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November 10, 2025

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

**Re: Incident Closure Report
Devon Energy Production Company
Thistle Unit #18H
Unit C, Section 28, Township 23S, Range 33E
Site Coordinates: 32.282723, -103.581527
Lea County, New Mexico
Incident ID: nRM2008553248**

Introduction

NTG Environmental, LLC (NTGE), on behalf of Devon Energy Production Company (Devon), submits this Incident Closure Report to the New Mexico Oil Conservation Division (NMOCD). This report provides documentation on initial soil delineation, sampling analysis, and remediation activities conducted to date in the affected areas at the (Site). The Site is in Unit Letter C, Section 28, of Township 23 South and Range 33 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.282723° N Latitude and -103.581527° 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 initial C-141 submitted by Devon and obtained by the New Mexico Oil Conservation District (NMOCD), the release was discovered on March 19, 2020. The release was the result of an equipment failure, resulting in the release of fifty-three (53) barrels (bbls) of crude oil, of which forty (40) bbls were recovered, for a net loss of thirteen (13) bbls. Upon discovery the well was shut-in, and the area was secure. The release area is shown on Figure 3.

Groundwater and Site Characterization

On May 29, 2025, H&R Enterprises, LLC (H&R) installed a temporary well (C-04963) to determine the depth to groundwater. The well was left open for a minimum of 72 hours. On June 5, 2025, NTGE utilized a water probe to determine the presence or absence of

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groundwater. Groundwater was detected at 70 feet below ground surface (ft bgs), and the temporary well was plugged and abandoned. The well is approximately 0.75 miles from the site, the NMOCD approved a variance for this well to be utilized. Additionally, the location of the temporary well is approximately fifteen (15) ft higher in elevation, making the depth to groundwater at the Site 55 ft bgs. NMOCD variance approval is attached to the report under the site characterization documentation portion of this report. 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 Low Karst area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) is 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)
Low 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)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.12 NMAC Table I 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
Notes: --- = not defined					

Site Assessment Activities

On March 26, 2020, Souder, Miller and Associates (SMA) conducted site assessment activities at the site. A total of sixteen sample locations were collected (i.e., SL-1 - SL-16). The samples were taken with a geotechnical hand-auger, to depths up to 1.5 ft bgs (feet below ground surface). The denied SMA report is attached to the end of this report for reference. The SMA report goes into more detail on how the samples were collected.

Excavation, Waste Management, and Confirmation Sampling

Based on the Site assessment activities, Devon proceeded with the remedial action activities at the Site to include the excavation and disposal of impacted soils above NMOCD regulatory limits. The Site was excavated to depths ranging from half a foot (0.5) to one and a half (1.5) ft bgs. Upon completion of the excavation, confirmation samples were collected from the excavation’s sidewalls and base.

On May 6, 2020, SMA collected a total of twenty (20) confirmation samples. Thirteen (13) confirmation samples (i.e., CS-1 – CS-13) were collected from the excavation's base as well as seven (7) confirmation samples (i.e., SW-1 – SW-7) from the excavation's sidewalls. Analytical results of all the confirmation samples were below the NMOCD regulatory limits for all analytes. Confirmation samples were **NOT** collected in accordance with the one sample per 200 square feet (sq ft) guideline established in the NMOCD regulatory criteria. The closure report submitted by SMA was therefore denied.

On September 8, 2025, NTGE requested a 400 sq ft sampling variance, which was approved by the NMOCD on September 9, 2025.

On September 18, 2025, NTG returned to the site to collect adequate confirmation samples to ensure all impacts were properly removed. A total of seventy-four (74) confirmation samples (i.e., CS-1 – CS-74) were collected from the site. Analytical results indicated that all sample concentrations were below Table I Closure Criteria for the Site. The confirmation samples were collected in accordance with the one sample per 400 square feet (sq ft) variance approved by the NMOCD. The sampling variance approved by the NMOCD, and the email correspondence is attached under the site characterization documentation portion of this report.

Confirmation sample locations are shown in Figure 4. All soil samples were analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (EPA method 300.0/SM 4500Cl⁻B). Copies of laboratory analysis and chain-of-custody documentation are attached. The analytical results are summarized in Table 2.

Closure Request

Based on the assessment and subsequent remedial action activities, the Site is compliant with NMOCD's regulatory requirements. Devon formally requests a closure for the Site (nRM2008553248). If you have any questions regarding this report or need additional information, please contact us at (832) 374-0004.

Sincerely,
NTG Environmental


Kellan Smith
Project Manager

Attachments:

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

NTGE Project No: 2510092



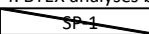
Table

Table 2
Summary of Soil Analytical Data - Confirmation Samples
Thistle Unit #18H
Devon Energy Production Company
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	TPH					Chloride (mg/kg)
								GRO (C6-C-10) (mg/kg)	DRO (C10-C28) (mg/kg)	GRO + DRO (mg/kg)	MRO (C28-C35) (mg/kg)	Total GRO/DRO/MRO (mg/kg)	
								Table I Closure Criteria for Soil >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			
Confirmation Samples													
CS-1	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
CS-2	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-3	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-4	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-5	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-6	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-7	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-8	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	182	182	235	417	<16.0
CS-9	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-10	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-11	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-12	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-13	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-14	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-15	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-16	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-17	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-18	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-19	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-20	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-21	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-22	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	746	746	303	1,049	48
CS-23	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2080
CS-24	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-25	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-26	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1700
CS-27	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-28	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-29	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-30	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	784	784	366	1150	3960
CS-31	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	848
CS-32	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-33	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-34	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	234	234	111	345	160
CS-35	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96

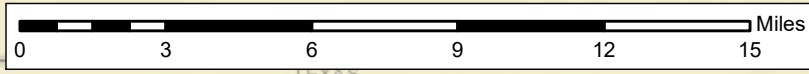
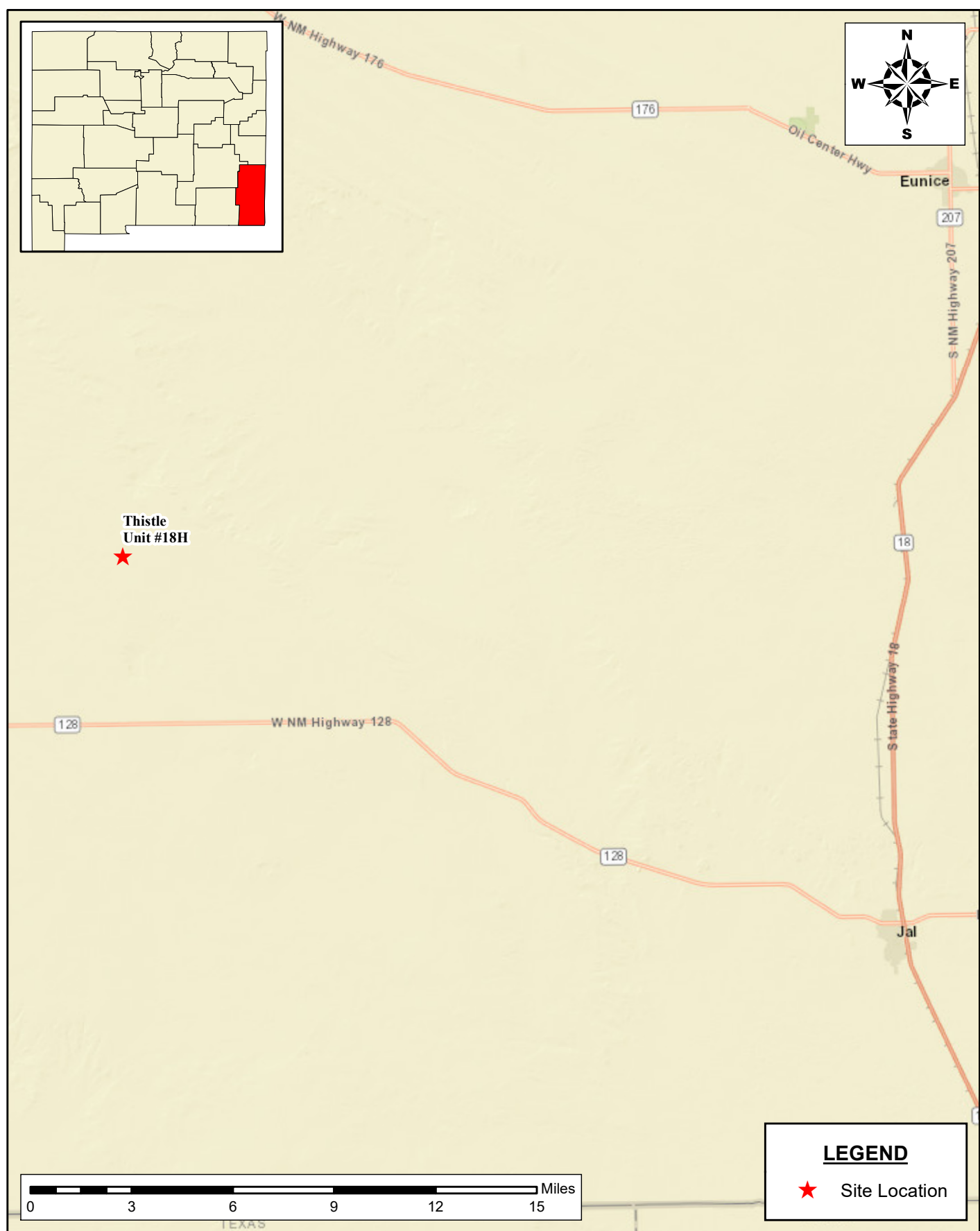
Sample ID	Sample Date	Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	TPH					Chloride (mg/kg)						
								GRO (C6-C10) (mg/kg)	DRO (C10-C28) (mg/kg)	GRO + DRO (mg/kg)	MRO (C28-C35) (mg/kg)	Total GRO/DRO/MRO (mg/kg)							
								Table I Closure Criteria for Soil >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
CS-36	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	64.4	64.4	37.3	101.7	32						
CS-37	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	120	120	56.1	176.1	96						
CS-38	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64						
CS-39	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32						
CS-40	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16						
CS-41	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	151	151	87.4	238.4	48						
CS-42	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	37.6	37.6	21.6	59.2	32						
CS-43	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48						
CS-44	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.2	15.2	<10.0	15.2	96						
CS-45	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80						
CS-46	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48						
CS-47	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128						
CS-48	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.2	30.2	10.7	40.9	16						
CS-49	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	650	650	359	1009	352						
CS-50	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32						
CS-51	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16						
CS-52	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96						
CS-53	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	71.2	71.2	40.8	112	48						
CS-54	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	142	142	65.5	207.5	608						
CS-55	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	52.9	52.9	20.8	73.7	304						
CS-56	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.3	10.3	<10.0	10.3	128						
CS-57	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16						
CS-58	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0						
CS-59	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	40.5	40.5	14	54.5	128						
CS-60	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112						
CS-61	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448						
CS-62	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48						
CS-63	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11	11	<10.0	11	32						
CS-64	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	694	694	281	975	16						
CS-65	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	656						
CS-66	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1470						
CS-67	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0						
CS-68	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	45.8	45.8	21.6	67.4	528						
CS-69	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288						
CS-70	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	102	102	39.3	141.3	1520						
CS-71	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112						
CS-72	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80						
CS-73	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176						
CS-74	9/18/2025	Surface	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80						

Sample ID	Sample Date	Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	TPH					Chloride (mg/kg)
								GRO (C6-C10) (mg/kg)	DRO (C10-C28) (mg/kg)	GRO + DRO (mg/kg)	MRO (C28-C35) (mg/kg)	Total GRO/DRO/MRO (mg/kg)	
								Table I Closure Criteria for Soil >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).
-  Sample Point Excavated

Figures

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\NTGE - Projects\2025 PROJECTS\DEVON\RSC\2510092 - Thistle Unit #18H\7 - Figures\GIS\Figure_1_TK.mxd



LEGEND

★ Site Location

SITE LOCATION MAP
REMEDIATION CLOSURE REPORT
 DEVON ENERGY PRODUCTION COMPANY
 THISTLE UNIT #18H
 LEA COUNTY, NEW MEXICO

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

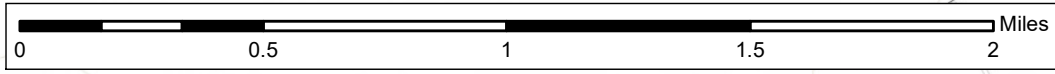
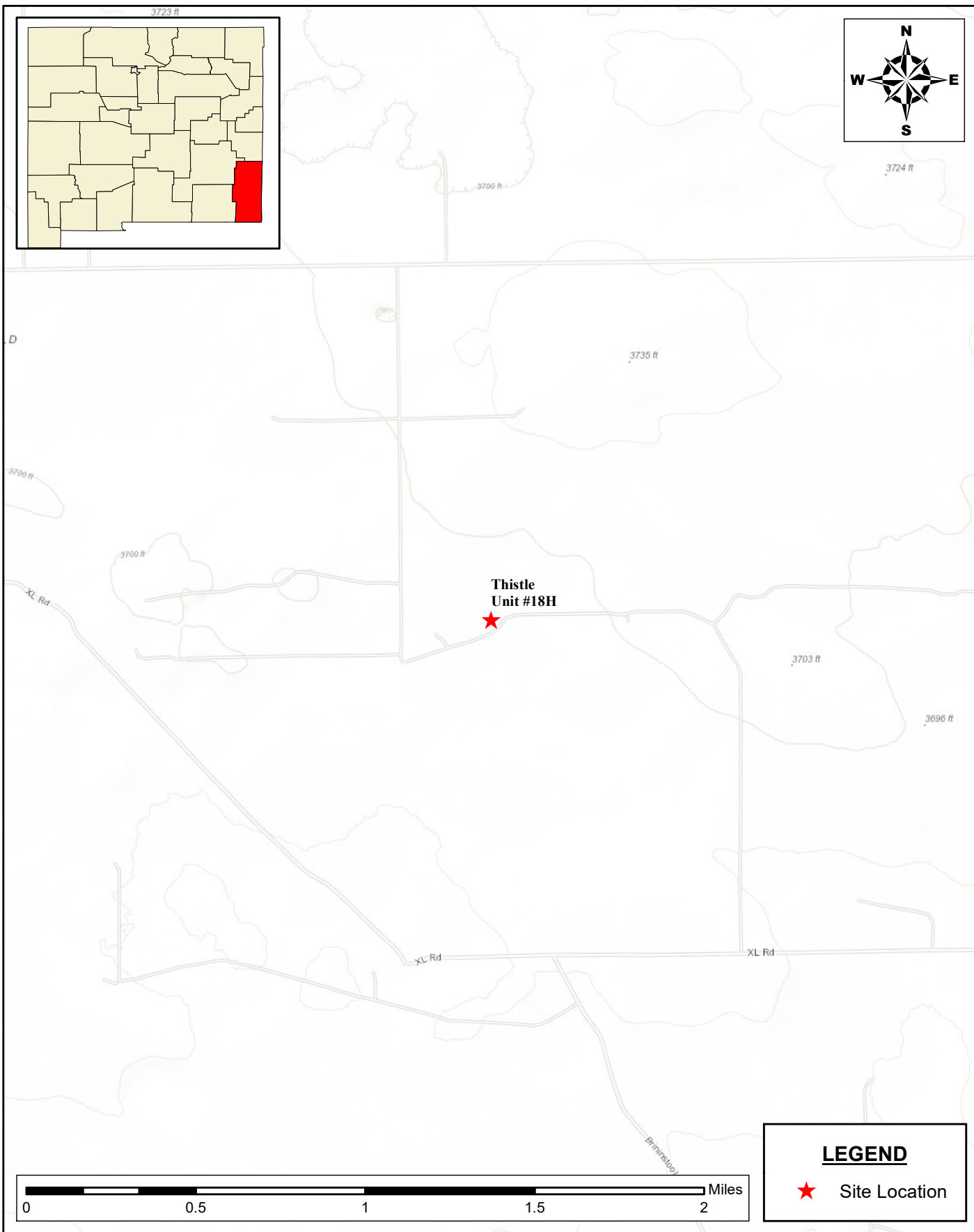
DRAWING NUMBER:

FIGURE 1

SHEET NUMBER:

1 of 1

SCALE: As Shown Date: 10/9/2025 PROJECT #: 2510092



LEGEND

★ Site Location

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\NTGE - Projects\2025 PROJECTS\DEVON\RSC2510092 - Thistle Unit #18H7 - Figures\GIS\Figure_2_TK.mxd

**SITE TOPOGRAPHIC MAP
REMEDATION CLOSURE REPORT**
 DEVON ENERGY PRODUCTION COMPANY
 THISTLE UNIT #18H
 LEA COUNTY, NEW MEXICO



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

DRAWING NUMBER:

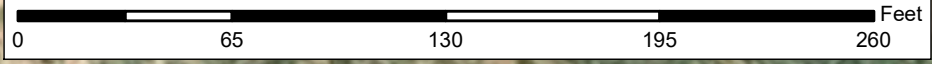
FIGURE 2

SHEET NUMBER:

1 of 1

SCALE: As Shown Date: 10/9/2025 PROJECT #: 2510092

Document Path: C:\Users\ntgegis\New_Tech_Global\NTGE - Documents\NTGE - Projects\2025 PROJECTS\DEVON\RSC\2510092 - Thistle Unit #18H17 - Figures\GIS\Figure_3_TK.mxd



LEGEND

Area of Concern

**SITE ASSESSMENT MAP
REMEDATION CLOSURE REPORT**
DEVON ENERGY PRODUCTION COMPANY
THISTLE UNIT #18H
LEA COUNTY, NEW MEXICO

NTG
ENVIRONMENTAL

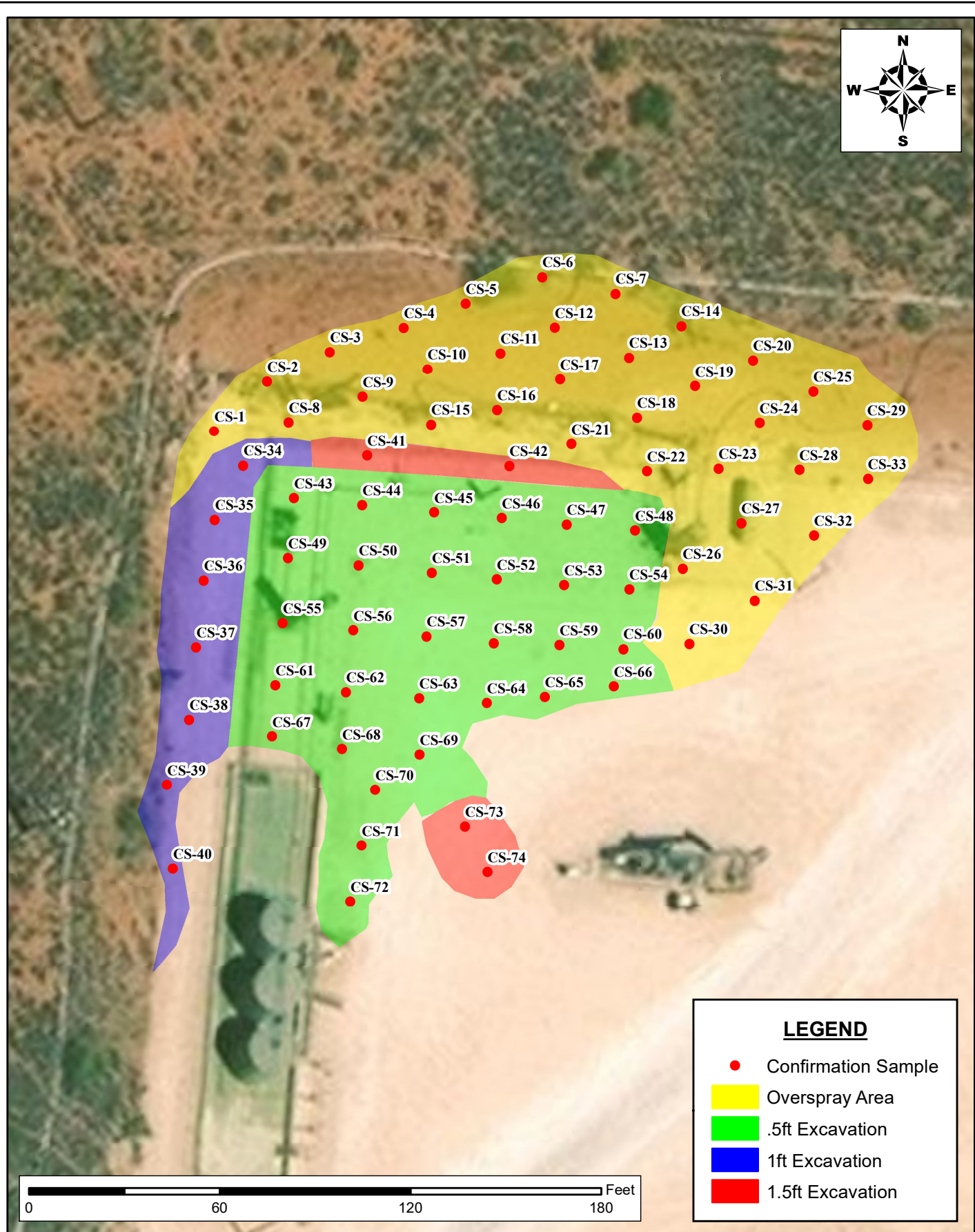
New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntgenvironmental.com

NOTES:
1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983

DRAWING NUMBER:
FIGURE 3

SHEET NUMBER:
1 of 1

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\NTGE - Projects\2025 PROJECTS\DEVON\RSC\2510092 - This Site Unit #18H17 - Figures\GIS\Figure_4_TK.mxd



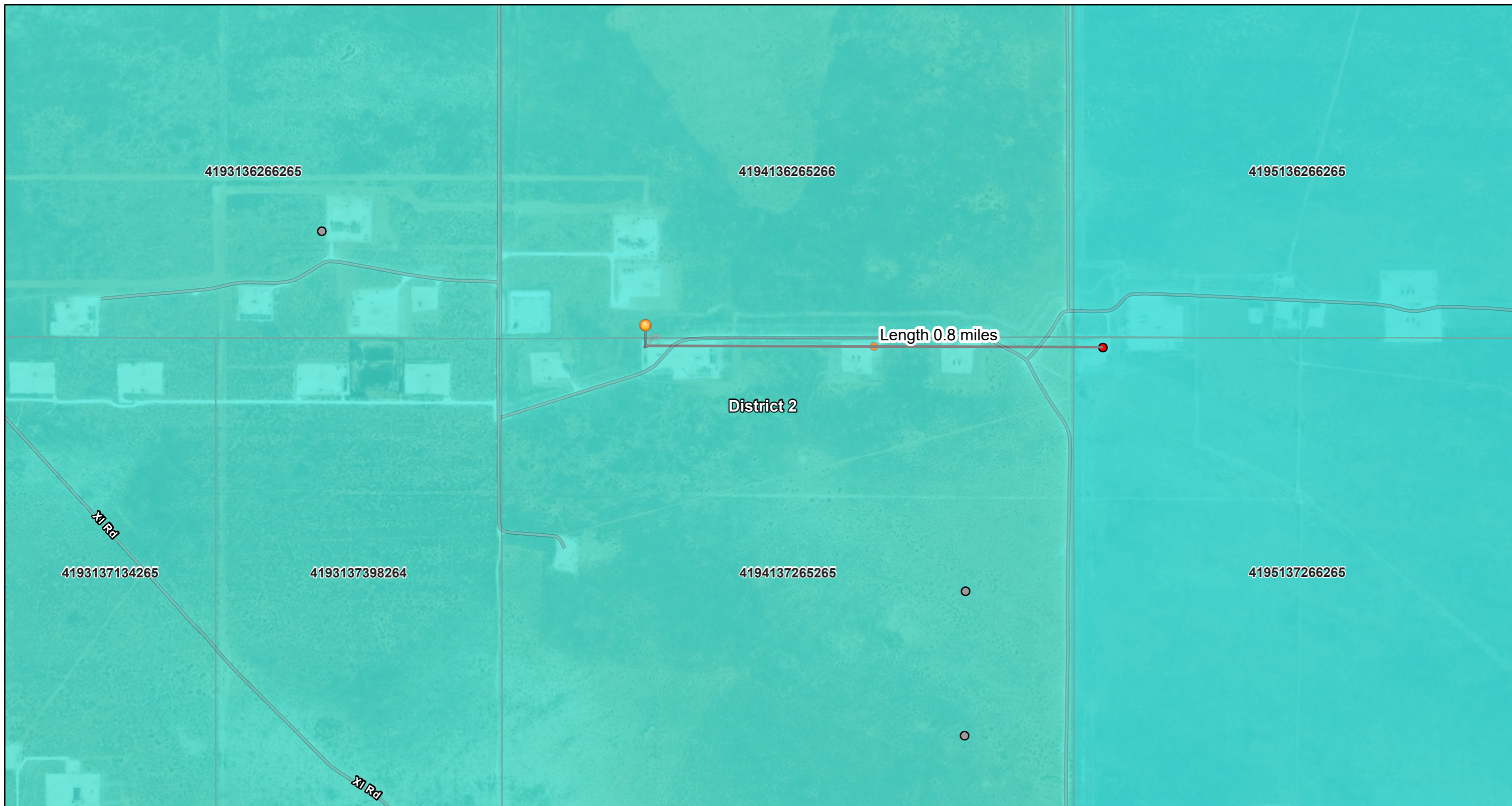
LEGEND

- Confirmation Sample
- Overspray Area
- .5ft Excavation
- 1ft Excavation
- 1.5ft Excavation

