ID: BFS-1

Prep Type: Total/NA

Prep Batch: 114301

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09645		mg/Kg		96	70 - 130	4	35
Toluene	<0.00200	U	0.100	0.09337		mg/Kg		93	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.100	0.1007		mg/Kg		101	70 - 130	3	35
m,p-Xylenes	<0.00399	U	0.200	0.2000		mg/Kg		100	70 - 130	2	35
o-Xylene	<0.00200	U	0.100	0.1004		mg/Kg		100	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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

Lab Sample ID: MB 880-114246/1-A

Matrix: Solid

Analysis Batch: 114289

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114246

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/16/25 08:25	07/16/25 22:00	1

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19879-1
SDG: KH247059

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

Lab Sample ID: MB 880-114246/1-A

Matrix: Solid

Analysis Batch: 114289

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114246

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/16/25 08:25	07/16/25 22:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/16/25 08:25	07/16/25 22:00	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130				07/16/25 08:25	07/16/25 22:00	1
o-Terphenyl (Surr)	94		70 - 130				07/16/25 08:25	07/16/25 22:00	1

Lab Sample ID: LCS 880-114246/2-A

Matrix: Solid

Analysis Batch: 114289

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 114246

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1091		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1076		mg/Kg		108	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	107		70 - 130				
o-Terphenyl (Surr)	107		70 - 130				

Lab Sample ID: LCSD 880-114246/3-A

Matrix: Solid

Analysis Batch: 114289

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 114246

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1081		mg/Kg		108	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1086		mg/Kg		109	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	108		70 - 130						
o-Terphenyl (Surr)	107		70 - 130						

Lab Sample ID: 890-8450-A-1-L MS

Matrix: Solid

Analysis Batch: 114289

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 114246

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	1000	953.1		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	<49.7	U	1000	1008		mg/Kg		101	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	103		70 - 130						
o-Terphenyl (Surr)	100		70 - 130						

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19879-1
SDG: KH247059

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

Lab Sample ID: 890-8450-A-1-M MSD

Matrix: Solid

Analysis Batch: 114289

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 114246

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	1000	977.7		mg/Kg		98	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.7	U	1000	1015		mg/Kg		101	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	104		70 - 130								
o-Terphenyl (Surr)	101		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-114286/1-A

Matrix: Solid

Analysis Batch: 114292

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			07/16/25 14:25	1

Lab Sample ID: LCS 880-114286/2-A

Matrix: Solid

Analysis Batch: 114292

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	232.8		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-114286/3-A

Matrix: Solid

Analysis Batch: 114292

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	230.5		mg/Kg		92	90 - 110	1	20

Lab Sample ID: 880-60381-A-7-B MS

Matrix: Solid

Analysis Batch: 114292

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	171		249	410.5		mg/Kg		96	90 - 110

Lab Sample ID: 880-60381-A-7-C MSD

Matrix: Solid

Analysis Batch: 114292

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	171		249	421.1		mg/Kg		101	90 - 110	3	20

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19879-1
SDG: KH247059

GC VOA

Analysis Batch: 114291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19879-1	BFS-1	Total/NA	Solid	8021B	114301
MB 880-114291/8	Method Blank	Total/NA	Solid	8021B	
MB 880-114301/5-A	Method Blank	Total/NA	Solid	8021B	114301
LCS 880-114301/1-A	Lab Control Sample	Total/NA	Solid	8021B	114301
LCSD 880-114301/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	114301
820-19879-1 MS	BFS-1	Total/NA	Solid	8021B	114301
820-19879-1 MSD	BFS-1	Total/NA	Solid	8021B	114301

Prep Batch: 114301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19879-1	BFS-1	Total/NA	Solid	5035	
MB 880-114301/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-114301/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-114301/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-19879-1 MS	BFS-1	Total/NA	Solid	5035	
820-19879-1 MSD	BFS-1	Total/NA	Solid	5035	

Analysis Batch: 114378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19879-1	BFS-1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 114246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19879-1	BFS-1	Total/NA	Solid	8015NM Prep	
MB 880-114246/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-114246/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-114246/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8450-A-1-L MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8450-A-1-M MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 114289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19879-1	BFS-1	Total/NA	Solid	8015B NM	114246
MB 880-114246/1-A	Method Blank	Total/NA	Solid	8015B NM	114246
LCS 880-114246/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	114246
LCSD 880-114246/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	114246
890-8450-A-1-L MS	Matrix Spike	Total/NA	Solid	8015B NM	114246
890-8450-A-1-M MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	114246

