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February 7, 2025

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

Re: Site Characterization and Remediation Deferral Request
Devon Energy Production Company
Arcturus 18 Fed 1 & 2 Battery
Unit A, Section 18, Township 19S, Range 31E
Site Coordinates: 32.66623066, -103.9007637
Eddy County, New Mexico
Incident ID: nAPP2426141700

Introduction

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this Site Characterization and Remediation Deferral Request Plan for submittal to the New Mexico Oil Conservation Division (NMCOD) District 2 Office in Artesia, New Mexico to document site assessment, remedial action activities, and sample analysis results for release number: nAPP2426141700 – Arcturus 18 Fed 1 & 2 Battery (Site). The Site is in Unit Letter A, Section 18, of Township 19 South and Range 31 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.66623066° N latitude and -103.9007637° W longitude. The site location with respect to the nearest town is shown on Figure 1 and the topography of the area is shown on Figure 2.

Background

Based on the Release Notification C-141 Form, the release was discovered on September 16, 2024, where Devon discovered a leak on a water line from the heater treater unit. Upon discovery, the Site was shut-in and repairs ensued. The spill resulted in a release of approximately ten (10) barrels (bbls) of produced water of which five (5) were recovered for an approximate net loss of five (5) bbls of produced water. The release area is shown on Figure 3.

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Mr. Mike Bratcher
February 7, 2025
Page 2 of 4

Groundwater and Site Characterization

Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one water well (CP-1907) within a ½-mile radius of the Site reportedly drilled to a depth of fifty-five (55) feet (ft) below ground surface (bgs) with no water encountered. No other receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map, the Site is located within a Medium Karst area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) are attached to the report.

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).

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
Medium Karst	≥55

Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12 & 19.15.29.13)

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	GRO+DRO	BTEX	Benzene
19.15.23.12 Remediation and Closure Criteria for Soils Impacted by a Release	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
19.15.23.13 Restoration, Reclamation, and Re-Vegetation	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg

Notes:

--- = not defined

Initial Soil Delineation Assessment Summary and Findings

On September 18, 2024, NTGE conducted site assessment activities to assess the extent of impacts at the Site. Five (5) vertical sample points (V-1 through V-5) were installed within the release area, while ten (10) horizontal sample points (H-1 through H-10) were installed adjacent to the release area in order to characterize the impacts. Soil samples were collected at half foot (0.5) to one (1) foot (ft) intervals from depths ranging from zero (0) to six (6) ft bgs with a geotechnical hand auger. The hand auger was decontaminated with Alconox[®] and deionized water between soil borings to prevent cross-contamination.

Soil samples were placed directly into laboratory provided sample containers, placed on ice, and transported under proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico for analysis of TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (Method SM4500Cl-B). The analytical results indicated that chloride concentrations

NTGE Project No.: 249148



Mr. Mike Bratcher
February 7, 2025
Page 3 of 4

exceeded the NMOCD regulatory limits in the areas of V-1 through V-5 at various depths ranging from zero (0) to five (5) ft bgs. Analytical results also identified that horizontal delineation sample H-3 and H-10 exhibited presence of spill impacts due to elevated concentrations of TPH and chloride at depths ranging from zero (0) to half foot (0.5) ft bgs. All other samples were below NMOCD regulatory criteria for the site.

On September 27, 2024, NTGE returned to continue with the horizontal delineation assessment of the release. A total of two (2) horizontal samples (H-3A and H-10A) were installed adjacent to the release area, collected at a half foot intervals, and were delivered to Cardinal Laboratories in Hobbs, New Mexico for the analysis of BTEX, TPH, and chlorides. Analytical results indicated that all samples were below NMOCD regulatory criteria for the site. Analytical results are included in Table 1, while soil boring locations are shown on Figure 3.

Remedial Action Activities and Confirmation Sampling

After receiving and evaluating the soil boring data, NTGE proposed to excavate the area of V-2 to a depth of four (4) ft bgs, V-3 to a depth of six (6) ft bgs, V-4 to a depth of two (2) ft bgs, and V-5 to a depth of one (1) ft bgs to ensure that the impacted soil has been removed from the Site.

On January 20, 2025, NTGE was onsite to collect a total of nineteen (19) base composite samples (CS-1 through CS-19) and fifteen (15) sidewall samples (SW-1 through SW-15) to ensure impacted soil was removed. Soil samples were delivered to Cardinal laboratories in Hobbs, New Mexico for the analysis of BTEX, TPH, and chloride. Analytical results indicated that all samples were below NMOCD regulatory criteria for the site. The final excavation extent and confirmation sample locations are shown on Figure 4. Analytical results of the confirmation samples are included in Table 2.

Soil samples were placed directly into laboratory provided containers, placed on ice, and transported under proper chain-of-custody protocol to the lab. The confirmation samples collected represent an area no greater than 200 square feet and were analyzed for BTEX (EPA method 8021B), TPH (EPA method 8015M), and chloride (method 4500-Cl-B). Laboratory reports containing analytical methods and chain-of-custody documents are attached.

Deferral Sampling

On January 28, 2025, NTGE installed one (1) vertical deferral sample point (DV-1) at depths ranging from surface (0) to four and a half (4.5) ft bgs, and two (2) horizontal deferral sample points (DH-1 and DH-2) at depths ranging from surface (0) to half (0.5) ft bgs with a geotechnical hand auger to characterize the impacts that couldn't be reached due to facility infrastructure. Laboratory results are presented in Table 2 and sampling locations are shown on Figure 5.

Soil samples were placed directly into laboratory provided containers, placed on ice, and transported under proper chain-of-custody protocol to the lab. The deferral samples were analyzed for BTEX, TPH, and chloride. All samples were below NMOCD standards with the exception of DV-1 (0-6" and 1-1.5 ft bgs) which had TPH concentrations above standard. Laboratory reports containing analytical methods and chain-of-custody documents are attached.

Mr. Mike Bratcher
February 7, 2025
Page 4 of 4

Deferral Request

Devon personnel have expressed that the excavation of areas V-1, H-3, and H-10 are unfeasible due to the presence of facility infrastructure (i.e., flowlines, tank batteries, heater treater, and pump unit) 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 request a deferral to address the remaining 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 further date.

If you have any questions regarding this letter, please contact us at (432)-701-2159.

Sincerely,
NTG Environmental



Ethan Sessums
Project Manager

Attachments:

- Tables
- Figures
- Site Characterization Documentation
- Photographic Log
- Laboratory Reports and Chain-of-Custody Documents

TABLES

Table 1
Summary of Soil Analytical Data - Delineation Samples
Arcturus 18 Fed 1
Devon Energy Production Company
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(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 51-100 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
Vertical Delineation Samples													
V-1	9/18/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,800
	9/18/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,930
	9/18/2024	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,000
	9/18/2024	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,560
	9/18/2024	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
V-2	9/18/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,000
	9/18/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,400
	9/18/2024	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,530
	9/18/2024	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,800
	9/18/2024	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
V-3	9/18/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,360
	9/18/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,240
	9/18/2024	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,000
	9/18/2024	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,400
	9/18/2024	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,400
	9/18/2024	5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,160
V-4	9/18/2024	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
	9/18/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	12,700
	9/18/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,860
V-5	9/18/2024	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
	9/18/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,530
	9/18/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
Horizontal Delineation Samples													
H-1	9/18/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H-2	9/18/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H-3	9/18/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	179	179	90.4	269.4	384
H-3A	9/27/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
H-4	9/18/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
H-5	9/18/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
H-6	9/18/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H-7	9/18/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
H-8	9/18/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
H-9	9/18/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
H-10	9/18/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,400
H-10A	9/27/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0

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
Arcturus 18 Fed 1
Devon Energy Production Company
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table 1 Closure Criteria for Soil 51-100 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
Base Confirmation Samples													
CS-1	1/20/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-2	1/20/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-3	1/20/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-4	1/20/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-5	1/20/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-6	1/20/2025	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-7	1/20/2025	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-8	1/20/2025	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-9	1/20/2025	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS-10	1/20/2025	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-11	1/20/2025	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-12	1/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-13	1/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS-14	1/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-15	1/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-16	1/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-17	1/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-18	1/20/2025	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-19	1/20/2025	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
Sidewall Confirmation Samples													
SW-1	1/20/2025	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-2	1/20/2025	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW-3	1/20/2025	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW-4	1/20/2025	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW-5	1/20/2025	4-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-6	1/20/2025	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW-7	1/20/2025	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW-8	1/20/2025	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-9	1/20/2025	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW-10	1/20/2025	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW-11	1/20/2025	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-12	1/20/2025	2-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW-13	1/20/2025	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW-14	1/20/2025	1-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW-15	1/20/2025	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
DV-1	1/28/2025	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	117	117	65.1	182.1	<16.0
DV-1	1/28/2025	1-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	156	156	92.1	248.1	<16.0
DV-1	1/28/2025	2-2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
DV-1	1/28/2025	3-3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
DV-1	1/28/2025	4-4.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
DH-1	1/28/2025	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	25.5	25.5	<10.0	25.5	32.0
DH-2	1/28/2025	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

Table 2
Summary of Soil Analytical Data - Confirmation Samples
Arcturus 18 Fed 1
Devon Energy Production Company
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride	
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)		
			(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 51-100 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

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

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.