<p>SITE ASSESSMENT MAP REMEDICATION CLOSURE REPORT DEVON ENERGY PRODUCTION COMPANY THISTLE UNIT #18H LEA COUNTY, NEW MEXICO</p>			 <p>New Tech Global Environmental, LLC 911 Regional Park Drive Houston, Texas 77060 T - 281.872.9300 F - 281.872.4521 Web: www.ntgenvironmental.com</p>	<p>NOTES:</p> <p>1. Base Image: ESRI Maps & Data 2017 2. Map Projection: NAD 1983</p>	<p>DRAWING NUMBER: FIGURE 4</p> <p>SHEET NUMBER: 1 of 1</p>
SCALE: AS SHOWN	DATE: 10/09/2025	PROJECT #: 2510092			

Site Characterization Documentation

OSE POD Locations Map



10/7/2025, 3:18:26 PM

GIS WATERS PODs

● Plugged

○ Unknown

Water Right Regulations

□ Closure Area

□ Artesian Plan Area

□ OSE District Boundary

□ Lea County Parcels

New Mexico State Trust Lands

□ Both Estates

World Imagery

Low Resolution 15m Imagery

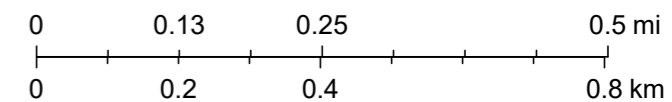
High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

2.4m Resolution Metadata

1:12,585



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Maxar



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		WELL TAG ID NO.		OSE FILE NO(S). C-4963	
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL)	
	WELL OWNER MAILING ADDRESS 5315 Buena Vista Dr.				CITY Carlsbad	STATE ZIP NM 88220
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 16	SECONDS 57.86	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE	103	34	4.17	* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE
S27 T23s R33e

2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1862	NAME OF LICENSED DRILLER James Hawley			NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC			
	DRILLING STARTED 5-29-25	DRILLING ENDED 5-29-25	DEPTH OF COMPLETED WELL (FT) 80'	BORE HOLE DEPTH (FT) 80'	DEPTH WATER FIRST ENCOUNTERED (FT) 70'			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 70'	DATE STATIC MEASURED 6-5-25		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD				ADDITIVES – SPECIFY:			
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY:					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'	80'	6'	No casing left in hole				

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

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 09/22/2022)		
FILE NO.	POD NO.	TRN NO.			
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2			

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0'	5'	5'	Sandy Topsoil	Y ✓ N	
	5'	10'	5'	Sandy Caliche	Y ✓ N	
	10'	20'	10'	Caliche	Y ✓ N	
	20'	25'	5'	Sandy Caliche	Y ✓ N	
	25'	50'	25'	Sand	Y ✓ N	
	50'	70'	20'	Sandy Clay	Y ✓ N	
	70'	80'	10'	Wet Sandy Clay	✓ Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input checked="" type="checkbox"/> OTHER – SPECIFY: DTGW Bore					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
5. TEST, RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Depth to groundwater bore was gauged for water on 6-5-25. DTGW bore was wet at 70'. Temporary well casing was removed, bore hole was plugged by tremie pipe with hydrated bentonite hole plug to surface.					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Nathan Smelcer						
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:					
		James Hawley			6-6-25	
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME				DATE	

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)		
FILE NO.	POD NO.	TRN NO.		
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2	



PLUGGING RECORD



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

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4963 POD1

Well owner: Devon Energy Phone No.: _____

Mailing address: 5315 Buena Vista Dr.

City: Carlsbad State: NM Zip code: 88220

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: H&R Enterprises, LLC.
- 2) New Mexico Well Driller License No.: WD-1862 Expiration Date: 6-16-25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Nathan Smelcer
- 4) Date well plugging began: 6-5-25 Date well plugging concluded: 6-5-25
- 5) GPS Well Location: Latitude: 32 deg, 16 min, 57.86 sec
Longitude: 103 deg, 34 min, 4.17 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 80' ft below ground level (bgl),
by the following manner: well sounder
- 7) Static water level measured at initiation of plugging: 70 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 5-1-25
- 9) Were all plugging activities consistent with an approved plugging plan? no If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Bore hole was expected to be dry but was wet at 70'. Bore hole was plugged by way of tremie pipe with hydrated bentonited hole plug from bottom of bore to surface.

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


For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0' - 80'	Hydrated Bentonite	Approx. 118 gallons	118 gallons	Tremie	

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

III. SIGNATURE:

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



 Signature of Well Driller

6-6-25

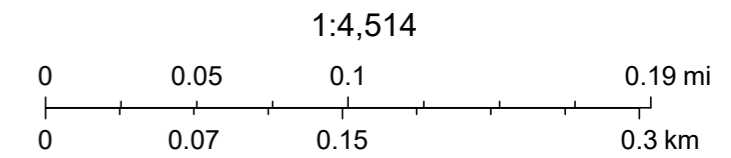
 Date

OCD Well Locations



7/14/2025, 3:01:32 PM

- Override 1
- Oil, New
- Oil, Plugged
- Oil, Active
- Oil, Cancelled
- Oil Release
- Produced Water Release
- Karst Occurrence Potential Low
- PLSS Second Division
- PLSS First Division



BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OCD, Maxar, BLM

National Flood Hazard Layer FIRMette



103°35'12"W 32°17'13"N



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**
 - Cross Sections with 1% Annual Chance Water Surface Elevation
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
 - 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.



1:6,000

103°34'35"W 32°16'43"N

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 7/14/2025 at 7:31 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.










U.S. Fish and Wildlife Service
National Wetlands Inventory

National Wetlands Map



October 7, 2025

Wetlands

- | | | |
|--|---|--|
|  Estuarine and Marine Deepwater |  Freshwater Emergent Wetland |  Lake |
|  Estuarine and Marine Wetland |  Freshwater Forested/Shrub Wetland |  Other |
| |  Freshwater Pond |  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.

Kellan Smith

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Tuesday, September 9, 2025 12:20 PM
To: Kellan Smith
Cc: Raley, Jim; Becky Haskell; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD
Subject: Re: [EXTERNAL] (REJECTED) Thistle #18 Corrective Actions (NRM2008553248)

Warning: Unusual sender <nelson.velez@emnrd.nm.gov>

You don't usually receive emails from this address. Make sure you trust this sender before taking any actions.

Hi Kellan,

Thank you for the quick reply.

As Ms. Hall mentioned in her email below, the elevation difference between the exploratory boring (C-04963 - 32.282684,-103.567964) and the incident (32.282684,-103.567964) is approximately 15 feet (ft.) higher at the boring location, bringing the depth of water at the Thistle Unit #18H site to approximately 55 ft. below grade. Therefore, your variance request for the exploratory boring, namely, C-04963, with a recorded depth to water of 70 feet below grade is approved.

I reiterate from our previous correspondence this morning, your alternative sampling plan of 400 square feet (ft.2) per one (1) 5-point composite sample (5pcs) for the excavation floor samples is approved. Devon must comply with 200 ft.2 per 19.15.29.12D (1c) NMAC for all sidewall confirmation samples.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, request for time extensions, an alternative sampling plan, and/or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.nm.gov/oecd>



From: Kellan Smith <KSmith@ntglobal.com>
Sent: Tuesday, September 9, 2025 10:35 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: FW: [EXTERNAL] (REJECTED) Thistle #18 Corrective Actions (NRM2008553248)

Nelson,

Below is the request for a variance for this site.

Thanks,

Kellan Smith

Project Manager | **NTG Environmental**

W: 832.374.0004 | M: 580.682.1889 | ksmith@ntglobal.com | www.ntgenvironmental.com

From: Becky Haskell <bhaskell@ntglobal.com>
Sent: Monday, July 14, 2025 3:30 PM
To: Kellan Smith <KSmith@ntglobal.com>
Subject: FW: [EXTERNAL] (REJECTED) Thistle #18 Corrective Actions (NRM2008553248)

Thank You,

Becky Haskell

Environmental Manager | **NTG Environmental**

M: 432-766-1918 | bhaskell@ntglobal.com

[701 Tradewinds Blvd, Suite C](#)

[Midland, TX 79706](#)



From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Tuesday, April 22, 2025 10:35 AM
To: Ethan Sessums <ESessums@ntglobal.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Kenny Han <KHan@ntglobal.com>; Becky Haskell <bhaskell@ntglobal.com>
Subject: RE: [EXTERNAL] (REJECTED) Thistle #18 Corrective Actions (NRM2008553248)

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Ethan,

The proposed location at the Thistle 20 Unit 20H CTB I approved. Please be advised that it appears that the Thistle 20 Unit 20H CTB is approximately 15 feet higher in elevation than the Thistle Unit #18H, so please account for that in the depth of the borehole.

Include a copy of this email correspondence in the next C-141 submittal to ensure that the approval of a borehole outside of the 0.5 mile buffer is documented as I am not the reviewer of the incident.

Thank you,

Brittany Hall ● Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd/>

Effective 12/1/2024: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> under “2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS”.

The Digital C-141 guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

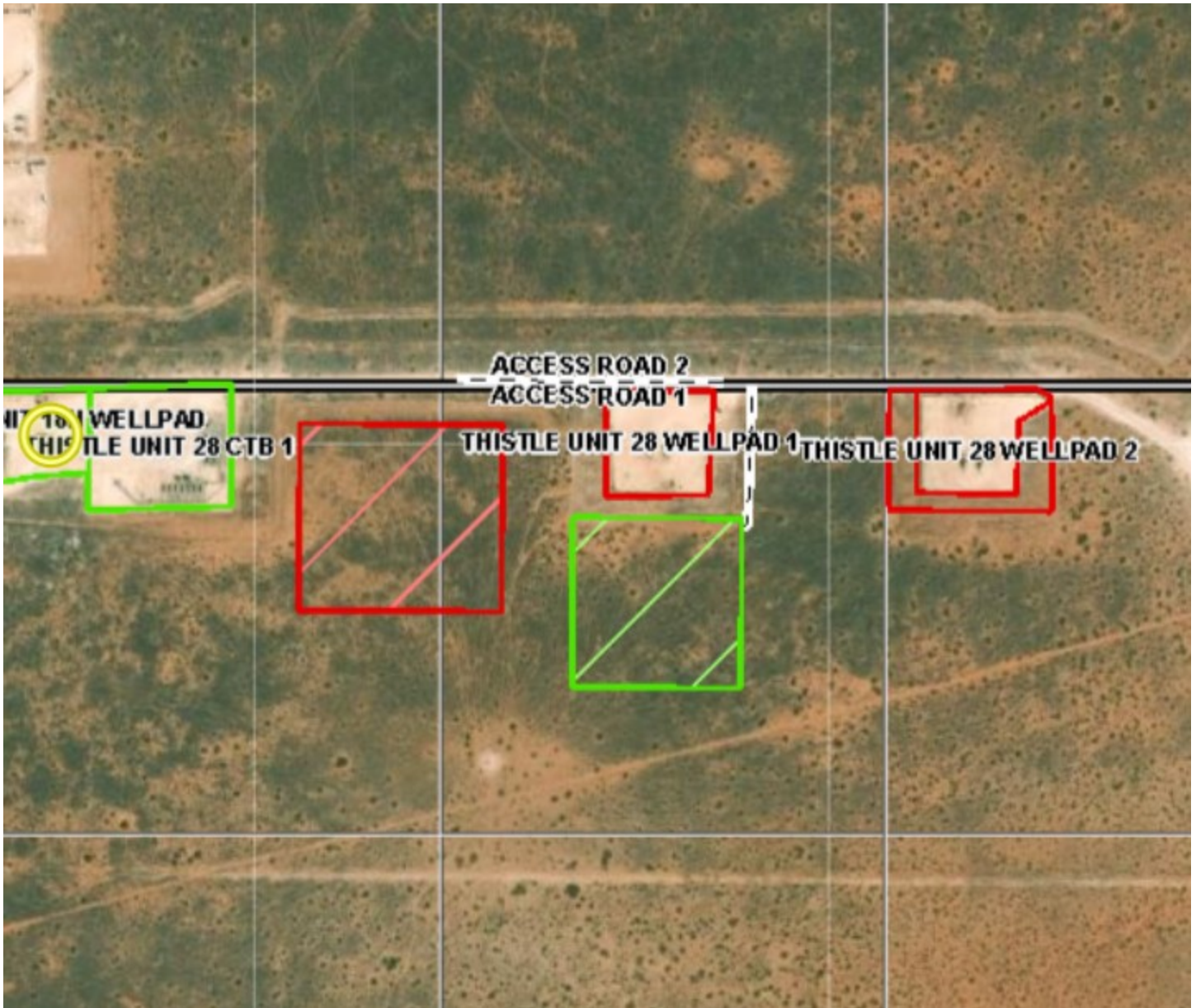
From: Ethan Sessums <ESessums@ntglobal.com>

Sent: Tuesday, April 15, 2025 8:33 AM

To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Kenny Han <KHan@ntglobal.com>; Becky Haskell <bhaskell@ntglobal.com>

Subject: [EXTERNAL] (REJECTED) Thistle #18 Corrective Actions (NRM2008553248)





Brittany I am going to ask you to think back to a conversation from last year I have attached the correspondence originally starting with Jennifer Nobui. The consultant that submitted to closure report did not satisfy certain requirements before backfilling the area of concern. We have been trying to get

the landowner to give us the written permission we need for the OSE to approve our depth to water permit, but Devon Land cannot get them to answer any correspondence. We are requesting that a variance be provided to for greater than .5 miles to .75miles so we can drill a fresh bore on State Land Trust this would be drilled at the Thistle 20 Unit 20H CTB as shown above and would alleviate the private land authorization issue we are having.

Thanks,

Ethan Sessums

Jr. Field Ops Manager | **NTG Environmental**

M:432-701-2159 P:254-266-5456 jesessums@ntglobal.com

[209 West McKay St. Carlsbad NM, 88220](#)



