

209 W. McKay Street Carlsbad, New Mexico 88220 Tel. 432-701-2159 www.ntgenvironmental.com

May 22, 2024

Mike Bratcher District Supervisor Oil Conservation Division, District 2 811 S. First Street Artesia, New Mexico 88210

Re: Deferral Request

Thistle Unit 22 CTB 2 Unit A, S22, T23S, R33E

Site Coordinates: 32.295136, -103.554495

Lea County, New Mexico

Incident IDs: nAPP2327226475, nAPP2404051181, nAPP2404353463, nAPP2404672954

Mr. Bratcher:

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this Deferral Request report to document site assessment and remedial action activities at the Thistle 22 CTB 2 (Site). The Site is in Lea County, New Mexico (Figures 1 and 2).

Background

This report details the remediation process for four (4) different incidents (i.e., nAPP2327226475, nAPP2404051181, nAPP2404353463, nAPP2404672954).

Based on the initial C-141 for nAPP2327226475 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on September 28th, 2023. The release was caused by the water dump hanging open causing the gun barrel to be over pressured resulting in the release of approximately 15 barrels (bbls) of crude oil of which 15 bbls were recovered for a net loss of 0 bbls of crude oil. As well as 27 bbls of produced water of which 25 bbls were recovered resulting in a net loss of two barrels of produced water. Upon discovery, the equipment was shut-in, and the area secured.

Based on the initial C-141 for nAPP2404051181 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on February 8th, 2024. The release was caused by a leak in the gun barrel resulting in the release of approximately 22 barrels (bbls) of produced water of which 12 bbls were recovered for a net loss of 10 bbls of produced water. Upon discovery, the equipment was shut-in, and the area secured.

Based on the initial C-141 for nAPP2404353463 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on February 12th, 2024. The release was caused by a leak in the gun barrel resulting in the release of approximately 22 barrels (bbls) of produced water of which 20 bbls were recovered for a net loss of 2 bbls of produced water. Upon discovery, the equipment was shut-in, and the area secured.

Mr. Mike Bratcher May 22, 2024 Page 2 of 4

Based on the initial C-141 for nAPP2404672954 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on February 15th, 2024. The release was caused by a leak in the gun barrel resulting in the release of approximately 22 barrels (bbls) of produced water of which 20 bbls were recovered for a net loss of 2 bbls of produced water. Upon discovery, the equipment was shut-in, and the area secured.

The release areas are shown in Figure 3.

Site Characterization

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, there is one known water source (C-04664-POD1) within a ½-mile radius of the Site. No other receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) are located within each specific boundary or distance from the Site. A copy of the site characterization information and the associated NMOSE summary report is attached.

Regulatory Criteria

NTGE characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from the New Mexico Administrative Code (NMCA) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

From surface to 4 ft below ground surface:

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX): 50mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg

Below 4 ft below ground surface:

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX): 50mg/kg.
- GRO + DRO: 1,000 mg/kg
- TPH: 2,500 mg/kg (GRO + DRO + MRO).
- Chloride: 10,000 mg/kg

Site Assessment

On November 14th, 2023, NTGE conducted site assessment activities to assess the vertical extent of impacts at the Site. A total of three (3) vertical sample points (i.e., TP-1 through TP-3) and five (5) horizontal sample points (i.e., H-1 through H-5) were installed within the release area to characterize the impacts. Soil samples were collected in 0.5-to-1-foot (ft) intervals from depths ranging from 0-4 feet below ground surface (ft bgs) with backhoe. Sample locations are shown in Figure 3.

On January 9th, 2024, NTGE conducted additional site assessments activities to further delineate the horizontal extent of impacts at the Site. A total of four (4) additional horizontal sample points (i.e., H-1A through H-5A) were installed adjacent to the release area to characterize impacts. Soil samples were collected in 0.5 ft intervals from depths ranging from 0 - 0.5 ft bgs. Sample locations are shown in Figure 3.

On February 15th, 2024, NTGE conducted additional site assessment activities to delineate additional releases impact at the Site. A total of three (3) additional vertical sample points (i.e., V-1 through V-3) and five (5) additional horizontal sample points (i.e., H-6 through H-10) were installed within the release



Mr. Mike Bratcher May 22, 2024 Page 3 of 4

area to characterize the impacts. Soil samples were collected in 0.5 ft intervals from depths ranging from 0-0.5 ft bgs with a geotechnical hand-auger. Sample locations are shown in Figure 3.

Soil samples were placed directly into laboratory provided samples containers, placed on ice, and transported under proper chain-of-custody protocol. Soil samples were collected and analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (method SM4500Cl-B). Laboratory reports containing analytical methods and chain-of-custody documents are attached.

Remedial Action Activities and Confirmation Sampling

Based on the analytical results, Devon proceeded with the remedial actions at the Site to include the excavation and disposal of impacted soils above the regulatory limits. The release area was excavated to a depth of one (1) ft bgs in the following areas: TP-1 through TP-3, V-2, H-1 through H-5, H-8, and H-9.

On May 6th, 2024, a total of twenty (20) composite confirmation samples were collected from the excavation base (i.e., CS-1 through CS-20) and ten (10) composite confirmation samples were collected from the excavation sidewalls (SW-1 through SW-10) to ensure impacted soil was removed.

Analytical results, analytical results indicated that multiple composite confirmation excavation base and side wall samples (i.e., CS-10 through CS-12, CS-14 through CS-20, and SW-6 through SW-8) were above NMOCD regulatory criterion for chloride and/or TPH concentrations.

As a result, the impacted areas of CS-17, SW-7 and SW-8 were excavated further. On May 15th, NTGE collected a total of two (2) additional confirmation samples were collected from the excavation base (i.e., CS-17 and CS-21) and three (3) additional confirmation samples were collected from the excavation sidewalls (i.e., SW-7A, SW-8A, and SW-10) to ensure impacted soil was removed.

Analytical results indicated all samples, except the following: CS-10 through CS-12, CS-13 through CS-16, CS-18 through CS-20, SW-6, and SW-7, were below NMOCD regulatory criterion for the Site. The final excavation extent and confirmation sample locations are shown in Figure 4. Analytical results of the confirmation samples are included in Table 2.

Soil samples were placed directly into laboratory provided sample containers, placed on ice, and transported under proper chain-of-custody protocol to the lab. The confirmation samples were collected every 200 square feet and analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (method SM4500Cl-B). Laboratory reports containing analytical methods and chain-of-custody documents are attached.

Deferral Sampling

On May 15th, 2024, NTGE installed one (1) vertical deferral sample point (i.e., DS-1) in 1 ft depth intervals from depths ranging from 2 – 4 ft bgs with a geotechnical hand auger to characterize the impacts that couldn't be reached due to facility infrastructure. Laboratory results of these samples are presented in Table 2 and their locations are shown in Figure 5.

Soil samples were placed directly into laboratory provided sample containers, placed on ice, and transported under proper chain-of-custody protocol to the lab. The confirmation samples were collected every 200 square feet and analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (method SM4500Cl-B). Laboratory reports containing analytical methods and chain-of-custody documents are attached.

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Mr. Mike Bratcher May 22, 2024 Page 4 of 4

Deferral Request

Devon personnel have expressed that the following excavation areas: CS-10 through CS-12, CS-13 through CS-16, CS-18 through CS-20, SW-6, and SW-7 cannot be expanded vertically or horizontally due to the presence of facility infrastructure (i.e., liner, tank batteries, separators, adjacent flowlines and electrical lines, etc.) around the excavation and the associated safety concerns in further encroaching the infrastructure. The infrastructure in and around the excavation is shown on Figure 5.

On behalf of Devon, NTG Environmental formally requests a deferral to address the remaining soil impacts) at the time of facility decommissioning or in the event infrastructure modifications are made in the area that would alleviate the safety concerns, whichever is sooner. Should the deferral request be granted, a remedial action report documenting excavation expansion and confirmation sampling activities will be prepared and filed following completion of the further actions to be completed at a future date. The release notification, site assessment/characterization, remediation plan, and closure/deferral portion of form C-141 are attached to the front of this report.

If you have any questions regarding this report or need additional information, please contact us at 432-701-2159.

Sincerely,

NTG Environmental

Ethan Sessums Project Manager

aplus

Attachments:

Site Characterization Information

Tables Figures

Photographic Log

Laboratory Reports and Chain-of-Custody

Kellan Smith Project Scientist

Zur Luth





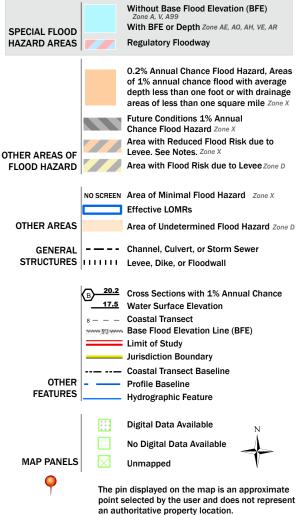


National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/23/2023 at 11:29 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

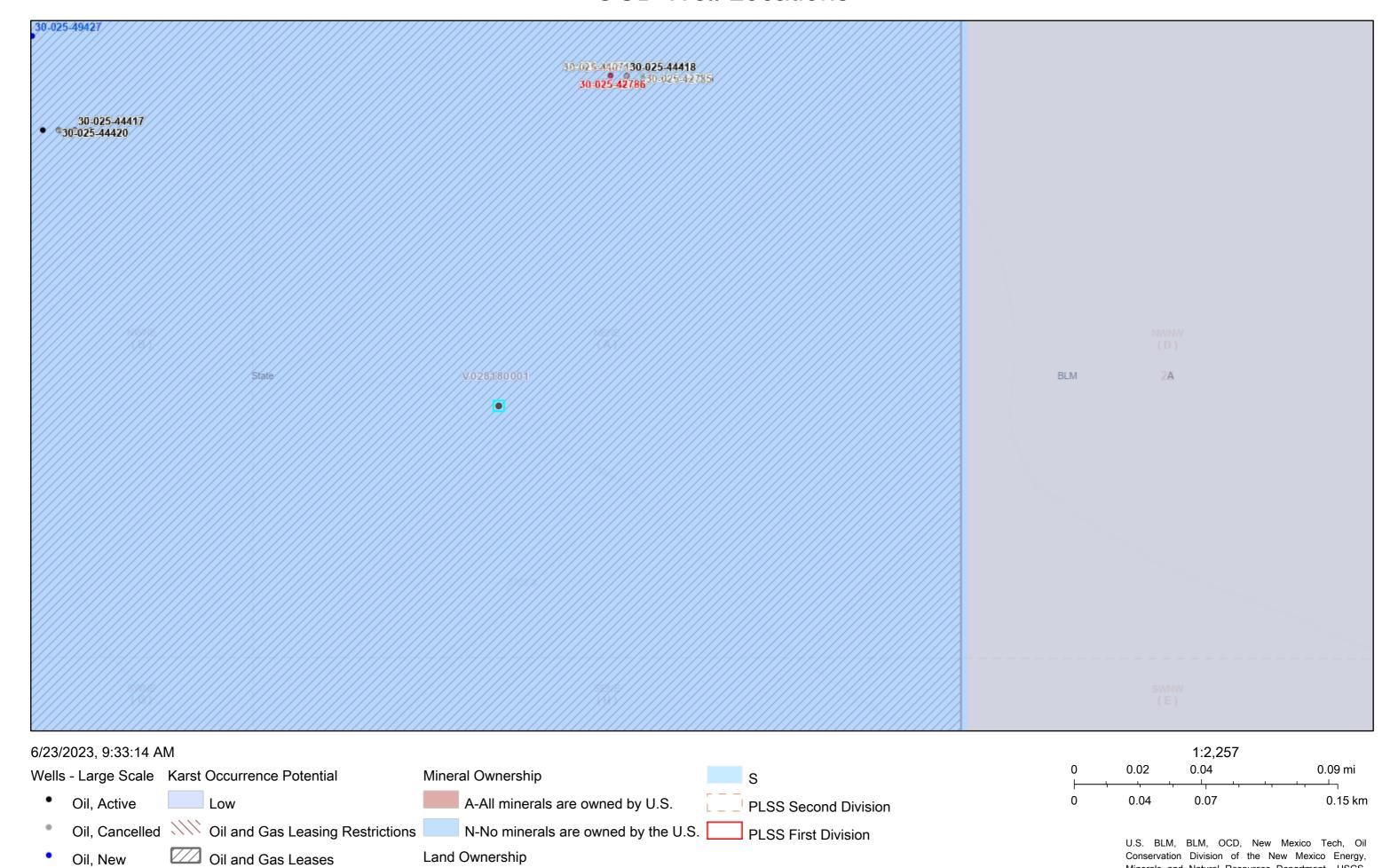
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



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Page 8 of 126

OCD Well Locations



BLM

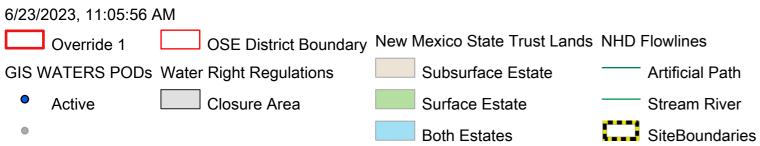
Minerals and Natural Resources Department., USGS, Bureau of Land Management, Texas Parks & Wildlife,

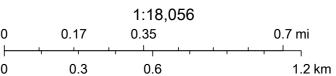
Oil, Plugged

Page 9 of 126

OSE POD Locations Map







Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

Released to Imaging: 8/26/2024 10:25:59 AM



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

 Well Tag
 POD Number
 Q64 Q16 Q4 Sec
 Tws
 Rng
 X
 Y

 NA
 C 04664 POD1
 4 1 4 15 23S 33E 635784 3574818
 635784 3574818

Driller Name: JACKIE D ATKINS

Drill Start Date: 09/07/2022 **Drill Finish Date:** 09/07/2022 **Plug Date:** 09/13/2022

Log File Date: 09/26/2022 **PCW Rcv Date: Source:**

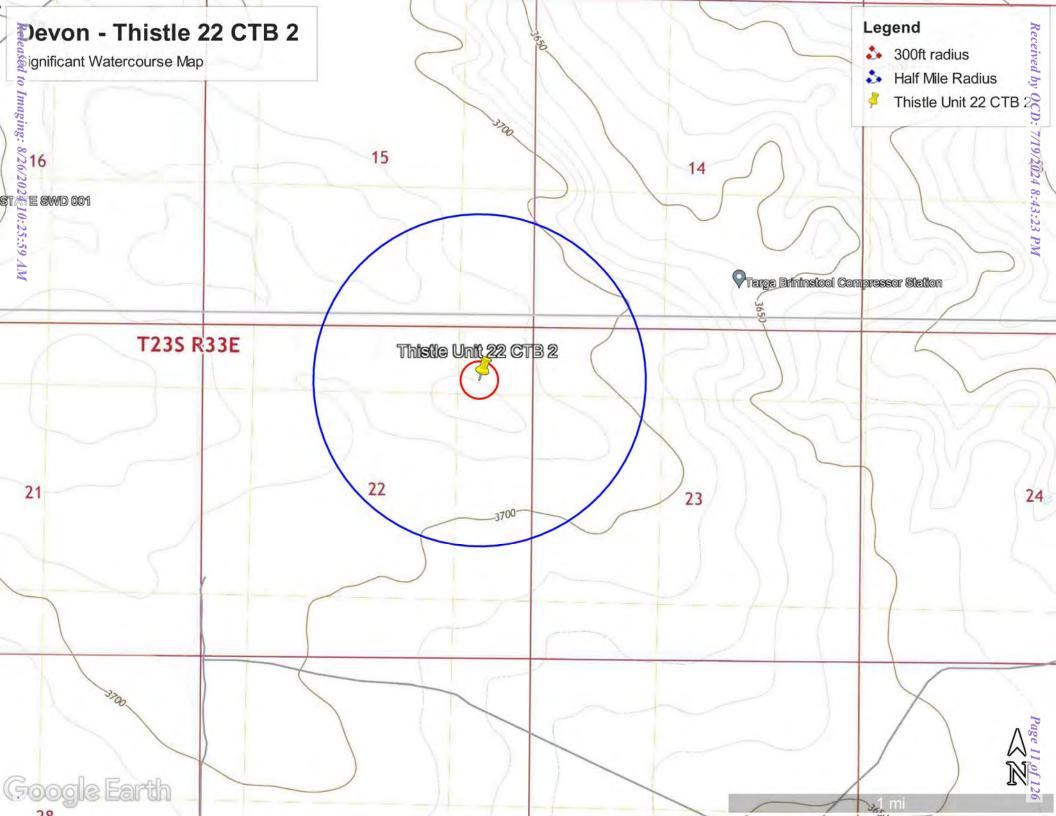
Pump Type: Pipe Discharge Size: Estimated Yield:

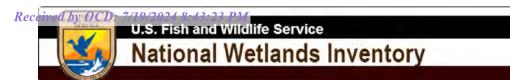
Casing Size: Depth Well: 55 feet Depth Water:

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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POINT OF DIVERSION SUMMARY





Thistle 22 CTB 2



June 23, 2023

Wetlands_Alaska

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Riverine



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

TABLES

Table 1 Summary of Soil Analytical Data - Initial Assesment Samples Thistle 22 CTB 2 Devon Energy Production Company Lea County, NM

										ТРН					
		Depth	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	Chloride		
Sample ID	Sample Date	(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		
						Tabl	e I Closure Crite	ria for Soil ≤ 50 f	eet Depth to Gro	undwater 19.15.29	NMAC				
			10 mg/kg				50 mg/kg			1,000 mg/kg		2,500 mg/kg	10,000 mg/kg		
						Verti	ical Delineation	Samples							
	11/14/23	0.5'	<0.200	2.56	1.95	53.1	57.6	547	2490	3037	446	3483	2200		
	11/14/23	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	33.4	33.4	<10.0	33.4	304		
TP-1	11/14/23	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96		
	11/14/23	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48		
	11/14/23	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32		
	11/14/23	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	32.8	32.8	<10.0	32.8	784		
	11/14/23	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80		
TP-2	11/14/23	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32		
	11/14/23	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32		
	11/14/23	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	114	114	<10.0	114	96		
	11/14/23	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	15700	15700	3020	18720	352		
	11/14/23	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320		
TP-3	11/14/23	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320		
	11/14/23	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	61.9	61.9	<10.0	61.9	640		
	11/14/23	3-3.5'	0.051	0.192	0.062	<0.150	0.423	<10.0	188	188	22	210	368		
V-1	02/15/24	0-0.5'	<0.050	0.097	<0.050	<0.150	0.097	<10.0	39.4	39.4	17.9	57.3	240		
V-2	02/15/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	124	124	35.3	159.3	208		
V-3	02/15/24	0-0.5'	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64		
						Horizo	ontal Delineatio	n Samples	•						
H-1	11/14/23	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2880		
H-1A	01/09/24	0-0.5'	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	<4.96		
H-2	11/14/23	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	56.5	56.5	<10	56.5	32		
H-2A	02/15/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48		
H-3	11/14/23	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1040	1040	433	1473	16		
H-3A	01/09/24	0-0.5'	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<49.7	<49.7	<49.7	<49.7	<49.7	<4.99		
H-4	11/14/23	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	214	214	95.4	309.4	48		
H-4A	01/09/24	0-0.5'	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<49.7	<49.7	<49.7	<49.7	<49.7	<5.04		
H-5	11/14/23	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	8960	8960	2780	11740	240		
H-5A	01/09/24	0-0.5'	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<50.5	<50.5	<50.5	<50.5	<50.5	7.62		
H-6	02/15/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320		
H-7	02/15/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416		
H-8	02/15/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	336	336	58	394	112		
H-9	02/15/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144		
H-10	02/15/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	167	167	106	273	48		

Notes:

- 1. Values reported in mg/kg
- 2.< = Value Less Than Reporting Limit (RL)
- 3. Bold indicates Analyte Detected
- 4. BTEX analyses by EPA Method SW 8021B

SP 1 Sample Point Excavated

- 5. TPH analyses by EPA Method SW 8015 Mod.
- 6. GRO/DRO/MRO Gasoline/Diesel/Motor Oil
- 7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.
- 8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).
- 9. --- Not Analyzed

Table 2
Summary of Soil Analytical Data - Confirmation Samples/Deferral Samples
Thistle 22 CTB 2
Devon Energy Production Company
Lea County, NM

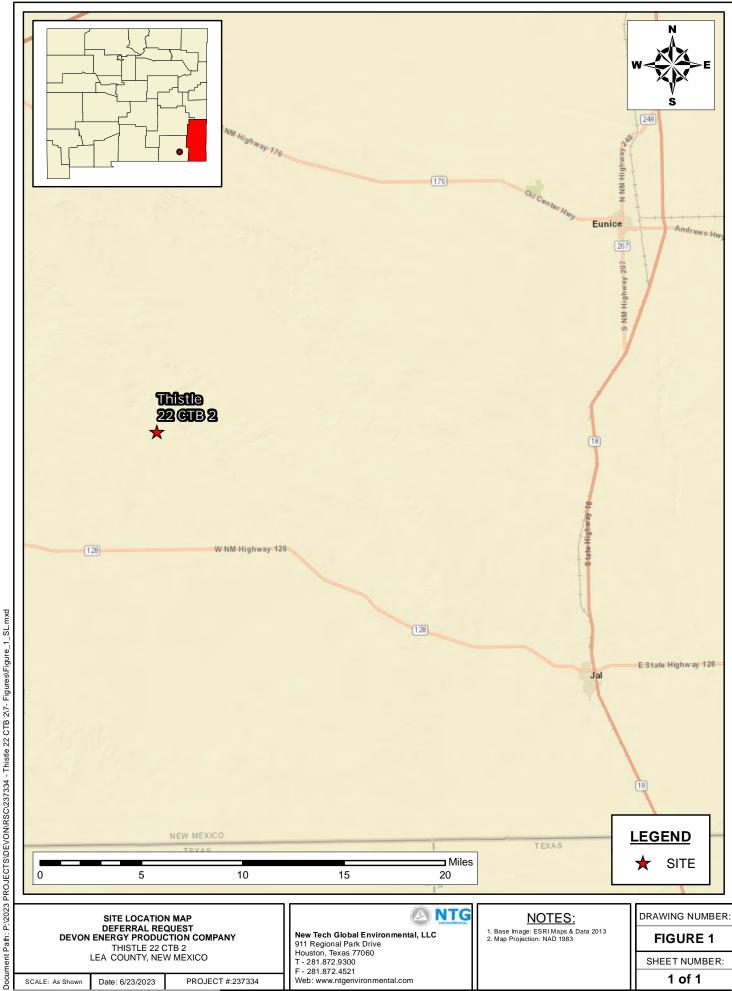
										ТРН			
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO	DRO	GRO + DRO	MRO	Total GRO/DRO/MRO	Chloride
Sample ID	Sample Date	Depth						(C6-C10)	(C10-C28)	(C6-C28)	(C28-C35)	(C6-C35)	
Sample ID	Sample Date	(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
						Tab	le I Closure Crite	ria for Soil ≤ 50 f	eet Depth to Gro	undwater 19.15.29	NMAC		
			10 mg/kg				50 mg/kg			1,000 mg/kg		2,500 mg/kg	10,000 mg/kg
Base Samples													
CS-1	05/06/24	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-2	05/06/24	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-3	05/06/24	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-4	05/06/24	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-5	05/06/24	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-6	05/06/24	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-7	05/06/24	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
CS-8	05/06/24	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-9	05/06/24	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-10	05/06/24	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	517	517	103	620	128
CS-11	05/06/24	1'	<0.050	<0.050	<0.050	<0.150	<0.300	15.3	1,500	1513.3	270	1783.3	816
CS-12	05/06/24	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	505	505	105	610	2,080
CS-13	05/06/24	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-14	05/06/24	1'	<0.050	<0.050	0.12	<0.150	<0.300	<10.0	1,000	1,000	282	1282	1,230
CS-15	05/06/24	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	843	843	148	991	1,170
CS-16	05/06/24	1'	0.275	6.04	3.47	22.5	32.3	427	4,050	4,477	583	5060	1,640
CS-17	05/06/24	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,000
C5 17	05/15/24	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,480
CS-18	05/06/24	1'	1.18	11.4	2.48	41.6	56.7	1,040	5,830	6,870	925	7795	2,000
CS-19	05/06/24	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	2,340	2,340	480	2820	2,600
CS-20	05/06/24	1'	<0.050	1.95	3.53	34.8	40.2	801	6,350	7,151	909	8060	2,080
CS-21	05/15/24	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	65.5	65.5	12.2	77.7	80
							Sidewall Samp	les					
SW-1	05/06/24	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SW-2	05/06/24	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.8	12.8	<10.0	12.8	48
SW-3	05/06/24	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
SW-4	05/06/24	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	41.8	41.8	<10.0	41.8	48
SW-5	05/06/24	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.6	14.6	<10.0	14.6	48
SW-6	05/06/24	0-1'	<0.050	0.19	<0.050	<0.150	0.321	<10.0	117	117	<10.0	117	1,040
SW-7	05/06/24	0-1'	2.3	79.6	32.5	240	335	4 ,760	14,600	19,360	2,060	21,420	2,640
344-7	05/15/24	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,180
SW-8	05/06/24	0-1'	<0.050	∠0.050	∠0.050	∠0.150	∠0.300	< 10.0	871	871	199	1,070	7,200
3VV-0	05/15/24	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
SW-9	05/06/24	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	51.7	51.7	<10.0	51.7	128
SW-10	05/15/24	1-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592

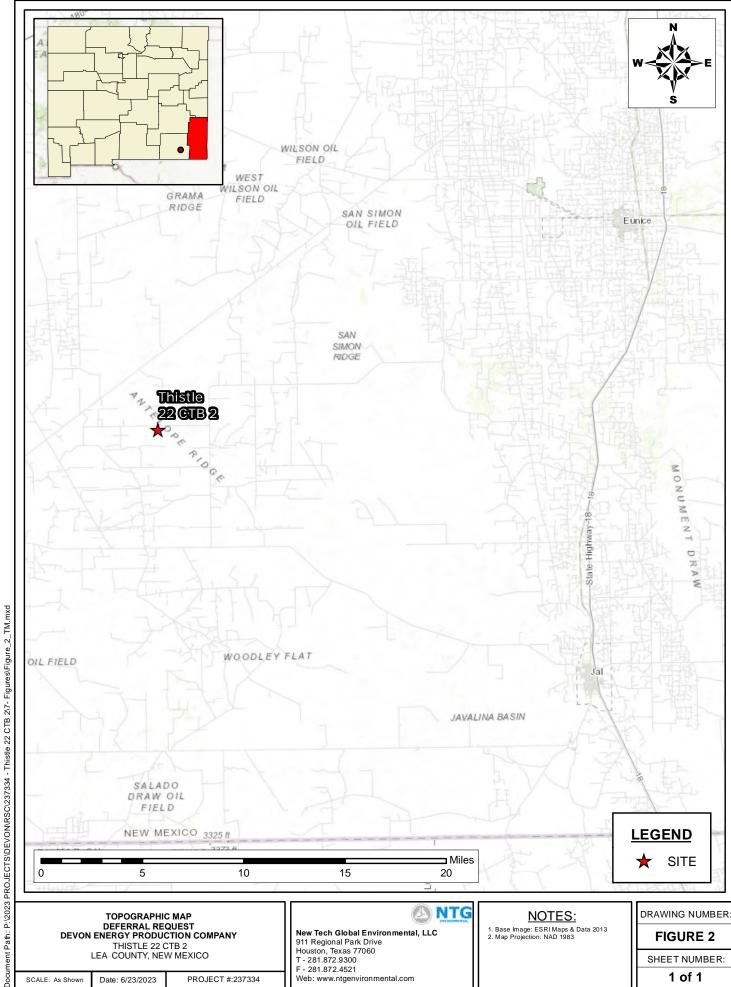
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO	DRO	GRO + DRO	MRO	Total GRO/DRO/MRO	Chloride			
nple ID Sar	ample Date	Depth						(C6-C10)	(C10-C28)	(C6-C28)	(C28-C35)	(C6-C35)				
ipie ib	ample Date	(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)			
				Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC												
						10 mg/kg				50 mg/kg			1,000 mg/kg		2,500 mg/kg	10,000 mg/kg
							Deferral Samp	les								
0	05/15/24	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16	16	<10.0	16	368			
OS-1 0	05/15/24	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	33.7	33.7	<10.0	33.7	64			
0	05/15/24	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80			
0	05/15/24	5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112			
OS-2 0	05/20/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16			
OS-3 0	05/20/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32			
OS-4 0	05/20/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.1	19.1	<10.0	19.1	48			