Analysis Batch: 114369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19879-1	BFS-1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 114286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19879-1	BFS-1	Soluble	Solid	DI Leach	
MB 880-114286/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-114286/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19879-1
SDG: KH247059

HPLC/IC (Continued)

Leach Batch: 114286 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-114286/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-60381-A-7-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-60381-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 114292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19879-1	BFS-1	Soluble	Solid	300.0	114286
MB 880-114286/1-A	Method Blank	Soluble	Solid	300.0	114286
LCS 880-114286/2-A	Lab Control Sample	Soluble	Solid	300.0	114286
LCSD 880-114286/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	114286
880-60381-A-7-B MS	Matrix Spike	Soluble	Solid	300.0	114286
880-60381-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	114286

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19879-1
SDG: KH247059

Client Sample ID: BFS-1
Date Collected: 07/14/25 15:20
Date Received: 07/15/25 09:23

Lab Sample ID: 820-19879-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	114301	07/16/25 20:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114291	07/16/25 23:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114378	07/16/25 23:48	SA	EET MID
Total/NA	Analysis	8015 NM		1			114369	07/17/25 04:00	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	114246	07/16/25 08:25	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114289	07/17/25 04:00	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	114286	07/16/25 13:16	SA	EET MID
Soluble	Analysis	300.0		1			114292	07/16/25 17:37	CS	EET MID

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19879-1
SDG: KH247059

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19879-1
SDG: KH247059

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Hognose Viper 23 Fed 1H

Job ID: 820-19879-1
SDG: KH247059

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-19879-1	BFS-1	Solid	07/14/25 15:20	07/15/25 09:23

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

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-19879-1

SDG Number: KH247059

Login Number: 19879

List Number: 1

Creator: Pena, Yazmeane

List Source: Eurofins Lubbock

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

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-19879-1

SDG Number: KH247059

Login Number: 19879

List Number: 2

Creator: Vasquez, Julisa

List Source: Eurofins Midland

List Creation: 07/16/25 11:31 AM

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

Remediation Closure Report
Hognose Viper 23 Federal 1H | Lea County, New Mexico
July 23, 2025, | Terracon Project No. KH247059



APPENDIX E – 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, Devon Energy Production Company, LP, as reflected in our Assessment Report sent via email on May 20, 3024.

Additional Scope Limitations

The development of this Closure Report is based on information provided by the Devon Energy Production Company, LP 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 the Devon Energy Production Company, LP. 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 Devon Energy Production Company, LP, 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 Devon Energy Production Company, LP and Terracon. Any unauthorized distribution or reuse is at Devon Energy Production Company, LP sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal and Devon Energy Production Company, LP 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 Devon Energy Production Company, LP 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 488363

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 488363
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2432652685
Incident Name	NAPP2432652685 HOGNOSE VIPER 23 FEDERAL #001H @ 30-025-41975
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-41975] HOGNOSE VIPER 23 FEDERAL #001H

Location of Release Source*Please answer all the questions in this group.*

Site Name	HOGNOSE VIPER 23 FEDERAL #001H
Date Release Discovered	11/21/2024
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

Incident Type	Produced Water 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	Cause: Corrosion Flow Line - Production Produced Water Released: 6 BBL Recovered: 5 BBL Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 488363

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 488363
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>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.</i>	

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	<i>Not answered.</i>

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: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 07/24/2025
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS, Page 3

Action 488363

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 488363
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 51 and 75 (ft.)
What method was used to determine the depth to ground water	Attached Document
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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<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)	29200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	97.6
GRO+DRO (EPA SW-846 Method 8015M)	67.8
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	03/31/2025
On what date will (or did) the final sampling or liner inspection occur	06/03/2025
On what date will (or was) the remediation complete(d)	07/14/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	2555
What is the estimated volume (in cubic yards) that will be remediated	800
<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>	

Sante Fe Main Office
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General Information
Phone: (505) 629-6116

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

QUESTIONS, Page 4

Action 488363

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 488363
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 07/24/2025
<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 488363

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 488363
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 488363

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 488363
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	480639
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/03/2025
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	200

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
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	2917
What was the total volume (cubic yards) remediated	180
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Remediation Complete
<i>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>	
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: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 07/24/2025

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QUESTIONS, Page 7

Action 488363

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 488363
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 488363

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 488363
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations.	9/15/2025