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Photographic Log

PHOTOGRAPHIC LOG

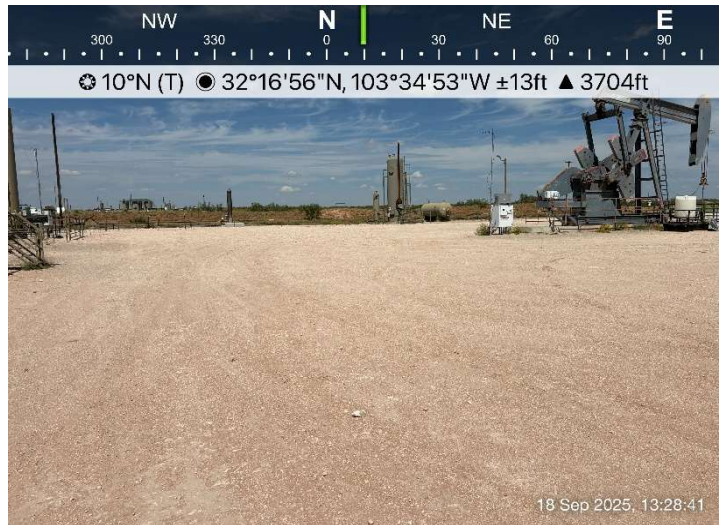
Devon Energy Production Company

Photograph No. 1

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event



Photograph No. 2

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event

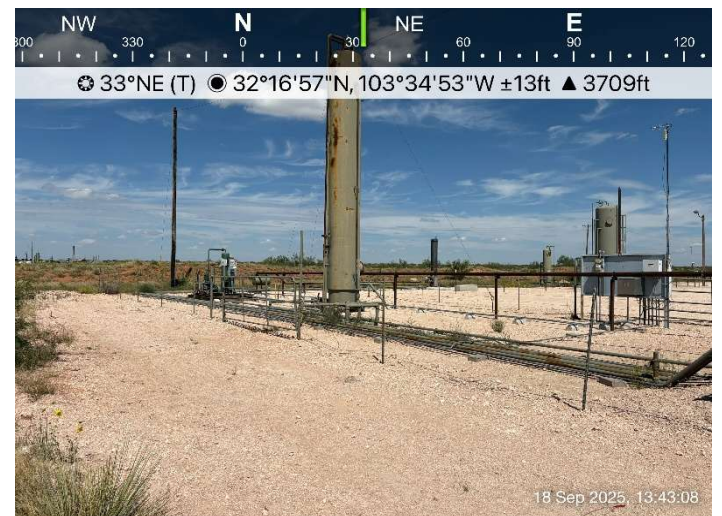


Photograph No. 3

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event



PHOTOGRAPHIC LOG

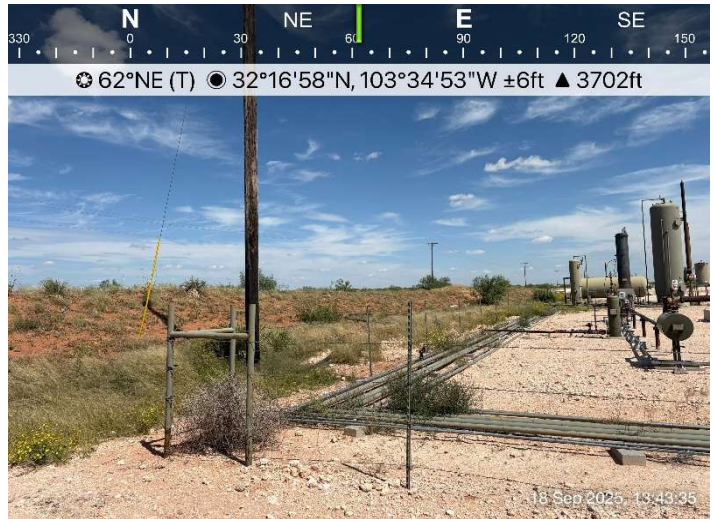
Devon Energy Production Company

Photograph No. 4

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event



Photograph No. 5

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event

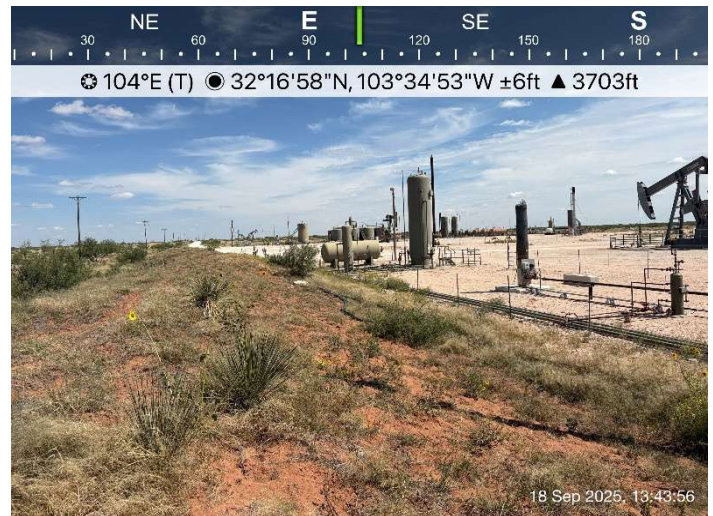


Photograph No. 6

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event



PHOTOGRAPHIC LOG

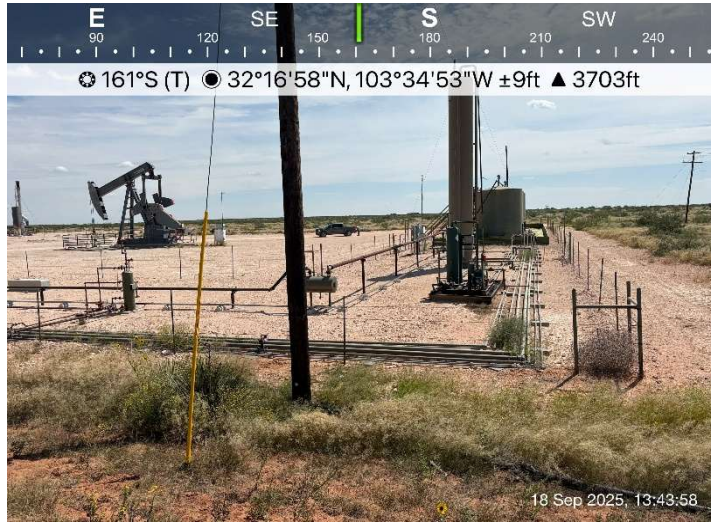
Devon Energy Production Company

Photograph No. 7

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event



Photograph No. 8

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event

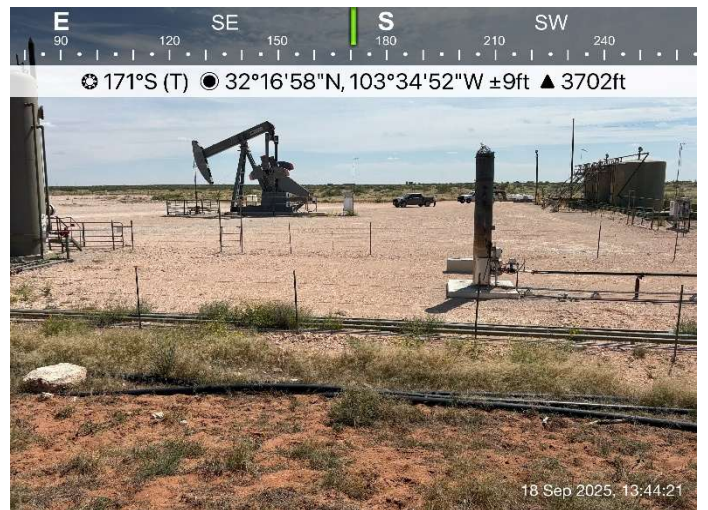


Photograph No. 9

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event



PHOTOGRAPHIC LOG

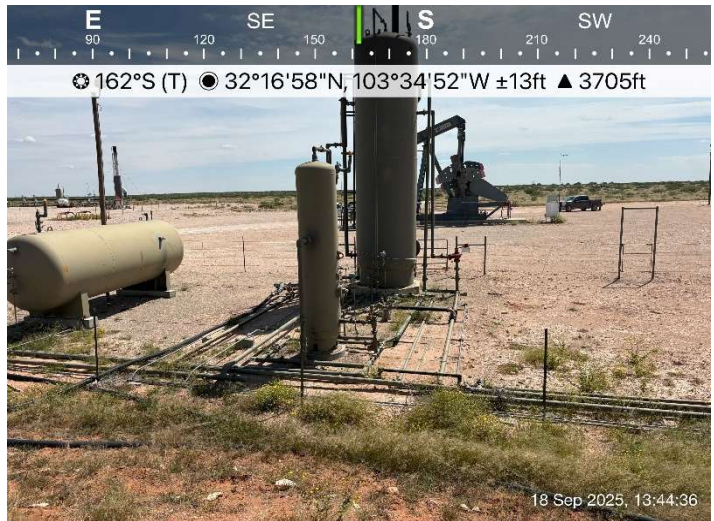
Devon Energy Production Company

Photograph No. 10

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event

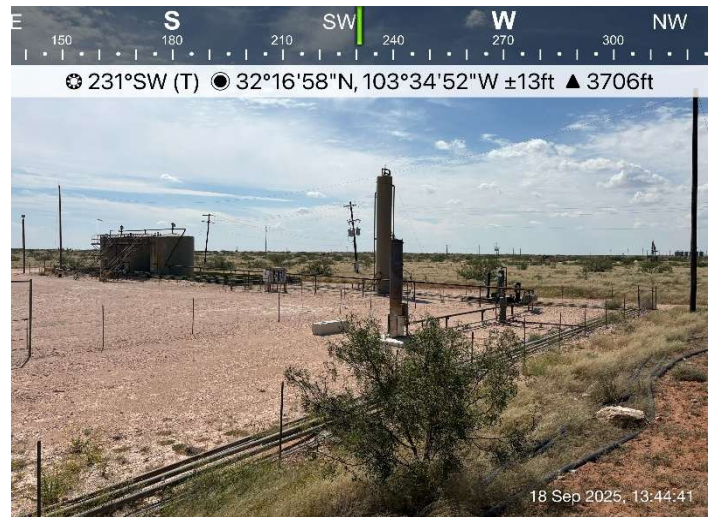


Photograph No. 11

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event

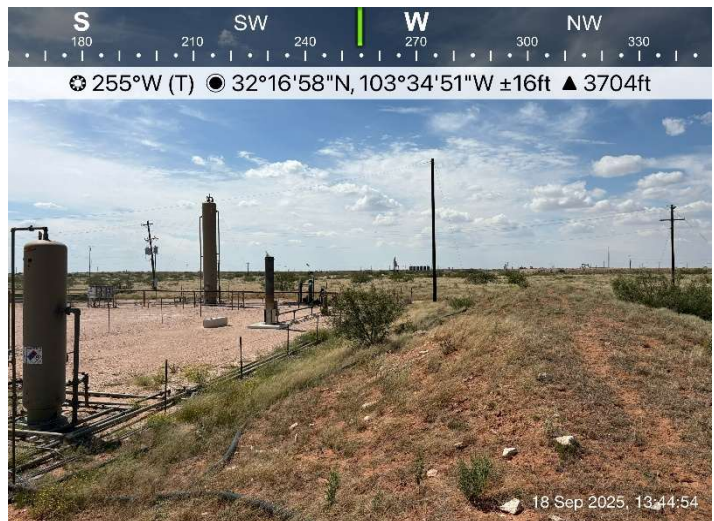


Photograph No. 12

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event



PHOTOGRAPHIC LOG

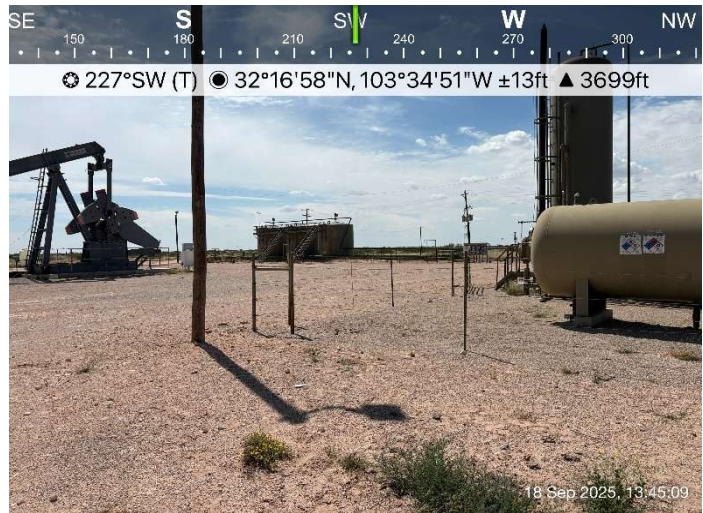
Devon Energy Production Company

Photograph No. 13

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event



Photograph No. 14

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event



Photograph No. 15

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event



PHOTOGRAPHIC LOG

Devon Energy Production Company

Photograph No. 16

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event



Photograph No. 17

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event

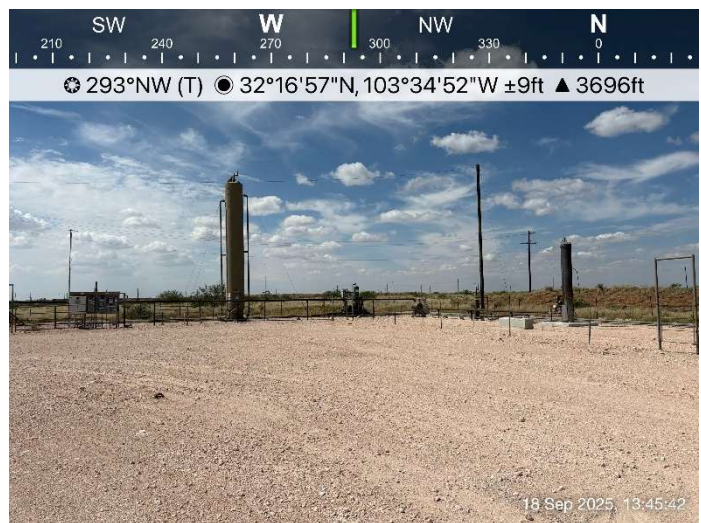


Photograph No. 18

Facility: Thistle Unit #18H

County: Lea County, New Mexico

Description:
Confirmation Sampling Event



Laboratory Reports and Chain-of-Custody

NTGE Project No: 2510092

Released to Imaging: 3/23/2026 2:13:06 PM





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

September 25, 2025

MICHAEL COLLIER
NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND, TX 79706

RE: THISTLE UNIT #18H

Enclosed are the results of analyses for samples received by the laboratory on 09/19/25 12:54.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 1 (H255873-01)

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	09/22/2025	ND	1.91	95.5	2.00	0.249	
Toluene*	<0.050	0.050	09/22/2025	ND	2.05	103	2.00	0.289	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	2.04	102	2.00	0.343	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	6.15	103	6.00	2.32	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/22/2025	ND	432	108	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	09/20/2025	ND	208	104	200	0.467	
DRO >C10-C28*	<10.0	10.0	09/20/2025	ND	228	114	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	09/20/2025	ND					

Surrogate: 1-Chlorooctane 80.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.1 % 39.9-141

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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
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 2 (H255873-02)

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	09/22/2025	ND	1.91	95.5	2.00	0.249	
Toluene*	<0.050	0.050	09/22/2025	ND	2.05	103	2.00	0.289	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	2.04	102	2.00	0.343	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	6.15	103	6.00	2.32	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/22/2025	ND	432	108	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	09/22/2025	ND	233	116	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 99.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 93.8 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 3 (H255873-03)

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	09/22/2025	ND	1.91	95.5	2.00	0.249	
Toluene*	<0.050	0.050	09/22/2025	ND	2.05	103	2.00	0.289	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	2.04	102	2.00	0.343	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	6.15	103	6.00	2.32	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/22/2025	ND	432	108	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	09/22/2025	ND	233	116	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 95.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 4 (H255873-04)

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	09/22/2025	ND	1.91	95.5	2.00	0.249		
Toluene*	<0.050	0.050	09/22/2025	ND	2.05	103	2.00	0.289		
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	2.04	102	2.00	0.343		
Total Xylenes*	<0.150	0.150	09/22/2025	ND	6.15	103	6.00	2.32		
Total BTEX	<0.300	0.300	09/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/22/2025	ND	432	108	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	09/22/2025	ND	233	116	200	2.79		
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 96.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.3 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 5 (H255873-05)

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	09/22/2025	ND	1.91	95.5	2.00	0.249	
Toluene*	<0.050	0.050	09/22/2025	ND	2.05	103	2.00	0.289	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	2.04	102	2.00	0.343	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	6.15	103	6.00	2.32	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/22/2025	ND	432	108	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	09/22/2025	ND	233	116	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 6 (H255873-06)

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	09/22/2025	ND	1.91	95.5	2.00	0.249	
Toluene*	<0.050	0.050	09/22/2025	ND	2.05	103	2.00	0.289	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	2.04	102	2.00	0.343	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	6.15	103	6.00	2.32	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/22/2025	ND	432	108	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	09/22/2025	ND	233	116	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 97.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 91.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 7 (H255873-07)

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	09/22/2025	ND	1.91	95.5	2.00	0.249	
Toluene*	<0.050	0.050	09/22/2025	ND	2.05	103	2.00	0.289	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	2.04	102	2.00	0.343	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	6.15	103	6.00	2.32	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/22/2025	ND	432	108	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	09/22/2025	ND	233	116	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 97.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.7 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 8 (H255873-08)

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	09/22/2025	ND	1.91	95.5	2.00	0.249	
Toluene*	<0.050	0.050	09/22/2025	ND	2.05	103	2.00	0.289	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	2.04	102	2.00	0.343	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	6.15	103	6.00	2.32	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/22/2025	ND	432	108	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	09/22/2025	ND	233	116	200	2.79	
DRO >C10-C28*	182	10.0	09/22/2025	ND	241	121	200	2.04	
EXT DRO >C28-C36	235	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 93.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.2 % 39.9-141

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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
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 9 (H255873-09)

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	09/22/2025	ND	1.96	98.1	2.00	2.41	
Toluene*	<0.050	0.050	09/22/2025	ND	1.89	94.5	2.00	0.991	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.96	97.8	2.00	2.44	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.73	95.5	6.00	1.51	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/22/2025	ND	432	108	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	09/22/2025	ND	233	116	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 10 (H255873-10)

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	09/22/2025	ND	1.96	98.1	2.00	2.41		
Toluene*	<0.050	0.050	09/22/2025	ND	1.89	94.5	2.00	0.991		
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.96	97.8	2.00	2.44		
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.73	95.5	6.00	1.51		
Total BTEX	<0.300	0.300	09/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/22/2025	ND	432	108	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	09/22/2025	ND	233	116	200	2.79		
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 93.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 11 (H255873-11)

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	09/22/2025	ND	1.96	98.1	2.00	2.41		
Toluene*	<0.050	0.050	09/22/2025	ND	1.89	94.5	2.00	0.991		
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.96	97.8	2.00	2.44		
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.73	95.5	6.00	1.51		
Total BTEX	<0.300	0.300	09/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/22/2025	ND	432	108	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	09/22/2025	ND	233	116	200	2.79		
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 90.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.6 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 12 (H255873-12)

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	09/22/2025	ND	1.96	98.1	2.00	2.41		
Toluene*	<0.050	0.050	09/22/2025	ND	1.89	94.5	2.00	0.991		
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.96	97.8	2.00	2.44		
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.73	95.5	6.00	1.51		
Total BTEX	<0.300	0.300	09/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/22/2025	ND	432	108	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	09/22/2025	ND	233	116	200	2.79		
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 93.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 13 (H255873-13)

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	09/22/2025	ND	1.96	98.1	2.00	2.41	
Toluene*	<0.050	0.050	09/22/2025	ND	1.89	94.5	2.00	0.991	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.96	97.8	2.00	2.44	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.73	95.5	6.00	1.51	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/22/2025	ND	432	108	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	09/22/2025	ND	233	116	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 97.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 92.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 14 (H255873-14)

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	09/22/2025	ND	1.96	98.1	2.00	2.41		
Toluene*	<0.050	0.050	09/22/2025	ND	1.89	94.5	2.00	0.991		
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.96	97.8	2.00	2.44		
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.73	95.5	6.00	1.51		
Total BTEX	<0.300	0.300	09/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/22/2025	ND	432	108	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	09/22/2025	ND	233	116	200	2.79		
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 94.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 15 (H255873-15)

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	09/22/2025	ND	1.96	98.1	2.00	2.41		
Toluene*	<0.050	0.050	09/22/2025	ND	1.89	94.5	2.00	0.991		
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.96	97.8	2.00	2.44		
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.73	95.5	6.00	1.51		
Total BTEX	<0.300	0.300	09/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/22/2025	ND	432	108	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	09/22/2025	ND	233	116	200	2.79		
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 79.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.7 % 39.9-141

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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
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 16 (H255873-16)

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	09/22/2025	ND	1.96	98.1	2.00	2.41		
Toluene*	<0.050	0.050	09/22/2025	ND	1.89	94.5	2.00	0.991		
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.96	97.8	2.00	2.44		
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.73	95.5	6.00	1.51		
Total BTEX	<0.300	0.300	09/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/22/2025	ND	432	108	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	09/22/2025	ND	233	116	200	2.79		
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 94.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.0 % 39.9-141

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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
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 17 (H255873-17)

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	09/22/2025	ND	1.96	98.1	2.00	2.41	
Toluene*	<0.050	0.050	09/22/2025	ND	1.89	94.5	2.00	0.991	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.96	97.8	2.00	2.44	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.73	95.5	6.00	1.51	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/22/2025	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	09/22/2025	ND	233	116	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 94.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 18 (H255873-18)

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	09/22/2025	ND	1.96	98.1	2.00	2.41		
Toluene*	<0.050	0.050	09/22/2025	ND	1.89	94.5	2.00	0.991		
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.96	97.8	2.00	2.44		
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.73	95.5	6.00	1.51		
Total BTEX	<0.300	0.300	09/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/22/2025	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	09/22/2025	ND	233	116	200	2.79		
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 93.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.3 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 19 (H255873-19)

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	09/22/2025	ND	1.96	98.1	2.00	2.41		
Toluene*	<0.050	0.050	09/22/2025	ND	1.89	94.5	2.00	0.991		
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.96	97.8	2.00	2.44		
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.73	95.5	6.00	1.51		
Total BTEX	<0.300	0.300	09/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/22/2025	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	09/22/2025	ND	233	116	200	2.79		
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 94.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 20 (H255873-20)

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	09/22/2025	ND	1.96	98.1	2.00	2.41		
Toluene*	<0.050	0.050	09/22/2025	ND	1.89	94.5	2.00	0.991		
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.96	97.8	2.00	2.44		
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.73	95.5	6.00	1.51		
Total BTEX	<0.300	0.300	09/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/22/2025	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	09/22/2025	ND	233	116	200	2.79		
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 90.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 21 (H255873-21)

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	09/22/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/22/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/22/2025	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	09/22/2025	ND	233	116	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	241	121	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 89.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 22 (H255873-22)

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	09/22/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/22/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	746	10.0	09/22/2025	ND	245	122	200	7.09	QM-07
EXT DRO >C28-C36	303	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 92.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.8 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 23 (H255873-23)

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	09/22/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/22/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 87.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 24 (H255873-24)

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	09/22/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/22/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 80.7 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 25 (H255873-25)

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	09/22/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/22/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 83.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 26 (H255873-26)

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	09/22/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/22/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1700	16.0	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 79.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.8 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 27 (H255873-27)

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	09/22/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/22/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 87.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 28 (H255873-28)

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	09/22/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/22/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 84.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 29 (H255873-29)

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	09/22/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/22/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/22/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/22/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 85.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 30 (H255873-30)

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	09/23/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/23/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	784	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	366	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 87.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.3 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 31 (H255873-31)

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	09/23/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/23/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 78.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 32 (H255873-32)

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	09/23/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/23/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 71.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 69.3 % 39.9-141

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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
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 33 (H255873-33)

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	09/23/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/23/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.6 % 39.9-141

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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
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 34 (H255873-34)

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	09/23/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/23/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	234	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	111	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 79.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.4 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 35 (H255873-35)

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	09/23/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/23/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 70.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 68.2 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 36 (H255873-36)

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	09/23/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/23/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	64.4	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	37.3	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 80.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.7 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 37 (H255873-37)

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	09/23/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/23/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

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	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	120	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	56.1	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 81.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 38 (H255873-38)

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	09/23/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/23/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

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	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 82.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 39 (H255873-39)

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	09/23/2025	ND	1.69	84.6	2.00	0.909	
Toluene*	<0.050	0.050	09/23/2025	ND	1.83	91.6	2.00	0.368	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.92	96.0	2.00	0.998	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.98	99.7	6.00	1.44	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 70.4-141

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	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 83.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 81.8 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 40 (H255873-40)

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	09/23/2025	ND	1.69	84.6	2.00	0.909		
Toluene*	<0.050	0.050	09/23/2025	ND	1.83	91.6	2.00	0.368		
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.92	96.0	2.00	0.998		
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.98	99.7	6.00	1.44		
Total BTEX	<0.300	0.300	09/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/22/2025	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	09/22/2025	ND	221	111	200	6.99		
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	245	122	200	7.09		
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 85.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.6 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 41 (H255873-41)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	QM-07
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	QM-07
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 70.4-141

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	09/22/2025	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	09/22/2025	ND	221	111	200	6.99	
DRO >C10-C28*	151	10.0	09/22/2025	ND	245	122	200	7.09	
EXT DRO >C28-C36	87.4	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 81.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.9 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 42 (H255873-42)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 70.4-141

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	09/22/2025	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	09/22/2025	ND	225	113	200	3.14	
DRO >C10-C28*	37.6	10.0	09/22/2025	ND	239	120	200	2.88	
EXT DRO >C28-C36	21.6	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 75.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.1 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 43 (H255873-43)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 70.4-141

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	09/22/2025	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	09/22/2025	ND	225	113	200	3.14	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	239	120	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 71.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 66.7 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 44 (H255873-44)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 70.4-141

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	09/22/2025	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	09/22/2025	ND	225	113	200	3.14	
DRO >C10-C28*	15.2	10.0	09/22/2025	ND	239	120	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 78.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.6 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 45 (H255873-45)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 70.4-141

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	09/22/2025	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	09/22/2025	ND	225	113	200	3.14	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	239	120	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 75.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 70.5 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 46 (H255873-46)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 70.4-141

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	09/22/2025	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	09/22/2025	ND	225	113	200	3.14	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	239	120	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 82.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.1 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 47 (H255873-47)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/22/2025	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	09/22/2025	ND	225	113	200	3.14	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	239	120	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 75.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 71.3 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 48 (H255873-48)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/22/2025	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	09/22/2025	ND	225	113	200	3.14	
DRO >C10-C28*	30.2	10.0	09/22/2025	ND	239	120	200	2.88	
EXT DRO >C28-C36	10.7	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 86.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 49 (H255873-49)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	09/22/2025	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	09/22/2025	ND	225	113	200	3.14	
DRO >C10-C28*	650	10.0	09/22/2025	ND	239	120	200	2.88	
EXT DRO >C28-C36	359	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 76.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 81.1 % 39.9-141

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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
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 50 (H255873-50)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 70.4-141

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	09/22/2025	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	09/22/2025	ND	225	113	200	3.14	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	239	120	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 87.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 51 (H255873-51)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/22/2025	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	09/22/2025	ND	225	113	200	3.14	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	239	120	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 84.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 81.0 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 52 (H255873-52)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 70.4-141

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	09/22/2025	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	09/22/2025	ND	225	113	200	3.14	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	239	120	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 63.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 61.5 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 53 (H255873-53)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 70.4-141

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	09/22/2025	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	09/22/2025	ND	225	113	200	3.14	
DRO >C10-C28*	71.2	10.0	09/22/2025	ND	239	120	200	2.88	
EXT DRO >C28-C36	40.8	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 69.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 68.7 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 54 (H255873-54)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	09/22/2025	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	09/22/2025	ND	225	113	200	3.14	
DRO >C10-C28*	142	10.0	09/22/2025	ND	239	120	200	2.88	
EXT DRO >C28-C36	65.5	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 78.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.4 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 55 (H255873-55)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/22/2025	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	09/22/2025	ND	225	113	200	3.14	
DRO >C10-C28*	52.9	10.0	09/22/2025	ND	239	120	200	2.88	
EXT DRO >C28-C36	20.8	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 79.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.5 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 56 (H255873-56)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/22/2025	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	09/22/2025	ND	225	113	200	3.14	
DRO >C10-C28*	10.3	10.0	09/22/2025	ND	239	120	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 74.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 71.7 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 57 (H255873-57)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/22/2025	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	09/22/2025	ND	225	113	200	3.14	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	239	120	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 58.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 55.8 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 58 (H255873-58)

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	09/23/2025	ND	1.57	78.7	2.00	10.3		
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62		
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25		
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08		
Total BTEX	<0.300	0.300	09/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/22/2025	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	09/22/2025	ND	225	113	200	3.14		
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	239	120	200	2.88		
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 67.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 63.2 % 39.9-141

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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
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 59 (H255873-59)

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	09/23/2025	ND	1.57	78.7	2.00	10.3	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.5	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.72	85.9	2.00	5.25	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.04	84.1	6.00	5.08	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/22/2025	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	09/22/2025	ND	225	113	200	3.14	
DRO >C10-C28*	40.5	10.0	09/22/2025	ND	239	120	200	2.88	
EXT DRO >C28-C36	14.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 62.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 61.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 60 (H255873-60)

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	09/23/2025	ND	1.58	78.8	2.00	10.6		
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.4	2.00	7.51		
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.73	86.4	2.00	5.65		
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.05	84.2	6.00	5.63		
Total BTEX	<0.300	0.300	09/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/22/2025	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	09/22/2025	ND	225	113	200	3.14		
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	239	120	200	2.88		
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 62.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 59.0 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 61 (H255873-61)

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	09/23/2025	ND	1.52	75.8	2.00	9.97		
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.6	2.00	5.71		
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.78	89.0	2.00	3.11		
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.57	92.8	6.00	2.23		
Total BTEX	<0.300	0.300	09/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	09/22/2025	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	09/22/2025	ND	225	113	200	3.14		
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	239	120	200	2.88		
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 77.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.7 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 62 (H255873-62)

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	09/23/2025	ND	1.52	75.8	2.00	9.97		
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.6	2.00	5.71		
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.78	89.0	2.00	3.11		
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.57	92.8	6.00	2.23		
Total BTEX	<0.300	0.300	09/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/22/2025	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	09/22/2025	ND	220	110	200	0.360		
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	208	104	200	0.400		
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 72.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 64.8 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 63 (H255873-63)

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	09/23/2025	ND	1.52	75.8	2.00	9.97		
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.6	2.00	5.71		
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.78	89.0	2.00	3.11		
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.57	92.8	6.00	2.23		
Total BTEX	<0.300	0.300	09/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/22/2025	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	09/22/2025	ND	220	110	200	0.360		
DRO >C10-C28*	11.0	10.0	09/22/2025	ND	208	104	200	0.400		
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 64.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 57.2 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 64 (H255873-64)

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	09/23/2025	ND	1.52	75.8	2.00	9.97	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.6	2.00	5.71	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.78	89.0	2.00	3.11	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.57	92.8	6.00	2.23	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/22/2025	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	09/22/2025	ND	220	110	200	0.360	
DRO >C10-C28*	694	10.0	09/22/2025	ND	208	104	200	0.400	
EXT DRO >C28-C36	281	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 80.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.1 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 65 (H255873-65)

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	09/23/2025	ND	1.52	75.8	2.00	9.97		
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.6	2.00	5.71		
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.78	89.0	2.00	3.11		
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.57	92.8	6.00	2.23		
Total BTEX	<0.300	0.300	09/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	09/22/2025	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	09/23/2025	ND	220	110	200	0.360		
DRO >C10-C28*	<10.0	10.0	09/23/2025	ND	208	104	200	0.400		
EXT DRO >C28-C36	<10.0	10.0	09/23/2025	ND						

Surrogate: 1-Chlorooctane 76.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 67.0 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 66 (H255873-66)

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	09/23/2025	ND	1.52	75.8	2.00	9.97	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.6	2.00	5.71	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.78	89.0	2.00	3.11	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.57	92.8	6.00	2.23	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	09/22/2025	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	09/22/2025	ND	220	110	200	0.360	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	208	104	200	0.400	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 69.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 62.7 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 67 (H255873-67)

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	09/23/2025	ND	1.52	75.8	2.00	9.97		
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.6	2.00	5.71		
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.78	89.0	2.00	3.11		
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.57	92.8	6.00	2.23		
Total BTEX	<0.300	0.300	09/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/22/2025	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	09/22/2025	ND	220	110	200	0.360		
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	208	104	200	0.400		
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 83.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 68 (H255873-68)

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	09/23/2025	ND	1.52	75.8	2.00	9.97	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.6	2.00	5.71	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.78	89.0	2.00	3.11	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.57	92.8	6.00	2.23	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	09/22/2025	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	09/22/2025	ND	220	110	200	0.360	
DRO >C10-C28*	45.8	10.0	09/22/2025	ND	208	104	200	0.400	
EXT DRO >C28-C36	21.6	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 80.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.8 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 69 (H255873-69)

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	09/23/2025	ND	1.52	75.8	2.00	9.97	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.6	2.00	5.71	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.78	89.0	2.00	3.11	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.57	92.8	6.00	2.23	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/22/2025	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	09/22/2025	ND	220	110	200	0.360	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	208	104	200	0.400	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 85.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.0 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 70 (H255873-70)

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	09/23/2025	ND	1.52	75.8	2.00	9.97		
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.6	2.00	5.71		
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.78	89.0	2.00	3.11		
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.57	92.8	6.00	2.23		
Total BTEX	<0.300	0.300	09/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	09/22/2025	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	09/22/2025	ND	220	110	200	0.360		
DRO >C10-C28*	102	10.0	09/22/2025	ND	208	104	200	0.400		
EXT DRO >C28-C36	39.3	10.0	09/22/2025	ND						

Surrogate: 1-Chlorooctane 79.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.6 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 71 (H255873-71)

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	09/23/2025	ND	1.52	75.8	2.00	9.97	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.6	2.00	5.71	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.78	89.0	2.00	3.11	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.57	92.8	6.00	2.23	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/22/2025	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	09/22/2025	ND	220	110	200	0.360	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	208	104	200	0.400	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 89.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.7 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 72 (H255873-72)

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	09/23/2025	ND	1.52	75.8	2.00	9.97	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.6	2.00	5.71	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.78	89.0	2.00	3.11	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.57	92.8	6.00	2.23	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/22/2025	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	09/22/2025	ND	220	110	200	0.360	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	208	104	200	0.400	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 67.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 59.8 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 73 (H255873-73)

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	09/23/2025	ND	1.52	75.8	2.00	9.97	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.6	2.00	5.71	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.78	89.0	2.00	3.11	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.57	92.8	6.00	2.23	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/22/2025	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	09/22/2025	ND	220	110	200	0.360	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	208	104	200	0.400	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 75.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 68.0 % 39.9-141

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Analytical Results For:

NTG ENVIRONMENTAL
 MICHAEL COLLIER
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	09/19/2025	Sampling Date:	09/18/2025
Reported:	09/25/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT #18H	Sampling Condition:	Cool & Intact
Project Number:	2510092	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: CS - 74 (H255873-74)

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	09/23/2025	ND	1.52	75.8	2.00	9.97	
Toluene*	<0.050	0.050	09/23/2025	ND	1.69	84.6	2.00	5.71	
Ethylbenzene*	<0.050	0.050	09/23/2025	ND	1.78	89.0	2.00	3.11	
Total Xylenes*	<0.150	0.150	09/23/2025	ND	5.57	92.8	6.00	2.23	
Total BTEX	<0.300	0.300	09/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/22/2025	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	09/22/2025	ND	220	110	200	0.360	
DRO >C10-C28*	<10.0	10.0	09/22/2025	ND	208	104	200	0.400	
EXT DRO >C28-C36	<10.0	10.0	09/22/2025	ND					

Surrogate: 1-Chlorooctane 76.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 68.3 % 39.9-141

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: H855873

Page 1 of 8

Project Manager: Michael Collier
 Company Name: NTG Environmental
 Address: 209 W McKay St
 City, State ZIP: Carlsbad, NM 88220
 Phone: 432-701-2159

Bill to: (if different)
 Company Name: Jim Raley
 Address: Devon
 City, State ZIP:

Turn Around
 Routine Rush

Due Date: TAT starts the day received by the lab, if received by 4:30pm

Project Name: Thisle Unit #18H
 Project Number: 2510092
 Project Location: Lea Co, NM
 Sampler's Name: Ethan Rugg Nick Moisa
 PO #: 2137247

Work Order Comments
 Program: UST/PST PRP Brownfields RRC Superfund
 State of Project: Reporting Level II Level III PST/UST RRP Level IV
 Deliverables: EDD ADAPT Other:

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Preservative Codes
								BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	
CS-1		9/18/2025		X		Comp	1	X	X	X	
CS-2		9/18/2025		X		Comp	1	X	X	X	
CS-3		9/18/2025		X		Comp	1	X	X	X	
CS-4		9/18/2025		X		Comp	1	X	X	X	
CS-5		9/18/2025		X		Comp	1	X	X	X	
CS-6		9/18/2025		X		Comp	1	X	X	X	
CS-7		9/18/2025		X		Comp	1	X	X	X	
CS-8		9/18/2025		X		Comp	1	X	X	X	
CS-9		9/18/2025		X		Comp	1	X	X	X	
CS-10		9/18/2025		X		Comp	1	X	X	X	

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Nick Moisa	<i>[Signature]</i>	9-19-25 1354			



Chain of Custody

Work Order No: A255873

Page 2 of 8

Project Manager: Micheal Collier
 Company Name: NTG Environmental
 Address: 209 W McKay St
 City, State ZIP: Carlsbad, NM 88220
 Phone: 432-701-2159

Bill to: (if different)
 Company Name: Jim Raley
 Address: Devon
 City, State ZIP:

Turn Around
 Routine Rush

Due Date: TAT starts the day received by the lab, if received by 4:30pm

PO #: 2137247

Temp Blank: Yes No
 Thermometer ID: #140
 Correction Factor: +0.3°C
 Temperature Reading: 1.9°C
 Corrected Temperature: 2.2°C

Received Inlet: Yes No
 Cooler Custody Seals: Yes No
 Sample Custody Seals: Yes No
 Total Containers: 74

Work Order Comments
 Program: UST/PST PRP Brownfields RRC uperfund
 State of Project: Reporting: Level II Level III PST/UST TRRP Level IV
 Deliverables: EDD ADAPT Other:

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	ANALYSIS REQUEST				Preservative Codes
								BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Sample Comments	
CS-11		9/18/2025		X		Comp	1	X	X	X		
CS-12		9/18/2025		X		Comp	1	X	X	X		
CS-13		9/18/2025		X		Comp	1	X	X	X		
CS-14		9/18/2025		X		Comp	1	X	X	X		
CS-15		9/18/2025		X		Comp	1	X	X	X		
CS-16		9/18/2025		X		Comp	1	X	X	X		
CS-17		9/18/2025		X		Comp	1	X	X	X		
CS-18		9/18/2025		X		Comp	1	X	X	X		
CS-19		9/18/2025		X		Comp	1	X	X	X		
CS-20		9/18/2025		X		Comp	1	X	X	X		

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Nick Moisa	<i>[Signature]</i>	9-19-25 1254			



Chain of Custody

Work Order No: 1855873

Page 3 of 8

Page 79 of 84

Project Manager:	Michael Collier	Bill to: (if different)	Jim Raley
Company Name:	NTG Environmental	Company Name:	Devon
Address:	209 W McKay St Carlsbad, NM 88220	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	

Work Order Comments	
Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Project Number:	Project Location:	Sampler's Name:	PO #	Turn Around		Due Date:	Parameters	Pres. Code	ANALYSIS REQUEST	Sample Comments
					<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush					
Thistle Unit #18H	2510092	Lea Co. NM	Ethan Rugg Nick Moisa	2137247	Temp Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	TAT starts the day received by the lab. If received by 4:30pm	BTEX 8021B			
Received Infract:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	Correction Factor:	Temperature Reading:	Corrected Temperature:			TPH 8015M (GRO + DRO + MRO)			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>							Chloride 4500			
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>										
Total Containers:	74										
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont				
CS-21		9/18/2025		X		Comp	1	X	X	X	
CS-22		9/18/2025		X		Comp	1	X	X	X	
CS-23		9/18/2025		X		Comp	1	X	X	X	
CS-24		9/18/2025		X		Comp	1	X	X	X	
CS-25		9/18/2025		X		Comp	1	X	X	X	
CS-26		9/18/2025		X		Comp	1	X	X	X	
CS-27		9/18/2025		X		Comp	1	X	X	X	
CS-28		9/18/2025		X		Comp	1	X	X	X	
CS-29		9/18/2025		X		Comp	1	X	X	X	
CS-30		9/18/2025		X		Comp	1	X	X	X	

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Nick Moisa	<i>Nick Moisa</i>	9-19-25 1354			
3					
5					

Revised Date: 05/01/2020 Rev. 2020.1



Chain of Custody

Work Order No:

1355873

Page 4 of 8

Project Manager: Micheal Collier
 Company Name: NTG Environmental
 Address: 209 W McKay St
 City, State ZIP: Carlsbad, NM 88220
 Phone: 432-701-2159

Bill to: (if different)
 Company Name: Jim Raley
 Address: Devon
 City, State ZIP:

Email:

Work Order Comments
 Program: UST/PST PRP Brownfields RRC Superfund
 State of Project: Reporting Level II Level III PST/UST TRRP Level IV
 Deliverables: EDD ADAPT Other:

Project Name:	Thistle Unit #18H	Turn Around	Pres. Code	ANALYSIS REQUEST				Preservative Codes	
Project Number:	2510092	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush						None: NO DI Water: H ₂ O	
Project Location:	Lea Co. NM	Due Date:						Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na	
Sampler's Name:	Ethan Rugg Nick Moisa	TAT starts the day received by the lab, if received by 4:30pm						H ₂ SO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
PO #:	2137247	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:			
SAMPLE RECEIPT		Received Inact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:			
		Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Temperature Reading:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Corrected Temperature:			
		Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Corrected Temperature:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>				
		Total Containers:	74						
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	Sample Comments
CS-31		9/18/2025		X		Comp	1	BTEX 8021B	
CS-32		9/18/2025		X		Comp	1	TPH 8015M (GRO + DRO + MRO)	
CS-33		9/18/2025		X		Comp	1	Chloride 4500	
CS-34		9/18/2025		X		Comp	1		
CS-35		9/18/2025		X		Comp	1		
CS-36		9/18/2025		X		Comp	1		
CS-37		9/18/2025		X		Comp	1		
CS-38		9/18/2025		X		Comp	1		
CS-39		9/18/2025		X		Comp	1		
CS-40		9/18/2025		X		Comp	1		

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Nick Moisa	<i>[Signature]</i>	9-19-25 1357			



Chain of Custody

Work Order No:

4855873

Page 5 of 8

Project Manager:	Michael Collier	Bill to: (if different)	Jim Raley
Company Name:	NTG Environmental	Company Name:	Devon
Address:	209 W McKay St	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	

Work Order Comments	
Program: <input type="checkbox"/> UST/ <input type="checkbox"/> PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> uperfund	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	ANALYSIS REQUEST				Preservative Codes
								BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500		
CS-41		9/18/2025		X		Comp	1	X	X	X		
CS-42		9/18/2025		X		Comp	1	X	X	X		
CS-43		9/18/2025		X		Comp	1	X	X	X		
CS-44		9/18/2025		X		Comp	1	X	X	X		
CS-45		9/18/2025		X		Comp	1	X	X	X		
CS-46		9/18/2025		X		Comp	1	X	X	X		
CS-47		9/18/2025		X		Comp	1	X	X	X		
CS-48		9/18/2025		X		Comp	1	X	X	X		
CS-49		9/18/2025		X		Comp	1	X	X	X		
CS-50		9/18/2025		X		Comp	1	X	X	X		

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Nick Moisa	<i>Nick Moisa</i>	9/18/25 1357			



Chain of Custody

Work Order No:

1855873

Page 6 of 8

Project Manager: Micheal Collier
 Company Name: NTG Environmental
 Address: 209 W McKay St
 City, State ZIP: Carlsbad, NM 88220
 Phone: 432-701-2159

Bill to: (if different)
 Company Name: Jim Raley
 Address: Devon
 City, State ZIP:

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

Project Name: Thistle Unit #18H
 Project Number: 2510092
 Project Location: Lea Co. NM
 Sampler's Name: Ethan Rugg Nick Moisa
 PO #: 2137247

Work Order Comments: Program: UST/PST PRP Brownfields RRC Superfund
 State of Project: Reporting Level II Level III PST/UST TRRP Level IV
 Deliverables: EDD ADAPT Other:

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	ANALYSIS REQUEST			Preservative Codes
								BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	
CS-51		9/18/2025		X		Comp	1	X	X	X	
CS-52		9/18/2025		X		Comp	1	X	X	X	
CS-53		9/18/2025		X		Comp	1	X	X	X	
CS-54		9/18/2025		X		Comp	1	X	X	X	
CS-55		9/18/2025		X		Comp	1	X	X	X	
CS-56		9/18/2025		X		Comp	1	X	X	X	
CS-57		9/18/2025		X		Comp	1	X	X	X	
CS-58		9/18/2025		X		Comp	1	X	X	X	
CS-59		9/18/2025		X		Comp	1	X	X	X	
CS-60		9/18/2025		X		Comp	1	X	X	X	

Received Inact: Yes No
 Cooler Custody Seals: Yes No
 Sample Custody Seals: Yes No
 Total Containers: 74

Temp Blank: Yes No
 Wet Ice: Yes No
 Thermometer ID: #140
 Correction Factor: 1.03
 Temperature Reading: 1.93
 Corrected Temperature: 8.23

Parameters: HOLD

Preservative Codes: None: NO, DI Water: H₂O, Cool: MeOH, Me, HCL: HC, HNO₃: HN, H₂SO₄: H₂, NaOH: Na, H₃PO₄: HP, NaHSO₄: NABIS, Na₂S₂O₃: NaSO₃, Zn Acetate+NaOH: Zn, NaOH+Ascorbic Acid: S-APC

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Nick Moisa	<i>[Signature]</i>	9-19-25 1:54			



Chain of Custody

Work Order No: HA55873

Page 7 of 8

Project Manager: Micheal Collier
 Company Name: NTG Environmental
 Address: 209 W McKay St
 City, State ZIP: Carlsbad, NM 88220
 Phone: 432-701-2159

Bill to: (if different)
 Company Name: Jim Raley
 Address: Devon
 City, State ZIP:

Turn Around
 Routine Rush

Due Date: TAT starts the day received by the lab, if received by 4:30pm

PO #: 2137247

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

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	ANALYSIS REQUEST			Preservative Codes
								BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	
CS-61		9/18/2025		X		Comp	1	X	X	X	
CS-62		9/18/2025		X		Comp	1	X	X	X	
CS-63		9/18/2025		X		Comp	1	X	X	X	
CS-64		9/18/2025		X		Comp	1	X	X	X	
CS-65		9/18/2025		X		Comp	1	X	X	X	
CS-66		9/18/2025		X		Comp	1	X	X	X	
CS-67		9/18/2025		X		Comp	1	X	X	X	
CS-68		9/18/2025		X		Comp	1	X	X	X	
CS-69		9/18/2025		X		Comp	1	X	X	X	
CS-70		9/18/2025		X		Comp	1	X	X	X	

Additional Comments:

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Relinquished by: (Signature) Nick Moisa Received by: (Signature) [Signature] Date/Time 9-19-25 10:54

3
4
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6



Chain of Custody

Work Order No:

HA55873

Page 8 of 8

Project Manager:	Michael Collier	Bill to: (if different)	Jim Raley
Company Name:	NTG Environmental	Company Name:	Devon
Address:	209 W McKay St	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	

Work Order Comments	
Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund	
State of Project:	
Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV	
Deliverables: <input type="checkbox"/> EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

Project Name:	Thistle Unit #18H	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:	2510092	Due Date:			
Project Location:	Lea Co. NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Ethan Rugg Nick Moisa	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
PO #:	2137247	Thermometer ID:	#140		
SAMPLE RECEIPT	Temp Blank:	Correction Factor:	10.3°C		
Received Inact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	1.9°C		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:	2.8°C		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Total Containers:	74				

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Sample Comments
								BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	
CS-71		9/18/2025		X		Comp	1	X	X	X	
CS-72		9/18/2025		X		Comp	1	X	X	X	
CS-73		9/18/2025		X		Comp	1	X	X	X	
CS-74		9/18/2025		X		Comp	1	X	X	X	

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Nick Moisa	<i>[Signature]</i>	9/19/25 1354			
3					
5					

SMA Rejected Closure Report

NTGE Project No: 2510092





Souder, Miller & Associates ♦ 201 S. Halagueno St. ♦ Carlsbad, NM 88220
(575) 689-8801

June 17, 2020

#5E29133-BG17

NMOCD District 1
1625 N. French Drive
Hobbs, New Mexico 88240

SUBJECT: Remediation Closure Report for the Thistle #18H Release (NRM2008553248), Lea County, New Mexico

To Whom It May Concern:

On behalf of Devon Energy Production Company, Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at the Thistle #18H site. The site is in Unit C, Section 28, Township 28S, Range 33E, Lea County, New Mexico, on Federal land. Figure 1 illustrates the vicinity and site location on an USGS 7.5 minute quadrangle map.

Table 1 summarizes release information and Closure Criteria.

Table 1: Release Information and Closure Criteria			
Name	Thistle #18H	Company	Devon Energy Production Company
API Number	30-025-40010	Location	32.282723 -103.581527
Incident Number	NRM2008553248		
Estimated Date of Release	3/20/2020	Date Reported to NMOCD	3/20/2020
Landowner	Federal	Reported To	BLM, NMOCD, SLO
Source of Release	Vapor Recovery Tower		
Released Volume	53 bbls	Released Material	Crude Oil
Recovered Volume	40 bbls	Net Release	13 bbls
NMOCD Closure Criteria	>100 feet to groundwater		
SMA Response Dates	3/26, 5/6/2020		

1.0 Background

On March 20, 2020, a release was discovered at the Thistle #18H site due to the oil dump line from the VRT to the tanks plugged up causing the VRT to over-pressure and release fluid from the pop-off valve. The fluid sprayed out onto the pad and into the pasture to the north. Initial response activities were conducted by Devon Energy, and included source elimination, containment and vacuum activities, which recovered approximately 40 barrels of fluid, which were hauled to and disposed of at R360 Environmental Solution near Hobbs, NM. Figure 1 illustrates the vicinity and site location; Figure 2 illustrates the release location. The C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Thistle #18H is located approximately 58 miles from Carlsbad, New Mexico on Federal (BLM) land at an elevation of approximately 3691 feet above mean sea level (amsl).

Based upon New Mexico Office of the State Engineer (Appendix B), depth to groundwater in the area is estimated to be 400 feet below grade surface (bgs). There are no known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 5/26/2020). Based upon United States Geological Survey water well data (Appendix B), depth to groundwater is estimated to be 334 feet below grade surface. There are nine water wells with depth to groundwater (C-02277, C-02278, C-02280, C-02281, C-02279, 321746103352301, 321609103321701, 321611103321601, 321619103315801) data within 2.95 miles of the release. Water well C-02277 is located 0.60 miles northwest of the release with a depth to groundwater recorded at 400 feet bgs, water well C-02278 is located 0.69 miles southeast of the release with a depth to groundwater recorded at 400 feet bgs, water well C-02280 is located southeast of the release with a depth to groundwater recorded at 400 feet bgs, water well C-02281 is located 1.08 miles southeast of the release with a depth to groundwater recorded at 400 feet bgs, water well C-02279 is located 0.93 miles south of the release with a depth to groundwater recorded at 400 feet bgs, USGS water well 321746103352301 is located 1.04 miles northwest of the release with a depth to groundwater recorded at 471 feet bgs, USGS water well 321609103321701 is located 2.71 miles southeast of the release with a depth to groundwater recorded at 146 feet bgs, USGS water well 321611103321601 is located 2.62 miles southeast of the release with a depth to groundwater recorded at 124 feet bgs, USGS water well 321619103315801 is located 2.95 miles southeast of the release with a depth to groundwater recorded at 117 feet bgs. Using depth-to-groundwater data, and elevational differences, groundwater depth calculations are included in table 4.

The nearest significant watercourse is an unnamed playa, located approximately 8,920 feet to the northwest. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of greater than 100 feet bgs. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC. The off-pad areas have been restored to meet the reclamation standard.

Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

3.0 Release Characterization and Remediation Activities

On March 26, 2020, SMA personnel arrived on site in response to the release associated with Thistle #18H. SMA performed site delineation activities by collecting soil samples around the release site and throughout the visibly stained area. Soil samples were field screened for chloride using an electrical

Thistle Unit 18H Remediation Closure Report (NRM2008553248)
June 17, 2020

Page 3 of 4

conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp.

A total of sixteen (16) sample locations (SL1-SL16) were investigated using a hand-auger, to depths up to 1.5 feet bgs. A minimum of two samples were collected at each sampling location and field-screened using the methods above. A total of thirty-one (31) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D as summarized in Table 3. Figure 3 indicates sample locations.

On May 6, 2020, SMA returned to the site to guide the excavation of contaminated soil. SMA guided the excavation activities by collecting soil samples for field screening. Samples were screened for chloride using an electrical conductivity (EC) meter. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD was notified on April 29, 2020 that excavation was set to begin April 30, 2020 and that closure samples were expected to be collected in two (2) business days.

The well pad area represented by sample locations (SL1, SL2, SL4-SL10) was excavated to six (6) inches bgs. Confirmation samples CS1, CS3-CS6 and SW1-SW3 were collected from the base and walls. The area represented by sample SL3 was excavated to 1.5 feet bgs, and confirmation sample CS2 was collected at that depth. The off pad (pasture) area represented by samples SL11-SL12 was excavated to one-foot bgs, and samples CS7, CS8, SW5-SW7 were collected for confirmation. The off pad (pasture) area represented by samples (SL13-SL14) was excavated to 1.5 feet bgs, and samples CS9 and SW4 were collected for confirmation. The remaining overspray area represented by samples SL15 and SL16 was treated with Micro-Blaze and samples CS10-CS13 were collected from the soil surface for confirmation.

The confirmation samples were collected from within the excavated areas in accordance with a systematic sampling approach, as defined by SW846 using Gilbert, 1987 equation 5.2.3 for Stratified Random Sampling (Appendix C). This systematic method meets the EPA's data quality assessment standards (DQA) for composite sampling. Confirmation samples were comprised of five-point composites of the base (CS1-CS13) and walls (SW1-SW7). A photo log of the open excavation can be found in Appendix D.

A total of 20 samples were collected for laboratory analysis. Laboratory samples were collected in accordance with the sampling protocol included in Appendix C. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico (Appendix D).

Figure 3A shows the extent of the excavation and confirmation samples. Laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D.

In addition to meeting the Closure Criteria, the top four (4) feet of all off site areas meet the reclamation requirement of 19.15.29.13(D)(1). Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at R360 Environmental Solutions near Hobbs, NM, an NMOCD permitted disposal facility.

On Behalf of Devon Energy, SMA recommends no further action and request closure of incident number (NRM2008553248)

Thistle Unit 18H Remediation Closure Report (NRM2008553248)
June 17, 2020

Page 4 of 4

4.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Ashley Maxwell at 505-320-9241 or Shawna Chubbuck at 505-325-7535.

Submitted by:
SOUDER, MILLER & ASSOCIATES

Reviewed by:



Ashley Maxwell
Project Manager

Shawna Chubbuck
Senior Scientist

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map
Figure 2: Surface Water Radius Map
Figure 3: Site and Sample Location Map
Figure 3A: Excavation and Confirmation Sample Map

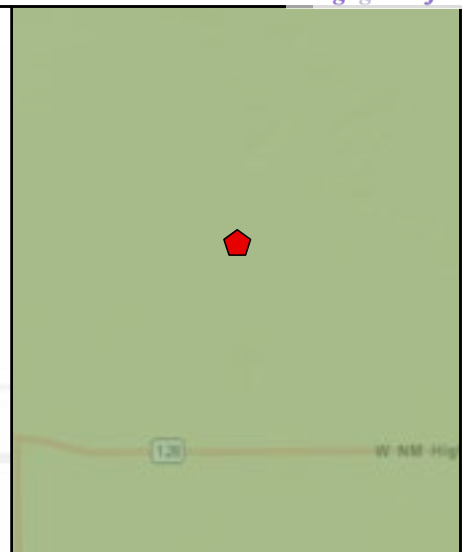
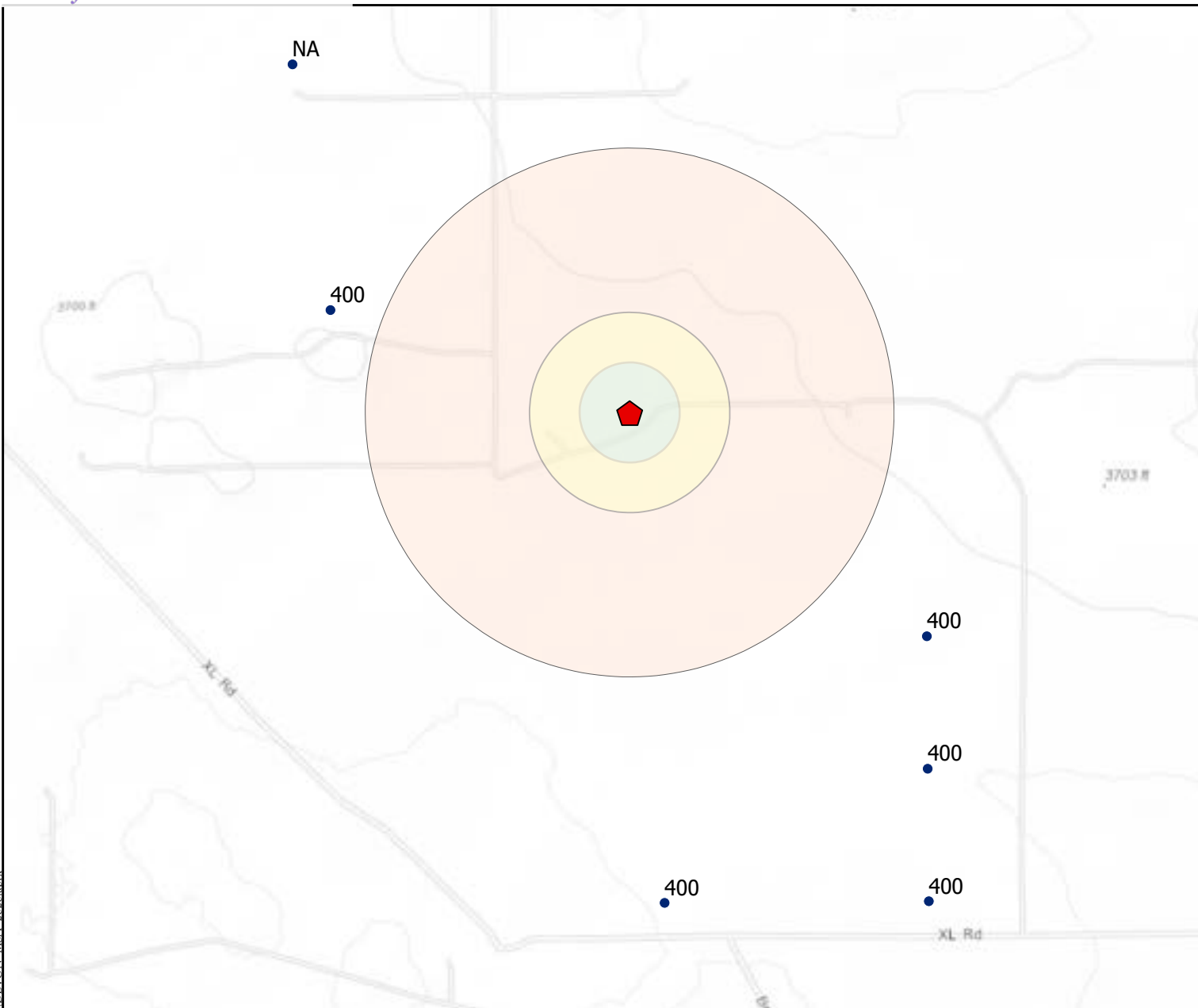
Tables:

Table 2: NMOCD Closure Criteria Justification
Table 3A and 3B: Summary of Sample Results
Table 4: Groundwater Calculation

Appendices:

Appendix A: Form C141
Appendix B: NMOSE Wells Report
Appendix C: VSP Sampling Protocol
Appendix D: Photo Log & Field Notes
Appendix E: Laboratory Analytical Reports

FIGURES



Buffer Distance

- .5 Mile
- 1000 Feet
- 500 Feet

Well Locations

- OSE Depth to GW
- USGS GW Well
- Point of Release

Karst Potential

- Critical
- High
- Medium
- Low

Scale

0 500 1,000 2,000 3,000
Feet

North Arrow

N

Site Map
 Thistle Unit #18H - Devon Energy Production Company
 UL: C S: 28 T: 23S R: 33E, Lea County, New Mexico

Figure 1

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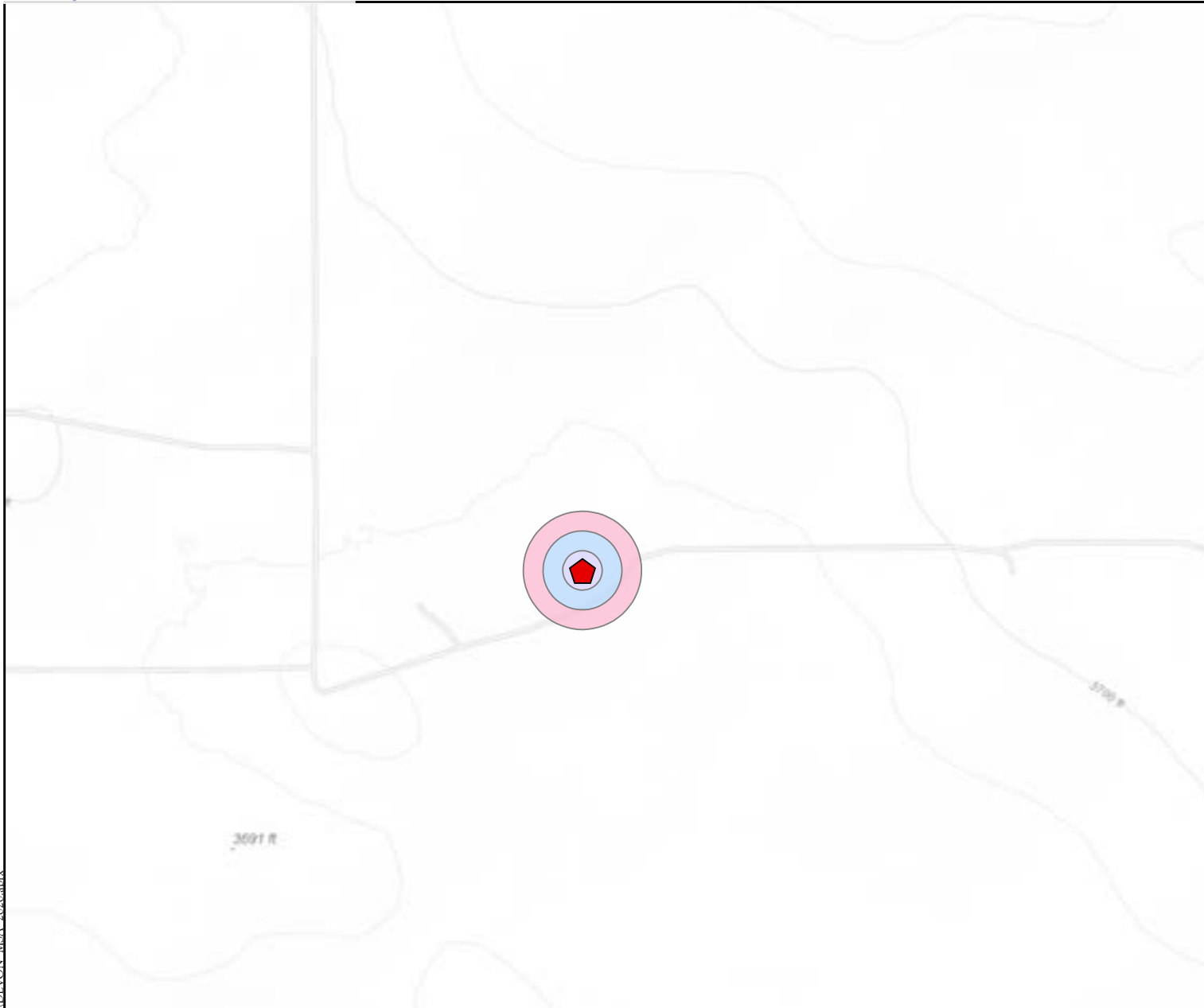
Revisions		
By: _____	Date: _____	Descr: _____
By: _____	Date: _____	Descr: _____












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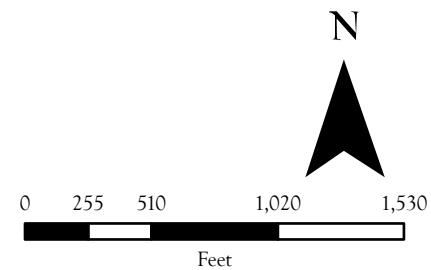
Drawn	Lynn A. Acosta
Date	4/10/2020
Checked	_____
Approved	_____



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 Carlsbad, New Mexico 88221
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 Serving the Southwest & Rocky Mountains



-  Point of Release
- Buffer Distance
 -  300 Feet
 -  200 Feet
 -  100 Feet
-  Springs & Seeps
-  Streams & Canals
-  Rivers
-  Flowlines SENM
-  NM Wetlands
-  Lakes & Playas
-  FEMA Flood Zones 2011



Surface Water Protection Map
 Thistle Unit #18H- Devon Energy Production Company
 32.282723 -103.581527 Lea County, New Mexico

Figure 2

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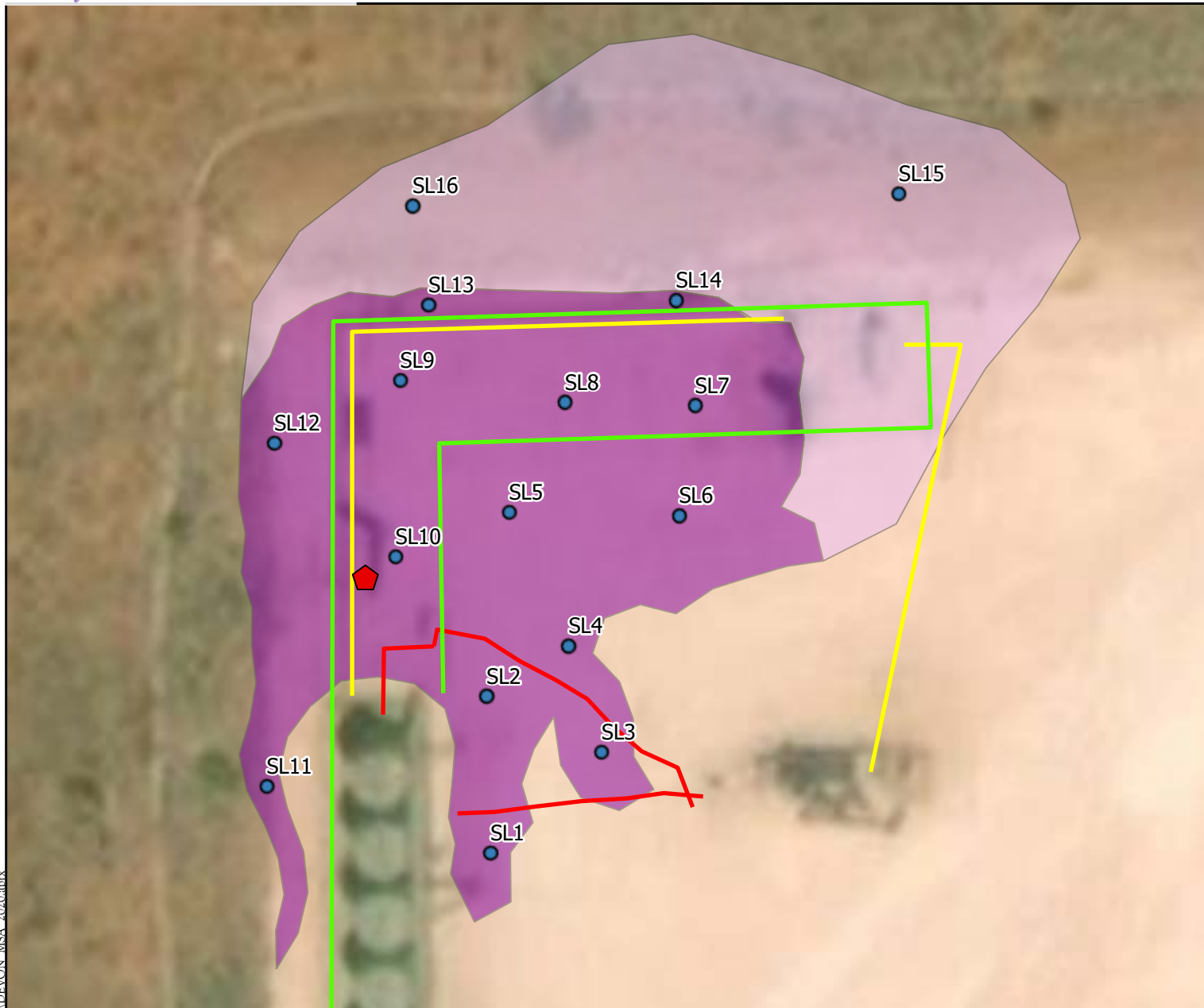
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By: _____	Date: _____	Descr: _____

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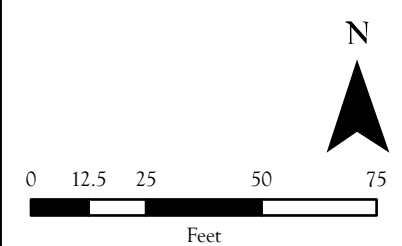
Drawn	Lynn A. Acosta
Date	4/13/2020
Checked	_____
Approved	_____



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- Legend**
- Point of Release
 - Overspray Area
 - Release Area
 - Soil Samples
 - Electrical Lines
 - Flowline
 - Fence Line



Site and Sample Location Map
 Thistle Unit #18H - Devon Energy Production Company
 32.282723 -103.581527 Lea County, New Mexico

Figure 3

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Date Saved: 4/13/2020

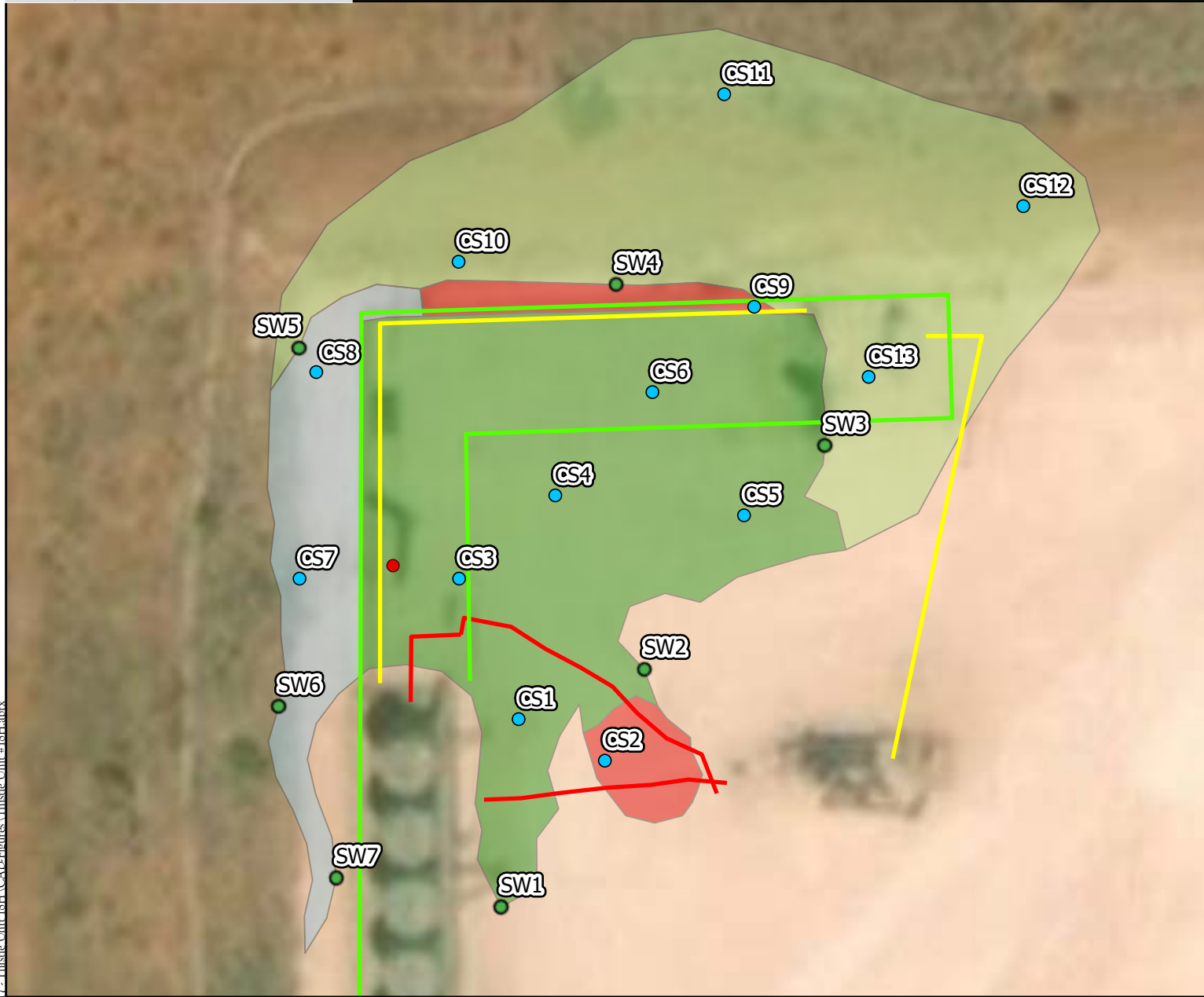
Revisions		
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By: _____	Date: _____	Descr: _____

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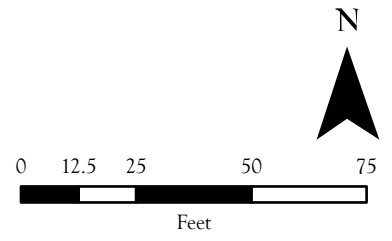
Drawn	Lynn A. Acosta
Date	4/13/2020
Checked	_____
Approved	_____



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- ### Legend
- Sidewall Sample
 - Soil Sample
 - Point of Release
 - Electrical Lines
 - Flowline
 - Fence Line
 - 1' Excavation
 - Overspray
 - 0.5' Excavation
 - 1.5' Excavation



Excavation and Confirmation Sample Map
 Thistle Unit #18H - Devon Energy Production Company
 32.282723 -103.581527 Lea County, New Mexico

Figure 3A

Revisions

By: _____ Date: _____ Descr: _____
 By: _____ Date: _____ Descr: _____

Drawn Lynn A. Acosta
 Date 6/4/2020
 Checked _____
 Approved _____



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 Date Saved: 6/3/2020

TABLES

Table 2:
NMOCD Closure Criteria

Devon Energy Production Company
Thistle Unit #18H (NRM2008553248)

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	~400	New Mexico Office of the State Engineer
Horizontal Distance From All Water Sources Within 1/2 Mile (ft)	NA	United States Geological Survey
Horizontal Distance to Nearest Significant Watercourse (ft)	16,450	Unnamed Playa

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater		Closure Criteria (units in mg/kg)				
		Chloride *numerical limit or background, whichever is greater	TPH	GRO + DRO	BTEX	Benzene
< 50' BGS		600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'	X	20000	2500	1000	50	10
Surface Water	yes or no	if yes, then				
<300' from continuously flowing watercourse or other significant watercourse?	No	600	100		50	10
<200' from lakebed, sinkhole or playa lake?	No					
Water Well or Water Source						
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
<1000' from fresh water well or spring?	No					
Human and Other Areas						
<300' from an occupied permanent residence, school, hospital, institution or church?	No					
within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
<100' from wetland?	No					
within area overlying a subsurface mine	No					
within an unstable area?	No					
within a 100-year floodplain?	No					

SMA #

Table 3A:
Summary of Sample Results

Devon Energy Production Company
Thistle Unit #18H
NRM2008553248

Sample ID	Sample Date	Depth (feet bgs)	BTEX mg/Kg	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	MRO mg/Kg	Total TPH mg/Kg	Cl- mg/Kg
NMOCD Closure Criteria			50	10	1000			2500	20000
Well Pad Area									
SL1	3/26/2020	0.5'	0.245	<0.024	20	2100	1100	3220	<60
		1'	<0.210	<0.023	<4.7	<8.4	<42	<55.1	<60
SL2		0.5'	<0.207	<0.023	<4.6	210	160	370	670
		1'	<0.221	<0.025	<4.9	<9.1	<45	<59	190
SL3		0.5'	1.25	<0.12	58	2000	1100	3158	<60
		1'	<0.235	<0.025	<5.0	150	85	235	<60
SL4		0.5'	0.11	<0.024	9.5	900	450	1359.5	<60
		1'	<0.211	<0.023	<4.7	41	<40	41	<60
SL5		0.5'	<0.217	<0.024	<4.8	650	350	1000	<61
		1'	<0.220	<0.024	<4.9	<9.4	<47	<61.3	<60
SL6	1'	<0.216	<0.024	<4.8	80	<49	80	<60	
	1.5'	<0.215	<0.024	<4.8	<8.4	<42	<55.2	<60	
SL7	0.5'	<0.220	<0.024	<4.9	290	180	470	1400	
	1'	<0.215	<0.024	<4.8	<7.9	<39	<51.7	260	
SL8	0.5'	<0.222	<0.025	<4.9	130	87	217	270	
	1'	<0.208	<0.023	<4.6	24	<41	24	180	
SL9	0.5'	<0.212	<0.024	<4.7	1400	740	2140	<60	
	1'	<0.213	<0.024	<4.7	95	68	163	<60	
SL10	0.5'	2.47	<0.12	93	2700	1300	4093	<60	
	1'	<0.220	<0.024	<4.9	<8.0	<40	<52.9	<60	
Pasture Area *									
SL11	3/26/2020	0.5'	1.6	<0.049	110	2,400	960	3470	<60
		1'	<0.219	<0.024	<4.9	53	<47	53	<60
SL12		0.5'	2.08	<0.046	93	1900	830	2823	<60
		1'	<0.219	<0.024	<4.9	220	120	340	<61
	4/13/2020	1.5'	-	-	<4.7	21	<47	21	-
SL13	3/26/2020	0.5'	<0.221	<0.025	6.5	2000	940	2946.5	<61
		1'	<2.08	<0.023	<4.6	13	<48	13	<61
SL14		0.5'	117.56	0.56	1400	11000	4200	16600	<60
		1'	8.03	<0.024	200	2800	1300	4300	<59
		1.5'	<0.207	<0.023	<4.6	17	<47	17	<60
Overspray Area *									
SL15	3/26/2020	Surface	<0.219	<0.024	<4.9	<9.3	<46	<60.2	<60
SL16		Surface	<0.216	<0.024	<4.8	9.8	<49	9.8	<60

"--" = Not Analyzed

* = per Reclamation Standard (19.15.29.13.D(1) NMAC)

Table 3B:
Summary of Sample Results

Devon Energy Production Company
Thistle Unit #18H
NRM2008553248

Sample ID	Sample Date	BTEX mg/Kg	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	MRO mg/Kg	Total TPH mg/Kg	Cl- mg/Kg
NMOCB Closure Criteria >100		50	10	1000			2500	20000
Well Pad Area								
CS1	5/6/2020	<0.208	<0.023	<4.6	380	240	620	450
CS2		<0.220	<0.024	<4.9	<9.4	<47	<61.3	61
CS3		<0.221	<0.025	<4.9	190	130	320	82
CS4		<0.222	<0.025	<4.9	<9.5	<48	<62.4	120
CS5		<0.215	<0.024	<4.8	68	48	116	170
CS6		<0.216	<0.024	<4.8	300	260	560	120
SW1		<0.222	<0.025	<4.9	<9.8	<49	<63.7	<60
SW2		<0.216	<0.024	<4.8	<9.1	<46	<59.9	<60
SW3		<0.210	<0.023	<4.7	<9.8	<49	<63.5	<60
Pasture Area *								
CS7	5/6/2020	<0.224	<0.025	<5.0	<9.1	<46	<60.1	<60
CS8		<0.216	<0.024	<4.8	<9.7	<49	<63.5	<60
CS9		<0.217	<0.024	<4.8	<9.3	<47	<61.1	<60
SW4		<0.216	<0.024	<4.8	<9.6	<48	<62.4	<60
SW5		<0.217	<0.024	<4.8	<8.7	<43	<56.5	<60
SW6		<0.216	<0.024	<4.8	<9.4	<47	<61.2	<60
SW7		<0.221	<0.025	<4.9	<9.3	<47	<61.2	<60
Overspray*								
CS10	5/6/2020	<0.216	<0.024	<4.8	<9.4	<47	<61.2	<59
CS11		<0.216	<0.024	<4.8	<9.7	<49	<63.5	<60
CS12		<0.224	<0.025	<5.0	<10	<50	<65	<60
CS13		<0.222	<0.025	<4.9	10	<49	10	<60

Table 4:
Potential Depth to Groundwater

Devon Energy Production Company
Thistle Unit #18H
NRM2008553248

Depth To Groundwater			Calculations	
Location Elevation (ft):		3691		
Well Name	Well Elevation (ft)	Well Depth to GW	Groundwater Elevation	Depth to GW at Location
C 02277	3696	400	3296	395
C 02278	3689	400	3289	402
C 02280	3681	400	3281	410
C 02281	3693	400	3293	398
C 02279	3683	400	3283	408
321746103352301	3699	471	3229	463
321609103321701	3648	146	3502	189
321611103321601	3641	124	3517	174
321619103315801	3635	117	3518	173
				3691
Total # of Wells	9			3011.84

Potential Depth to GW at Release: 334.648888888889

APPENDIX A FORM C141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2008553248
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Incident ID	NRM2008553248
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
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.
Printed Name: _____ Title: _____ Signature: <u>Kendra DeHoyos</u> Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>03/25/2020</u>

Inputs in blue, Outputs in red

Contaminated Soil measurement

Area (square feet)	Depth(inches)
<u>55083</u>	<u>0.050</u>
Cubic Feet of Soil Impacted	<u>229.513</u>
Barrels of Soil Impacted	<u>40.91</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>6.14</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	6.14

Free Standing Fluid Only

Area (square feet)	Depth(inches)
<u>15780</u>	<u>0.200</u>
Standing fluid	<u>46.881</u>
Total fluids spilled	<u>53.017</u>

Incident ID	NRM2008553248
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	_____ 400 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NRM2008553248
District RP	
Facility ID	
Application ID	

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.