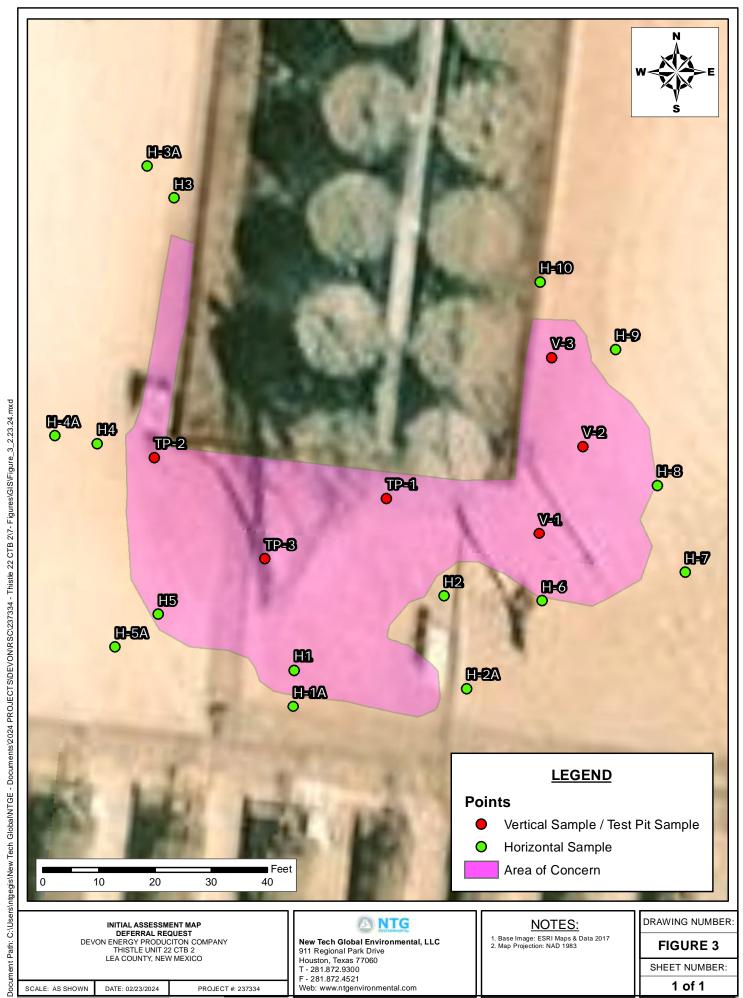
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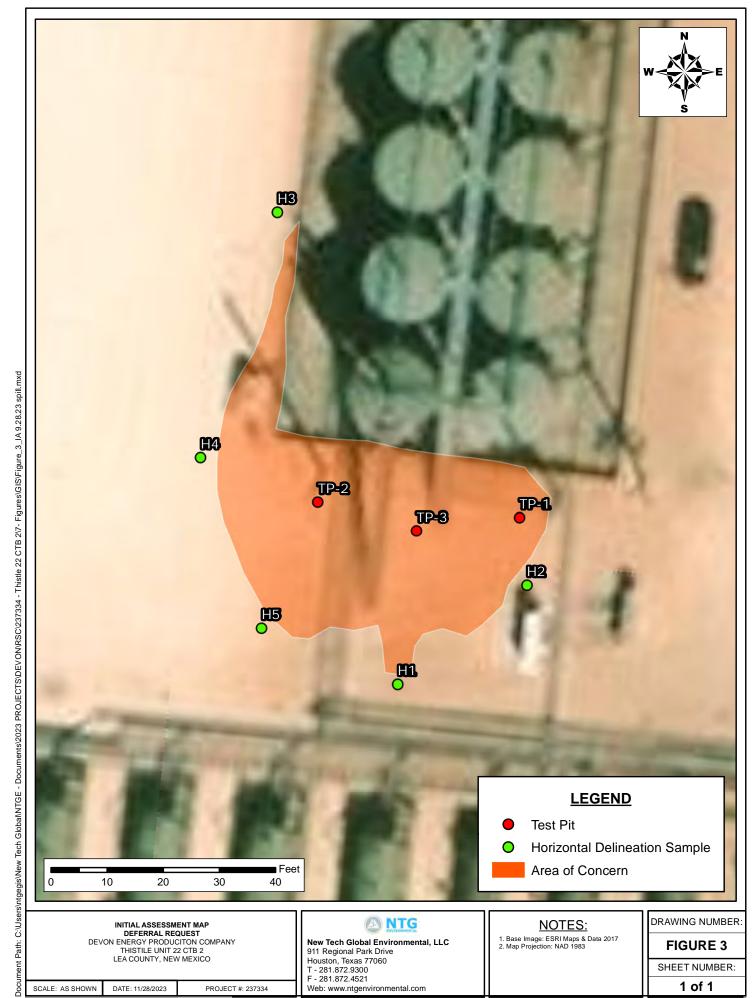
- 1. Values reported in mg/kg
- 2.< = Value Less Than Reporting Limit (RL)
- 3. Bold indicates Analyte Detected
- 4. BTEX analyses by EPA Method SW 8021B
- Sample Point Excavated
- 5. TPH analyses by EPA Method SW 8015 Mod.
- 6. GRO/DRO/MRO Gasoline/Diesel/Motor Oil
- 7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.
- 8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).
- 9. --- Not Analyzed

FIGURES









SECONDARY CONTAINEMENT MAP DEFERRAL REQUEST DEVON ENERGY PRODUCTION COMPANY THISTLE 22 CTB 2 LEA COUNTY, NEW MEXICO

PROJECT #:237334

New Tech Global Environmental, LLC 911 Regional Park Drive Houston, Texas 77060 T - 281.872.9300 F - 281.872.4521 Web: www.ntgenvironmental.com

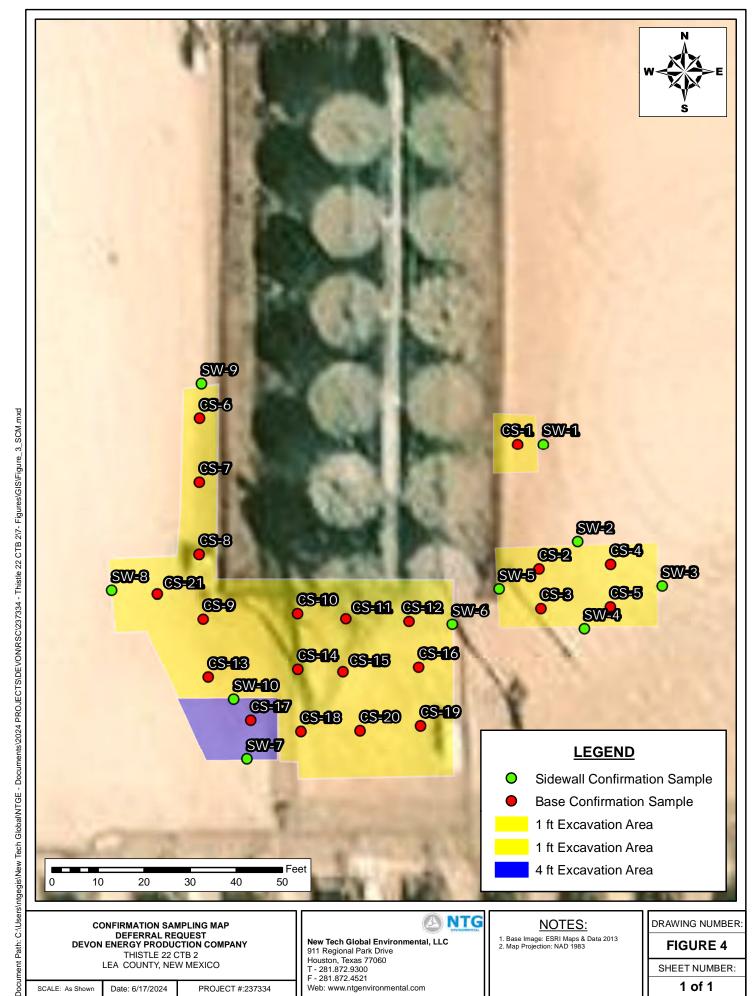
A NTG

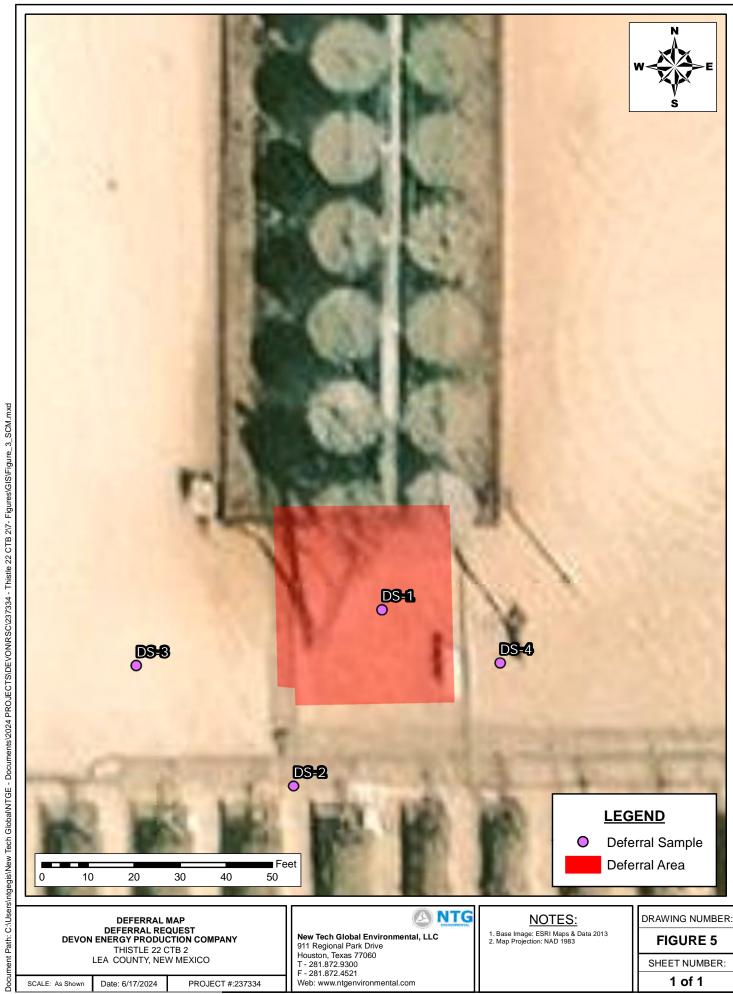
NOTES: Base Image: ESRI Maps & Data 2013
 Map Projection: NAD 1983 DRAWING NUMBER: FIGURE 3 SHEET NUMBER:

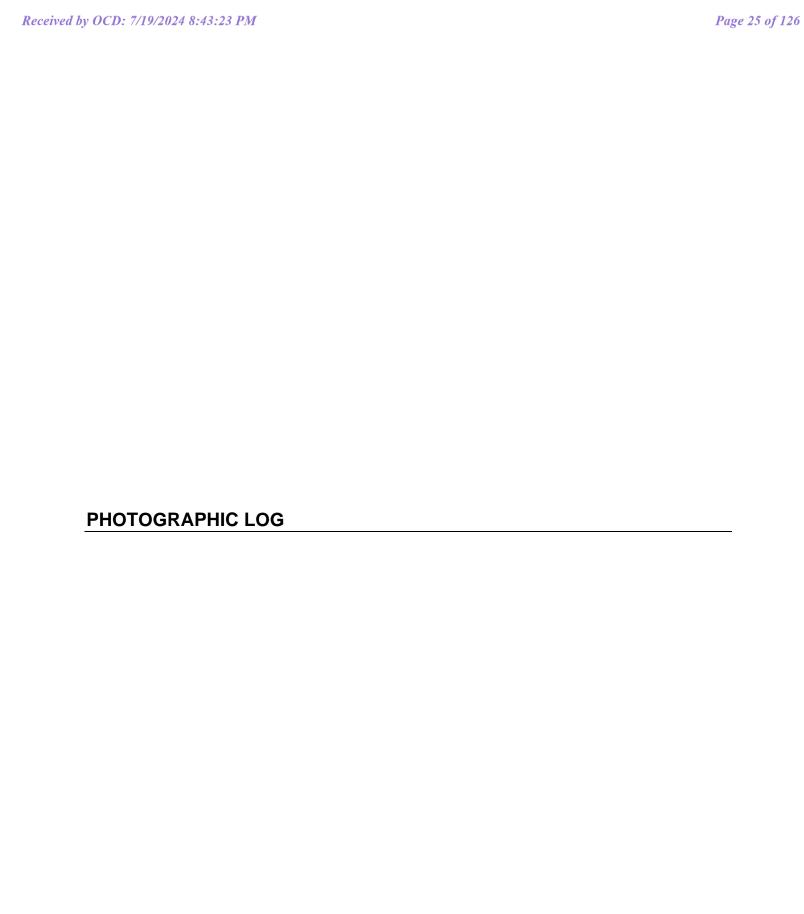
1 of 1

Document Path: P:\2023 PROJECTS\DEVON\RSC\237334 - Thistle 22 CTB 2\7- Figures\GIS\Figure_3_SCM.mxd Date: 6/23/2023 Released to Imaging: 8/26/2024 10:25:59 AM

SCALE: As Shown







Thistle Unit 22 CTB 2

Photograph No. 1

Facility: Thistle Unit 22 CTB 2

County: Lea County, New Mexico

Description: View of Liner.



Photograph No. 2

Facility: Thistle Unit 22 CTB 2

County: Lea County, New Mexico

Description: View of Liner.



Photograph No. 3

Facility: Thistle Unit 22 CTB 2

County: Lea County, New Mexico

Description: View of Liner.



Thistle Unit 22 CTB 2

Photograph No. 4

Facility: Thistle Unit 22 CTB 2

County: Lea County, New Mexico

Description: View of Liner.



Photograph No. 5

Facility: Thistle Unit 22 CTB 2

County: Lea County, New Mexico

Description: View of Liner



Photograph No. 6

Facility: Thistle Unit 22 CTB 2

County: Lea County, New Mexico

Description: View of Liner.



Thistle Unit 22 CTB 2

Photograph No. 7

Facility: Thistle Unit 22 CTB 2

County: Lea County, New Mexico

Description: Area of Concern.



Photograph No. 8

Facility: Thistle Unit 22 CTB 2

County: Lea County, New Mexico

Description:Area of Concern.



Photograph No. 9

Facility: Thistle Unit 22 CTB 2

County: Lea County, New Mexico

Description: Area of Concern.



Thistle Unit 22 CTB 2

Photograph No. 10

Facility: Thistle Unit 22 CTB 2

County: Lea County, New Mexico

Description:

Area of Excavation.



Photograph No. 11

Facility: Thistle Unit 22 CTB 2

County: Lea County, New Mexico

Description:

Area of Excavation.



Photograph No. 12

Facility: Thistle Unit 22 CTB 2

County: Lea County, New Mexico

Description:

Area of Excavation.



Thistle Unit 22 CTB 2

Photograph No. 10

Facility: Thistle Unit 22 CTB 2

County: Lea County, New Mexico

Description:

Area of Excavation.



Photograph No. 11

Facility: Thistle Unit 22 CTB 2

County: Lea County, New Mexico

Description:

Area of Excavation.



Photograph No. 12

Facility: Thistle Unit 22 CTB 2

County: Lea County, New Mexico

Description:

Area of Excavation.



Received by OCD: 7/19/2024 8:43:23 PM	Page 31 of 126
LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS	



November 17, 2023

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: THISTLE 22 CTB 2

Enclosed are the results of analyses for samples received by the laboratory on 11/14/23 14:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keene

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 11/14/2023 Sampling Date: 11/14/2023
Reported: 11/17/2023 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact
Project Number: 237334 Sample Received By: Shalyn Rodriguez

Project Location: DEVON - LEA CO., NM

Sample ID: H - 1 0-6" (H236226-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.96	98.0	2.00	0.824	
Toluene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.11	105	2.00	0.619	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.40	107	6.00	0.286	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	11/15/2023	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	11/15/2023	ND	188	94.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	169	84.3	200	0.531	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	78.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.7	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/17/2023 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez Project Number: 237334

Project Location: DEVON - LEA CO., NM

Sample ID: H - 2 0-6" (H236226-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.96	98.0	2.00	0.824	
Toluene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.11	105	2.00	0.619	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.40	107	6.00	0.286	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 5	71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/15/2023	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	11/15/2023	ND	188	94.1	200	2.54	
DRO >C10-C28*	56.5	10.0	11/15/2023	ND	169	84.3	200	0.531	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	78.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/17/2023 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact Shalyn Rodriguez Project Number: 237334 Sample Received By:

Project Location: DEVON - LEA CO., NM

Sample ID: H - 3 0-6" (H236226-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.96	98.0	2.00	0.824	
Toluene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.11	105	2.00	0.619	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.40	107	6.00	0.286	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/15/2023	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	11/15/2023	ND	188	94.1	200	2.54	
DRO >C10-C28*	1040	10.0	11/15/2023	ND	169	84.3	200	0.531	
EXT DRO >C28-C36	433	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	72.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/17/2023 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact Shalyn Rodriguez Project Number: 237334 Sample Received By:

Project Location: DEVON - LEA CO., NM

Sample ID: H - 4 0-6" (H236226-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.96	98.0	2.00	0.824	
Toluene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.11	105	2.00	0.619	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.40	107	6.00	0.286	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/15/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	188	94.1	200	2.54	
DRO >C10-C28*	214	10.0	11/15/2023	ND	169	84.3	200	0.531	
EXT DRO >C28-C36	95.4	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	78.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	8						

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Sampling Condition:

Sample Received By:

11/14/2023

Cool & Intact

Shalyn Rodriguez

Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 11/14/2023 Sampling Date:

Reported: 11/17/2023 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2
Project Number: 237334

Project Location: DEVON - LEA CO., NM

Sample ID: H - 5 0-6" (H236226-05)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.96	98.0	2.00	0.824	
Toluene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.11	105	2.00	0.619	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.40	107	6.00	0.286	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/15/2023	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	188	94.1	200	2.54	
DRO >C10-C28*	8960	10.0	11/15/2023	ND	169	84.3	200	0.531	
EXT DRO >C28-C36	2780	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	73.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	561	% 49.1-14	8						