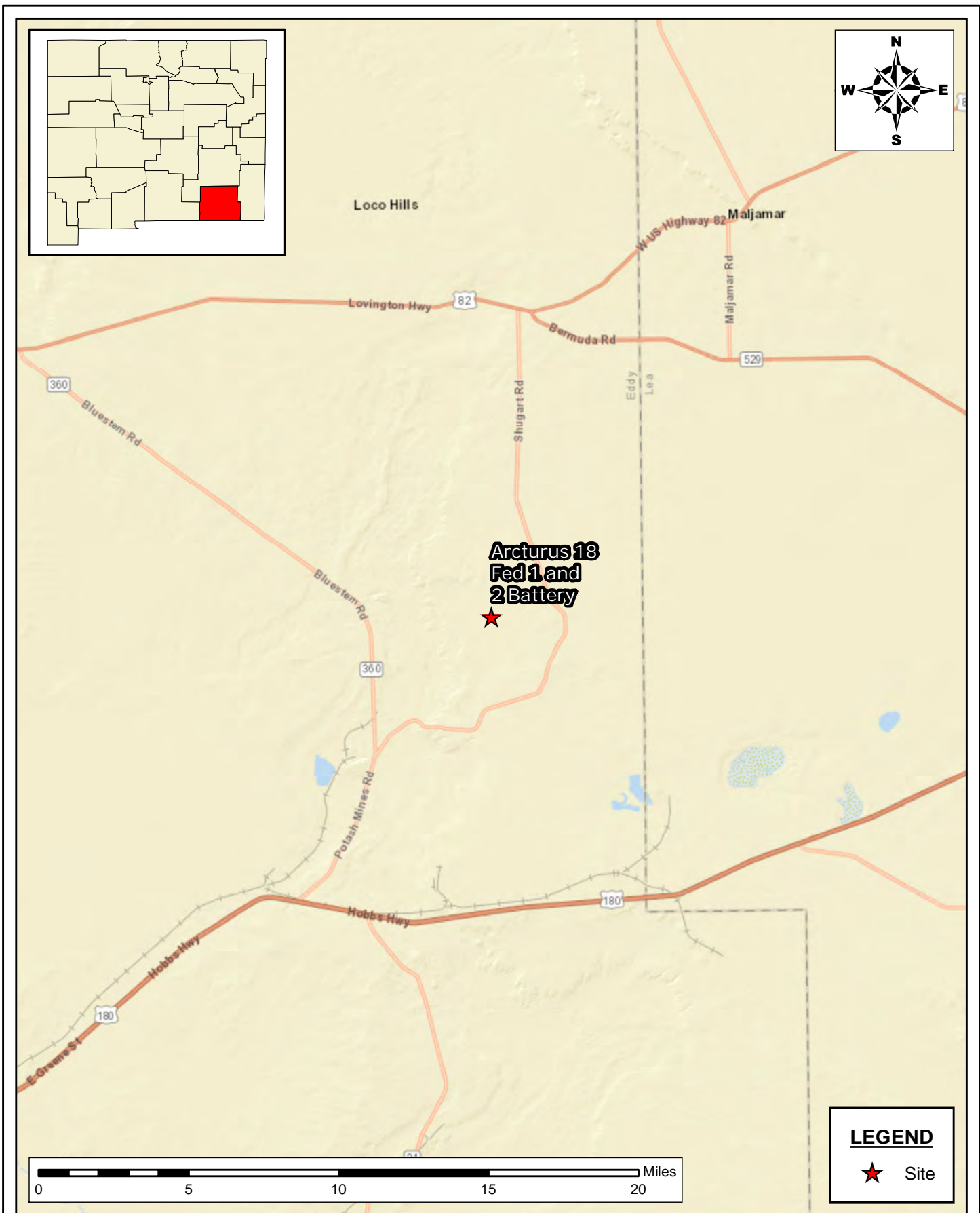
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).

9. --- Not Analyzed

SP-4 Sample Point Excavated

FIGURES

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\NTGE - Projects\2024 PROJECTS\DEVON\NRSC\249148 - (RSC) Arcturus 18 Fed 1\7- Figures\Figure_1_SL.mxd



SITE LOCATION MAP
SITE CHARACTERIZATION AND REMEDIATION DEFERRAL REQUEST
DEVON ENERGY PRODUCTION COMPANY
ARCTURUS 18 FED 1 AND 2 BATTERY
EDDY COUNTY, NEW MEXICO

SCALE: As Shown

Date: 10/14/2024

PROJECT #:249148

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

**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

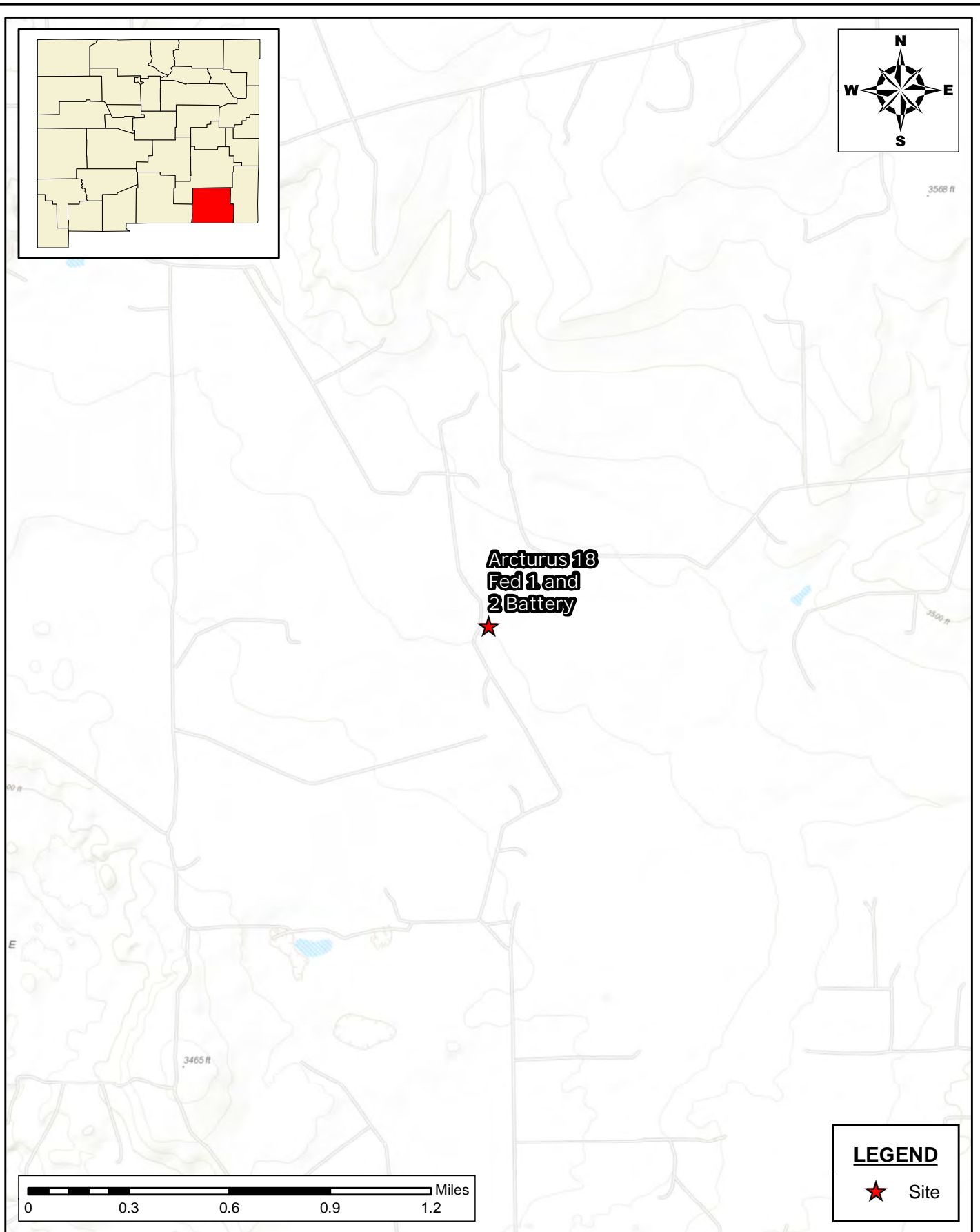
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FIGURE 1

SHEET NUMBER:

1 of 1

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**TOPOGRAPHIC MAP
SITE CHARACTERIZATION AND REMEDIATION DEFERRAL
REQUEST**

DEVON ENERGY PRODUCTION COMPANY
ARCTURUS 18 FED 1 AND 2 BATTERY
EDDY COUNTY, NEW MEXICO

SCALE: As Shown

Date: 10/14/2024

PROJECT #:249148



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

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

DRAWING NUMBER:

FIGURE 2

SHEET NUMBER:

1 of 1

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\NTGE - Projects\2024 PROJECTS\DEVON\NRSC\249148 - (RSC) Arcturus 18 Fed 1\7- Figures\GIS\Figure_3_1A.mxd



INITIAL ASSESSMENT MAP
SITE CHARACTERIZATION AND REMEDIATION DEFERRAL
REQUEST
 DEVON ENERGY PRODUCTION COMPANY
 ARCTURUS 18 FED 1 AND 2 BATTERY
 EDDY COUNTY, NEW MEXICO