Printed Name: Tom Bynum Title: EHS Consultant

Signature: *Tom Bynum* Date: 10/30/2020

email: tom.bynum@dvn.com Telephone: 575-748-2663

OCD Only

Received by: _____ Date: _____

Incident ID	NRM2008553248
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Tom Bynum Title: EHS Consultant
 Signature: *Tom Bynum* Date: 10/30/2020
 email: tom.bynum@dvn.com Telephone: 575-748-2663

OCD Only

Received by: Chad Hensley Date: 02/17/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: DENIED Date: 02/17/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

APPENDIX B

NMOSE WELLS REPORT



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 6	Q 4	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 02277	CUB	LE	2 3 4	20	23S	33E					632663	3572970*	964	550	400	150
C 02278	CUB	LE	3 4 2	28	23S	33E					634484	3571989*	1128	650	400	250
C 02280	CUB	LE	3 2 4	28	23S	33E					634489	3571586*	1407	650	400	250
C 02279	CUB	LE	3 4 3	28	23S	33E					633691	3571173*	1488	650	400	250
C 02281	CUB	LE	3 4 4	28	23S	33E					634495	3571183*	1737	545	400	145

Average Depth to Water: **400 feet**
Minimum Depth: **400 feet**
Maximum Depth: **400 feet**

Record Count:5

UTMNAD83 Radius Search (in meters):

Easting (X): 633575

Northing (Y): 3572657

Radius: 2000

*UTM location was derived from PLSS - see Help

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

5/26/20 4:29 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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USGS Water Resources

Data Category: Groundwater	Geographic Area: United States	GO
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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 321609103321701

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321609103321701 23S.33E.26.421342

Available data for this site

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°16'09", Longitude 103°32'17" NAD27

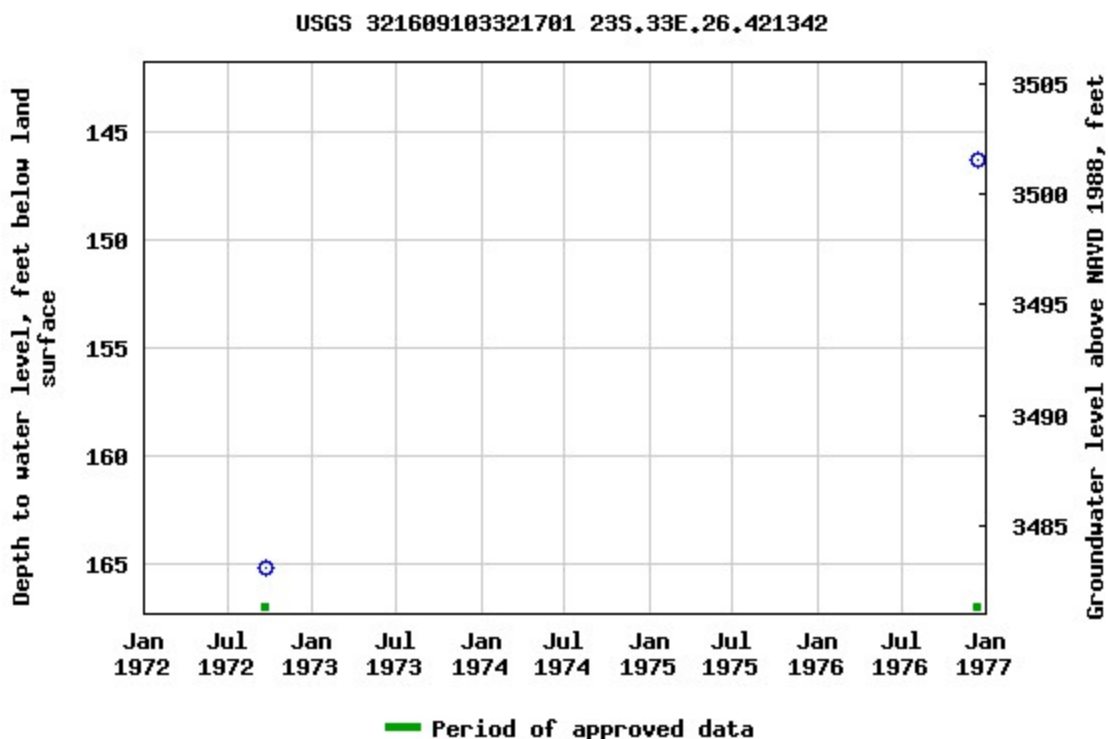
Land-surface elevation 3,648 feet above NAVD88

The depth of the well is 173 feet below land surface.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



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0.7 0.58 nadww01




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site_no list =

- 321611103321601

Minimum number of levels = 1

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USGS 321611103321601 23S.33E.26.42100

Available data for this site

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°16'28.0", Longitude 103°32'15.6" NAD83

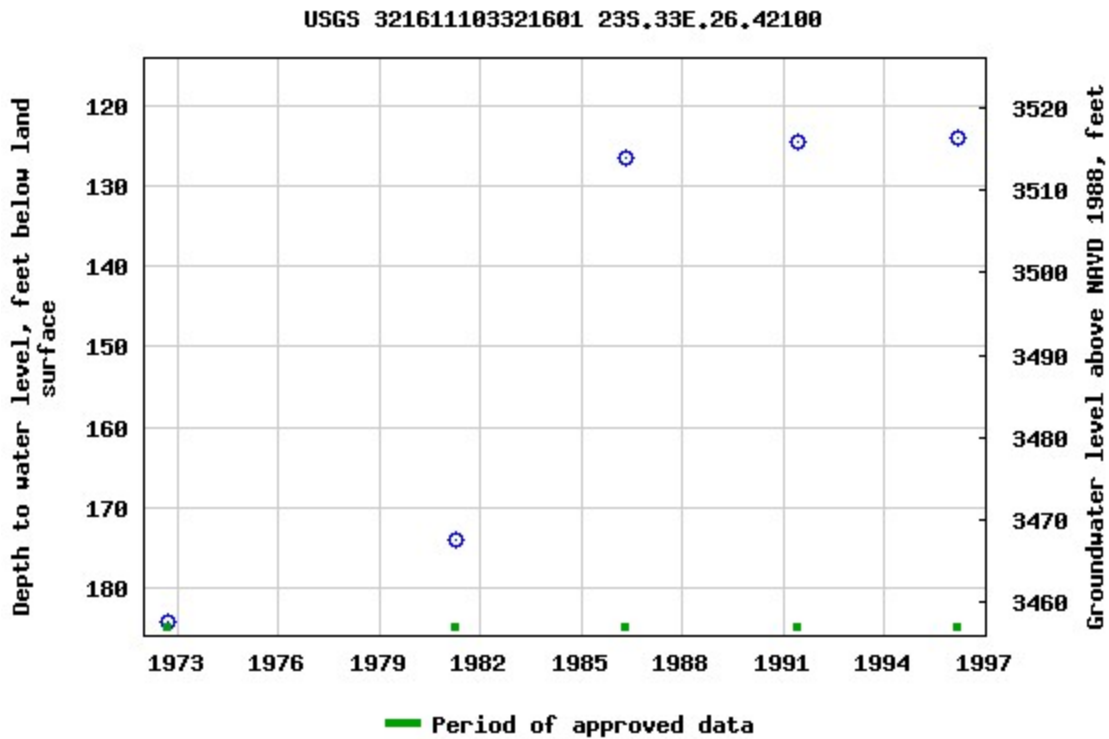
Land-surface elevation 3,641 feet above NAVD88

The depth of the well is 190 feet below land surface.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



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- 321619103315801

Minimum number of levels = 1

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USGS 321619103315801 23S.33E.26.42424

Available data for this site

Lea County, New Mexico

Hydrologic Unit Code 13070007

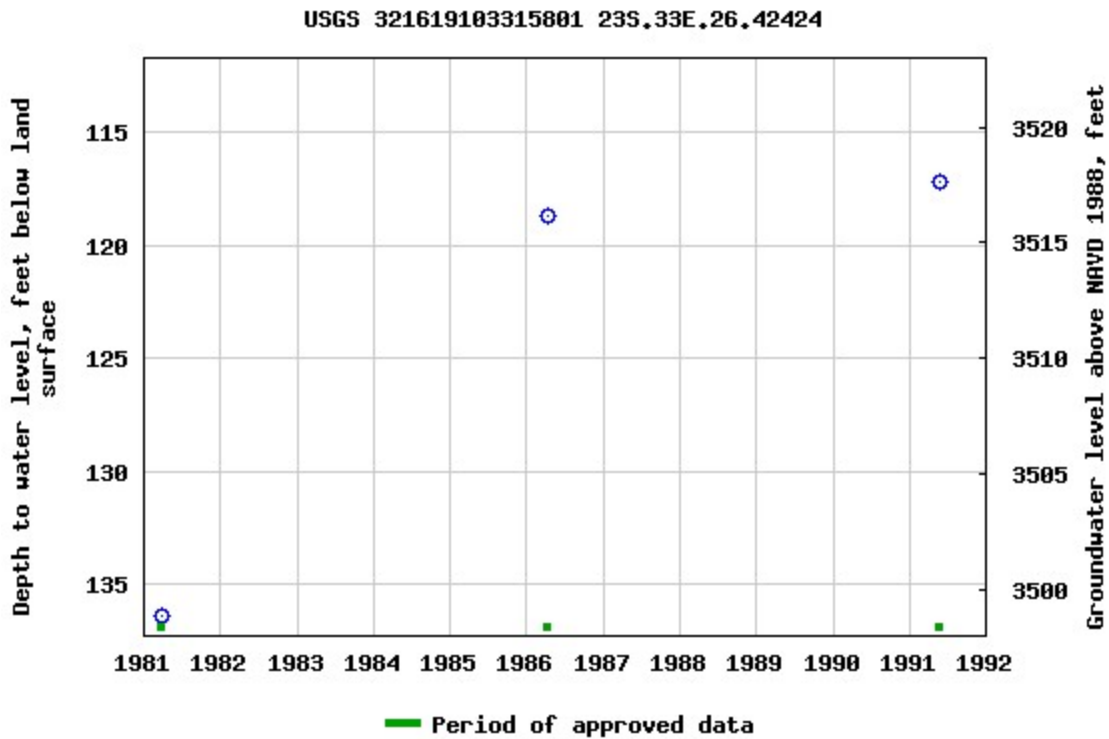
Latitude 32°16'19", Longitude 103°31'58" NAD27

Land-surface elevation 3,635 feet above NAVD88

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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0.66 0.57 nadww01



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Data Category: Groundwater	Geographic Area: United States	GO
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Search Results -- 1 sites found

site_no list =

- 321746103352301

Minimum number of levels = 1

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USGS 321746103352301 23S.33E.17.42331

Available data for this site

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°17'46", Longitude 103°35'23" NAD27

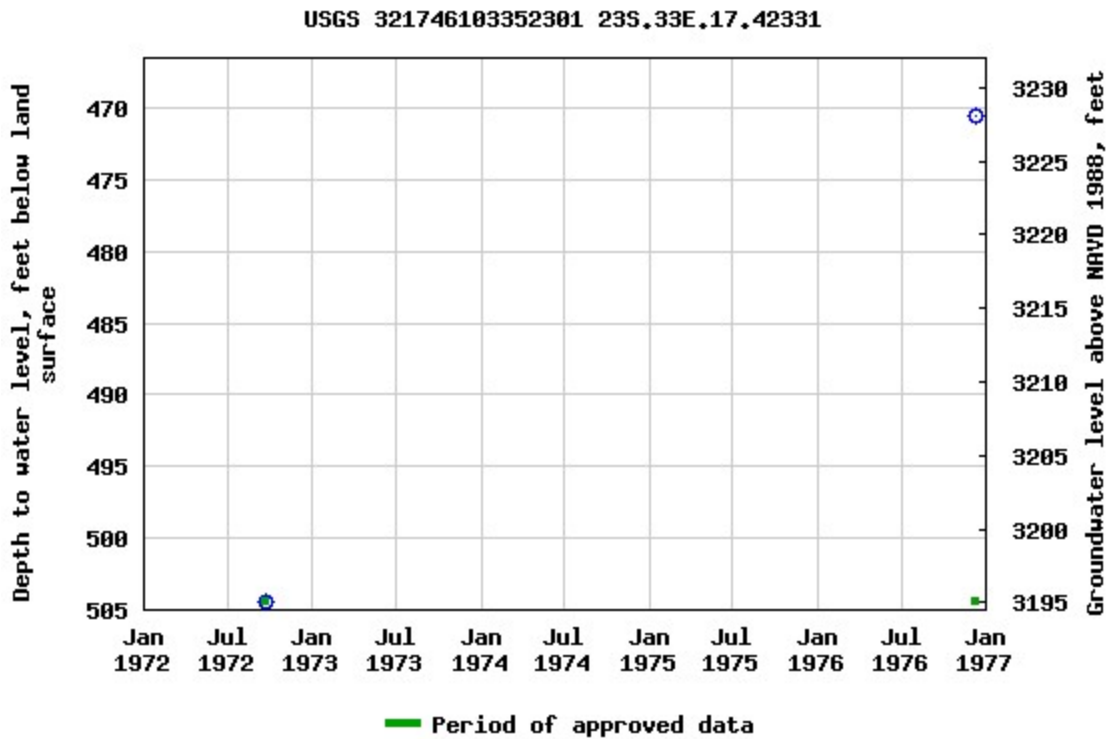
Land-surface elevation 3,699 feet above NAVD88

The depth of the well is 550 feet below land surface.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



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Title: Groundwater for USA: Water Levels

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APPENDIX C

VSP SAMPLING POTOCOL

VSP Sample Design Report for Using Stratified Sampling to Estimate the Population Proportion

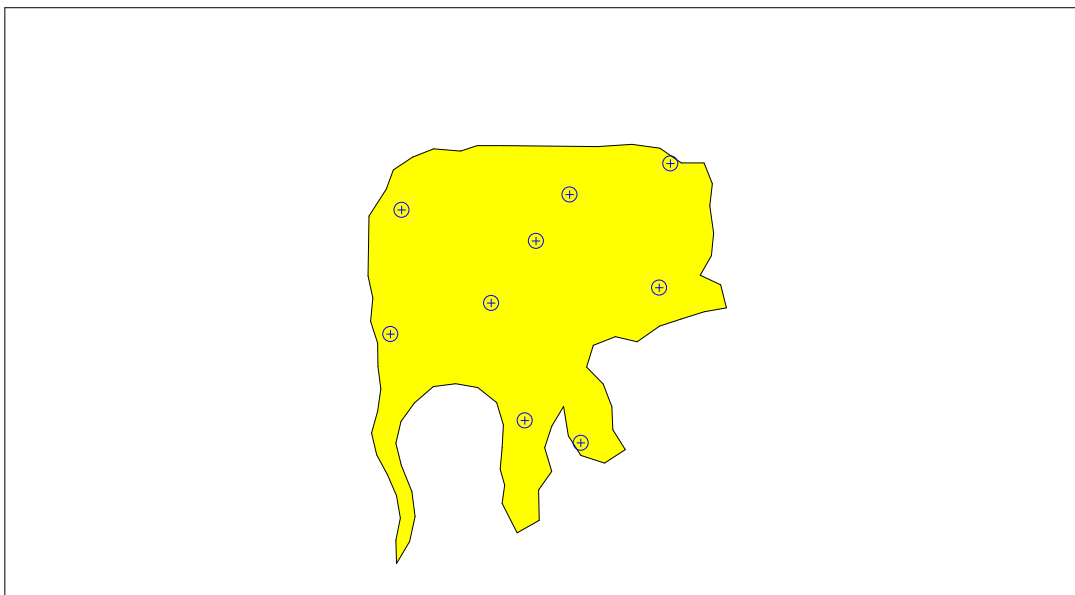
Summary

This report summarizes the stratified sampling design used, associated statistical assumptions, as well as general guidelines for conducting post-sampling data analysis. Sampling plan components presented here include how many sampling locations to choose and where within the sampling area to collect those samples. The type of medium to sample (i.e., soil, groundwater, etc.) and how to analyze the samples (in-situ, fixed laboratory, etc.) are addressed in other sections of the sampling plan. It is important to note that the decision for sample size calculation is determined for the combined strata, rather than any individual strata.

The following table summarizes the proportion stratified sampling design developed. A figure that shows sampling locations in the field and a table that lists sampling location coordinates are also provided below.

SUMMARY OF SAMPLING DESIGN	
Primary Objective of Design	Estimate the population proportion of all strata combined
Criteria for Determining Total Number of Samples	Achieve pre-specified precision of the estimated proportion for specified stratum costs, but no restriction on total costs
Sample Placement (Location) in the Field	Simple random sampling within each stratum
Formula for calculating number of sampling locations	From Gilbert (1987, page 51)
Method for calculating number of sampling locations in each stratum	Optimal Allocation
Calculated total number of samples	9
Stratum 1	9
Total area of all strata	17202.60 ft ²
Total cost of sampling ^a	

^a Including measurement analyses and fixed overhead costs. See the Cost of Sampling section for an explanation of the costs presented here.



Area: Area 2

X Coord	Y Coord	Label	Value	Type	Historical	Sample Area
2465168.7594	476892.0572			Random		
2465248.8205	476788.0145			Random		
2465208.7900	476850.4401			Random		
2465288.8510	476912.8657			Random		
2465228.8052	476878.1848			Random		
2465163.7556	476836.5677			Random		
2465243.8167	476898.9933			Random		
2465283.8472	476857.3763			Random		
2465223.8014	476798.0334			Random		

Primary Sampling Objective

The primary purpose of sampling at this site is to estimate the proportion for the entire site, i.e., for all strata combined, such that the estimated proportion has the minimum possible standard deviation under the condition that the sampling and measurement costs cannot exceed a specified amount. Preexisting information was used to divide the site into 1 non-overlapping strata that were expected to be more homogeneous internally than for the entire site (all strata combined). The expected variability of values within each stratum was estimated or approximated, and the stratum weights, W_h , were determined so that the total number of samples could be allocated appropriately among the strata.

Number of Total Samples: Calculation Equation and Inputs

The total number of samples is computed to achieve the pre-specified precision of the estimated population proportion for specified stratum costs, but no restriction on total costs. *Note that the calculation is for the total number of samples, i.e., for combined strata, rather than individual strata.*

The formula used to calculate the total number of samples is:

$$n = \frac{\left(\sum_{h=1}^L W_h \sqrt{P_h(1-P_h)} \sqrt{c_h} \right) \sum_{h=1}^L \frac{W_h \sqrt{P_h(1-P_h)}}{\sqrt{c_h}}}{V + \frac{1}{N} \sum_{h=1}^L W_h P_h(1-P_h)}$$

where

- L is the number of strata, $h=1,2,\dots,L$,
- P_h is the estimated proportion of measurements in stratum h ,
- $W_h = N_h / N$ is the weight associated with stratum h ,
- N_h is the total number of possible sampling locations (units) in stratum h ,
- N is the total number of possible units in all strata combined, $N = \sum_{h=1}^L N_h$

- V is the pre-specified variance or precision, and
- c_h is the cost of collecting and measuring a sample in stratum h .

The values of these inputs that result in the calculated number of sampling locations are:

Parameter	Stratum
	1
P_h	0.2
C_h	
W_h	17202.6

Parameter	Input Value
-----------	-------------

V 1

Allocation of Samples to Strata

The total number of samples is allocated to the individual strata on an optimal basis using the formula:

$$n_h = n \frac{N_h \sqrt{P_h(1-P_h)} / \sqrt{c_h}}{\sum_{h=1}^L N_h \sqrt{P_h(1-P_h)} / \sqrt{c_h}}$$

where

- n_h is the number of samples allocated to stratum h ,
- L is the number of strata,
- N_h is the total number of units in stratum h ,
- P_h is the proportion in stratum h ,
- c_h is the cost per population unit in stratum h .

n is the total number of units sampled in all strata,

$$n = \sum_{h=1}^L n_h$$

Using this formula, the number of samples allocated to each stratum is:

Stratum	Number of Samples
1	9
Total Samples	9

Method for Determining Sampling Locations

Five methods for determining sample locations are provided in VSP: 1) simple random sampling, 2) random sampling within grids, 3) systematic sampling with a random start, 4) systematic sampling with a fixed start and 5) adaptive grid sampling. One may use a different method for each stratum, based on the conceptual site model and decision to be made for a given stratum. For this site, sample locations were chosen using simple random sampling in each stratum.

Locating the sample points randomly within each stratum provides sampling locations that can, due to the random selection process, leave some areas of the stratum that are not well represented in the samples collected. This potential problem is not expected to result in inappropriate data for estimating the strata proportions or the entire site proportion if the population values in each stratum do not vary greatly among different portions of the stratum. If major spatial patterns of population values are expected to occur within a stratum, then systematic grid sampling is usually a better choice for that stratum.

Statistical Assumptions

The assumptions associated with the formulas for computing the number of samples are:

1. The estimated stratum proportions, P_h , are reasonable and representative of the stratum populations being sampled.
2. The sampling locations are selected using simple random sampling.
3. The stratum costs, C_h , and the fixed cost C_0 , are accurate.

The first and third assumptions will be assessed in a post data collection analysis. The second assumption is valid because simple random sampling is used.

Cost of Sampling

The total cost of the completed sampling program depends on several cost inputs, some of which are fixed, and others that are based on the number of samples collected and measured. Based on the numbers of samples determined above, the estimated total cost of sampling and analysis at this site is \$5,500.00, which averages out to a per sample cost of \$611.11. The following table summarizes the inputs and resulting cost estimates.

COST INFORMATION

Stratum	Samples	Collection Cost Per Sample	Analytic Cost Per Sample	Total Cost
1	9			
Total Samples:	9		Subtotal:	
			Fixed Startup Cost:	
			Grand Total:	

Recommended Data Analysis Activities

Post data collection activities generally follow those outlined in EPA's Guidance for Data Quality Assessment (EPA, 2000). The data analysts will become familiar with the context of the problem and goals for data collection and assessment. The data will be verified and validated before being subjected to statistical or other analyses. Graphical and analytical tools will be used to verify to the extent possible the assumptions of any statistical analyses that are performed as well as to achieve a general understanding of the data. The data will be assessed to determine whether they are adequate in both quality and quantity to support the primary objective of sampling.

Estimates for the proportion of the population values will be calculated using the formulas appropriate for stratified sampling; these formulas are found in EPA QA/G-5S (EPA, 2001). Results of the exploratory and quantitative assessments of the data will be reported, along with conclusions that may be supported by them.

This report was automatically produced* by Visual Sample Plan (VSP) software version 7.12a.

This design was last modified 5/6/2020 6:14:00 AM.

Software and documentation available at <http://vsp.pnnl.gov>

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* - The report contents may have been modified or reformatted by end-user of software.

VSP Sample Design Report for Using Stratified Sampling to Estimate the Population Proportion

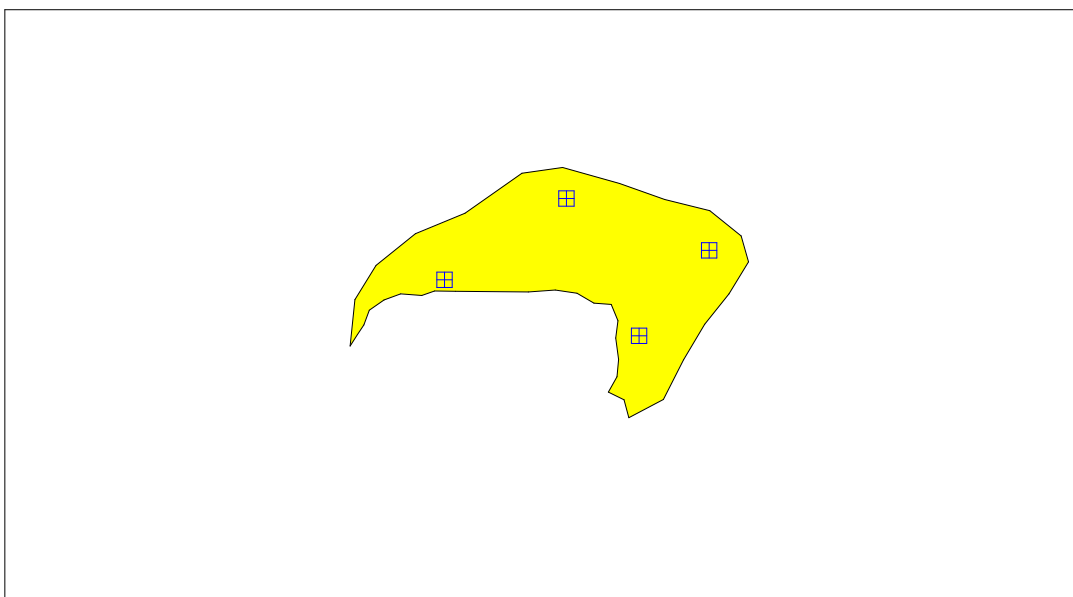
Summary

This report summarizes the stratified sampling design used, associated statistical assumptions, as well as general guidelines for conducting post-sampling data analysis. Sampling plan components presented here include how many sampling locations to choose and where within the sampling area to collect those samples. The type of medium to sample (i.e., soil, groundwater, etc.) and how to analyze the samples (in-situ, fixed laboratory, etc.) are addressed in other sections of the sampling plan. It is important to note that the decision for sample size calculation is determined for the combined strata, rather than any individual strata.

The following table summarizes the proportion stratified sampling design developed. A figure that shows sampling locations in the field and a table that lists sampling location coordinates are also provided below.

SUMMARY OF SAMPLING DESIGN	
Primary Objective of Design	Estimate the population proportion of all strata combined
Criteria for Determining Total Number of Samples	Achieve pre-specified precision of the estimated proportion for specified stratum costs, but no restriction on total costs
Sample Placement (Location) in the Field	Random sampling within grids within each stratum
Formula for calculating number of sampling locations	From Gilbert (1987, page 51)
Method for calculating number of sampling locations in each stratum	Optimal Allocation
Calculated total number of samples	4
Stratum 1	4
Total area of all strata	14159.95 ft ²
Total cost of sampling ^a	

^a Including measurement analyses and fixed overhead costs. See the Cost of Sampling section for an explanation of the costs presented here.