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Celey D. Keine



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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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Celeg D. Keene

Received by OCD: 7/19/2024 8:43:23 PM

Chain of Custody



Work Order No: 1303030-1-5

Project Manager:	Ethan Sessum	ns			Bill to: (i	if different)		Dale	Wood	iali									Work	Ord	ler C	Page1_ omments	
Company Name:	NTG Environm	nental			Compar	ny Name:		Dev	on						\neg	Progr	am: IIS	T/PST	PRP				perfund
Address:	209 W McKay	St			Address	s:									\neg		of Proje		□ KI		OWIII	ielus Like	_iperiuna
City, State ZIP:	Carlsbad, NM	88220			City, Sta	ate ZIP:													Level II		ST/I	JST RRP [Level IV
Phone:	432-766-1918			Email											7		rables:				aPT		Trevelly [
Project Name:	This	tle 22 CTB 2		Tur	n Around	1							ΔΝΔΙ	LYSIS	REC	LIEST					Т	Description	· Code
Project Number:		237334		☑ Routine	☐ Rush	1	Pres. Code		T	T			1		ILL	ULST			_	T		Preservativ	
roject Location	Le	ea Co. NM		Due Date:			Code									\vdash	-	-	_	+			Ol Water: H ₂
Sampler's Name:		try Nikanorov			day receiv	ed by the		1	6												- 1		ИеОН: Me
O#:		21233012		lab, if rece	day received by the ived by 4:30pm			1	MRO)														HNO ₃ : HN
SAMPLE RECEIF	Ten	np Blank:	Yes No.	Wet Ice:	Yes	No	Parameters	l	80 +													H ₂ S0 ₄ : H ₂ NaOH	
Received Intact:	Ye	1	Thermome		140		am	BTEX 8021B	1	4500						POLD GO					H ₃ PO ₄ : HP		
Cooler Custody Seals:	Yes	No N/A	Correction		-		Par	X 8	GR O	Chloride											100	NaHSO ₄ : NABIS	
Sample Custody Seals	Yes Yes	No N/A	Temperatu	ure Reading:	2.3	3 &		E .	W	S.												Na ₂ S ₂ O ₃ ; NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
otal Containers:			Corrected	Temperature:	_				TPH 8015M (GRO + DRO														
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/ Comp	# of Cont		TPH													Sample Cor	
H-1	0-6"	11/14/2023		Х		Grab/	1	X	x	X				\rightarrow				+	+	+	+		
H-2	0-6"	11/14/2023		Х		Grab/	1	X	X	X							-				-	`	
H-3	0-6"	11/14/2023		Х		Grab/	1	X	X	Х				-			_	+	+	+		<u>2</u> 2	
H-4	0-6"	11/14/2023		Х		Grab/	1	X	X	Х				-		-	+	+	_	+	\rightarrow	-	
H-5	0-6"	11/14/2023		Х	1	Grab/	1	Х	Х	Х								+		+		5	
											-			-	-	-	+	+	-	-	\mp		
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											\dashv	-	+	+	\dashv	-	+	+	+	+	+		
Addition	al Comments	:											_	_	_					_	_		
tice: Signature of this doo service. Xenco will be lia Xenco. A minimum charg	DIE ONLY FOR THE COST	t of samples and s	hall not assur	me any reenanell	little for ance	Income or a	warmen to	A															
Relinquished by:				by: (Signatu		ubmitted to		not and		nese ter										o/Time			
		Spool	lion	UH			1-14	2	1100	108	_	quid		,. (O.g	: (Signature) Received by: (Signature) Date				e/ i line				
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										- 1													



November 17, 2023

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: THISTLE 22 CTB 2

Enclosed are the results of analyses for samples received by the laboratory on 11/14/23 14:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keene

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 11/14/2023 Sampling Date: 11/14/2023
Reported: 11/17/2023 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact
Project Number: 237334 Sample Received By: Shalyn Rodriguez

Applyand By 14

Project Location: DEVON - LEA CO., NM

Sample ID: TP - 1 6" (H236227-01)

DTEV 0021D

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/15/2023	ND	1.96	98.0	2.00	0.824	
Toluene*	2.56	0.200	11/15/2023	ND	2.08	104	2.00	1.04	
Ethylbenzene*	1.95	0.200	11/15/2023	ND	2.11	105	2.00	0.619	
Total Xylenes*	53.1	0.600	11/15/2023	ND	6.40	107	6.00	0.286	
Total BTEX	57.6	1.20	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	178 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	11/15/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	547	10.0	11/15/2023	ND	188	94.1	200	2.54	
DRO >C10-C28*	2490	10.0	11/15/2023	ND	169	84.3	200	0.531	
EXT DRO >C28-C36	446	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	123 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	144 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/17/2023 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact
Project Number: 237334 Sample Received By: Shalyn Rodriguez

Project Location: DEVON - LEA CO., NM

Sample ID: TP - 1 1' (H236227-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.96	98.0	2.00	0.824	
Toluene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.11	105	2.00	0.619	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.40	107	6.00	0.286	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/15/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2023	ND	188	94.1	200	2.54	
DRO >C10-C28*	33.4	10.0	11/16/2023	ND	169	84.3	200	0.531	
EXT DRO >C28-C36	<10.0	10.0	11/16/2023	ND					
Surrogate: 1-Chlorooctane	92.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.1	% 49.1-14	8						

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Celeg D. Freene



11/14/2023

Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

11/14/2023 Sampling Date: Reported: 11/17/2023 Sampling Type:

Soil Project Name: THISTLE 22 CTB 2 Sampling Condition:

Cool & Intact Sample Received By: Shalyn Rodriguez Project Number: 237334

Project Location: DEVON - LEA CO., NM

Sample ID: TP - 1 2' (H236227-03)

Received:

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.96	98.0	2.00	0.824	
Toluene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.11	105	2.00	0.619	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.40	107	6.00	0.286	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/15/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	188	94.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	169	84.3	200	0.531	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	70.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.6	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/17/2023 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact Project Number: 237334 Sample Received By: Shalyn Rodriguez

Project Location: DEVON - LEA CO., NM

Sample ID: TP - 1 3' (H236227-04)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.96	98.0	2.00	0.824	
Toluene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.11	105	2.00	0.619	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.40	107	6.00	0.286	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/15/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	188	94.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	169	84.3	200	0.531	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	82.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.6	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/17/2023 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact
Project Number: 237334 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: DEVON - LEA CO., NM

ma/ka

Sample ID: TP - 1 4' (H236227-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.96	98.0	2.00	0.824	
Toluene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.11	105	2.00	0.619	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.40	107	6.00	0.286	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/15/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	188	94.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	169	84.3	200	0.531	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	81.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.8	% 49.1-14	8						

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Celey D. Keene



Sample Received By:

Shalyn Rodriguez

Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/17/2023 Sampling Type: Soil
Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact

Project Number: 237334

Project Location: DEVON - LEA CO., NM

Sample ID: TP - 2 6" (H236227-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.96	98.0	2.00	0.824	
Toluene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.11	105	2.00	0.619	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.40	107	6.00	0.286	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	11/15/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	188	94.1	200	2.54	
DRO >C10-C28*	32.8	10.0	11/15/2023	ND	169	84.3	200	0.531	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.5	% 49.1-14	8						

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Celey D. Keine



11/14/2023

Soil

Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 11/14/2023 Sampling Date:
Reported: 11/17/2023 Sampling Type:

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact
Project Number: 237334 Sample Received By: Shalyn Rodriguez

Project Location: DEVON - LEA CO., NM

Sample ID: TP - 2 1' (H236227-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.96	98.0	2.00	0.824	
Toluene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.11	105	2.00	0.619	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.40	107	6.00	0.286	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/15/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	188	94.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	169	84.3	200	0.531	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	71.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.7	% 49.1-14	18						

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Celey D. Keene



11/14/2023

Soil

Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 11/14/2023 Sampling Date:
Reported: 11/17/2023 Sampling Type:

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact
Project Number: 237334 Sample Received By: Shalyn Rodriguez

Project Location: DEVON - LEA CO., NM

Sample ID: TP - 2 2' (H236227-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.96	98.0	2.00	0.824	
Toluene*	<0.050	0.050	11/15/2023	ND	2.08	104	2.00	1.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.11	105	2.00	0.619	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.40	107	6.00	0.286	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/15/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	194	96.8	200	3.13	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	185	92.3	200	8.12	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	94.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.3	% 49.1-14	8						

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11/14/2023

Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 11/14/2023 Sampling Date:

Reported: 11/17/2023 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact
Project Number: 237334 Sample Received By: Shalyn Rodriguez

Project Location: DEVON - LEA CO., NM

Sample ID: TP - 2 3' (H236227-09)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	2.15	107	2.00	2.64	
Toluene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/15/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	194	96.8	200	3.13	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	185	92.3	200	8.12	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.2	% 49.1-14	8						

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Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/17/2023 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact
Project Number: 237334 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: DEVON - LEA CO., NM

ma/ka

Sample ID: TP - 2 4' (H236227-10)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	2.15	107	2.00	2.64	
Toluene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/15/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	194	96.8	200	3.13	
DRO >C10-C28*	114	10.0	11/15/2023	ND	185	92.3	200	8.12	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.9	% 49.1-14	8						

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Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/17/2023 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact Shalyn Rodriguez Project Number: 237334 Sample Received By:

Project Location: DEVON - LEA CO., NM

Sample ID: TP - 3 6" (H236227-11)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	2.15	107	2.00	2.64	
Toluene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/15/2023	ND	448	112	400	0.00	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	11/15/2023	ND	194	96.8	200	3.13	
DRO >C10-C28*	15700	50.0	11/15/2023	ND	185	92.3	200	8.12	
EXT DRO >C28-C36	3020	50.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	458 9	% 49.1-14	8						

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Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/17/2023 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact
Project Number: 237334 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: DEVON - LEA CO., NM

ma/ka

Sample ID: TP - 3 1' (H236227-12)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	2.15	107	2.00	2.64	
Toluene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/15/2023	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	194	96.8	200	3.13	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	185	92.3	200	8.12	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	90.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1	% 49.1-14	8						

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Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/17/2023 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact Shalyn Rodriguez Project Number: 237334 Sample Received By:

Project Location: DEVON - LEA CO., NM

Sample ID: TP - 3 2' (H236227-13)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	2.15	107	2.00	2.64	
Toluene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/15/2023	ND	448	112	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	194	96.8	200	3.13	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	185	92.3	200	8.12	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.7	% 49.1-14	8						

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Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 11/14/2023 Sampling Date: 11/14/2023

Reported: 11/17/2023 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact
Project Number: 237334 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: DEVON - LEA CO., NM

ma/ka

Sample ID: TP - 3 3' (H236227-14)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	2.15	107	2.00	2.64	
Toluene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	11/15/2023	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	194	96.8	200	3.13	
DRO >C10-C28*	61.9	10.0	11/15/2023	ND	185	92.3	200	8.12	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	89.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

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Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 11/14/2023 Sampling Date: 11/14/2023 Reported: 11/17/2023 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact Project Number: 237334 Sample Received By: Shalyn Rodriguez

Project Location: DEVON - LEA CO., NM

Sample ID: TP - 3 3-3.5' (H236227-15)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.051	0.050	11/15/2023	ND	2.15	107	2.00	2.64	
Toluene*	0.192	0.050	11/15/2023	ND	2.17	108	2.00	2.70	
Ethylbenzene*	0.062	0.050	11/15/2023	ND	2.17	108	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83	
Total BTEX	0.423	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/15/2023	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	194	96.8	200	3.13	
DRO >C10-C28*	188	10.0	11/15/2023	ND	185	92.3	200	8.12	
EXT DRO >C28-C36	22.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	94.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.4	% 49.1-14	8						

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Celeg D. Freene

Received by OCD: 7/19/2024 8:43:23 PM

Chain of Custody



Work Order No: H234227

Company Name:	Ethan Sessums				Bill to: (if d	different)		Dale V	Vooda	II.				_				Work	Orde	r Comments	
	NTG Environme	ental			Company	Name:		Devor	1						Progra	m: US	T/PST	PRP	Dro	wnfields RC ppe	erfund
Address:	209 W McKay S				Address:									- 1 1	State o						
1000					City, Stat	e 7IP-								71	Reporti	ing:Lev	el II	Level III		T/UST RRP Le	vel IV
	Carlsbad, NM 8	8220		Email:	City, Glat	G ZII								71	Deliver	ables:	EDD		ADa	PT Other:	
Phone:	432-766-1918			Email											UEST					Preservative C	ndes
Project Name:	Thist	e 22 CTB 2		Turr	n Around		Pres.				_	ANA	LYSIS	REQ	UEST		_	_	T		ater: H ₂ 0
roject Number:	2	237334		☑ Routine	☐ Rush		Code				-	+	+	\vdash	\vdash	-	+	+	+	-	H: Me
roject Location	Le	a Co, NM		Due Date:					=											00011 0001	h: Me
Sampler's Name:	Dmitr	y Nikanorov		TAT starts the					MRO)												H: Na
O#:	2	1233012		lab, if rece	eived by 4:3	Upm	ers		+											H ₃ PO ₄ : HP	
SAMPLE RECEIF	PT Tem	p Blank:	Yes No	Wet Ice:	Yes	No	Parameters	218	DR	4500									ء ا		
Received Intact:	Yes	No No	Thermom	eter ID:	140		ara	80°	80	ide									2	Na ₂ S ₂ O ₃ : NaSO ₃	
Cooler Custody Seals	Yes	No N/A	Correction	3.515-515-51-5-5	-			BTEX 8021B	9	Chloride		-	-			- 1				Zn Acetate+NaOH: Zn	
Sample Custody Seal	s: Yes	No N/A	-	ure Reading:	2.3	-		-	TPH 8015M (GRO + DRO +											NaOH+Ascorbic Acid:	SAPC
Total Containers:			Corrected	Temperature:			DIR.	1	H W												
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/ Comp	# of Cont		F								_	_	1	Sample Comm	nents
TP-1	6"	11/14/2023		Х		Grab/	1	X	Х	Х						_	-	-	+	1	
TP-1	1'	11/14/2023		X		Grab/	1	X	X	X				_	\square			-	+	2	
TP-1	2'	11/14/2023		Х		Grab/	1	X	Х	Х				_			-	-	+	2	
TP-1	3'	11/14/2023		Х		Grab/	1	Х	X	Х					\square		_	-	+	4	
TP-1	4'	11/14/2023		Х		Grab/	1	X	X	X					\sqcup			-	+	5	
TP-2	6"	11/14/2023		Х	-	Grab/	1	Х	Х	Х							_	_	-	4	
TP-2	1'	11/14/2023		X		Grab/	1	X	X	Х							\rightarrow	_	+	1	
TP-2	2'	11/14/2023		X		Grab/	1	X	Х	Х							_	_	+	3	
TP-2	3'	11/14/2023		X		Grab/	1	X	X	Х							_	_	-	9	
TP-2	4'	11/14/2023		X		Grab/	1	X	X	X					1 1					11()	