SCALE: As Shown

Date: 10/14/2024

PROJECT #:249148

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

**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

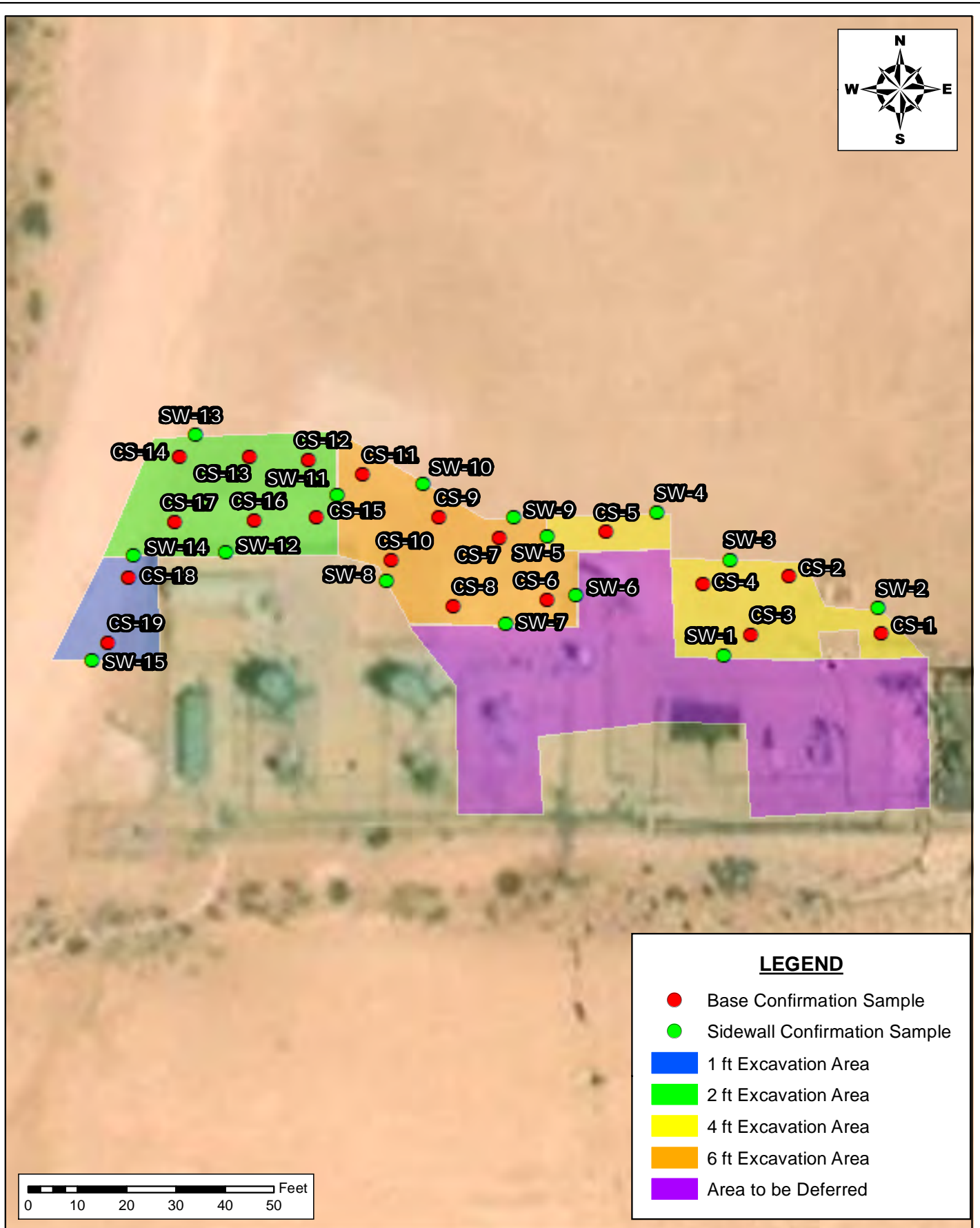
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FIGURE 3

SHEET NUMBER:

1 of 1

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\NTGE - Projects\2024 PROJECTS\DEVON\RSC\249148 - (RSC) Arcturus 18 Fed 1\7- Figures\GIS\Figure_4_CS.mxd



**CONFIRMATION SAMPLING MAP
SITE CHARACTERIZATION AND DEFERRAL REQUEST
DEVON ENERGY PRODUCTION CORPORATION
ARCTURUS 18 FED 1 AND 2 BATTERY
EDDY COUNTY, NEW MEXICO**

SCALE: As Shown Date: 2/3/2025 PROJECT #: 249148



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

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

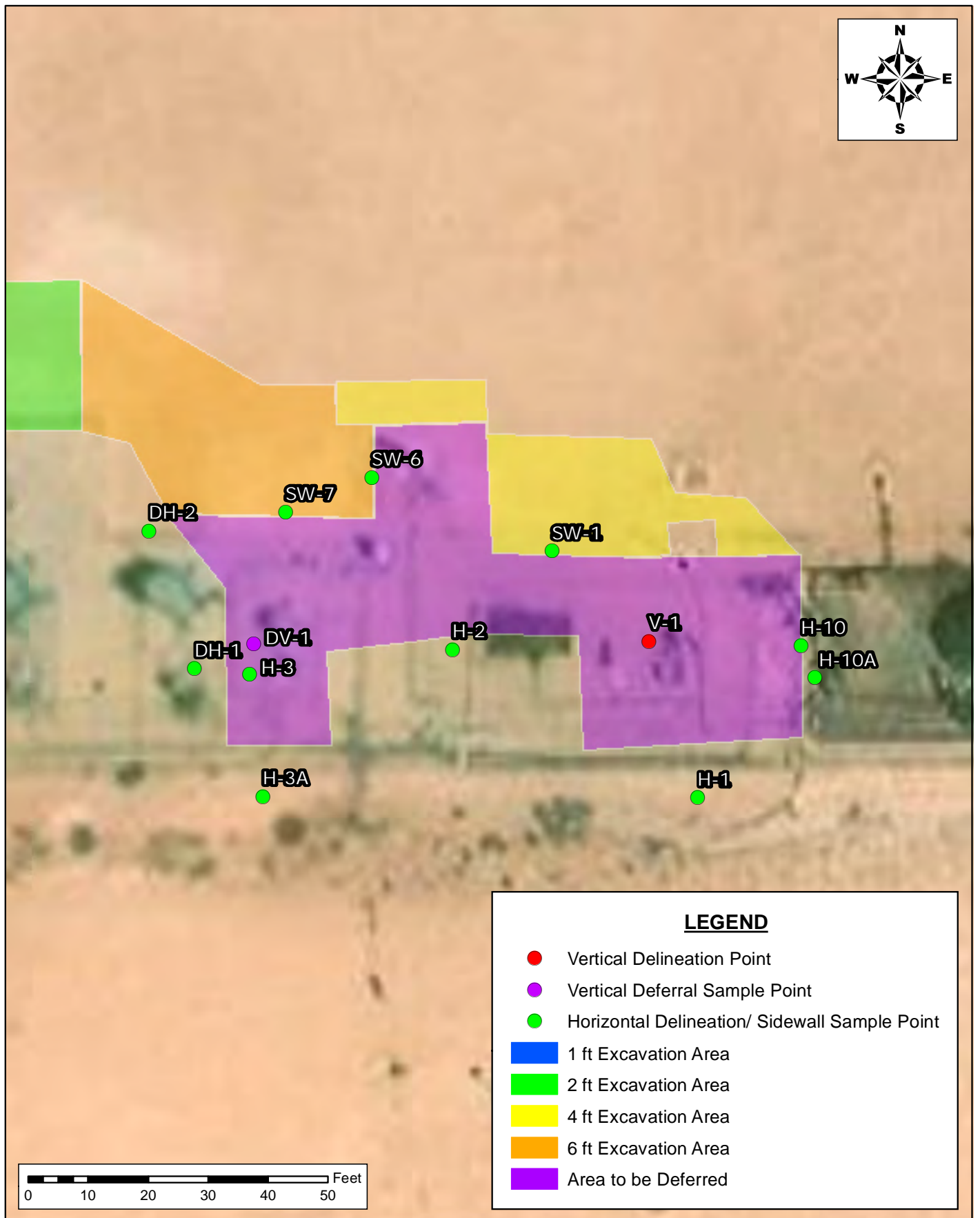
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FIGURE 4

SHEET NUMBER:

1 of 1

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DEFERRAL SAMPLING MAP
SITE CHARACTERIZATION AND DEFERRAL REQUEST
 DEVON ENERGY PRODUCTION CORPORATION
 ARCTURUS 18 FED 1 AND 2 BATTERY
 EDDY COUNTY, NEW MEXICO

SCALE: As Shown

Date: 2/3/2025

PROJECT #: 249148



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

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

DRAWING NUMBER:

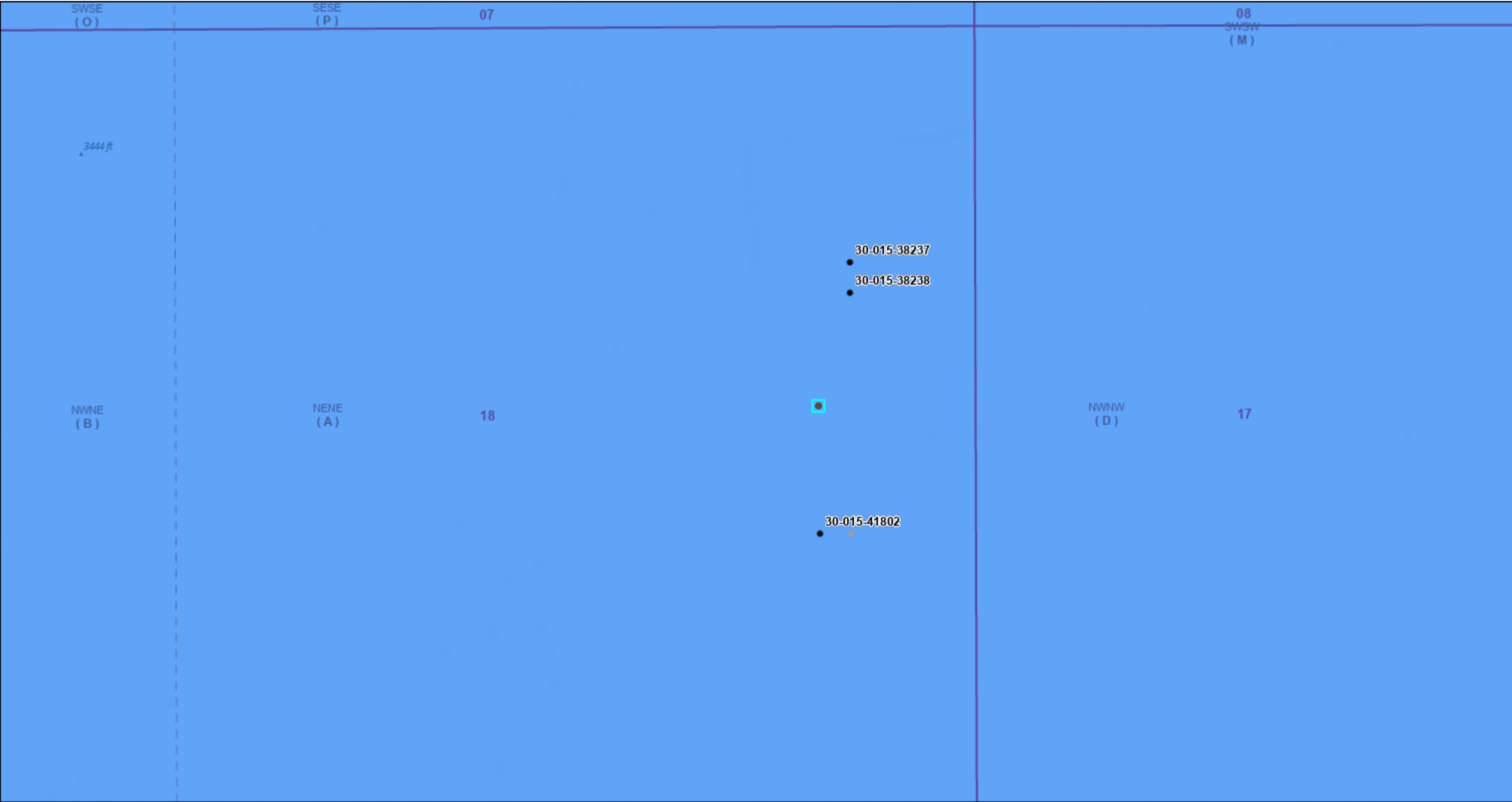
FIGURE 5

SHEET NUMBER:

1 of 1

SITE CHARACTERIZATION INFORMATION

Karst Potential Map

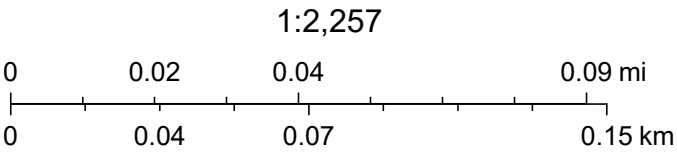


9/25/2024, 2:29:55 PM

Wells - Large Scale Karst Occurrence Potential PLSS First Division

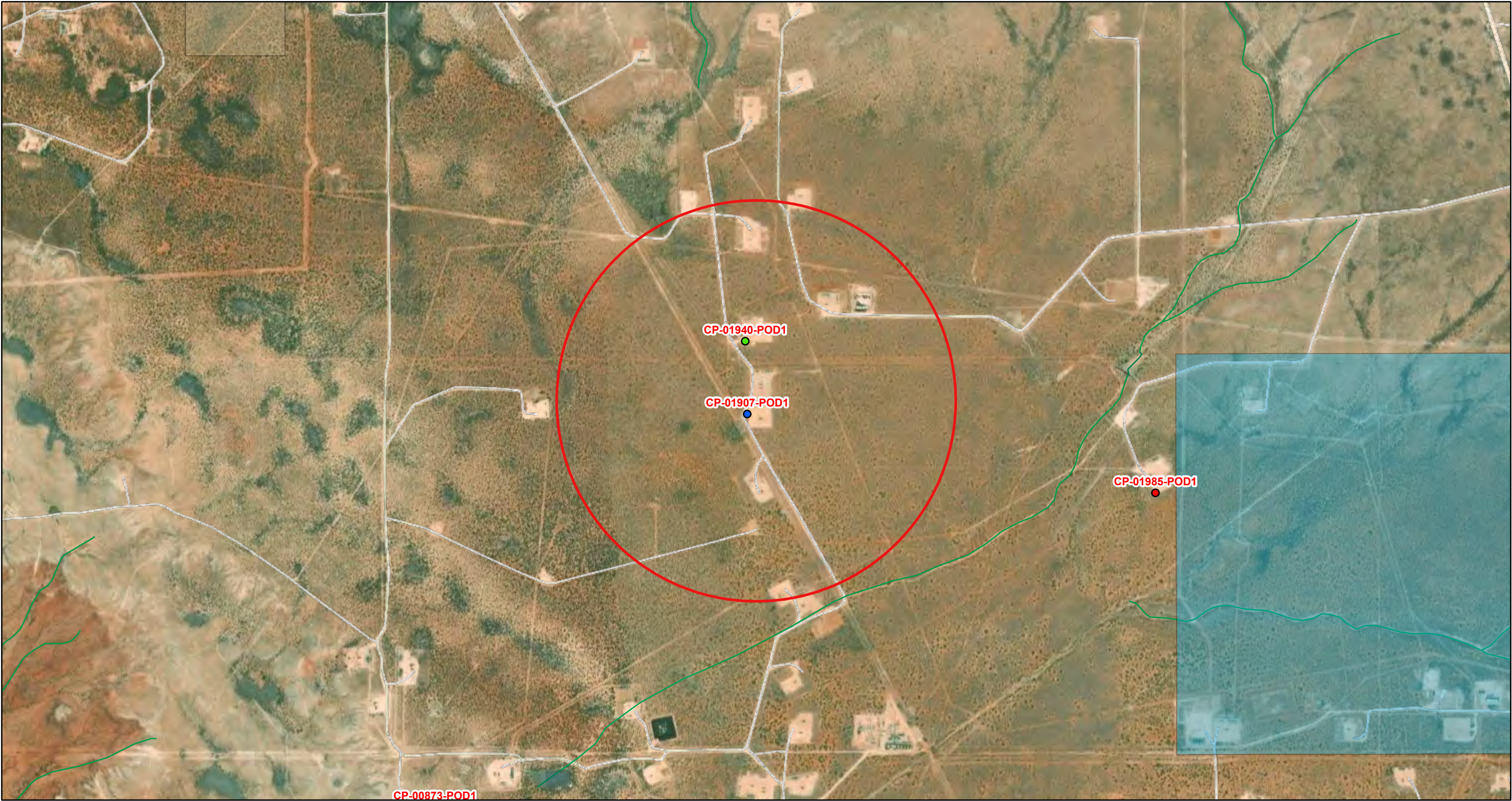
• Oil, Active Medium

• Oil, Cancelled PLSS Second Division



BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA,

OSE POD Location Map



9/25/2024, 2:35:43 PM

- Override 1

GIS WATERS PODs

Active

Pending
- Plugged

OSE District Boundary

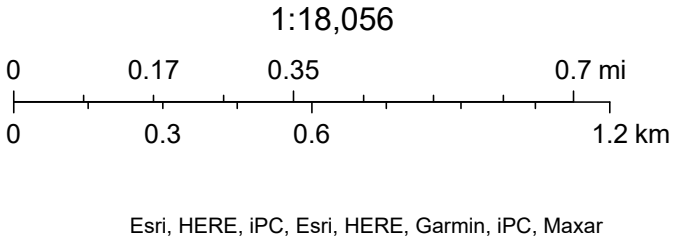
New Mexico State Trust Lands

Subsurface Estate
- Both Estates

NHD Flowlines

Artificial Path

Connector
- Stream River





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). CP-1907			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 39	SECONDS 55.76 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	54	4.95 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NE NE Sec.18 T19S R31S NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 7/13/2022		DRILLING ENDED 7/13/2022		DEPTH OF COMPLETED WELL (FT) Temporary Well		BORE HOLE DEPTH (FT) ±55	
					DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
						DATE STATIC MEASURED 7/13/2022, 7/1/2022		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	55	±6.5	Boring-HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. CP-1907-POD1 TW-1	POD NO. 1	TRN NO. 726167
LOCATION 19.31.18.422	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

5. TEST: RIG SUPERVISION

5. SIGNATURE

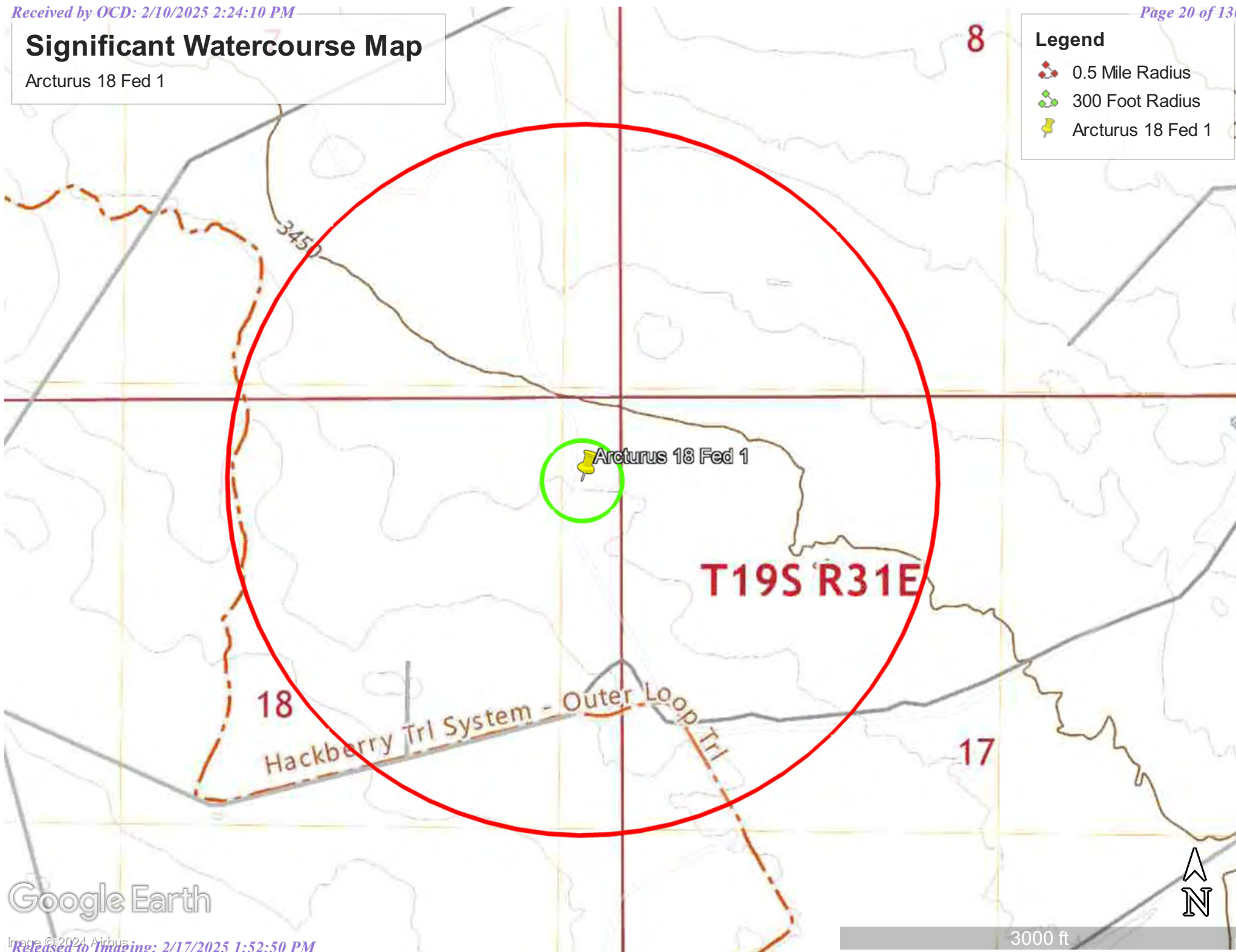
FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO.	CP-1907-P001 TW-1	POD NO.	1
LOCATION	19.31.18.422	TRN NO.	726167
		WELL TAG ID NO.	
		PAGE 2 OF 2	