Area: Area 1

X Coord	Y Coord	Label	Value	Type	Historical	Sample Area
2465319.8735	476895.1529			Random in Grid		
2465208.2467	476927.4048			Random in Grid		
2465360.0278	476944.3262			Random in Grid		
2465278.1161	476973.9368			Random in Grid		

Primary Sampling Objective

The primary purpose of sampling at this site is to estimate the proportion for the entire site, i.e., for all strata combined, such that the estimated proportion has the minimum possible standard deviation under the condition that the sampling and measurement costs cannot exceed a specified amount. Preexisting information was used to divide the site into 1 non-overlapping strata that were expected to be more homogeneous internally than for the entire site (all strata combined). The expected variability of values within each stratum was estimated or approximated, and the stratum weights, W_h , were determined so that the total number of samples could be allocated appropriately among the strata.

Number of Total Samples: Calculation Equation and Inputs

The total number of samples is computed to achieve the pre-specified precision of the estimated population proportion for specified stratum costs, but no restriction on total costs. *Note that the calculation is for the total number of samples, i.e., for combined strata, rather than individual strata.*

The formula used to calculate the total number of samples is:

$$n = \frac{\left(\sum_{h=1}^L W_h \sqrt{P_h(1-P_h)} \sqrt{c_h} \right) \sum_{h=1}^L \frac{W_h \sqrt{P_h(1-P_h)}}{\sqrt{c_h}}}{V + \frac{1}{N} \sum_{h=1}^L W_h P_h(1-P_h)}$$

where

L is the number of strata, $h=1,2,\dots,L$,

P_h is the estimated proportion of measurements in stratum h ,

$W_h = N_h / N$ is the weight associated with stratum h ,

N_h is the total number of possible sampling locations (units) in stratum h ,

N is the total number of possible units in all strata combined,

$$N = \sum_{h=1}^L N_h$$

V is the pre-specified variance or precision, and

c_h is the cost of collecting and measuring a sample in stratum h .

The values of these inputs that result in the calculated number of sampling locations are:

Parameter	Stratum
	1
P_h	0.2
C_h	
W_h	14159.9

Parameter	Input Value
V	1

Allocation of Samples to Strata

The total number of samples is allocated to the individual strata on an optimal basis using the formula:

$$n_h = n \frac{N_h \sqrt{P_h(1-P_h)} / \sqrt{c_h}}{\sum_{h=1}^L N_h \sqrt{P_h(1-P_h)} / \sqrt{c_h}}$$

where

n_h is the number of samples allocated to stratum h ,

L is the number of strata,

N_h is the total number of units in stratum h ,

P_h is the proportion in stratum h ,

c_h is the cost per population unit in stratum h .

n is the total number of units sampled in all strata,

$$n = \sum_{h=1}^L n_h$$

Using this formula, the number of samples allocated to each stratum is:

Stratum	Number of Samples
1	4
Total Samples	4

Method for Determining Sampling Locations

Five methods for determining sample locations are provided in VSP: 1) simple random sampling, 2) random sampling within grids, 3) systematic sampling with a random start, 4) systematic sampling with a fixed start and 5) adaptive grid sampling. One may use a different method for each stratum, based on the conceptual site model and decision to be made for a given stratum. For this site, sample locations were chosen using random sampling within grids in each stratum.

Locating the sample points using a random sampling within grids method combines appealing aspects of both the random and the systematic grid methods. It provides data that are separated by many distances, providing information about the spatial structure of the potential contamination. It also ensures good coverage of the entire site, although not as completely as if systematic grid sampling were performed.

Statistical Assumptions

The assumptions associated with the formulas for computing the number of samples are:

1. The estimated stratum proportions, P_h , are reasonable and representative of the stratum populations being sampled.
2. The sampling locations are selected using simple random sampling.
3. The stratum costs, C_h , and the fixed cost C_0 , are accurate.

The first and third assumptions will be assessed in a post data collection analysis. The second assumption, although not strictly valid for strata where systematic grid sampling was used rather than simple random sampling, is not expected to significantly affect conclusions of the study because (1) the gridded sample locations were selected based on a random start and (2) any patterns of contamination in the field that may exist are not expected to coincide with the regularity of the grid sampling pattern.

Cost of Sampling

The total cost of the completed sampling program depends on several cost inputs, some of which are fixed, and others that are based on the number of samples collected and measured. Based on the numbers of samples determined above, the estimated total cost of sampling and analysis at this site is \$3,000.00, which averages out to a per sample cost of \$750.00. The following table summarizes the inputs and resulting cost estimates.

COST INFORMATION				
Stratum	Samples	Collection Cost Per Sample	Analytic Cost Per Sample	Total Cost

1	4		
Total Samples:	4		Subtotal:
			Fixed Startup Cost:
			Grand Total:

Recommended Data Analysis Activities

Post data collection activities generally follow those outlined in EPA's Guidance for Data Quality Assessment (EPA, 2000). The data analysts will become familiar with the context of the problem and goals for data collection and assessment. The data will be verified and validated before being subjected to statistical or other analyses. Graphical and analytical tools will be used to verify to the extent possible the assumptions of any statistical analyses that are performed as well as to achieve a general understanding of the data. The data will be assessed to determine whether they are adequate in both quality and quantity to support the primary objective of sampling.

Estimates for the proportion of the population values will be calculated using the formulas appropriate for stratified sampling; these formulas are found in EPA QA/G-5S (EPA, 2001). Results of the exploratory and quantitative assessments of the data will be reported, along with conclusions that may be supported by them.

This report was automatically produced* by Visual Sample Plan (VSP) software version 7.12a.

This design was last modified 5/6/2020 6:27:51 AM.

Software and documentation available at <http://vsp.pnnl.gov>

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* - The report contents may have been modified or reformatted by end-user of software.

APPENDIX D
PHOTO LOG & FIELD
SCREENS



Field Screening

Location Name:

Date:

Devon - Trustle Unit #1841

3-26-20

Sample Name:	Soil Type:	Depth (BGS)	Collection Time:	EC (ppm)	Temp (°C)	PID Reading	PF
L1	small HC Caliche	0.5'	8:05	0.08	23.5°C	384	
	odor rd soil	1'	8:10	0.04	23.1°C	47.5	
	red soil	1.5'	8:15	0.03	22.8°C	9.4	
L2	odor Caliche	0.5'	8:20	0.65	22.8°C	107	
	odor red soil, wet	1'	8:25	0.36	23.5°C	19.6	
	red soil	1.5'	8:30	0.29	22.9°C	7.1	
L3	Caliche	0.5'	8:55	0.11	25.4°C	630	
	odor rd soil	1'	9:00	0.07	23.5°C	112	
	no small rd soil	1.5'	9:10	0.11	22.7°C	7.2	
L4	odor Caliche	0.5'	9:20	0.12	24.6°C	246	
	odor rd soil, fm wt	1'	9:40	0.12	24.3°C	51.55.4	
	rd soil	1.5'	9:50	0.16	25.5°C	20.9	
L5	odor Caliche	0.5'	10:10	0.13	24.7°C	164	
	odor rd soil	1'	10:15	0.14	24.9°C	19.1	
	fresh rd soil	1.5'	10:20	0.05	23.1°C	15.7	
L6	odor rd soil	1'	10:30	0.09	24.2°C	12.4	
	rd soil	1.5'	10:35	0.13	23.9°C	7.5	
L7	odor Caliche	0.5'	10:50	1.46	26.5°C	62.6	
	odor rd soil	1'	10:55	0.41	27.1°C	24.1	
	rd soil	1.5'	11:00	0.35	26.8°C	20.1	
L8	odor Caliche	0.5'	11:10	0.43	28.3°C	32.6	
	odor rd soil	1'	11:15	0.36	27.4°C	23.2	
	it. odor rd soil	1.5'	11:20	0.24	27.5°C	17.6	

Field Screening

Location Name:

Date:

Sample Name:	Soil Type:	Depth (BGS)	Collection Time:	EC (ppm)	Temp (°C)	PID Reading	PF
L 9	caliche	0.5'	11:30	0.36	28.3°C	92.3	
	rd sd	1.0'	11:35	0.11	28.0°C	44.2-76.5	
	rd sd	1.5'	11:40	0.10	27.3°C	23.7	
L 10	caliche	0.5'	11:50	0.09	27.5°C	60.2	
	rd sd	1'	11:55	0.07	27.9°C	46.5	
	rd sd	1.5'	12:00	0.04	27.8°C	35.1	
L 11	caliche	0.5'	12:10	0.06	28.1°C	72.9	
	rd sd	1.0'	12:15	0.04	27.9°C	18.0	
	rd sd	1.5'	12:20	0.02	27.3°C	49.4	
L 12	caliche	0.5'	12:25	0.06	29.1	67.9	
	rd sd	1'	12:30	0.04	27.7	12.4	
	" "	1.5'	12:33	0.02	28.1	71.2	
L 13	caliche	0.5'	12:37	0.08	29.5	14.3	
	rd sd	1'	12:40	0.03	28.7	60.4	
L 13	" "	1.5'	12:43	0.03	29.2	38.7	
L 14	caliche	0.5'	12:47	0.36	28.6	161.9	
	rd sd	1'	12:50	0.23	29.7	87.3	
	" "	1.5'	1:00	0.03	29.7	10.8	
OVERSPRAY							
L 15	sand	surface	1:05	0.03	28.3	60.6	
L 16	" "	" "	1:10	0.02	29.4	30.2	

Field Screening

Location Name:

Date:

Thistle Unit #18H

5-6-20

Sample Name:	Soil Type:	Depth (BGS)	Collection Time:	EC (ppm)	Temp (°C)	PID-Reading	PF
CS1	Caliche layer of pad	0.5'	945	0.42	25.7	_____	_____
CS2	"	0.5'	947	0.14	25.3	_____	_____
CS3	"	0.5'	949	0.27	25.5	_____	_____
CS4	"	0.5'	952	0.8 ^{0.24}	25.7	_____	_____
CS5	"	0.5'	954	0.36	26.0	_____	_____
CS6	"	0.5'	956	0.28	25.6	_____	_____
CS7	"	0.5'	957	0.12	25.6	_____	_____
CS8	red sand	1'	1002	0.02	25.9	_____	_____
CS9	"	1'	1250	0.03	27.6	_____	_____
CS10	" surface red sand	"	1222	0.06	27.5	_____	_____
CS11	" surface	"	1226	0.07	27.3	_____	_____
CS12	" surface 1.5'	"	1228	0.06	27.5	_____	_____
CS13	" surface 1.5'	"	1230	0.07	27.6	_____	_____
SW1	red sand	0-0.5'	136	0.08	27.8	_____	_____
SW2	"	"	138	0.10	27.8	_____	_____
SW3	"	"	140	0.05	28.0	_____	_____
SW4	"	0-1'	142	0.02	27.9	_____	_____
SW5	"	0-1.5'	144	0.11	27.9	_____	_____
SW6	"	0-1.5'	146	0.06	28.1	_____	_____
SW7	"	0-1.5'	148	0.09	28.0	_____	_____

APPENDIX E

LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 06, 2020

Ashley Maxwell
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-8801
FAX

RE: Thistle Unit 18H

OrderNo.: 2003C62

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 31 sample(s) on 3/28/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2003C62

Date Reported: 4/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL1-0.5'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 8:05:00 AM

Lab ID: 2003C62-001

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 1:23:04 PM	51470
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	2100	94		mg/Kg	10	4/1/2020 9:39:56 PM	51419
Motor Oil Range Organics (MRO)	1100	470		mg/Kg	10	4/1/2020 9:39:56 PM	51419
Surr: DNOP	0	55.1-146	S	%Rec	10	4/1/2020 9:39:56 PM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	20	4.8		mg/Kg	1	4/2/2020 5:53:48 PM	51417
Surr: BFB	241	66.6-105	S	%Rec	1	4/2/2020 5:53:48 PM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/2/2020 5:53:48 PM	51417
Toluene	ND	0.048		mg/Kg	1	4/2/2020 5:53:48 PM	51417
Ethylbenzene	0.055	0.048		mg/Kg	1	4/2/2020 5:53:48 PM	51417
Xylenes, Total	0.19	0.096		mg/Kg	1	4/2/2020 5:53:48 PM	51417
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	4/2/2020 5:53:48 PM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL1-1'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 8:10:00 AM

Lab ID: 2003C62-002

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 3:38:53 PM	51470
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	3/31/2020 11:15:16 PM	51419
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	3/31/2020 11:15:16 PM	51419
Surr: DNOP	89.5	55.1-146		%Rec	1	3/31/2020 11:15:16 PM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/2/2020 7:04:18 PM	51417
Surr: BFB	98.6	66.6-105		%Rec	1	4/2/2020 7:04:18 PM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/2/2020 7:04:18 PM	51417
Toluene	ND	0.047		mg/Kg	1	4/2/2020 7:04:18 PM	51417
Ethylbenzene	ND	0.047		mg/Kg	1	4/2/2020 7:04:18 PM	51417
Xylenes, Total	ND	0.093		mg/Kg	1	4/2/2020 7:04:18 PM	51417
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	4/2/2020 7:04:18 PM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL2-0.5'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 8:20:00 AM

Lab ID: 2003C62-003

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	670	60		mg/Kg	20	4/1/2020 3:51:14 PM	51470
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	210	9.2		mg/Kg	1	3/31/2020 11:39:37 PM	51419
Motor Oil Range Organics (MRO)	160	46		mg/Kg	1	3/31/2020 11:39:37 PM	51419
Surr: DNOP	100	55.1-146		%Rec	1	3/31/2020 11:39:37 PM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/2/2020 8:15:19 PM	51417
Surr: BFB	102	66.6-105		%Rec	1	4/2/2020 8:15:19 PM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/2/2020 8:15:19 PM	51417
Toluene	ND	0.046		mg/Kg	1	4/2/2020 8:15:19 PM	51417
Ethylbenzene	ND	0.046		mg/Kg	1	4/2/2020 8:15:19 PM	51417
Xylenes, Total	ND	0.092		mg/Kg	1	4/2/2020 8:15:19 PM	51417
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	4/2/2020 8:15:19 PM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL2-1'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 8:25:00 AM

Lab ID: 2003C62-004

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	190	60		mg/Kg	20	4/1/2020 4:03:35 PM	51470
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	4/1/2020 12:04:04 AM	51419
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/1/2020 12:04:04 AM	51419
Surr: DNOP	92.0	55.1-146		%Rec	1	4/1/2020 12:04:04 AM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/2/2020 8:38:51 PM	51417
Surr: BFB	100	66.6-105		%Rec	1	4/2/2020 8:38:51 PM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/2/2020 8:38:51 PM	51417
Toluene	ND	0.049		mg/Kg	1	4/2/2020 8:38:51 PM	51417
Ethylbenzene	ND	0.049		mg/Kg	1	4/2/2020 8:38:51 PM	51417
Xylenes, Total	ND	0.098		mg/Kg	1	4/2/2020 8:38:51 PM	51417
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	4/2/2020 8:38:51 PM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL3-0.5'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 8:55:00 AM

Lab ID: 2003C62-005

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 4:15:56 PM	51470
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	2000	200		mg/Kg	20	4/1/2020 12:28:23 AM	51419
Motor Oil Range Organics (MRO)	1100	990		mg/Kg	20	4/1/2020 12:28:23 AM	51419
Surr: DNOP	0	55.1-146	S	%Rec	20	4/1/2020 12:28:23 AM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	58	24	D	mg/Kg	5	4/2/2020 10:13:57 PM	51417
Surr: BFB	179	66.6-105	SD	%Rec	5	4/2/2020 10:13:57 PM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/2/2020 10:13:57 PM	51417
Toluene	ND	0.24	D	mg/Kg	5	4/2/2020 10:13:57 PM	51417
Ethylbenzene	0.25	0.24	D	mg/Kg	5	4/2/2020 10:13:57 PM	51417
Xylenes, Total	1.0	0.48	D	mg/Kg	5	4/2/2020 10:13:57 PM	51417
Surr: 4-Bromofluorobenzene	112	80-120	D	%Rec	5	4/2/2020 10:13:57 PM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL3-1'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 9:00:00 AM

Lab ID: 2003C62-006

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 4:28:18 PM	51470
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	150	8.0		mg/Kg	1	4/1/2020 12:52:47 AM	51419
Motor Oil Range Organics (MRO)	85	40		mg/Kg	1	4/1/2020 12:52:47 AM	51419
Surr: DNOP	90.5	55.1-146		%Rec	1	4/1/2020 12:52:47 AM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/2/2020 10:37:47 PM	51417
Surr: BFB	104	66.6-105		%Rec	1	4/2/2020 10:37:47 PM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/2/2020 10:37:47 PM	51417
Toluene	ND	0.050		mg/Kg	1	4/2/2020 10:37:47 PM	51417
Ethylbenzene	ND	0.050		mg/Kg	1	4/2/2020 10:37:47 PM	51417
Xylenes, Total	ND	0.10		mg/Kg	1	4/2/2020 10:37:47 PM	51417
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	4/2/2020 10:37:47 PM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL4-0.5'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 9:30:00 AM

Lab ID: 2003C62-007

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 4:40:38 PM	51470
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	900	51		mg/Kg	5	4/1/2020 10:04:31 PM	51419
Motor Oil Range Organics (MRO)	450	250		mg/Kg	5	4/1/2020 10:04:31 PM	51419
Surr: DNOP	99.6	55.1-146		%Rec	5	4/1/2020 10:04:31 PM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	9.5	4.9		mg/Kg	1	4/2/2020 11:01:27 PM	51417
Surr: BFB	157	66.6-105	S	%Rec	1	4/2/2020 11:01:27 PM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/2/2020 11:01:27 PM	51417
Toluene	ND	0.049		mg/Kg	1	4/2/2020 11:01:27 PM	51417
Ethylbenzene	ND	0.049		mg/Kg	1	4/2/2020 11:01:27 PM	51417
Xylenes, Total	0.11	0.097		mg/Kg	1	4/2/2020 11:01:27 PM	51417
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	4/2/2020 11:01:27 PM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL4-1'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 9:40:00 AM

Lab ID: 2003C62-008

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 2:00:08 PM	51470
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	41	7.9		mg/Kg	1	4/1/2020 1:41:24 AM	51419
Motor Oil Range Organics (MRO)	ND	40		mg/Kg	1	4/1/2020 1:41:24 AM	51419
Surr: DNOP	96.4	55.1-146		%Rec	1	4/1/2020 1:41:24 AM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/2/2020 11:25:20 PM	51417
Surr: BFB	101	66.6-105		%Rec	1	4/2/2020 11:25:20 PM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/2/2020 11:25:20 PM	51417
Toluene	ND	0.047		mg/Kg	1	4/2/2020 11:25:20 PM	51417
Ethylbenzene	ND	0.047		mg/Kg	1	4/2/2020 11:25:20 PM	51417
Xylenes, Total	ND	0.094		mg/Kg	1	4/2/2020 11:25:20 PM	51417
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	4/2/2020 11:25:20 PM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2003C62

Date Reported: 4/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL5-0.5'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 10:10:00 AM

Lab ID: 2003C62-009

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	61		mg/Kg	20	4/1/2020 2:12:28 PM	51470
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	650	20		mg/Kg	2	4/1/2020 10:28:55 PM	51419
Motor Oil Range Organics (MRO)	350	100		mg/Kg	2	4/1/2020 10:28:55 PM	51419
Surr: DNOP	122	55.1-146		%Rec	2	4/1/2020 10:28:55 PM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/2/2020 11:49:15 PM	51417
Surr: BFB	108	66.6-105	S	%Rec	1	4/2/2020 11:49:15 PM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/2/2020 11:49:15 PM	51417
Toluene	ND	0.048		mg/Kg	1	4/2/2020 11:49:15 PM	51417
Ethylbenzene	ND	0.048		mg/Kg	1	4/2/2020 11:49:15 PM	51417
Xylenes, Total	ND	0.097		mg/Kg	1	4/2/2020 11:49:15 PM	51417
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	4/2/2020 11:49:15 PM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL5-1'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 10:20:00 AM

Lab ID: 2003C62-010

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 2:24:49 PM	51470
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/1/2020 2:30:02 AM	51419
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/1/2020 2:30:02 AM	51419
Surr: DNOP	106	55.1-146		%Rec	1	4/1/2020 2:30:02 AM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/3/2020 12:13:01 AM	51417
Surr: BFB	100	66.6-105		%Rec	1	4/3/2020 12:13:01 AM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/3/2020 12:13:01 AM	51417
Toluene	ND	0.049		mg/Kg	1	4/3/2020 12:13:01 AM	51417
Ethylbenzene	ND	0.049		mg/Kg	1	4/3/2020 12:13:01 AM	51417
Xylenes, Total	ND	0.098		mg/Kg	1	4/3/2020 12:13:01 AM	51417
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	4/3/2020 12:13:01 AM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL6-1'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 10:30:00 AM

Lab ID: 2003C62-011

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 3:01:50 PM	51470
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	80	9.8		mg/Kg	1	4/1/2020 2:54:15 AM	51419
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/1/2020 2:54:15 AM	51419
Surr: DNOP	114	55.1-146		%Rec	1	4/1/2020 2:54:15 AM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/3/2020 12:36:57 AM	51417
Surr: BFB	102	66.6-105		%Rec	1	4/3/2020 12:36:57 AM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/3/2020 12:36:57 AM	51417
Toluene	ND	0.048		mg/Kg	1	4/3/2020 12:36:57 AM	51417
Ethylbenzene	ND	0.048		mg/Kg	1	4/3/2020 12:36:57 AM	51417
Xylenes, Total	ND	0.096		mg/Kg	1	4/3/2020 12:36:57 AM	51417
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	4/3/2020 12:36:57 AM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL6-1.5'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 10:35:00 AM

Lab ID: 2003C62-012

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 3:14:11 PM	51470
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	4/1/2020 3:18:32 AM	51419
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	4/1/2020 3:18:32 AM	51419
Surr: DNOP	95.7	55.1-146		%Rec	1	4/1/2020 3:18:32 AM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/3/2020 1:00:49 AM	51417
Surr: BFB	101	66.6-105		%Rec	1	4/3/2020 1:00:49 AM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/3/2020 1:00:49 AM	51417
Toluene	ND	0.048		mg/Kg	1	4/3/2020 1:00:49 AM	51417
Ethylbenzene	ND	0.048		mg/Kg	1	4/3/2020 1:00:49 AM	51417
Xylenes, Total	ND	0.095		mg/Kg	1	4/3/2020 1:00:49 AM	51417
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	4/3/2020 1:00:49 AM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL7-0.5'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 10:50:00 AM

Lab ID: 2003C62-013

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1400	60		mg/Kg	20	4/1/2020 3:26:32 PM	51470
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	290	9.7		mg/Kg	1	4/1/2020 3:33:43 PM	51419
Motor Oil Range Organics (MRO)	180	49		mg/Kg	1	4/1/2020 3:33:43 PM	51419
Surr: DNOP	118	55.1-146		%Rec	1	4/1/2020 3:33:43 PM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/3/2020 1:24:42 AM	51417
Surr: BFB	104	66.6-105		%Rec	1	4/3/2020 1:24:42 AM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/3/2020 1:24:42 AM	51417
Toluene	ND	0.049		mg/Kg	1	4/3/2020 1:24:42 AM	51417
Ethylbenzene	ND	0.049		mg/Kg	1	4/3/2020 1:24:42 AM	51417
Xylenes, Total	ND	0.098		mg/Kg	1	4/3/2020 1:24:42 AM	51417
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	4/3/2020 1:24:42 AM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL7-1'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 10:55:00 AM

Lab ID: 2003C62-014

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	260	60		mg/Kg	20	4/1/2020 5:42:23 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	7.9		mg/Kg	1	4/1/2020 4:07:01 AM	51419
Motor Oil Range Organics (MRO)	ND	39		mg/Kg	1	4/1/2020 4:07:01 AM	51419
Surr: DNOP	89.7	55.1-146		%Rec	1	4/1/2020 4:07:01 AM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/3/2020 1:48:35 AM	51417
Surr: BFB	101	66.6-105		%Rec	1	4/3/2020 1:48:35 AM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/3/2020 1:48:35 AM	51417
Toluene	ND	0.048		mg/Kg	1	4/3/2020 1:48:35 AM	51417
Ethylbenzene	ND	0.048		mg/Kg	1	4/3/2020 1:48:35 AM	51417
Xylenes, Total	ND	0.095		mg/Kg	1	4/3/2020 1:48:35 AM	51417
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	4/3/2020 1:48:35 AM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL8-0.5'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 11:10:00 AM