Received by OCD: 7/19/2024 8:43:23 PM

Released to Imaging: 8/26/2024 10:25:59 AM

Project Manager:	Ethan Sessum	S			Bill to: (if	different)		Dale	Wooda	all								Wo	rk O	rder	Comments	
Company Name:	NTG Environm	ental			Compan	y Name:		Devo	n						Progr	am: US	ST/PS	T DPF	RP [row	nfields R	C [perfund
Address:	209 W McKay	St			Address									7	State	of Proj	ject:	_				
City, State ZIP:	Carlsbad, NM 8	Trans.			City, Sta		311							7	Repor	ting:Le	vel II	Leve	III I	□ st	/UST RRI	P Level IV
Phone:	432-766-1918	30220		Email	Unj, Un	is all .								\exists	Delive	rables:	EDD			ADaP	T Oth	ner:
Phone.	432-700-1910			Lilian	1			T							100.00	-						
Project Name:	This	tle 22 CTB 2			n Around		Pres.	-	_			AN	ALYSIS	REQ	UEST		_		_	_	Preser	rvative Codes
Project Number.		237334		□ Routine	Rush		Code					_	-								None: NO	DI Water: H ₂
Project Location	Le	ea Co, NM		Due Date:				1	_												Cool: Cool	MeOH: Me
Sampler's Name:	Dmit	ry Nikanorov		TAT starts the				1	+ MRO)				1 1								HCL: HC	HNO ₃ : HN
PO #:		21233012		lab, if rece	eived by 4:3	SUpm	2	1	+												H ₂ S0 ₄ : H ₂	NaOH: Na
SAMPLE RECE	PT Jen	p Blank:	Yes No	Wet Ice:	Yes	No	Parameters	8	DRG	4500											H ₃ PO ₄ : HP	
Received Intact:	Ye	No No	Thermon	eter ID:	14C		arau	BTEX 8021B	0	de 4										НОГР	NaHSO ₄ : NA	BIS
Cooler Custody Seal	s: Yes (No N/A	Correctio	Factor:	-		ď.	Ä	GR	Chloride				8						¥	Na ₂ S ₂ O ₃ ; Na	SO ₃
Sample Custody Sea	ls: Yes	No N/A	Temperat	ure Reading:	2-3	٤		m	₩ 9	5											Zn Acetate+N	VaOH: Zn
Total Containers:			Corrected	Temperature:					TPH 8015M (GRO + DRO												NaOH+Ascor	rbic Acid: SAPC
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/ Comp	# of Cont		ĮĘ.												Sampl	le Comments
TP-3	6"	11/14/2023		Х		Grab/	1	X	Х	Х											11	
TP-3	1'	11/14/2023		Х		Grab/	1	X	Х	Х											12	
TP-3	2'	11/14/2023		Х		Grab/	1	X	Х	Х			T								13	
TP-3	3'	11/14/2023		Х		Grab/	1	X	X	Х											114	
TP-3	3-3.5'	11/14/2023		х		Grab/	1	X	Х	х											is	
												1										
Additi	onal Comments	s:																				
Notice: Signature of this of service. Xenco will be of Xenco. A minimum ch	liable only for the cos	st of samples and	shall not ass	ume any responsi	bility for any	losses or	expenses i	ncurred	by the c	lient if s	uch losse	s are due t	o circumst	ances b	eyond t	he contr						
Relinguished by	(Signature)	- 0	Receive	d by: (Signati	ure)			Date/	Time		Reli	nquishe	d by: (Si	gnatu	ire)		Rece	ived by	y: (Si	gnatu	ıre)	Date/Time
		111111111111111111111111111111111111111	1001	1 / 11			114	2	14	ITY												



February 20, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: THISTLE 22 CTB 2

Enclosed are the results of analyses for samples received by the laboratory on 02/15/24 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Applyand By 14

Received: 02/15/2024
Reported: 02/20/2024
TUISTLE 22 CTR

Project Name: THISTLE 22 CTB 2
Project Number: 237334

Project Location: DEVON - LEA CO., NM

Sampling Date: 02/15/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: V - 1 0 - .5 (H240741-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2024	ND	1.89	94.7	2.00	13.0	
Toluene*	0.097	0.050	02/16/2024	ND	1.79	89.4	2.00	17.1	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	1.81	90.5	2.00	18.4	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	5.33	88.9	6.00	18.4	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/16/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2024	ND	226	113	200	0.351	
DRO >C10-C28*	39.4	10.0	02/16/2024	ND	222	111	200	0.446	
EXT DRO >C28-C36	17.9	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	80.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Fax

Received: 02/15/2024 Sampling Date: 02/15/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact
Project Number: 237334 Sample Received By: Dionica Hinojos

Project Location: DEVON - LEA CO., NM

Sample ID: V - 2 0 - .5 (H240741-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2024	ND	1.89	94.7	2.00	13.0	
Toluene*	<0.050	0.050	02/16/2024	ND	1.79	89.4	2.00	17.1	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	1.81	90.5	2.00	18.4	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	5.33	88.9	6.00	18.4	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/16/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2024	ND	226	113	200	0.351	
DRO >C10-C28*	124	10.0	02/16/2024	ND	222	111	200	0.446	
EXT DRO >C28-C36	35.3	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	77.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

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Sample Received By:

Dionica Hinojos

Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 02/15/2024 Sampling Date: 02/15/2024

Reported: 02/20/2024 Sampling Type: Soil
Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact

Project Number: 237334

Project Location: DEVON - LEA CO., NM

Sample ID: V - 3 0 - .5 (H240741-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2024	ND	1.89	94.7	2.00	13.0	
Toluene*	<0.050	0.050	02/16/2024	ND	1.79	89.4	2.00	17.1	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	1.81	90.5	2.00	18.4	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	5.33	88.9	6.00	18.4	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/16/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2024	ND	226	113	200	0.351	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	222	111	200	0.446	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	75.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.7	% 49.1-14	18						

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Celeg & Freene



02/15/2024

Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 02/15/2024 Sampling Date:

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact Project Number: 237334 Sample Received By: Dionica Hinojos

Project Location: DEVON - LEA CO., NM

Sample ID: H - 2A 0 - .5 (H240741-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2024	ND	1.89	94.7	2.00	13.0	
Toluene*	<0.050	0.050	02/16/2024	ND	1.79	89.4	2.00	17.1	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	1.81	90.5	2.00	18.4	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	5.33	88.9	6.00	18.4	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/16/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2024	ND	226	113	200	0.351	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	222	111	200	0.446	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	77.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.7	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 02/15/2024 Sampling Date: 02/15/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact Sample Received By: Project Number: 237334 Dionica Hinojos

Project Location: DEVON - LEA CO., NM

Sample ID: H - 6 0 - .5 (H240741-05)

BTEX 8021B	mg	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2024	ND	1.89	94.7	2.00	13.0	
Toluene*	<0.050	0.050	02/16/2024	ND	1.79	89.4	2.00	17.1	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	1.81	90.5	2.00	18.4	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	5.33	88.9	6.00	18.4	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/16/2024	ND	432	108	400	3.64	
TPH 8015M	mg	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2024	ND	226	113	200	0.351	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	222	111	200	0.446	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	77.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 02/15/2024 Sampling Date: 02/15/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact
Project Number: 237334 Sample Received By: Dionica Hinojos

Applyzod By: 14

Project Location: DEVON - LEA CO., NM

Sample ID: H - 7 0 - .5 (H240741-06)

RTFY 8021R

B1EX 8021B	mg/	кg	Апануге	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2024	ND	1.89	94.7	2.00	13.0	
Toluene*	<0.050	0.050	02/16/2024	ND	1.79	89.4	2.00	17.1	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	1.81	90.5	2.00	18.4	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	5.33	88.9	6.00	18.4	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	02/16/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2024	ND	226	113	200	0.351	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	222	111	200	0.446	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	75.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 02/15/2024 Sampling Date: 02/15/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact Project Number: 237334 Sample Received By: Dionica Hinojos

Project Location: DEVON - LEA CO., NM

Sample ID: H - 8 0 - .5 (H240741-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2024	ND	1.89	94.7	2.00	13.0	
Toluene*	<0.050	0.050	02/16/2024	ND	1.79	89.4	2.00	17.1	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	1.81	90.5	2.00	18.4	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	5.33	88.9	6.00	18.4	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/16/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2024	ND	226	113	200	0.351	
DRO >C10-C28*	336	10.0	02/16/2024	ND	222	111	200	0.446	
EXT DRO >C28-C36	58.0	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	75.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Fax

Received: 02/15/2024 Sampling Date: 02/15/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact
Project Number: 237334 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: DEVON - LEA CO., NM

Sample ID: H - 9 0 - .5 (H240741-08)

BTEX 8021B

DILX OUZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2024	ND	1.89	94.7	2.00	13.0	
Toluene*	<0.050	0.050	02/16/2024	ND	1.79	89.4	2.00	17.1	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	1.81	90.5	2.00	18.4	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	5.33	88.9	6.00	18.4	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/16/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2024	ND	226	113	200	0.351	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	222	111	200	0.446	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	81.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.4	% 49.1-14	8						

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Celey D. Keene



02/15/2024

Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Sampling Date:

Received: 02/15/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact
Project Number: 237334 Sample Received By: Dionica Hinojos

Project Location: DEVON - LEA CO., NM

Sample ID: H - 10 0 - .5 (H240741-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2024	ND	1.89	94.7	2.00	13.0	
Toluene*	<0.050	0.050	02/16/2024	ND	1.79	89.4	2.00	17.1	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	1.81	90.5	2.00	18.4	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	5.33	88.9	6.00	18.4	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/16/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2024	ND	226	113	200	0.351	
DRO >C10-C28*	167	10.0	02/16/2024	ND	222	111	200	0.446	
EXT DRO >C28-C36	106	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	80.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

10270 17.1170

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Celey D. Keine



Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

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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Page 12 of 12

CHAIN-OF CUSTODY AND ANALYSIS REQUEST

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

Company Name:	NIGE		BILL TO	ANALYSIS REQUEST	
Project Manager	Ethan Sossums		P.O. #:		
Address: 26°	bad State: No		Company:	7	
City: Cor(5	bad State: Nu	NZip: 88220	Attn:		
Phone #: 754-	- 266-5456 Fax#:		Address:		
	7334 Project Own	er: Doun	City:	7	
Project Name:	Thistle ZZ	re-or	State: Zip:		
	: Lea Country		Phone #:		
	Tuler amball		Fax #:		
FOR LAB USE ONLY	igas amari	MATRIX	PRESERV. SAMPLING		
12 10741		M ~			
10111		C)O TER		143W	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OI # CONTAINERS GROUNDWATER WASTEWATER SOIL	SE	Mariae	
		STE STE	DOBA DOBA DOBA DOBA	1436	
		GG)RABO GROUND WASTEW SOIL	OTHER: ACID/BASE: ICE / COOL OTHER:	E , 9	
1	V-1 05	61 X	7-15 10:00	0 1 1 1 1	
2	V-1 05 V-305 1+24 05 1+-6 05		20:05		
3	V-305		(0:10		
4	172A 05		10:(5		
5	1+-6 0-15		(6:20		
6	17-7 9-5		10:25	5	
	14-80-5		(0:30	0	
8	14-805 14-905 14-1005		(0:35		
7	H-10 05	1 1	1 (0:40		
14	Damages. Cardinal's liability and client's exclusive remedy for				

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filiates or successors arising out of or related to the Relinquished By:	performance of services hereunder L_ Car	final, regardless of whether such claim is based Received By:	upon any of the above stated	reasons or otherwise.	Yes D No	Add'I Phone	4.	- 1
alne	Time: 2:45.	010-		All Results are emaile		ride Email addres	ss:	
Relinquished By:	Date:	Received By:		REMARKS:	•			
Delivered By: (Circle One)	Time: Observed Temp. °C	2ºc Sample Condition	CHECKED BY:	Turnaround Time:	Standard	Bacter	ria (only) Sample	Conditión
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact Yes Yes No No No	(Initials)	Thermometer ID #140 Correction Factor 0°C	Rush	☐ Cool ☐ Yes	Intact Obser	rved Temp. °C



May 17, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: THISTLE 22 CTB 2

Enclosed are the results of analyses for samples received by the laboratory on 05/15/24 12:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

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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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 05/15/2024 Sampling Date: 05/15/2024 Reported: 05/17/2024 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact Project Number: 237334 Sample Received By: Tamara Oldaker

Project Location: DEVON - LEA CO., NM

Sample ID: DS - 1 2' (H242672-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.95	97.6	2.00	1.20	
Toluene*	<0.050	0.050	05/15/2024	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.42	107	6.00	1.17	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/16/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	177	88.3	200	1.27	
DRO >C10-C28*	16.0	10.0	05/16/2024	ND	173	86.4	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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with Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Sample Received By:

Tamara Oldaker

Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

 Received:
 05/15/2024
 Sampling Date:
 05/15/2024

 Reported:
 05/17/2024
 Sampling Type:
 Soil

Reported: 05/17/2024 Sampling Type: Soil
Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact

Project Number: 237334

Project Location: DEVON - LEA CO., NM

Sample ID: DS - 1 3' (H242672-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.95	97.6	2.00	1.20	
Toluene*	<0.050	0.050	05/15/2024	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.42	107	6.00	1.17	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/16/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	177	88.3	200	1.27	
DRO >C10-C28*	33.7	10.0	05/16/2024	ND	173	86.4	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 05/15/2024 Sampling Date: 05/15/2024 Reported: 05/17/2024 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 237334

Project Location: DEVON - LEA CO., NM

Sample ID: DS - 1 4' (H242672-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.95	97.6	2.00	1.20	
Toluene*	<0.050	0.050	05/15/2024	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.42	107	6.00	1.17	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/16/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	177	88.3	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	173	86.4	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	82.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.6	% 49.1-14	8						

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Sample Received By:

Tamara Oldaker

Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 05/15/2024 Sampling Date: 05/15/2024

Reported: 05/17/2024 Sampling Type: Soil
Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact

Project Number: 237334

Project Location: DEVON - LEA CO., NM

Sample ID: DS - 1 5' (H242672-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.95	97.6	2.00	1.20	
Toluene*	<0.050	0.050	05/15/2024	ND	2.06	103	2.00	1.34	
Ethylbenzene*	< 0.050	0.050	05/15/2024	ND	2.08	104	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.42	107	6.00	1.17	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/16/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	177	88.3	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	173	86.4	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	94.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Me Sough



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

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Mile Sough

7/19/2024 8:43:23 PM

Received by OCD:

Corrected Temp. °C

Page 7 of



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Company Name:	NTGF				BILL	TO	T		ANAI	YSIS RE	QUEST		
Project Manager:	Ethan	Sessums				98 433			7.00	TOIO INC	T T	T	\neg
Project Manager: Address: 209 City: Carls	W McK	as St				evon	1				11		- 1
city: Carls	bad	State: NA	1 Zip:	88770	Attn:	CVOVI	1						
Phone #:		Fax #:			Address:		1						
Project #: 23	7334	Project Owne	er:		City:								
Project Name:	7334 Thistle	77 CTI	3 7		State: Zip:		1						
Project Location:	len Ca	mustic	, _		Phone #:		1						
Sampler Name:	Lea Co Clayfour	T			Fax #:		1						
FOR LAB USE ONLY		1,	П	MATRIX		SAMPLING	1	21					
Lab I.D. 4242672	Sample I. 05-1 05-1 05-1 05-1		G (G)RAB OR (C)OM	GROUNDWATER WASTEWATER OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL \(\text{OTHER} : \tex	TE TIME	4 BIE	Chlori	-	.,			
EASE NOTE: Liability and Diama alyses. All claims including those vice. In no event shall Cardinal be liated or successor. History out of ellinquished By:	h liable for incidental or consequent or related to the performance of	untal damages, including	without first indinal, rega Recei	ved unless made in writing and lation business interruntions. In		ys after completion of the ed by client, its subsidiaries and reasons or otherwise Verbal Res	e applicable es, b. ult: are ema	□ Yes □ Nailed. Please po	o Add'l Ph rovide Email ad	one #: Idress:			_
elivered By: (Circle Campler - UPS - Bus -	Other: Corre	erved Temp. °C	3.4	Sample Condition Cool Intact Yes Yes No No No	CHECKED BY:	Turnaround Thermometer Correction Fa	ID #14	Standar Rush	☑ Co	ol Intact	Sample Con Observed	Temp °C	