Significant Watercourse Map

Arcturus 18 Fed 1

Legend

- 0.5 Mile Radius
- 300 Foot Radius
- Arcturus 18 Fed 1



Google Earth

National Flood Hazard Layer FIRMette



103°54'22"W 32°40'13"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°53'45"W 32°39'42"N

Released to Imaging: 2/17/2025 1:32:50 PM

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

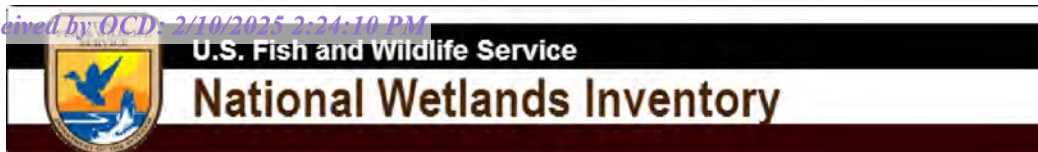


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 9/25/2024 at 4:32 PM 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.



Wetlands Map



September 25, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- 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.

PHOTOGRAPHIC LOG

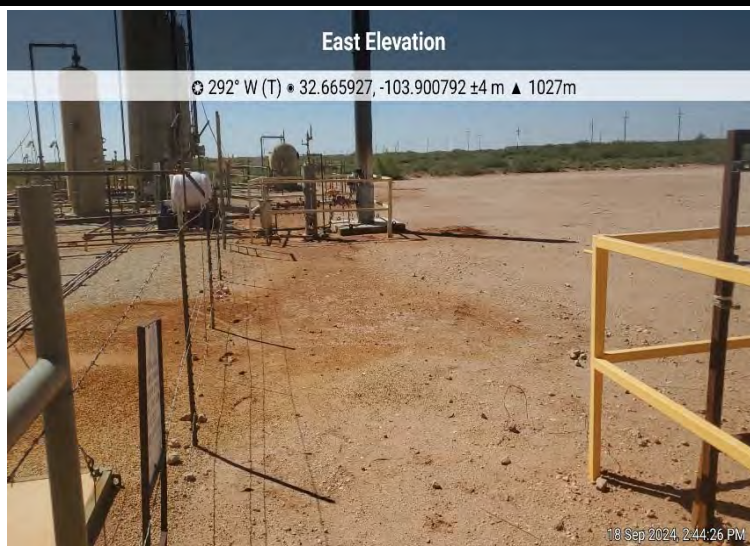
PHOTOGRAPHIC LOG
Devon Energy Production Company, LP
Arcturus 18 Fed 1 and 2 Battery

Photograph No. 1

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

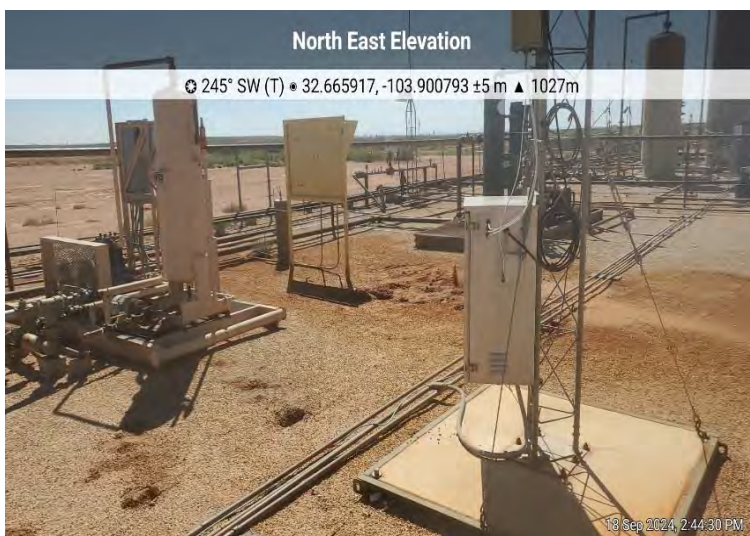
Description:
Area of concern

**Photograph No. 2**

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

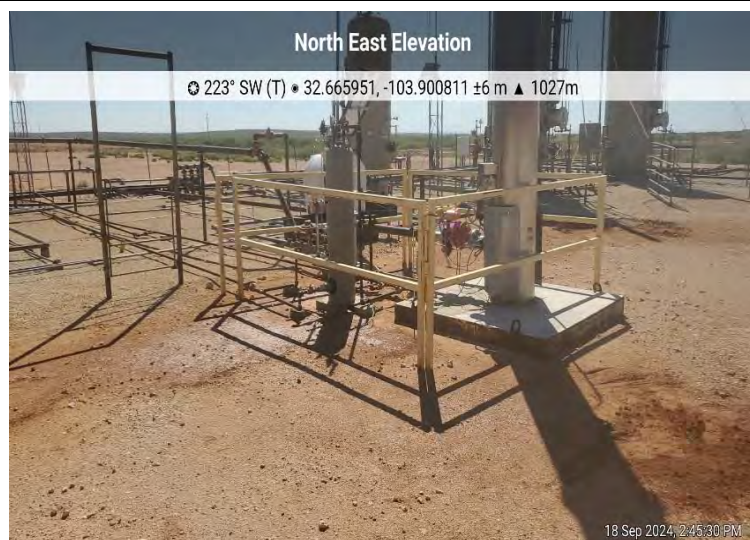
Description:
Area of concern

**Photograph No. 3**

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern



PHOTOGRAPHIC LOG
Devon Energy Production Company, LP
Arcturus 18 Fed 1 and 2 Battery

Photograph No. 4

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern

**Photograph No. 5**

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern

**Photograph No. 6**

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern



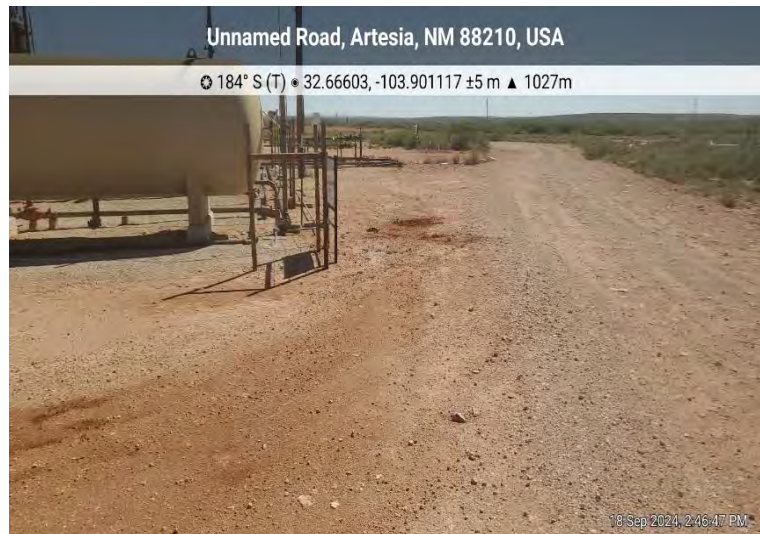
PHOTOGRAPHIC LOG
Devon Energy Production Company, LP
Arcturus 18 Fed 1 and 2 Battery

Photograph No. 7

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern

**Photograph No. 8**

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern

**Photograph No. 9**

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern



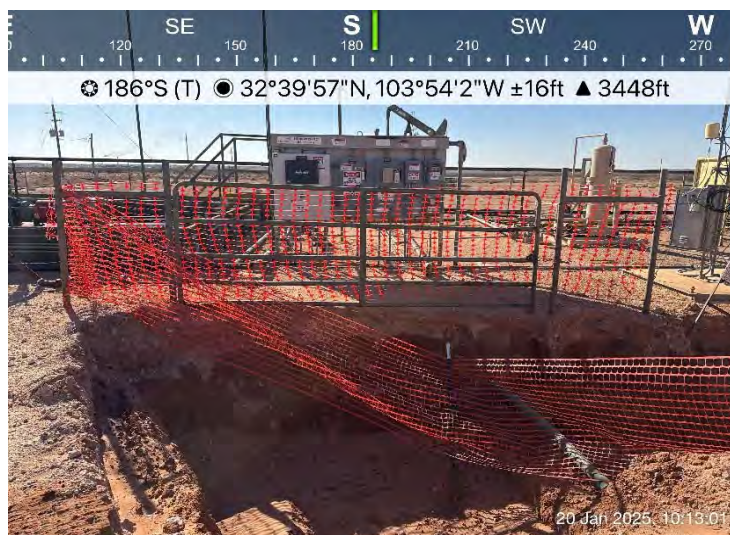
PHOTOGRAPHIC LOG
Devon Energy Production Company, LP
Arcturus 18 Fed 1 and 2 Battery

Photograph No. 10

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
View of Excavation

**Photograph No. 11**

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
View of Excavation

**Photograph No. 12**

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
View of Excavation



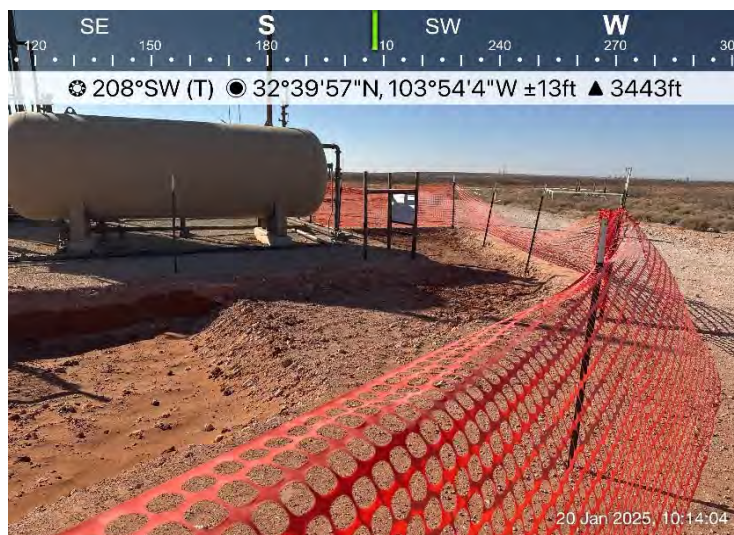
PHOTOGRAPHIC LOG
Devon Energy Production Company, LP
Arcturus 18 Fed 1 and 2 Battery

Photograph No. 13

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

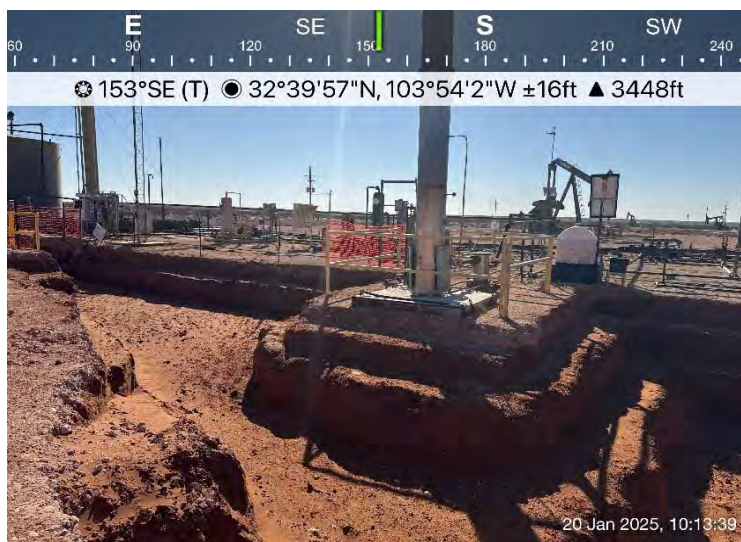
Description:
View of Excavation

**Photograph No. 14**

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
View of Excavation

**Photograph No. 15**

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
View of Excavation



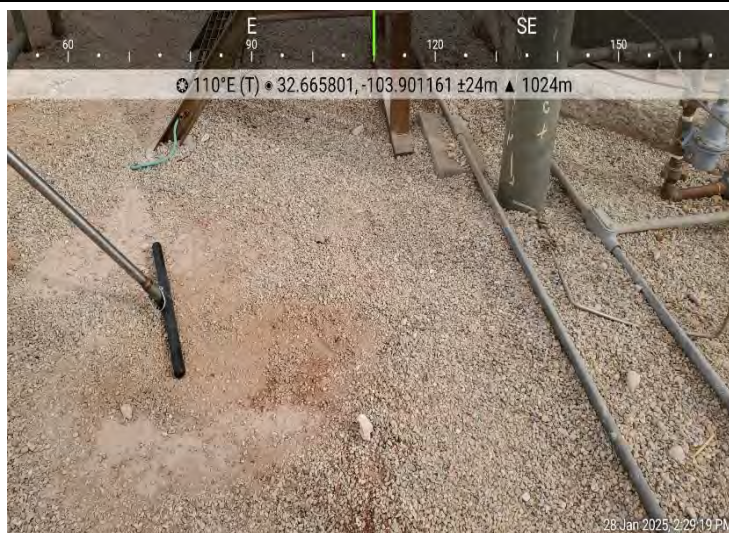
PHOTOGRAPHIC LOG
Devon Energy Production Company, LP
Arcturus 18 Fed 1 and 2 Battery

Photograph No. 16

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
View of Deferral Sampling

**Photograph No. 17**

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
View of Deferral Sampling

**Photograph No. 18**

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
View of backfilled excavation



LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



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

September 24, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ARCTURUS 18 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 09/18/24 16:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 1 0-.5 (H245693-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.16	108	2.00	0.377		
Toluene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	0.262		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.28	114	2.00	0.403		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.89	115	6.00	0.375		
Total BTEx	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	09/19/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for 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 thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 1 1' (H245693-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158		
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6930	16.0	09/19/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 1 2' (H245693-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158	
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891	
Total BTX	<0.300	0.300	09/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5000	16.0	09/19/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 1 3' (H245693-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158		
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2560	16.0	09/19/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 1 4' (H245693-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158	
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891	
Total BTEX	<0.300	0.300	09/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/19/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 2 0-5 (H245693-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158	
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891	
Total BTEX	<0.300	0.300	09/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10000	16.0	09/19/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	169	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	27.5	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 2 1' (H245693-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158	
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891	
Total BTEx	<0.300	0.300	09/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8400	16.0	09/19/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 2 2' (H245693-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158	
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891	
Total BTEx	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8530	16.0	09/19/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 2 3' (H245693-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158		
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4800	16.0	09/20/2024	ND	416	104	400	0.00	QM-07	

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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 2 4' (H245693-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158	
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891	
Total BTEx	<0.300	0.300	09/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 3 0-.5 (H245693-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158		
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5360	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 3 1' (H245693-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158	
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891	
Total BTEX	<0.300	0.300	09/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8240	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 3 2' (H245693-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158		
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10000	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 3 3' (H245693-14)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158	
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891	
Total BTEx	<0.300	0.300	09/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10400	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 3 4' (H245693-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158		
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8400	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 3 5' (H245693-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158	
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891	
Total BTEx	<0.300	0.300	09/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 3 6' (H245693-17)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158	
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891	
Total BTX	<0.300	0.300	09/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 4 0-5 (H245693-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158	
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891	
Total BTEX	<0.300	0.300	09/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12700	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 4 1' (H245693-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158	
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891	
Total BTEX	<0.300	0.300	09/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5860	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 4 2' (H245693-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158	
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891	
Total BTEX	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	211	106	200	1.07	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	203	102	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 5 0-.5 (H245693-21)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.12	106	2.00	0.158		
Toluene*	<0.050	0.050	09/20/2024	ND	1.97	98.5	2.00	0.218		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	1.99	99.4	2.00	0.0168		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	5.90	98.4	6.00	0.0891		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8530	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	213	106	200	5.77	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	206	103	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 5 1' (H245693-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.35	118	2.00	0.452		
Toluene*	<0.050	0.050	09/20/2024	ND	2.42	121	2.00	2.91		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.59	130	2.00	4.51		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.82	130	6.00	5.90		
Total BTEx	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	213	106	200	5.77	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	206	103	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 1 0-.5 (H245693-23)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.35	118	2.00	0.452		
Toluene*	<0.050	0.050	09/20/2024	ND	2.42	121	2.00	2.91		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.59	130	2.00	4.51		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.82	130	6.00	5.90		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	213	106	200	5.77	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	206	103	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 2 0-.5 (H245693-24)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.35	118	2.00	0.452		
Toluene*	<0.050	0.050	09/20/2024	ND	2.42	121	2.00	2.91		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.59	130	2.00	4.51		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.82	130	6.00	5.90		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	213	106	200	5.77	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	206	103	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 3 0-.5 (H245693-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.35	118	2.00	0.452		
Toluene*	<0.050	0.050	09/20/2024	ND	2.42	121	2.00	2.91		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.59	130	2.00	4.51		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.82	130	6.00	5.90		
Total BTEx	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	213	106	200	5.77	
DRO >C10-C28*	179	10.0	09/19/2024	ND	206	103	200	3.89	
EXT DRO >C28-C36	90.4	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 4 0-.5 (H245693-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.35	118	2.00	0.452		
Toluene*	<0.050	0.050	09/20/2024	ND	2.42	121	2.00	2.91		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.59	130	2.00	4.51		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.82	130	6.00	5.90		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	213	106	200	5.77	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	206	103	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 5 0-.5 (H245693-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.35	118	2.00	0.452		
Toluene*	<0.050	0.050	09/20/2024	ND	2.42	121	2.00	2.91		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.59	130	2.00	4.51		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.82	130	6.00	5.90		
Total BTEx	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	213	106	200	5.77	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	206	103	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 6 0-.5 (H245693-28)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.35	118	2.00	0.452		
Toluene*	<0.050	0.050	09/20/2024	ND	2.42	121	2.00	2.91		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.59	130	2.00	4.51		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.82	130	6.00	5.90		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/20/2024	ND	416	104	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	09/19/2024	ND	213	106	200	5.77	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	206	103	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 7 0-.5 (H245693-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.35	118	2.00	0.452		
Toluene*	<0.050	0.050	09/20/2024	ND	2.42	121	2.00	2.91		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.59	130	2.00	4.51		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.82	130	6.00	5.90		
Total BTEx	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/19/2024	ND	416	104	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	09/19/2024	ND	213	106	200	5.77	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	206	103	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 8 0-.5 (H245693-30)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.35	118	2.00	0.452		
Toluene*	<0.050	0.050	09/20/2024	ND	2.42	121	2.00	2.91		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.59	130	2.00	4.51		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.82	130	6.00	5.90		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	09/19/2024	ND	416	104	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	09/19/2024	ND	213	106	200	5.77	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	206	103	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 9 0-.5 (H245693-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.35	118	2.00	0.452		
Toluene*	<0.050	0.050	09/20/2024	ND	2.42	121	2.00	2.91		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.59	130	2.00	4.51		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.82	130	6.00	5.90		
Total BTEx	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	09/19/2024	ND	416	104	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	09/19/2024	ND	213	106	200	5.77	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	206	103	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 10 0-5 (H245693-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.35	118	2.00	0.452		
Toluene*	<0.050	0.050	09/20/2024	ND	2.42	121	2.00	2.91		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.59	130	2.00	4.51		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.82	130	6.00	5.90		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10400	16.0	09/19/2024	ND	416	104	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	09/19/2024	ND	213	106	200	5.77	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	206	103	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