May 17, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: THISTLE 22 CTB 2

Enclosed are the results of analyses for samples received by the laboratory on 05/15/24 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 05/15/2024

Reported: 05/17/2024

Project Name: THISTLE 22 CTB 2

Project Number: 237334

Project Location: DEVON - LEA CO., NM

Sampling Date: 05/15/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 8A (H242673-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2024	ND	2.08	104	2.00	16.1	
Toluene*	<0.050	0.050	05/16/2024	ND	2.04	102	2.00	15.8	
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	2.08	104	2.00	16.0	
Total Xylenes*	<0.150	0.150	05/16/2024	ND	6.74	112	6.00	15.8	
Total BTEX	<0.300	0.300	05/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-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	05/16/2024	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	177	88.3	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	173	86.4	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	92.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

Analyzed By MC

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MA Sough



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

05/15/2024

ma/ka

Reported: 05/17/2024

Project Name: THISTLE 22 CTB 2

Project Number: 237334

Project Location: DEVON - LEA CO., NM

Sampling Date: 05/15/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 7A (H242673-02)

Received:

RTFY 8021R

BIEX 8021B	mg	^и кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2024	ND	2.08	104	2.00	16.1	
Toluene*	<0.050	0.050	05/16/2024	ND	2.04	102	2.00	15.8	
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	2.08	104	2.00	16.0	
Total Xylenes*	<0.150	0.150	05/16/2024	ND	6.74	112	6.00	15.8	
Total BTEX	<0.300	0.300	05/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	05/16/2024	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	177	88.3	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	173	86.4	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	91.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

Applyzod By: MC

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Me Sough



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 05/15/2024

05/17/2024

Project Name: THISTLE 22 CTB 2 Project Number: 237334

Project Location: DEVON - LEA CO., NM Sampling Date: 05/15/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: SW - 10 (H242673-03)

Reported:

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2024	ND	2.08	104	2.00	16.1	
Toluene*	<0.050	0.050	05/16/2024	ND	2.04	102	2.00	15.8	
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	2.08	104	2.00	16.0	
Total Xylenes*	<0.150	0.150	05/16/2024	ND	6.74	112	6.00	15.8	
Total BTEX	<0.300	0.300	05/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	05/16/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	177	88.3	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	173	86.4	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	87.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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with Sigh



Tamara Oldaker

Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 05/15/2024 Sampling Date: 05/15/2024
Reported: 05/17/2024 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact

Project Number: 237334 Sample Received By: Project Location: DEVON - LEA CO., NM

Sample ID: CS - 17 (H242673-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2024	ND	2.08	104	2.00	16.1	
Toluene*	<0.050	0.050	05/16/2024	ND	2.04	102	2.00	15.8	
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	2.08	104	2.00	16.0	
Total Xylenes*	<0.150	0.150	05/16/2024	ND	6.74	112	6.00	15.8	
Total BTEX	<0.300	0.300	05/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	14						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	05/16/2024	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	177	88.3	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	173	86.4	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	96.5	% 48.2-13	34						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	18						

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Mile Sough



Sample Received By:

Tamara Oldaker

Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 05/15/2024 Sampling Date: 05/15/2024

Reported: 05/17/2024 Sampling Type: Soil
Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact

Project Number: 237334

Project Location: DEVON - LEA CO., NM

Sample ID: CS - 21 (H242673-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2024	ND	2.08	104	2.00	16.1	
Toluene*	<0.050	0.050	05/16/2024	ND	2.04	102	2.00	15.8	
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	2.08	104	2.00	16.0	
Total Xylenes*	<0.150	0.150	05/16/2024	ND	6.74	112	6.00	15.8	
Total BTEX	<0.300	0.300	05/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-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	05/16/2024	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	177	88.3	200	1.27	
DRO >C10-C28*	65.5	10.0	05/16/2024	ND	173	86.4	200	2.87	
EXT DRO >C28-C36	12.2	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	88.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

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Mile Sough



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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Mule Sough

Received by OCD: 7/19/2024 8:43:23 PM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Alternation & - State of St.

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Page 8 of 8

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

Company Name:	NITGE		BILL TO	ANALYSIS REQUEST
Project Manager:	NTGE Ethan Sessum	5	P.O.#: 21298433	
Address: 2	09 W McKay S	, ,	Company: Devon	
city: Carls	had state:	NM zip: 8 \$770	Attn:	
Phone #:	Fax #:		Address:	
Project#: 7	37334 Project 0	wner:	City:	
Project Name:	Thistle 27 1T	B 2	State: Zip:	4
Project Location:	Lea County Clayton T		Phone #:	4.
Sampler Name:	Clayton T		Fax #:	
FOR LAB USE ONLY	J	MATRIX	PRESERV. SAMPLING	X
Lab I.D.	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL	OTHER: ACID/BASE: ICE / COOL OTHER:	
100 10101 5	SW-8A	CIX	5/15 10:00	
	SW-7A .			
3	SW-10 CS-17			
4	C5-17			
5	CS-21			

A Land A Market R - 655 F

affiliates or successors. **riving out of or related to the perform. Relinquished 3y:	Date: \$/15 Receiv	Millary Malake	Verbal Result: Y All Results are emailed		Phone #: il address:
Relinquished By:	Date: Receiv	yed By:	REMARKS:		
	Observed Temp. °C 3.4	Sample Condition CHECKED BY: Cool Intact (Initials) Yes Yes No No	Turnaround Time: Thermometer ID #140 Correction Factor 0°C	Standard Rush 48 k/s	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C

[†] Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



May 22, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: THISTLE 22 CTB 2

Enclosed are the results of analyses for samples received by the laboratory on 05/20/24 12:29.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 05/20/2024 Sampling Date: 05/20/2024
Reported: 05/22/2024 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact
Project Number: 237334 Sample Received By: Shalyn Rodriguez

A ... - L ... - - - I D. .. MC

Project Location: DEVON - LEA CO., NM

Sample ID: DS - 2 0-6" (H242761-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2024	ND	1.72	85.8	2.00	2.94	
Toluene*	<0.050	0.050	05/21/2024	ND	1.77	88.5	2.00	4.83	
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.77	88.4	2.00	4.90	
Total Xylenes*	<0.150	0.150	05/21/2024	ND	5.85	97.4	6.00	4.64	
Total BTEX	<0.300	0.300	05/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2024	ND	183	91.5	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/20/2024	ND	183	91.3	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	05/20/2024	ND					
Surrogate: 1-Chlorooctane	87.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.0	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 05/20/2024 Sampling Date: 05/20/2024

Reported: 05/22/2024 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact Project Number: 237334 Sample Received By: Shalyn Rodriguez

Project Location: DEVON - LEA CO., NM

Sample ID: DS - 3 0-6" (H242761-02)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2024	ND	1.72	85.8	2.00	2.94	
Toluene*	<0.050	0.050	05/21/2024	ND	1.77	88.5	2.00	4.83	
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.77	88.4	2.00	4.90	
Total Xylenes*	<0.150	0.150	05/21/2024	ND	5.85	97.4	6.00	4.64	
Total BTEX	<0.300	0.300	05/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2024	ND	183	91.5	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/20/2024	ND	183	91.3	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	05/20/2024	ND					
Surrogate: 1-Chlorooctane	84.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.3	% 49.1-14	8						

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Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 05/20/2024 Sampling Date: 05/20/2024

Reported: 05/22/2024 Sampling Type: Soil

Project Name: THISTLE 22 CTB 2 Sampling Condition: Cool & Intact Project Number: 237334 Sample Received By: Shalyn Rodriguez

Project Location: DEVON - LEA CO., NM

Sample ID: DS - 4 0-6" (H242761-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2024	ND	1.72	85.8	2.00	2.94	
Toluene*	<0.050	0.050	05/21/2024	ND	1.77	88.5	2.00	4.83	
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.77	88.4	2.00	4.90	
Total Xylenes*	<0.150	0.150	05/21/2024	ND	5.85	97.4	6.00	4.64	
Total BTEX	<0.300	0.300	05/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2024	ND	183	91.5	200	1.49	
DRO >C10-C28*	19.1	10.0	05/20/2024	ND	183	91.3	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	05/20/2024	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.6	% 49.1-14	8						

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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

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-24	6	_		_	_	T		RII	LL TO			-	ANA	LYSIS	REQ	UEST	_	_	_
	State: UM - 266-5456 Fax #: 7334 Project Owner Thistle 22 CTB 2			387 uon			Att Ad Cit Sta Ph	mpar n: dress ty: ate:	217 17: Pak 5:	Devon Devon E Wood Zip:										
Sampler Name: FOR LAB USE ONLY Lab I.D. HALANUI	Sample I.D. DS-2 DS-3 DS-4 Section Stability and clearly exclusive remedy for	PP P (G)RAB OR (C)OMP.	7-1	GROUNDWATER		OIL	SLUDGE	. ACID/BASE:	ICE / COOL	DATE 5/30/24	10:45		Chlonde			.,				

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days a

service. In no event shall Cardinal be liable for incidental affiliates or successors, while out of or related to the pertinguished By:	or consequencial dartingles, processed or services hereunder by Cardinal, regard pormance of services hereunder by Cardinal, regard Participation of Services and	fless of whether such claim is based. An any of the above seed By:	Verbal Result: ☐ Yes ☐ No All Results are emailed. Please pr	o Add'l Phone #: ovide Email address:
1/h	Time: 229	Codrigues	REMARKS:	
Relinquished By:	Date: Receiv		r: Turnaround Time: Standar	rd Bacteria (only) Sample Condition
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °S Uz	Sample Condition Cool Intact Yes Yes No No	Thermometer ID #140 Correction Factor 0°C (48h)	Cool Intact Observed Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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9

Page 6 of

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ethan Sessums NT Global 701 Tradewinds Blvd Midland, Texas 79706

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JOB DESCRIPTION

THISTLE 22

JOB NUMBER

890-5929-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

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

Client: NT Global
Project/Site: THISTLE 22
Laboratory Job ID: 890-5929-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	18
Lab Chronicle	21
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Racaint Chacklists	27

3

4

6

8

10

13

14

Definitions/Glossary

Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

Qualifiers

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

POS

PQL

PRES

QC

RER

RPD

TEF

TEQ TNTC

RL

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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

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Positive / Present

Presumptive

Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Case Narrative

Client: NT Global Job ID: 890-5929-1 Project: THISTLE 22

Eurofins Carlsbad Job ID: 890-5929-1

Job Narrative 890-5929-1

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

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
- 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 1/9/2024 2:20 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 4.6°C

Receipt Exceptions

The following samples is biphasic: H-1 (890-5929-1), H-3 (890-5929-2), H-4 (890-5929-3) and H-5 (890-5929-4). The client was contacted, and the laboratory was instructed to <CHOOSE ONE> analyze and report both phases; analyze and report the top layer only; analyze and report the bottom layer only.

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (890-5929-1), H-3 (890-5929-2), H-4 (890-5929-3) and H-5 (890-5929-4).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-70626 recovered under the lower control limit for Benzene and Toluene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-70640 and analytical batch 880-70626 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-70655 and analytical batch 880-70619 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-70655/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-1 (890-5929-1), H-3 (890-5929-2), (890-5932-A-1-D), (890-5932-A-1-E MS) and (890-5932-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-70654 and analytical batch 880-70617 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-70654 and analytical batch 880-70617 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.

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Case Narrative

Client: NT Global Job ID: 890-5929-1 Project: THISTLE 22

Job ID: 890-5929-1 (Continued)

Eurofins Carlsbad

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-70612 and analytical batch 880-70696 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

Client Sample ID: H-1 Lab Sample ID: 890-5929-1

Date Collected: 01/09/24 00:00 Matrix: Solid
Date Received: 01/09/24 14:20

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/11/24 12:30	01/11/24 23:00	
Toluene	<0.00198	U	0.00198		mg/Kg		01/11/24 12:30	01/11/24 23:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/11/24 12:30	01/11/24 23:00	1
m-Xylene & p-Xylene	<0.00397	U *+	0.00397		mg/Kg		01/11/24 12:30	01/11/24 23:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/11/24 12:30	01/11/24 23:00	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/11/24 12:30	01/11/24 23:00	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				01/11/24 12:30	01/11/24 23:00	
1,4-Difluorobenzene (Surr)	78		70 - 130				01/11/24 12:30	01/11/24 23:00	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/11/24 23:00	
T I TDI.I								Analyzed	D u
Total TPH -	<50.0	U	50.0		mg/Kg			01/12/24 05:48	
- -					mg/Kg				
Method: SW846 8015B NM - Die:	sel Range Orga			MDL		— — D	Prepared		
Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	(GC)	MDL		<u>D</u>	Prepared 01/11/24 13:45	01/12/24 05:48	Dil Fac
Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result <50.0	nics (DRO) Qualifier	(GC)	MDL	Unit mg/Kg	<u>D</u>	01/11/24 13:45	01/12/24 05:48 Analyzed 01/12/24 05:48	Dil Fac
Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics	sel Range Orga Result	nics (DRO) Qualifier	(GC) RL 50.0	MDL	Unit	<u>D</u>	<u>.</u>	01/12/24 05:48 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result <50.0	nics (DRO) Qualifier U	(GC) RL 50.0	MDL	Unit mg/Kg	<u>D</u>	01/11/24 13:45	01/12/24 05:48 Analyzed 01/12/24 05:48	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	nics (DRO) Qualifier U	(GC) RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	01/11/24 13:45	01/12/24 05:48 Analyzed 01/12/24 05:48 01/12/24 05:48	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <50.0 <50.0	nics (DRO) Qualifier U	(GC) RL 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	01/11/24 13:45 01/11/24 13:45 01/11/24 13:45	01/12/24 05:48 Analyzed 01/12/24 05:48 01/12/24 05:48 01/12/24 05:48	Dil Fac
Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	sel Range Orga Result <50.0	unics (DRO) Qualifier U U Qualifier	(GC) RL 50.0 50.0 50.0 Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	01/11/24 13:45 01/11/24 13:45 01/11/24 13:45 Prepared	Analyzed 01/12/24 05:48 Analyzed 01/12/24 05:48 01/12/24 05:48 Analyzed	Dil Fac
Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Sel Range Orga Result	U Qualifier U Qualifier S1+ S1+	(GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	01/11/24 13:45 01/11/24 13:45 01/11/24 13:45 Prepared 01/11/24 13:45	01/12/24 05:48 Analyzed 01/12/24 05:48 01/12/24 05:48 01/12/24 05:48 Analyzed 01/12/24 05:48	Dil Fac
Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	sel Range Orga Result <50.0	U Qualifier U Qualifier S1+ S1+	(GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	01/11/24 13:45 01/11/24 13:45 01/11/24 13:45 Prepared 01/11/24 13:45	01/12/24 05:48 Analyzed 01/12/24 05:48 01/12/24 05:48 01/12/24 05:48 Analyzed 01/12/24 05:48	Dil Fac

Client Sample ID: H-3 Lab Sample ID: 890-5929-2

Date Collected: 01/09/24 00:00 Date Received: 01/09/24 14:20

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/11/24 23:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/11/24 23:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/11/24 23:21	1
m-Xylene & p-Xylene	<0.00400	U *+	0.00400		mg/Kg		01/11/24 12:30	01/11/24 23:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/11/24 23:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/11/24 12:30	01/11/24 23:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				01/11/24 12:30	01/11/24 23:21	