**BILL TO**

ANALYSIS REQUEST

Page 35 of 38

CARDINAL Laboratories

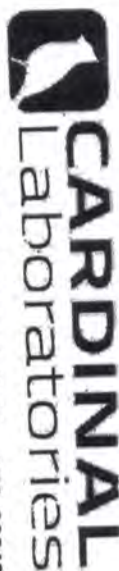
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>UTLCE</u>		P.O. #: <u>21411701</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Steven Seamus</u>		Company:					
Address: <u>709 W McLean St</u>		Attn:					
City: <u>Carrizosa</u>		Address:					
State: <u>NM</u> Zip: <u>88220</u>		City:					
Phone #: <u>505 246 5456</u> Fax #:		State:					
Project #: <u>249148</u>		Zip:					
Project Name: <u>Arcturus 18 Fed 1</u>		Phone #:					
Project Location: <u>Lea County</u>		Fax #:					
Sample Name: <u>249148 Well</u>		PRESERV.		SAMPLING			
FOR LAB USE ONLY							
Lab I.D.		Sample I.D.					
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for this service. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of this applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>		<p>(G)RAB OR (C)OMP.</p> <p># CONTAINERS</p> <p>GROUNDWATER</p> <p>WASTEWATER</p> <p>SOIL</p> <p>OIL</p> <p>SLUDGE</p> <p>OTHER:</p> <p>ACID/BASE:</p> <p>ICE / COOL</p> <p>OTHER:</p>		DATE		TIME	
<p>Relinquished By: <u>[Signature]</u></p> <p>Date: <u>6-18-24</u></p> <p>Time: <u>4:30</u></p>		<p>Received By: <u>[Signature]</u></p> <p>Date: <u>6-18-24</u></p> <p>Time: <u>4:30</u></p>		<p>Turnaround Time: <u>9-18 10:30</u></p>		<p>Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:</p> <p>All Results are emailed. Please provide Email address:</p>	
<p>Delivered By: (Circle One)</p> <p>Sampler - UPS - Bus - Other:</p>		<p>Observed Temp. °C: <u>50.2</u></p> <p>Corrected Temp. °C: <u>44.4</u></p>		<p>Sample Condition</p> <p>Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Sample Condition (Initials): <u>SR</u></p>		<p>Standard <input type="checkbox"/> Bacteria (only) Sample Condition</p> <p>Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Observed Temp. °C: <u>50.2</u></p> <p>Corrected Temp. °C: <u>44.4</u></p>	
<p>Relinquished By: <u>[Signature]</u></p> <p>Date: <u>6-18-24</u></p> <p>Time: <u>4:30</u></p>		<p>Received By: <u>[Signature]</u></p> <p>Date: <u>6-18-24</u></p> <p>Time: <u>4:30</u></p>		<p>Turnaround Time: <u>9-18 10:30</u></p>		<p>Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:</p> <p>All Results are emailed. Please provide Email address:</p>	
<p>Relinquished By: <u>[Signature]</u></p> <p>Date: <u>6-18-24</u></p> <p>Time: <u>4:30</u></p>		<p>Received By: <u>[Signature]</u></p> <p>Date: <u>6-18-24</u></p> <p>Time: <u>4:30</u></p>		<p>Turnaround Time: <u>9-18 10:30</u></p>		<p>Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:</p> <p>All Results are emailed. Please provide Email address:</p>	

Form 006 Rev 06/07/24

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

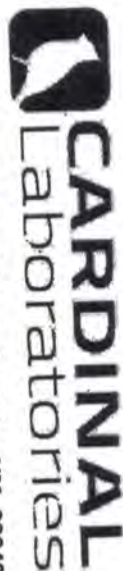


101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>VTLC</u>		P.O. #: <u>7141701</u>		BILL TO		ANALYSIS REQUEST											
Project Manager: <u>Steven Seburns</u>		Company:															
Address: <u>209 W McLean St</u>		Attn:															
City: <u>Carlsbad</u>		Address:															
State: <u>NM</u> Zip: <u>88220</u>		City:															
Phone #: <u>505 246 5456</u> Fax #:		State:															
Project #: <u>249148</u>		Zip:															
Project Name: <u>Arcturus 18 Fed 1</u>		Phone #:															
Project Location: <u>Lea County</u>		Fax #:															
Sampler Name: <u>Wayne Umckell</u>		PRESERV		SAMPLING													
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME			
<u>H45403</u>	<u>V-5 0-5</u>	<u>6</u>	<u>1</u>			<u>X</u>							<u>9-18</u>	<u>9:50</u>			
<u>31</u>	<u>V-5 1</u>																
<u>32</u>	<u>H-1 0-5</u>																
<u>33</u>	<u>H-2 0-5</u>																
<u>34</u>	<u>H-3 0-5</u>																
<u>35</u>	<u>H-4 0-5</u>																
<u>36</u>	<u>H-5 0-5</u>																
<u>37</u>	<u>H-6 0-5</u>																
<u>38</u>	<u>H-7 0-5</u>																
<u>39</u>	<u>H-8 0-5</u>																
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether before or after, shall be limited to the amount paid by the client for the service. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																	
Relinquished By: <u>[Signature]</u>		Date: <u>9-18-24</u>		Received By: <u>Stocking</u>		Time: <u>11:30</u>		Remarks:									
Delivered By: (Circle One)		Observed Temp. °C: <u>5.0</u>		Sample Condition		CHECKED BY: <u>[Signature]</u>		Turnaround Time:		Standard		Bacteria (only)		Sample Condition			
Sampler - UPS - Bus - Other:		Corrected Temp. °C: <u>4.4</u>		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Thermometer ID #140		Rush <input type="checkbox"/>		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C			
								Correction Factor -0.5°C									

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: NTEC
Project Manager: Ethan Seaburns
Address: 709 W McLean St
City: Carrizosa State: NM Zip: 88026
Phone #: 505 246 5456 Fax #:
Project #: 249148 Project Owner: Deion
Project Name: Arcadium 18 Fed L
Project Location: Lea County
Sampler Name: Calvin Adamec
FOR LAB USE ONLY

P.O. #:	Company:	Attn:	Address:	City:	State:	Zip:	Phone #:	Fax #:
<u>219117A1</u>								

MATRIX	PRESERV.	SAMPLING
(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		

DATE	TIME
<u>9-18</u>	<u>10:00</u>

TpH	Chlorides	BTEx
<u>1</u>	<u>1</u>	<u>1</u>

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Relinquished By: _____
Received By: _____
Date: 9-18-24
Time: 4:30
Date: _____
Time: _____
Received By: _____

Delivered By: (Circle One)
Observed Temp. °C: 5.0°C
Corrected Temp. °C: 4.4°C
Sample Condition: Cool Intact Yes [x] No []
CHECKED BY: [Signature]
Tumaround Time: _____ Standard Rush [] Bacteria (only) Sample Condition Observed Temp. °C Corrected Temp. °C

Verbal Result: Yes [] No [] Add'l Phone #: _____
All Results are emailed. Please provide Email address: _____

REMARKS: _____

* Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com



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

October 03, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ARCTURUS 18 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 09/27/24 11:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/27/2024
 Reported: 10/03/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -EDDY COUNTY, NM

Sampling Date: 09/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 3A 0-6" (H245894-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2024	ND	1.98	98.8	2.00	3.56		
Toluene*	<0.050	0.050	09/30/2024	ND	2.09	105	2.00	4.00		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.23	111	2.00	7.17		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.73	112	6.00	9.05		
Total BTEX	<0.300	0.300	09/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2024	ND	416	104	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	09/30/2024	ND	180	90.0	200	0.397	
DRO >C10-C28*	<10.0	10.0	09/30/2024	ND	187	93.6	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	09/30/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/27/2024
 Reported: 10/03/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -EDDY COUNTY, NM

Sampling Date: 09/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 10A 0-6" (H245894-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2024	ND	1.98	98.8	2.00	3.56	
Toluene*	<0.050	0.050	09/30/2024	ND	2.09	105	2.00	4.00	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.23	111	2.00	7.17	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.73	112	6.00	9.05	
Total BTX	<0.300	0.300	09/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/30/2024	ND	416	104	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	09/30/2024	ND	180	90.0	200	0.397	
DRO >C10-C28*	<10.0	10.0	09/30/2024	ND	187	93.6	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	09/30/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: H245894

Page 5 of 5

[illegible]



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

January 22, 2025

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ARCTURUS 18 FED 1 & 2 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/20/25 14:03.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS - 1 (H250327-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27	
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40	
Total BTEX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

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	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 2 (H250327-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

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	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 3 (H250327-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEx	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-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	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS - 4 (H250327-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEx	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-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	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 5 (H250327-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEx	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 6 (H250327-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 7 (H250327-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 8 (H250327-08)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS - 9 (H250327-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 10 (H250327-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 11 (H250327-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS - 12 (H250327-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS - 13 (H250327-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS - 14 (H250327-14)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27	
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40	
Total BTX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 15 (H250327-15)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS - 16 (H250327-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEx	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS - 17 (H250327-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27	
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40	
Total BTEx	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 18 (H250327-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEx	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/21/2025	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS - 19 (H250327-19)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52	
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74	
Total BTX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/21/2025	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	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 1 (H250327-20)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52	
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74	
Total BTX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/21/2025	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	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 2 (H250327-21)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52	
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74	
Total BTX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/21/2025	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	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 3 (H250327-22)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52	
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74	
Total BTEx	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/21/2025	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	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 4 (H250327-23)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52	
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74	
Total BTX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/21/2025	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	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

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Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 5 (H250327-24)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52	
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74	
Total BTX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/21/2025	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	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 6 (H250327-25)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52	
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74	
Total BTX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 7 (H250327-26)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52	
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74	
Total BTX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500CI-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	01/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 8 (H250327-27)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52	
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74	
Total BTX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

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	01/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 9 (H250327-28)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52	
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74	
Total BTEx	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 10 (H250327-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTEX	<0.300	0.300	01/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 11 (H250327-30)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

Chloride, SM4500CI-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	01/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 12 (H250327-31)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500CI-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	01/21/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 13 (H250327-32)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500CI-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	01/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/20/2025
 Reported: 01/22/2025
 Project Name: ARCTURUS 18 FED 1 & 2 BATTERY
 Project Number: 249148
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 01/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 14 (H250327-33)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52	
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74	
Total BTX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