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2

3

4

0

0

10

12

4 4

Matrix: Solid

Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

Client Sample ID: H-3 Lab Sample ID: 890-5929-2

Date Collected: 01/09/24 00:00 Matrix: Solid

Date Received: 01/09/24 14:20 Sample Depth: 0.5

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

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 1,4-Difluorobenzene (Surr)
 82
 70 - 130
 01/11/24 12:30
 01/11/24 23:21
 1

Method: TAL SOP Total BTEX - Total BTEX Calculation

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total BTEX
 <0.00400</td>
 U
 0.00400
 mg/Kg
 Image: Control of the property o

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

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total TPH
 <49.7</td>
 U
 49.7
 mg/Kg
 01/12/24 06:10
 1

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

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <49.7 U 49.7 01/11/24 13:45 01/12/24 06:10 Gasoline Range Organics mg/Kg (GRO)-C6-C10 <49.7 U 49.7 01/11/24 13:45 01/12/24 06:10 Diesel Range Organics (Over mg/Kg C10-C28) OII Range Organics (Over C28-C36) <49.7 U 49.7 mg/Kg 01/11/24 13:45 01/12/24 06:10

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 304 S1+ 70 - 130 01/11/24 13:45 01/12/24 06:10 01/12/24 06:10 o-Terphenyl 266 S1+ 70 - 130 01/11/24 13:45

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 <4.99</td>
 U
 4.99
 mg/Kg
 01/11/24 14:49
 1

Client Sample ID: H-4 Lab Sample ID: 890-5929-3

Date Collected: 01/09/24 00:00 Date Received: 01/09/24 14:20

Sample Depth: 0.5

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

Prepared Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Benzene <0.00199 U 0.00199 mg/Kg 01/11/24 12:30 01/11/24 23:42 Toluene <0.00199 U 0.00199 01/11/24 12:30 01/11/24 23:42 mg/Kg Ethylbenzene <0.00199 U 0.00199 01/11/24 12:30 01/11/24 23:42 mg/Kg 0.00398 01/11/24 12:30 01/11/24 23:42 m-Xylene & p-Xylene <0.00398 U*+ mg/Kg o-Xylene <0.00199 0.00199 mg/Kg 01/11/24 12:30 01/11/24 23:42 Xylenes, Total <0.00398 U 0.00398 mg/Kg 01/11/24 12:30 01/11/24 23:42

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 130 01/11/24 12:30 4-Bromofluorobenzene (Surr) 95 01/11/24 23:42 1,4-Difluorobenzene (Surr) 77 70 - 130 01/11/24 12:30 01/11/24 23:42

Method: TAL SOP Total BTEX - Total BTEX Calculation

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total BTEX
 <0.00398</td>
 U
 0.00398
 mg/Kg
 01/11/24 23:42
 1

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

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Factor

 Total TPH
 <49.6</td>
 U
 49.6
 mg/Kg
 01/11/24 22:02
 1

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13

Matrix: Solid

Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

Client Sample ID: H-4 Lab Sample ID: 890-5929-3

Date Collected: 01/09/24 00:00 Matrix: Solid

Date Received: 01/09/24 14:20

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		01/11/24 13:50	01/11/24 22:02	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		01/11/24 13:50	01/11/24 22:02	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/11/24 13:50	01/11/24 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				01/11/24 13:50	01/11/24 22:02	1
o-Terphenyl	120		70 ₋ 130				01/11/24 13:50	01/11/24 22:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier MDL Unit RL D Prepared Analyzed Dil Fac Chloride <5.04 U 5.04 01/11/24 14:54 mg/Kg

Client Sample ID: H-5 Lab Sample ID: 890-5929-4 **Matrix: Solid**

Date Collected: 01/09/24 00:00 Date Received: 01/09/24 14:20

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/11/24 12:30	01/12/24 00:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/11/24 12:30	01/12/24 00:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/11/24 12:30	01/12/24 00:02	1
m-Xylene & p-Xylene	<0.00403	U *+	0.00403		mg/Kg		01/11/24 12:30	01/12/24 00:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/11/24 12:30	01/12/24 00:02	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/11/24 12:30	01/12/24 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				01/11/24 12:30	01/12/24 00:02	1
1,4-Difluorobenzene (Surr)	101		70 - 130				01/11/24 12:30	01/12/24 00:02	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/12/24 00:02	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/11/24 23:07	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		01/11/24 13:50	01/11/24 23:07	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/11/24 13:50	01/11/24 23:07	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/11/24 13:50	01/11/24 23:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				01/11/24 13:50	01/11/24 23:07	1

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Client Sample Results

Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

Client Sample ID: H-5 Lab Sample ID: 890-5929-4 Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/09/24 14:20

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.62		4.97		mg/Kg			01/11/24 15:00	1

Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

	BFB1	DFBZ1
Client Sample ID	(70-130)	(70-130)
H-1	92	78
H-3	95	82
H-4	95	77
H-5	105	101
Matrix Spike	125	107
Matrix Spike Duplicate	128	115
Lab Control Sample	134 S1+	107
Lab Control Sample Dup	110	104
Method Blank	73	90
Method Blank	72	88
	H-1 H-3 H-4 H-5 Matrix Spike Matrix Spike Duplicate Lab Control Sample Lab Control Sample Dup	Client Sample ID (70-130) H-1 92 H-3 95 H-4 95 H-5 105 Matrix Spike 125 Matrix Spike Duplicate 128 Lab Control Sample 134 S1+ Lab Control Sample Dup 110 Method Blank 73

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		1CO1	OTPH1	
o Sample ID	Client Sample ID	(70-130)	(70-130)	
0-5929-1	H-1	311 S1+	270 S1+	
0-5929-2	H-3	304 S1+	266 S1+	
0-5929-3	H-4	115	120	
)-5929-3 MS	H-4	113	104	
0-5929-3 MSD	H-4	115	106	
-5929-4	H-5	126	127	
0-5932-A-1-E MS	Matrix Spike	156 S1+	129	
)-5932-A-1-F MSD	Matrix Spike Duplicate	159 S1+	132 S1+	
S 880-70654/2-A	Lab Control Sample	82	86	
S 880-70655/2-A	Lab Control Sample	130	141 S1+	
SD 880-70654/3-A	Lab Control Sample Dup	98	114	
SD 880-70655/3-A	Lab Control Sample Dup	99	113	
3 880-70654/1-A	Method Blank	178 S1+	179 S1+	
8 880-70655/1-A	Method Blank	133 S1+	155 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-70580/5-A

Analysis Batch: 70626

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70580

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/24 14:02	01/11/24 11:00	1

мв мв

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	01/10/24 14:02	01/11/24 11:00	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/10/24 14:02	01/11/24 11:00	1

Lab Sample ID: MB 880-70640/5-A

Matrix: Solid

Analysis Batch: 70626

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

01/11/24 21:37

Prep Batch: 70640

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/11/24 21:37	•
Toluene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/11/24 21:37	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/11/24 21:37	•
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/11/24 12:30	01/11/24 21:37	
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/11/24 21:37	,

0.00400

mg/Kg

MB MB

<0.00400 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	01/11/24 12:30	01/11/24 21:37	1
1,4-Difluorobenzene (Surr)	88		70 - 130	01/11/24 12:30	01/11/24 21:37	1

Lab Sample ID: LCS 880-70640/1-A

Matrix: Solid

Xylenes, Total

Analysis Batch: 70626

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

01/11/24 12:30

Prep Batch: 70640

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1159		mg/Kg		116	70 - 130	
Toluene	0.100	0.1082		mg/Kg		108	70 - 130	
Ethylbenzene	0.100	0.1213		mg/Kg		121	70 - 130	
m-Xylene & p-Xylene	0.200	0.2613	*+	mg/Kg		131	70 - 130	
o-Xylene	0.100	0.1246		mg/Kg		125	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 _ 130
1.4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-70640/2-A

Matrix: Solid

Analysis Batch: 70626

Client Sample ID:	Lab	Contr	ol Sar	nple	Dup
		_	_		

Prep Type: Total/NA

Prep Batch: 70640

	Spike	LCSD LCSD				%Rec		KPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1046	mg/Kg		105	70 - 130	10	35

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

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

Lab Sample ID: LCSD 880-70640/2-A

Matrix: Solid Analysis Batch: 70626

Prep Batch: 70640 Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.08721 70 - 130 35 mg/Kg 87 22 Ethylbenzene 0.100 0.09701 mg/Kg 97 70 - 130 22 35 0.200 m-Xylene & p-Xylene 0.1972 99 70 - 130 28 35 mg/Kg o-Xylene 0.100 0.09543 mg/Kg 95 70 - 130 26 35

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 110 1,4-Difluorobenzene (Surr) 104 70 - 130

Lab Sample ID: 890-5939-A-1-B MS

Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 70626 Prep Batch: 70640

ole Sample	Spike	MS	MS				%Rec
ult Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
02 U	0.101	0.1109		mg/Kg		110	70 - 130
02 U	0.101	0.1034		mg/Kg		103	70 - 130
02 U	0.101	0.1187		mg/Kg		118	70 - 130
04 U*+	0.202	0.2456		mg/Kg		122	70 - 130
02 U	0.101	0.1158		mg/Kg		115	70 - 130
	ple Sample gult Qualifier U 202 U 202 U 204 U*+	Sult Qualifier Added 202 U 0.101 202 U 0.101 202 U 0.101 202 U 0.101 404 U*+ 0.202	Bult Qualifier Added Result 202 U 0.101 0.1109 202 U 0.101 0.1034 202 U 0.101 0.1187 202 U 0.202 0.2456	Bult Qualifier Added Result Qualifier 202 U 0.101 0.1109 202 U 0.101 0.1034 202 U 0.101 0.1187 202 U 0.202 0.2456	Bult Qualifier Added Result Qualifier Unit 202 U 0.101 0.1109 mg/Kg 202 U 0.101 0.1034 mg/Kg 202 U 0.101 0.1187 mg/Kg 202 U 0.202 0.2456 mg/Kg	Bult Qualifier Added Result Qualifier Unit D 202 U 0.101 0.1109 mg/Kg 202 U 0.101 0.1034 mg/Kg 202 U 0.101 0.1187 mg/Kg 404 U*+ 0.202 0.2456 mg/Kg	Result Qualifier Added Result Qualifier Unit D %Rec 202 U 0.101 0.1109 mg/Kg 110 202 U 0.101 0.1034 mg/Kg 103 202 U 0.101 0.1187 mg/Kg 118 404 U*+ 0.202 0.2456 mg/Kg 122

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 4-Bromofluorobenzene (Surr) 125 107 70 - 130 1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-5939-A-1-C MSD

Matrix: Solid

Analysis Batch: 70626

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Prep Batch: 70640

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0994	0.1048		mg/Kg		105	70 - 130	6	35
Toluene	<0.00202	U	0.0994	0.09392		mg/Kg		94	70 - 130	10	35
Ethylbenzene	<0.00202	U	0.0994	0.1074		mg/Kg		108	70 - 130	10	35
m-Xylene & p-Xylene	<0.00404	U *+	0.199	0.2288		mg/Kg		115	70 - 130	7	35
o-Xylene	<0.00202	U	0.0994	0.1084		mg/Kg		109	70 - 130	7	35

	พรษ	MISD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

MSD MSD

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

Lab Sample ID: MB 880-70654/1-A

Matrix: Solid

Analysis Batch: 70617

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

Prep Batch: 70654

мв мв Analyte Result Qualifier RL MDL Unit Prepared Gasoline Range Organics <50.0 U 50.0 01/11/24 13:45 01/11/24 20:57 mg/Kg (GRO)-C6-C10

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1/12/2024

Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

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

179 S1+

Lab Sample ID: MB 880-70654/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA Analysis Batch: 70617 Prep Batch: 70654

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/11/24 13:45	01/11/24 20:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/24 13:45	01/11/24 20:57	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	178	S1+	70 - 130				01/11/24 13:45	01/11/24 20:57	1

Lab Sample ID: LCS 880-70654/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 70617 Prep Batch: 70654

70 - 130

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 781.1 78 70 - 130 mg/Kg (GRO)-C6-C10 1000 854.2 Diesel Range Organics (Over mg/Kg 85 70 - 130

C10-C28)

o-Terphenyl

LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 82 o-Terphenyl 86 70 - 130

Lab Sample ID: LCSD 880-70654/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 70617

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D Gasoline Range Organics 1000 831.3 83 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1015 mg/Kg 101 70 - 130 17 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 98 70 - 130 o-Terphenyl 114 70 - 130

Lab Sample ID: 890-5932-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 70617

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	1316		mg/Kg		129	70 - 130	
Diesel Range Organics (Over	<49.9	U F1	1000	1591	F1	mg/Kg		157	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	156	S1+	70 - 130
o-Terphenyl	129		70 - 130

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Prep Batch: 70654

Prep Batch: 70654

01/11/24 13:45

01/11/24 20:57

Lab Sample ID: 890-5932-A-1-F MSD

Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

Analysis Batch: 70617

Matrix: Solid

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 70654

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits Gasoline Range Organics <49.9 UF1 1000 1360 F1 mg/Kg 134 70 - 130 3 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over <49.9 UF1 1628 F1 mg/Kg 160 70 - 130 2

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	159	S1+	70 - 130
o-Terphenyl	132	S1+	70 - 130

Lab Sample ID: MB 880-70655/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA Prep Batch: 70655 **Analysis Batch: 70619**

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		01/11/24 13:50	01/11/24 20:57	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/11/24 13:50	01/11/24 20:57	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/24 13:50	01/11/24 20:57	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	01/11/24 13:50	01/11/24 20:57	1
o-Terphenyl	155	S1+	70 - 130	01/11/24 13:50	01/11/24 20:57	1

Lab Sample ID: LCS 880-70655/2-A

Matrix: Solid

Analysis Batch: 70619

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70655

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	815.7		mg/Kg		82	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	986.4		mg/Kg		99	70 - 130
C10-C28)							

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	130		70 - 130
o-Terphenyl	141	S1+	70 - 130

Lab Sample ID: LCSD 880-70655/3-A

Matrix: Solid Analysis Batch: 70619 **Client Sample ID: Lab Control Sample Dup**

Prep Type: Total/NA

Prep Batch: 70655

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	891.3		mg/Kg		89	70 - 130	9	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	968.6		mg/Kg		97	70 - 130	2	20
C10-C28)									

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Lab Sample ID: LCSD 880-70655/3-A

Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

Analysis Batch: 70619

Matrix: Solid

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70655

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 99 70 - 130 o-Terphenyl 113 70 - 130

Lab Sample ID: 890-5929-3 MS Client Sample ID: H-4

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 70619 Prep Batch: 70655

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1297		mg/Kg		126	70 - 130
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	883.9		mg/Kg		85	70 - 130
	MS	MS							

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 113 104 70 - 130 o-Terphenyl

Lab Sample ID: 890-5929-3 MSD Client Sample ID: H-4 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 70619 Prep Batch: 70655

Sample Sample Spike MSD MSD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit D Gasoline Range Organics <49.6 U 1010 1322 mg/Kg 128 70 - 130 2 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.6 U 1010 908.2 mg/Kg 87 70 - 130 3 20

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	106		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70487/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 70595

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/11/24 04:06	1

Lab Sample ID: LCS 880-70487/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid Analysis Batch: 70595

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit Limits Chloride 252.4 250 mg/Kg 101 90 - 110

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Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-70487/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 70595

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	253.7		mg/Kg		101	90 - 110	1	20	

Lab Sample ID: 880-37706-A-2-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 70595

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1530		2510	4281		mg/Kg		110	90 - 110	

Lab Sample ID: 880-37706-A-2-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 70595

MSD MSD %Rec RPD Spike Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 1530 2510 4244 mg/Kg 108 90 - 110

Lab Sample ID: MB 880-70612/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 70696

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Analyte	Result Qu	Qualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			01/11/24 21:48	1

Lab Sample ID: LCS 880-70612/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 70696

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chlorido	250	248.4		malka	_		00 110	

Lab Sample ID: LCSD 880-70612/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 70696

	Spike	LCSD L	.CSD				%Rec		RPD
Analyte	Added		Qualifier (Jnit	D	%Rec	Limits	RPD	Limit
Chloride	250	248.8	n	ng/Kg	_	100	90 - 110		20

Lab Sample ID: 880-37779-A-58-E MS Client Sample ID: Matrix Spike

Analysis Batch: 70696

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	89.1	F1	249	311.2	F1	ma/Ka		89	90 - 110	

Lab Sample ID: 880-37779-A-58-F MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 70696

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	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	89.1	F1	249	312.6		mg/Kg		90	90 - 110	0	20

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Matrix: Solid Prep Type: Soluble

QC Association Summary

Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

GC VOA

Prep Batch: 70580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-70580/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 70626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5929-1	H-1	Total/NA	Solid	8021B	70640
890-5929-2	H-3	Total/NA	Solid	8021B	70640
890-5929-3	H-4	Total/NA	Solid	8021B	70640
890-5929-4	H-5	Total/NA	Solid	8021B	70640
MB 880-70580/5-A	Method Blank	Total/NA	Solid	8021B	70580
MB 880-70640/5-A	Method Blank	Total/NA	Solid	8021B	70640
LCS 880-70640/1-A	Lab Control Sample	Total/NA	Solid	8021B	70640
LCSD 880-70640/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70640
890-5939-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	70640
890-5939-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	70640

Prep Batch: 70640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5929-1	H-1	Total/NA	Solid	5035	
890-5929-2	H-3	Total/NA	Solid	5035	
890-5929-3	H-4	Total/NA	Solid	5035	
890-5929-4	H-5	Total/NA	Solid	5035	
MB 880-70640/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70640/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70640/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5939-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-5939-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 70771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5929-1	H-1	Total/NA	Solid	Total BTEX	
890-5929-2	H-3	Total/NA	Solid	Total BTEX	
890-5929-3	H-4	Total/NA	Solid	Total BTEX	
890-5929-4	H-5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 70617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5929-1	H-1	Total/NA	Solid	8015B NM	70654
890-5929-2	H-3	Total/NA	Solid	8015B NM	70654
MB 880-70654/1-A	Method Blank	Total/NA	Solid	8015B NM	70654
LCS 880-70654/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70654
LCSD 880-70654/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70654
890-5932-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	70654
890-5932-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	70654

Analysis Batch: 70619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5929-3	H-4	Total/NA	Solid	8015B NM	70655
890-5929-4	H-5	Total/NA	Solid	8015B NM	70655
MB 880-70655/1-A	Method Blank	Total/NA	Solid	8015B NM	70655

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Page 18 of 28

QC Association Summary

Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

GC Semi VOA (Continued)

Analysis Batch: 70619 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-70655/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70655
LCSD 880-70655/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70655
890-5929-3 MS	H-4	Total/NA	Solid	8015B NM	70655
890-5929-3 MSD	H-4	Total/NA	Solid	8015B NM	70655

Prep Batch: 70654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5929-1	H-1	Total/NA	Solid	8015NM Prep	
890-5929-2	H-3	Total/NA	Solid	8015NM Prep	
MB 880-70654/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70654/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70654/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5932-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5932-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 70655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5929-3	H-4	Total/NA	Solid	8015NM Prep	
890-5929-4	H-5	Total/NA	Solid	8015NM Prep	
MB 880-70655/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70655/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70655/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5929-3 MS	H-4	Total/NA	Solid	8015NM Prep	
890-5929-3 MSD	H-4	Total/NA	Solid	8015NM Prep	

Analysis Batch: 70704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5929-1	H-1	Total/NA	Solid	8015 NM	
890-5929-2	H-3	Total/NA	Solid	8015 NM	
890-5929-3	H-4	Total/NA	Solid	8015 NM	
890-5929-4	H-5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 70487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5929-2	H-3	Soluble	Solid	DI Leach	
890-5929-3	H-4	Soluble	Solid	DI Leach	
890-5929-4	H-5	Soluble	Solid	DI Leach	
MB 880-70487/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70487/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70487/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37706-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-37706-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 70595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5929-2	H-3	Soluble	Solid	300.0	70487
890-5929-3	H-4	Soluble	Solid	300.0	70487
890-5929-4	H-5	Soluble	Solid	300.0	70487
MB 880-70487/1-A	Method Blank	Soluble	Solid	300.0	70487

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Page 19 of 28

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11

13

QC Association Summary

Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

HPLC/IC (Continued)

Analysis Batch: 70595 (Continued)

Lab Sample ID LCS 880-70487/2-A	Client Sample ID Lab Control Sample	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 70487
LCSD 880-70487/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70487
880-37706-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	70487
880-37706-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	70487

Leach Batch: 70612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5929-1	H-1	Soluble	Solid	DI Leach	_
MB 880-70612/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70612/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70612/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37779-A-58-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-37779-A-58-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 70696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5929-1	H-1	Soluble	Solid	300.0	70612
MB 880-70612/1-A	Method Blank	Soluble	Solid	300.0	70612
LCS 880-70612/2-A	Lab Control Sample	Soluble	Solid	300.0	70612
LCSD 880-70612/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70612
880-37779-A-58-E MS	Matrix Spike	Soluble	Solid	300.0	70612
880-37779-A-58-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	70612

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Client Sample ID: H-1

Lab Sample ID: 890-5929-1 Date Collected: 01/09/24 00:00

Matrix: Solid

Date Received: 01/09/24 14:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	70640	01/11/24 12:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70626	01/11/24 23:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70771	01/11/24 23:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			70704	01/12/24 05:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70654	01/11/24 13:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/12/24 05:48	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	70612	01/10/24 17:01	SA	EET MID
Soluble	Analysis	300.0		1			70696	01/11/24 22:54	CH	EET MID

Client Sample ID: H-3 Lab Sample ID: 890-5929-2

Date Collected: 01/09/24 00:00 Matrix: Solid

Date Received: 01/09/24 14:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	70640	01/11/24 12:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70626	01/11/24 23:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70771	01/11/24 23:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			70704	01/12/24 06:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70654	01/11/24 13:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70617	01/12/24 06:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70487	01/11/24 11:30	SA	EET MID
Soluble	Analysis	300.0		1			70595	01/11/24 14:49	CH	EET MID

Client Sample ID: H-4 Lab Sample ID: 890-5929-3

Date Collected: 01/09/24 00:00 Date Received: 01/09/24 14:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70640	01/11/24 12:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70626	01/11/24 23:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70771	01/11/24 23:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			70704	01/11/24 22:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	70655	01/11/24 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 22:02	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70487	01/11/24 11:30	SA	EET MID
Soluble	Analysis	300.0		1			70595	01/11/24 14:54	CH	EET MID

Client Sample ID: H-5 Lab Sample ID: 890-5929-4

Date Collected: 01/09/24 00:00 Date Received: 01/09/24 14:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	70640	01/11/24 12:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70626	01/12/24 00:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70771	01/12/24 00:02	SM	EET MID

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Matrix: Solid

Page 21 of 28

Released to Imaging: 8/26/2024 10:25:59 AM

Matrix: Solid

Lab Chronicle

Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

Client Sample ID: H-5 Lab Sample ID: 890-5929-4

. Matrix: Solid

Date Collected: 01/09/24 00:00 Date Received: 01/09/24 14:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			70704	01/11/24 23:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70655	01/11/24 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/11/24 23:07	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70487	01/11/24 11:30	SA	EET MID
Soluble	Analysis	300.0		1			70595	01/11/24 15:00	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date	
Texas	NELA	Р	T104704400-23-26	06-30-24	
,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		

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Method Summary

Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

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

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Sample Summary

Client: NT Global Job ID: 890-5929-1

Project/Site: THISTLE 22

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5929-1	H-1	Solid	01/09/24 00:00	01/09/24 14:20	0.5
890-5929-2	H-3	Solid	01/09/24 00:00	01/09/24 14:20	0.5
890-5929-3	H-4	Solid	01/09/24 00:00	01/09/24 14:20	0.5
890-5929-4	H-5	Solid	01/09/24 00:00	01/09/24 14:20	0.5

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Company Name:
Address:
City, State ZIP:
Phone:
Filone.

eurofins **Environment Testing**

Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Work Order	No:		

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Project Manager:	Etha:	Ses	sum s		Bill to: (if	f different)	ID	all	U	ooda	11					Wo	rk Orde	er Com	ments		
Company Name:	NTGE				Compan	y Name:				100					Program:	UST/PS	T 🗌 P	PRP_	Brown	fields R	RC Supe	erfund 🗌
Address:	209 W		Kay S	+	Address:									- 1	State of Pro							
City, State ZIP:	Carlsbad			38770	City, Stat	te ZIP:									Reporting:	Level II	Le	vel III	PST	T/UST T	RRP Leve	el IV
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Project Name:	Thistle	22		Turr	Around	/						ANALY	SIS REC	UES	Г	-				Presen	ative Codes	
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SAMPLE RECEIPT	Temp BI	ank:	Yes No	Wet ice:	Yes	No	Parameters	802113	015M	00Sh									Н	3PO 4: HP		
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Cooler Custody Seals:	Yes No	N/A	Correction	on Factor:	1		Pa	1	0	يوا		890-592	9 Chai	in of	Custody	en 1836 18 8 1			- 1	a 25 203: Na		
Sample Custody Seals:		N/A	Tempera	ature Reading:	4.8			X	100	(Morid		1 1	1	1	,			-		n Acetate+I		
Total Containers:	1 4		Correcte	d Temperature:	1	1		12	E	20									IN IN	aOH+Ascor	bic Acid: SAPC	
Sample Identi	fication	Matrix	Date Sample	Time d Sampled	Depth	40111	# of Cont	5	TPH	0										Sample	Comments	
4-1		S	1/9/	24	0.0.5	-	1	/	/	/												
H-3		5			0.0.5		1	1	/	-		\rightarrow		_								
H-4		S			0-0.5	_	1	/	/			\rightarrow		_		-		_				
H-5		5			0-0.5	,		/	/	/		\rightarrow		_		-			-			
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Total 200.7 / 601				8RCRA 13P																		
Circle Method(s) a	and Metal(s) to	be ana	alyzed	TCLP / S	SPLP 6010	: 8RC	RA S	b As	Ва В	e Cd	Cr Co Cı	ı Pb Mn	Mo Ni	Se	Ag II U		нg: 16	31/24	45.1 / /	470 / 747		
Notice: Signature of this doct of service. Eurofins Xenco wi of Eurofins Xenco. A minimu	ill he liable only for the c	ost of same	ples and shall	not assume any resp	onsibility for a	any losses o	r expen	ses incur	ed by th	he client i	such losses a	re due to circu	mstances	beyond	the control	ated.						
Relinguished by:				by: (Signatur		`			/Time			uished by					red by	(Signa	ature)		Date/Time	
neighborshed by.)			15.	.NY		1	9/2	_		142)										
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Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: NT Global Job Number: 890-5929-1

Login Number: 5929 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: NT Global Job Number: 890-5929-1

Login Number: 5929 **List Source: Eurofins Midland** List Number: 2 List Creation: 01/11/24 11:21 AM

Creator: Rodriguez, Leticia

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

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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

Action 365802

QUESTIONS

ı	Operator:	OGRID:
ı	DEVON ENERGY PRODUCTION COMPANY, LP	6137
ı	333 West Sheridan Ave.	Action Number:
ı	Oklahoma City, OK 73102	365802
ı		Action Type:
ı		[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites					
Incident ID (n#)	nAPP2327226475				
Incident Name	NAPP2327226475 THISTLE UNIT 22 CTB 2 @ 0				
Incident Type	Produced Water Release				
Incident Status	Deferral Request Received				
Incident Facility	[fAPP2123650155] THISTLE UNIT 22 CTB 2				

Location of Release Source					
Please answer all the questions in this group.					
Site Name	THISTLE UNIT 22 CTB 2				
Date Release Discovered	09/28/2023				
Surface Owner	State				

ncident 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 fo	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Equipment Failure Other (Specify) Crude Oil Released: 15 BBL Recovered: 15 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Other (Specify) Produced Water Released: 27 BBL Recovered: 25 BBL Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The water dump hung open causing the gun barrel to be over pressured and for liquid to run into containment. 40 bbls was recovered with 1.5 bbls recovered from outside the containment. The 3 phase was isolated to stop the spill.

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Phone:(505) 334-6178 Fax:(505) 334-6170 <u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

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 365802

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	TIONS (continued)
Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave.	OGRID: 6137 Action Number:
Oklahoma City, OK 73102	365802 Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)
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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	diation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o eted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface ort does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional

Email: Dale.Woodall@dvn.com

Date: 07/19/2024

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

QUESTIONS, Page 3

Action 365802

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	365802
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	Site Characterization					
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.						
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)					
What method was used to determine the depth to ground water	NM OSE iWaters Database Search					
Did this release impact groundwater or surface water	No					
What is the minimum distance, between the closest lateral extents of the release ar	nd 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)	Greater than 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	Greater than 5 (mi.)					
Any other fresh water well or spring	Greater than 5 (mi.)					
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)					
A wetland	Greater than 5 (mi.)					
A subsurface mine	Greater than 5 (mi.)					
An (non-karst) unstable area	Greater than 5 (mi.)					
Categorize the risk of this well / site being in a karst geology	Low					
A 100-year floodplain	Greater than 5 (mi.)					
Did the release impact areas not on an exploration, development, production, or storage site	No					

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be pro	ovided to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil cont	tamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	d Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each	ch, in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 CI B)	2880
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	18720
GRO+DRO (EPA SW-846 Method 8015M)	15700
BTEX (EPA SW-846 Method 8021B or 8260B)	57.6
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes which includes the anticipated timelines for beginning and completing the remediation.	completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	11/14/2023
On what date will (or did) the final sampling or liner inspection occur	05/15/2024
On what date will (or was) the remediation complete(d)	06/20/2024
What is the estimated surface area (in square feet) that will be reclaimed	3796
What is the estimated volume (in cubic yards) that will be reclaimed	169
What is the estimated surface area (in square feet) that will be remediated	d 3796
What is the estimated volume (in cubic yards) that will be remediated	169
These estimated dates and measurements are recognized to be the best guess or calcula	ation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally adj	iusted 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.

District I

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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 365802

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	365802
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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 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: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com

Date: 07/19/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Released to Imaging: 8/26/2024 10:25:59 AM

Operator:

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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 5

Action 365802

QUESTIONS (continued)

OGRID:

DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	365802
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)
	[C-141] Delettal Nequest C-141 (C-141-V-Delettal)
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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the	areas are located around a tank battery, separators, above ground lines, and buried high
equipment would cause major facility deconstruction	voltage electrical lines
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1616
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	239
	diately under or around production equipment such as production tanks, wellheads and pipelines where on may be deferred with division written approval until the equipment is removed during other operations, or when
Enter the facility ID (f#) on which this deferral should be granted	THISTLE UNIT 22 CTB 2 [fAPP2123650155]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed which includes the anticipated timelines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface or too so not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 07/19/2024

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QUESTIONS, Page 6

Action 365802

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	365802
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	343627
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/15/2024
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	600

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 365802

CONDITIONS

Operator:		OGRID:
DEVON ENERGY PRODUC	CTION COMPANY, LP	6137
333 West Sheridan Ave.		Action Number:
Oklahoma City, OK 73102		365802
		Action Type:
		[C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By		Condition Date
nvelez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	8/26/2024