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	01/21/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 15 (H250327-34)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500CI-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	01/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTGE		BILL TO		ANALYSIS REQUEST																																	
Project Manager: Elham Rezzou		P.O. #: 21411701																																			
Address: 204 W. McKinley St		Company: Beuron																																			
City: Gettysburg		Attn: Jim Bailey																																			
State: NM Zip: 88220		Address:																																			
Phone #: 432-701-2154 Fax #:		City:																																			
Project #: 2141148 Project Owner: Beuron		State:																																			
Project Name: Archives 18 Feb 1 & 2 Battery		Zip:																																			
Project Location: Feddy Co, NM		Phone #:																																			
Sample Name: Kenny Huan		Fax #:																																			
FOR LAB USE ONLY		PRESERV.		SAMPLING																																	
Lab I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME											
Sample I.D.																																					
HA50327		CS-1		1																				1/20/25													
CS-2		1																																			
CS-3		1																																			
CS-4		1																																			
CS-5		1																																			
CS-6		1																																			
CS-7		1																																			
CS-8		1																																			
CS-9		1																																			
CS-10		1																																			

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Relinquished By: [Signature]	Date: 1/20/25	Received By: [Signature]	Time: 1403	Remarks: [Blank]
Relinquished By: [Blank]	Date: [Blank]	Received By: [Blank]	Time: [Blank]	Remarks: [Blank]

Delivered By: (Circle One)	Observed Temp. °C	Corrected Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	08.2	0.2	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	[Signature]	4 hr	Rush	<input checked="" type="checkbox"/>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>UTG</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Ethan Searns</u>		P.O. #: <u>21411701</u>			
Address: <u>209 W Mickey St</u>		Company: <u>Bevon</u>			
City: <u>Carlsbad</u>		Attn: <u>Jim Raley</u>			
State: <u>NM</u> Zip: <u>88220</u>		Address:			
Phone #: <u>432-201-2159</u> Fax #: _____		City:			
Project #: <u>244148</u> Project Owner: <u>Bevon</u>		State:			
Project Name: <u>Archaeus 18 Rd I & 2 Bldg</u>		Zip:			
Project Location: <u>Eddy Co, New Mexico</u>		Phone #:			
Sampler Name: <u>Vanny Han</u>		Fax #:			
FOR LAB USE ONLY		PRESERV		SAMPLING	
Lab I.D.		Sample I.D.			
		(G)RAB OR (C)OMP.			
		# CONTAINERS			
		GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER :			
		ACID/BASE:			
		ICE / COOL			
		OTHER :			
		DATE		TIME	
11353327		1/20/25		BTEX	
11		CS-11		TPH	
12		CS-12		Chloride	
13		CS-13			
14		CS-14			
15		CS-15			
16		CS-16			
17		CS-17			
18		CS-18			
19		CS-19			
20		CS-20			
Relinquished By: <u>WV</u>		Date: <u>1/20/25</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By: <u>WV</u>		Date: <u>1/20/25</u>		All Results are emailed. Please provide Email address:	
Delivered By: (Circle One)		Observed Temp. °C		Turnaround Time:	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/>	
FORM 0001-03-000001-24		Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com		Thermometer ID #140 <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C	
				Correction Factor -0.5°C <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Corrected Temp. °C	



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>UTC-E</u>		BILL TO		ANALYSIS REQUEST																																	
Project Manager: <u>Ethan Besums</u>		P.O. #: <u>21411701</u>																																			
Address: <u>809 W. McKinley St</u>		Company: <u>Devon</u>																																			
City: <u>Carlsbad</u>		Attn: <u>Jim Bailey</u>																																			
State: <u>NM</u> ZIP: <u>86220</u>		Address:																																			
Phone #: <u>505-201-2154</u> Fax #:		City:																																			
Project #: <u>249148</u> Project Owner: <u>Devon</u>		State:																																			
Project Name: <u>Archives 18 Feb 1 & 2 Battery</u>		Zip:																																			
Project Location: <u>Eddy Co, New Mexico</u>		Phone #:																																			
Sample Name: <u>Leaky Her</u>		Fax #:																																			
FOR LAB USE ONLY		PRESERV		SAMPLING																																	
Lab I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME											
Sample I.D.																																					
<u>11850307</u>		<u>SW-12</u>		<u>1</u>		<u>X</u>		<u>575/211/101</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>											
<u>SW-13</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>											
<u>SW-14</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>											
<u>SW-15</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>											



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

February 03, 2025

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ARCTURUS 18 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 01/28/25 15:57.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/28/2025
 Reported: 02/03/2025
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -EDDY COUNTY, NM

Sampling Date: 01/28/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DV - 1 0-6" (H250513-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2025	ND	1.94	97.2	2.00	8.42		
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11		
Total BTEx	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/30/2025	ND	400	100	400	3.92	

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	01/30/2025	ND	191	95.6	200	3.56	
DRO >C10-C28*	117	10.0	01/30/2025	ND	194	97.1	200	4.43	
EXT DRO >C28-C36	65.1	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/28/2025
 Reported: 02/03/2025
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -EDDY COUNTY, NM

Sampling Date: 01/28/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DV - 1 1-1.5' (H250513-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2025	ND	1.94	97.2	2.00	8.42		
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11		
Total BTEX	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/30/2025	ND	400	100	400	3.92		

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	01/30/2025	ND	191	95.6	200	3.56	
DRO >C10-C28*	156	10.0	01/30/2025	ND	194	97.1	200	4.43	
EXT DRO >C28-C36	92.1	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/28/2025
 Reported: 02/03/2025
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -EDDY COUNTY, NM

Sampling Date: 01/28/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DV - 1 2-2.5' (H250513-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2025	ND	1.94	97.2	2.00	8.42		
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11		
Total BTEx	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

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	01/30/2025	ND	400	100	400	3.92		

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	01/30/2025	ND	191	95.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	194	97.1	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Analytical Results For:

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

Received: 01/28/2025
 Reported: 02/03/2025
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -EDDY COUNTY, NM

Sampling Date: 01/28/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DV - 1 3-3.5' (H250513-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2025	ND	1.94	97.2	2.00	8.42		
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11		
Total BTEx	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

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	01/30/2025	ND	400	100	400	3.92		

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	01/30/2025	ND	191	95.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	194	97.1	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/28/2025
 Reported: 02/03/2025
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -EDDY COUNTY, NM

Sampling Date: 01/28/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DV - 1 4-4.5' (H250513-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2025	ND	1.94	97.2	2.00	8.42		
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11		
Total BTEx	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

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	01/30/2025	ND	400	100	400	3.92	

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	01/30/2025	ND	191	95.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	194	97.1	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received: 01/28/2025
 Reported: 02/03/2025
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -EDDY COUNTY, NM

Sampling Date: 01/28/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DH - 1 0-6" (H250513-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2025	ND	1.94	97.2	2.00	8.42		
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11		
Total BTEX	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/30/2025	ND	400	100	400	3.92		

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	01/30/2025	ND	191	95.6	200	3.56	
DRO >C10-C28*	25.5	10.0	01/30/2025	ND	194	97.1	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Analytical Results For:

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

Received: 01/28/2025
 Reported: 02/03/2025
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -EDDY COUNTY, NM

Sampling Date: 01/28/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DH - 2 0-6" (H250513-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2025	ND	1.94	97.2	2.00	8.42		
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11		
Total BTEx	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/30/2025	ND	400	100	400	3.92		

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	01/30/2025	ND	191	95.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	194	97.1	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

[illegible]

Relinquished By:	Date:	Received By:
------------------	-------	--------------

Relinquished By:	Time:	1/28/25
	Date:	1/31/25
	Received By:	ADPAC

Received By: AP Davis

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address.

Delivered By: (Circle One)

Observed Temp. °C

Sample Condition

CHECKED

Turnaround Time:

Standard
Plus

Bacteria (only Cool intact

Observed Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

☒ Yes ☒ Yes

3

Thermometer ID #140
Correction Factor -0.6°C

<input type="checkbox"/>	Yes	<input type="checkbox"/>	Yes
<input type="checkbox"/>	No	<input type="checkbox"/>	No

Connected Tapes 00

TORONTO-008 N.C.J. 96109/24-

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

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 430167

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 430167
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2426141700
Incident Name	NAPP2426141700 ARCTURUS 18 FED 1 & 2 BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2129453521] ARCTURUS 18 FED 1&2 BATTERY

Location of Release Source

Please answer all the questions in this group.

Site Name	ARCTURUS 18 FED 1 & 2 BATTERY
Date Release Discovered	09/16/2024
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 10 BBL Recovered: 5 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	found a leak coming from a water line coming from a treater to the water tanks. 9.7 bbls spilled onto pad. 5 bbls recovered.

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 430167

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 430167
	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	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 02/10/2025
--	--

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

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Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 430167

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number: 430167
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**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 and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 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	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	12700
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	269
GRO+DRO (EPA SW-846 Method 8015M)	179
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	10/21/2024
On what date will (or did) the final sampling or liner inspection occur	11/11/2024
On what date will (or was) the remediation complete(d)	02/02/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	3431
What is the estimated volume (in cubic yards) that will be remediated	476

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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QUESTIONS, Page 4

Action 430167

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 430167
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 10/23/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 430167

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 430167
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
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 equipment would cause major facility deconstruction	Impacted area is abutted to central tank batteries, and under multiple production flow lines and one heater treater
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	2921
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	432
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	ARCTURUS 18 FED 1&2 BATTERY [fAPP2129453521]
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
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 02/10/2025

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QUESTIONS, Page 6

Action 430167

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 430167
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	421280
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/20/2025
What was the (estimated) number of samples that were to be gathered	25
What was the sampling surface area in square feet	3400

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 430167

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 430167
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Devon's deferral requests final remediation for (Incident Number NAPP2426141700) until final reclamation of the well pad or major construction, whichever comes first. NTG and Devon do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the area in purple on figure 5 that is limited to the area in and around flowlines, tank battery, heater treater, and pump unit, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record. The release will remain open in OCD database files and reflect an open environmental issue.	2/17/2025