Lab ID: 2003C62-015

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	270	60		mg/Kg	20	4/1/2020 6:19:25 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	130	9.9		mg/Kg	1	4/1/2020 4:31:07 AM	51419
Motor Oil Range Organics (MRO)	87	49		mg/Kg	1	4/1/2020 4:31:07 AM	51419
Surr: DNOP	91.0	55.1-146		%Rec	1	4/1/2020 4:31:07 AM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/3/2020 3:00:23 AM	51417
Surr: BFB	99.5	66.6-105		%Rec	1	4/3/2020 3:00:23 AM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/3/2020 3:00:23 AM	51417
Toluene	ND	0.049		mg/Kg	1	4/3/2020 3:00:23 AM	51417
Ethylbenzene	ND	0.049		mg/Kg	1	4/3/2020 3:00:23 AM	51417
Xylenes, Total	ND	0.099		mg/Kg	1	4/3/2020 3:00:23 AM	51417
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	4/3/2020 3:00:23 AM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL8-1'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 11:15:00 AM

Lab ID: 2003C62-016

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	180	59		mg/Kg	20	4/1/2020 6:31:46 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	24	8.2		mg/Kg	1	4/1/2020 4:55:22 AM	51419
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	4/1/2020 4:55:22 AM	51419
Surr: DNOP	95.0	55.1-146		%Rec	1	4/1/2020 4:55:22 AM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/3/2020 3:24:12 AM	51417
Surr: BFB	103	66.6-105		%Rec	1	4/3/2020 3:24:12 AM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/3/2020 3:24:12 AM	51417
Toluene	ND	0.046		mg/Kg	1	4/3/2020 3:24:12 AM	51417
Ethylbenzene	ND	0.046		mg/Kg	1	4/3/2020 3:24:12 AM	51417
Xylenes, Total	ND	0.093		mg/Kg	1	4/3/2020 3:24:12 AM	51417
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	4/3/2020 3:24:12 AM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL9-0.5'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 11:30:00 AM

Lab ID: 2003C62-017

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 6:44:08 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	1400	96		mg/Kg	10	4/1/2020 5:19:26 AM	51419
Motor Oil Range Organics (MRO)	740	480		mg/Kg	10	4/1/2020 5:19:26 AM	51419
Surr: DNOP	0	55.1-146	S	%Rec	10	4/1/2020 5:19:26 AM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/3/2020 3:48:01 AM	51417
Surr: BFB	114	66.6-105	S	%Rec	1	4/3/2020 3:48:01 AM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/3/2020 3:48:01 AM	51417
Toluene	ND	0.047		mg/Kg	1	4/3/2020 3:48:01 AM	51417
Ethylbenzene	ND	0.047		mg/Kg	1	4/3/2020 3:48:01 AM	51417
Xylenes, Total	ND	0.094		mg/Kg	1	4/3/2020 3:48:01 AM	51417
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	4/3/2020 3:48:01 AM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2003C62

Date Reported: 4/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL9-1'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 11:35:00 AM

Lab ID: 2003C62-018

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 6:56:29 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	95	9.5		mg/Kg	1	4/1/2020 5:43:38 AM	51419
Motor Oil Range Organics (MRO)	68	47		mg/Kg	1	4/1/2020 5:43:38 AM	51419
Surr: DNOP	93.6	55.1-146		%Rec	1	4/1/2020 5:43:38 AM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/3/2020 4:11:48 AM	51417
Surr: BFB	100	66.6-105		%Rec	1	4/3/2020 4:11:48 AM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/3/2020 4:11:48 AM	51417
Toluene	ND	0.047		mg/Kg	1	4/3/2020 4:11:48 AM	51417
Ethylbenzene	ND	0.047		mg/Kg	1	4/3/2020 4:11:48 AM	51417
Xylenes, Total	ND	0.095		mg/Kg	1	4/3/2020 4:11:48 AM	51417
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	4/3/2020 4:11:48 AM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL10-0.5'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 11:50:00 AM

Lab ID: 2003C62-019

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 7:08:51 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	2700	180		mg/Kg	20	4/1/2020 6:07:44 AM	51419
Motor Oil Range Organics (MRO)	1300	910		mg/Kg	20	4/1/2020 6:07:44 AM	51419
Surr: DNOP	0	55.1-146	S	%Rec	20	4/1/2020 6:07:44 AM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	93	24	D	mg/Kg	5	4/3/2020 4:35:35 AM	51417
Surr: BFB	225	66.6-105	SD	%Rec	5	4/3/2020 4:35:35 AM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/3/2020 4:35:35 AM	51417
Toluene	ND	0.24	D	mg/Kg	5	4/3/2020 4:35:35 AM	51417
Ethylbenzene	0.47	0.24	D	mg/Kg	5	4/3/2020 4:35:35 AM	51417
Xylenes, Total	2.0	0.49	D	mg/Kg	5	4/3/2020 4:35:35 AM	51417
Surr: 4-Bromofluorobenzene	113	80-120	D	%Rec	5	4/3/2020 4:35:35 AM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL10-1'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 11:55:00 AM

Lab ID: 2003C62-020

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 7:45:54 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.0		mg/Kg	1	4/1/2020 6:31:56 AM	51419
Motor Oil Range Organics (MRO)	ND	40		mg/Kg	1	4/1/2020 6:31:56 AM	51419
Surr: DNOP	90.1	55.1-146		%Rec	1	4/1/2020 6:31:56 AM	51419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/3/2020 4:59:07 AM	51417
Surr: BFB	96.2	66.6-105		%Rec	1	4/3/2020 4:59:07 AM	51417
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/3/2020 4:59:07 AM	51417
Toluene	ND	0.049		mg/Kg	1	4/3/2020 4:59:07 AM	51417
Ethylbenzene	ND	0.049		mg/Kg	1	4/3/2020 4:59:07 AM	51417
Xylenes, Total	ND	0.098		mg/Kg	1	4/3/2020 4:59:07 AM	51417
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	4/3/2020 4:59:07 AM	51417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL11-0.5'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 12:10:00 PM

Lab ID: 2003C62-021

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 7:58:15 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	2400	91		mg/Kg	10	4/1/2020 10:27:03 AM	51432
Motor Oil Range Organics (MRO)	960	460		mg/Kg	10	4/1/2020 10:27:03 AM	51432
Surr: DNOP	0	55.1-146	S	%Rec	10	4/1/2020 10:27:03 AM	51432
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	110	9.7		mg/Kg	2	4/3/2020 5:34:51 PM	51420
Surr: BFB	481	66.6-105	S	%Rec	2	4/3/2020 5:34:51 PM	51420
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.049		mg/Kg	2	4/3/2020 5:34:51 PM	51420
Toluene	ND	0.097		mg/Kg	2	4/3/2020 5:34:51 PM	51420
Ethylbenzene	0.30	0.097		mg/Kg	2	4/3/2020 5:34:51 PM	51420
Xylenes, Total	1.3	0.19		mg/Kg	2	4/3/2020 5:34:51 PM	51420
Surr: 4-Bromofluorobenzene	126	80-120	S	%Rec	2	4/3/2020 5:34:51 PM	51420

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2003C62

Date Reported: 4/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL11-1'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 12:15:00 PM

Lab ID: 2003C62-022

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 8:10:35 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	53	9.4		mg/Kg	1	4/1/2020 10:48:57 AM	51432
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/1/2020 10:48:57 AM	51432
Surr: DNOP	85.6	55.1-146		%Rec	1	4/1/2020 10:48:57 AM	51432
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/3/2020 6:45:21 PM	51420
Surr: BFB	106	66.6-105	S	%Rec	1	4/3/2020 6:45:21 PM	51420
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	4/3/2020 6:45:21 PM	51420
Toluene	ND	0.049		mg/Kg	1	4/3/2020 6:45:21 PM	51420
Ethylbenzene	ND	0.049		mg/Kg	1	4/3/2020 6:45:21 PM	51420
Xylenes, Total	ND	0.097		mg/Kg	1	4/3/2020 6:45:21 PM	51420
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	4/3/2020 6:45:21 PM	51420

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL12-0.5'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 12:25:00 PM

Lab ID: 2003C62-023

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 8:22:55 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	1900	94		mg/Kg	10	4/1/2020 11:11:03 AM	51432
Motor Oil Range Organics (MRO)	830	470		mg/Kg	10	4/1/2020 11:11:03 AM	51432
Surr: DNOP	0	55.1-146	S	%Rec	10	4/1/2020 11:11:03 AM	51432
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	93	9.2		mg/Kg	2	4/3/2020 7:55:22 PM	51420
Surr: BFB	422	66.6-105	S	%Rec	2	4/3/2020 7:55:22 PM	51420
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.046		mg/Kg	2	4/3/2020 7:55:22 PM	51420
Toluene	0.11	0.092		mg/Kg	2	4/3/2020 7:55:22 PM	51420
Ethylbenzene	0.37	0.092		mg/Kg	2	4/3/2020 7:55:22 PM	51420
Xylenes, Total	1.6	0.18		mg/Kg	2	4/3/2020 7:55:22 PM	51420
Surr: 4-Bromofluorobenzene	122	80-120	S	%Rec	2	4/3/2020 7:55:22 PM	51420

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL12-1'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 12:30:00 PM

Lab ID: 2003C62-024

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	61		mg/Kg	20	4/1/2020 8:35:17 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	220	9.1		mg/Kg	1	4/5/2020 7:16:01 PM	51432
Motor Oil Range Organics (MRO)	120	45		mg/Kg	1	4/5/2020 7:16:01 PM	51432
Surr: DNOP	95.8	55.1-146		%Rec	1	4/5/2020 7:16:01 PM	51432
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/3/2020 8:18:48 PM	51420
Surr: BFB	131	66.6-105	S	%Rec	1	4/3/2020 8:18:48 PM	51420
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	4/3/2020 8:18:48 PM	51420
Toluene	ND	0.049		mg/Kg	1	4/3/2020 8:18:48 PM	51420
Ethylbenzene	ND	0.049		mg/Kg	1	4/3/2020 8:18:48 PM	51420
Xylenes, Total	ND	0.097		mg/Kg	1	4/3/2020 8:18:48 PM	51420
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	1	4/3/2020 8:18:48 PM	51420

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL13-0.5'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 12:37:00 PM

Lab ID: 2003C62-025

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	61		mg/Kg	20	4/1/2020 8:47:37 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	2000	97		mg/Kg	10	4/1/2020 11:55:18 AM	51432
Motor Oil Range Organics (MRO)	940	490		mg/Kg	10	4/1/2020 11:55:18 AM	51432
Surr: DNOP	0	55.1-146	S	%Rec	10	4/1/2020 11:55:18 AM	51432
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	6.5	4.9		mg/Kg	1	4/3/2020 8:42:17 PM	51420
Surr: BFB	155	66.6-105	S	%Rec	1	4/3/2020 8:42:17 PM	51420
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	4/3/2020 8:42:17 PM	51420
Toluene	ND	0.049		mg/Kg	1	4/3/2020 8:42:17 PM	51420
Ethylbenzene	ND	0.049		mg/Kg	1	4/3/2020 8:42:17 PM	51420
Xylenes, Total	0.11	0.098		mg/Kg	1	4/3/2020 8:42:17 PM	51420
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	1	4/3/2020 8:42:17 PM	51420

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL13-1'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 12:40:00 PM

Lab ID: 2003C62-026

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	61		mg/Kg	20	4/1/2020 8:59:58 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	13	9.6		mg/Kg	1	4/1/2020 12:17:18 PM	51432
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/1/2020 12:17:18 PM	51432
Surr: DNOP	79.1	55.1-146		%Rec	1	4/1/2020 12:17:18 PM	51432
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/3/2020 9:05:57 PM	51420
Surr: BFB	101	66.6-105		%Rec	1	4/3/2020 9:05:57 PM	51420
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	4/3/2020 9:05:57 PM	51420
Toluene	ND	0.046		mg/Kg	1	4/3/2020 9:05:57 PM	51420
Ethylbenzene	ND	0.046		mg/Kg	1	4/3/2020 9:05:57 PM	51420
Xylenes, Total	ND	0.093		mg/Kg	1	4/3/2020 9:05:57 PM	51420
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	4/3/2020 9:05:57 PM	51420

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL14-0.5'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 12:47:00 PM

Lab ID: 2003C62-027

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 9:12:19 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	11000	470		mg/Kg	50	4/5/2020 8:04:38 PM	51432
Motor Oil Range Organics (MRO)	4200	2300		mg/Kg	50	4/5/2020 8:04:38 PM	51432
Surr: DNOP	0	55.1-146	S	%Rec	50	4/5/2020 8:04:38 PM	51432
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	1400	49		mg/Kg	10	4/3/2020 9:29:45 PM	51420
Surr: BFB	638	66.6-105	S	%Rec	10	4/3/2020 9:29:45 PM	51420
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	0.56	0.25		mg/Kg	10	4/3/2020 9:29:45 PM	51420
Toluene	25	0.49		mg/Kg	10	4/3/2020 9:29:45 PM	51420
Ethylbenzene	19	0.49		mg/Kg	10	4/3/2020 9:29:45 PM	51420
Xylenes, Total	73	0.99		mg/Kg	10	4/3/2020 9:29:45 PM	51420
Surr: 4-Bromofluorobenzene	168	80-120	S	%Rec	10	4/3/2020 9:29:45 PM	51420

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL14-1'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 12:50:00 PM

Lab ID: 2003C62-028

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	59		mg/Kg	20	4/1/2020 9:24:40 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	2800	94		mg/Kg	10	4/1/2020 1:23:52 PM	51432
Motor Oil Range Organics (MRO)	1300	470		mg/Kg	10	4/1/2020 1:23:52 PM	51432
Surr: DNOP	0	55.1-146	S	%Rec	10	4/1/2020 1:23:52 PM	51432
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	200	4.8		mg/Kg	1	4/3/2020 9:53:37 PM	51420
Surr: BFB	1360	66.6-105	S	%Rec	1	4/3/2020 9:53:37 PM	51420
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	4/3/2020 9:53:37 PM	51420
Toluene	0.73	0.048		mg/Kg	1	4/3/2020 9:53:37 PM	51420
Ethylbenzene	1.4	0.048		mg/Kg	1	4/3/2020 9:53:37 PM	51420
Xylenes, Total	5.9	0.096		mg/Kg	1	4/3/2020 9:53:37 PM	51420
Surr: 4-Bromofluorobenzene	191	80-120	S	%Rec	1	4/3/2020 9:53:37 PM	51420

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL14-1.5'

Project: Thistle Unit 18H

Collection Date: 3/26/2020 1:00:00 PM

Lab ID: 2003C62-029

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 9:37:00 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	17	9.5		mg/Kg	1	4/1/2020 1:46:04 PM	51432
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/1/2020 1:46:04 PM	51432
Surr: DNOP	79.8	55.1-146		%Rec	1	4/1/2020 1:46:04 PM	51432
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/3/2020 10:17:08 PM	51420
Surr: BFB	106	66.6-105	S	%Rec	1	4/3/2020 10:17:08 PM	51420
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	4/3/2020 10:17:08 PM	51420
Toluene	ND	0.046		mg/Kg	1	4/3/2020 10:17:08 PM	51420
Ethylbenzene	ND	0.046		mg/Kg	1	4/3/2020 10:17:08 PM	51420
Xylenes, Total	ND	0.092		mg/Kg	1	4/3/2020 10:17:08 PM	51420
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	4/3/2020 10:17:08 PM	51420

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL15

Project: Thistle Unit 18H

Collection Date: 3/26/2020 1:05:00 PM

Lab ID: 2003C62-030

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 10:14:04 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/1/2020 2:08:19 PM	51432
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/1/2020 2:08:19 PM	51432
Surr: DNOP	81.2	55.1-146		%Rec	1	4/1/2020 2:08:19 PM	51432
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/3/2020 10:41:02 PM	51420
Surr: BFB	103	66.6-105		%Rec	1	4/3/2020 10:41:02 PM	51420
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	4/3/2020 10:41:02 PM	51420
Toluene	ND	0.049		mg/Kg	1	4/3/2020 10:41:02 PM	51420
Ethylbenzene	ND	0.049		mg/Kg	1	4/3/2020 10:41:02 PM	51420
Xylenes, Total	ND	0.097		mg/Kg	1	4/3/2020 10:41:02 PM	51420
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	4/3/2020 10:41:02 PM	51420

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2003C62**

Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL16

Project: Thistle Unit 18H

Collection Date: 3/26/2020 1:10:00 PM

Lab ID: 2003C62-031

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/1/2020 10:26:25 PM	51491
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	9.8	9.7		mg/Kg	1	4/1/2020 2:30:26 PM	51432
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/1/2020 2:30:26 PM	51432
Surr: DNOP	80.4	55.1-146		%Rec	1	4/1/2020 2:30:26 PM	51432
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/4/2020 12:40:24 AM	51420
Surr: BFB	103	66.6-105		%Rec	1	4/4/2020 12:40:24 AM	51420
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	4/4/2020 12:40:24 AM	51420
Toluene	ND	0.048		mg/Kg	1	4/4/2020 12:40:24 AM	51420
Ethylbenzene	ND	0.048		mg/Kg	1	4/4/2020 12:40:24 AM	51420
Xylenes, Total	ND	0.096		mg/Kg	1	4/4/2020 12:40:24 AM	51420
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	4/4/2020 12:40:24 AM	51420

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003C62

06-Apr-20

Client: Souder, Miller & Associates

Project: Thistle Unit 18H

Sample ID: MB-51470	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 51470	RunNo: 67773								
Prep Date: 4/1/2020	Analysis Date: 4/1/2020	SeqNo: 2340687	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-51470	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 51470	RunNo: 67773								
Prep Date: 4/1/2020	Analysis Date: 4/1/2020	SeqNo: 2340688	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Sample ID: MB-51491	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 51491	RunNo: 67773								
Prep Date: 4/1/2020	Analysis Date: 4/1/2020	SeqNo: 2340722	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-51491	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 51491	RunNo: 67773								
Prep Date: 4/1/2020	Analysis Date: 4/1/2020	SeqNo: 2340723	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.2	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003C62

06-Apr-20

Client: Souder, Miller & Associates

Project: Thistle Unit 18H

Sample ID: LCS-51419	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 51419	RunNo: 67718								
Prep Date: 3/30/2020	Analysis Date: 3/31/2020	SeqNo: 2339279	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.5	70	130			
Surr: DNOP	3.8		5.000		75.9	55.1	146			

Sample ID: MB-51419	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 51419	RunNo: 67718								
Prep Date: 3/30/2020	Analysis Date: 3/31/2020	SeqNo: 2339280	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		95.3	55.1	146			

Sample ID: MB-51432	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 51432	RunNo: 67718								
Prep Date: 3/31/2020	Analysis Date: 4/2/2020	SeqNo: 2340291	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		95.7	55.1	146			

Sample ID: LCS-51432	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 51432	RunNo: 67768								
Prep Date: 3/31/2020	Analysis Date: 4/1/2020	SeqNo: 2340345	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.5	70	130			
Surr: DNOP	3.7		5.000		74.1	55.1	146			

Sample ID: LCS-51460	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 51460	RunNo: 67718								
Prep Date: 3/31/2020	Analysis Date: 4/2/2020	SeqNo: 2341419	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		100	55.1	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003C62

06-Apr-20

Client: Souder, Miller & Associates

Project: Thistle Unit 18H

Sample ID: MB-51460	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 51460	RunNo: 67718								
Prep Date: 3/31/2020	Analysis Date: 4/2/2020	SeqNo: 2341420	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		113	55.1	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003C62

06-Apr-20

Client: Souder, Miller & Associates

Project: Thistle Unit 18H

Sample ID: 2003c62-002ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SL1-1'	Batch ID: 51417	RunNo: 67775								
Prep Date: 3/30/2020	Analysis Date: 4/2/2020	SeqNo: 2341875	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	24.80	0	84.9	69.1	142			
Surr: BFB	1100		992.1		109	66.6	105			S

Sample ID: 2003c62-002amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SL1-1'	Batch ID: 51417	RunNo: 67775								
Prep Date: 3/30/2020	Analysis Date: 4/2/2020	SeqNo: 2341876	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	82.3	69.1	142	2.31	20	
Surr: BFB	1100		1000		107	66.6	105	0	0	S

Sample ID: lcs-51417	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 51417	RunNo: 67775								
Prep Date: 3/30/2020	Analysis Date: 4/2/2020	SeqNo: 2341895	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.7	80	120			
Surr: BFB	1100		1000		110	66.6	105			S

Sample ID: mb-51417	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 51417	RunNo: 67775								
Prep Date: 3/30/2020	Analysis Date: 4/2/2020	SeqNo: 2341896	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.0	66.6	105			

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: G67819	RunNo: 67819								
Prep Date:	Analysis Date: 4/3/2020	SeqNo: 2342508	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		110	66.6	105			S

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: G67819	RunNo: 67819								
Prep Date:	Analysis Date: 4/3/2020	SeqNo: 2342518	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		109	66.6	105			S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003C62

06-Apr-20

Client: Souder, Miller & Associates

Project: Thistle Unit 18H

Sample ID: 2003c62-022ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SL11-1'	Batch ID: 51420	RunNo: 67819								
Prep Date: 3/30/2020	Analysis Date: 4/3/2020	SeqNo: 2343484	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.7	23.72	0	87.0	69.1	142			
Surr: BFB	1100		948.8		115	66.6	105			S

Sample ID: 2003c62-022amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SL11-1'	Batch ID: 51420	RunNo: 67819								
Prep Date: 3/30/2020	Analysis Date: 4/3/2020	SeqNo: 2343485	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.65	0	87.2	69.1	142	4.10	20	
Surr: BFB	1200		986.2		117	66.6	105	0	0	S

Sample ID: lcs-51420	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 51420	RunNo: 67819								
Prep Date: 3/30/2020	Analysis Date: 4/3/2020	SeqNo: 2343527	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.6	80	120			
Surr: BFB	1100		1000		109	66.6	105			S

Sample ID: mb-51420	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 51420	RunNo: 67819								
Prep Date: 3/30/2020	Analysis Date: 4/3/2020	SeqNo: 2343529	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.6	66.6	105			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003C62

06-Apr-20

Client: Souder, Miller & Associates

Project: Thistle Unit 18H

Sample ID: 2003c62-001ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SL1-0.5'	Batch ID: 51417	RunNo: 67775								
Prep Date: 3/30/2020	Analysis Date: 4/2/2020	SeqNo: 2341912	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	0.9862	0	84.9	78.5	119			
Toluene	0.89	0.049	0.9862	0.02860	87.4	75.7	123			
Ethylbenzene	0.93	0.049	0.9862	0.05547	88.3	74.3	126			
Xylenes, Total	2.8	0.099	2.959	0.1895	89.1	72.9	130			
Surr: 4-Bromofluorobenzene	1.1		0.9862		110	80	120			

Sample ID: 2003c62-001amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SL1-0.5'	Batch ID: 51417	RunNo: 67775								
Prep Date: 3/30/2020	Analysis Date: 4/2/2020	SeqNo: 2341913	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	0.9804	0	88.4	78.5	119	3.43	20	
Toluene	0.92	0.049	0.9804	0.02860	90.8	75.7	123	3.14	20	
Ethylbenzene	0.96	0.049	0.9804	0.05547	91.8	74.3	126	3.11	20	
Xylenes, Total	2.9	0.098	2.941	0.1895	91.1	72.9	130	1.51	20	
Surr: 4-Bromofluorobenzene	1.1		0.9804		114	80	120	0	0	

Sample ID: LCS-51417	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 51417	RunNo: 67775								
Prep Date: 3/30/2020	Analysis Date: 4/2/2020	SeqNo: 2341933	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.9	80	120			
Toluene	0.91	0.050	1.000	0	91.4	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: mb-51417	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 51417	RunNo: 67775								
Prep Date: 3/30/2020	Analysis Date: 4/2/2020	SeqNo: 2341934	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003C62

06-Apr-20

Client: Souder, Miller & Associates

Project: Thistle Unit 18H

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: R67819	RunNo: 67819								
Prep Date:	Analysis Date: 4/3/2020	SeqNo: 2342520	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: R67819	RunNo: 67819								
Prep Date:	Analysis Date: 4/3/2020	SeqNo: 2342530	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

Sample ID: 2003c62-021ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SL11-0.5'	Batch ID: 51420	RunNo: 67819								
Prep Date: 3/30/2020	Analysis Date: 4/3/2020	SeqNo: 2343532	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.048	0.9569	0	81.9	78.5	119			
Toluene	0.90	0.096	0.9569	0.05239	88.5	75.7	123			
Ethylbenzene	1.1	0.096	0.9569	0.3046	86.5	74.3	126			
Xylenes, Total	3.8	0.19	2.871	1.255	88.1	72.9	130			
Surr: 4-Bromofluorobenzene	2.4		1.914		127	80	120			S

Sample ID: 2003c62-021amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SL11-0.5'	Batch ID: 51420	RunNo: 67819								
Prep Date: 3/30/2020	Analysis Date: 4/3/2020	SeqNo: 2343533	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.048	0.9569	0	83.8	78.5	119	2.29	20	
Toluene	0.90	0.096	0.9569	0.05239	88.8	75.7	123	0.382	20	
Ethylbenzene	1.1	0.096	0.9569	0.3046	85.0	74.3	126	1.28	20	
Xylenes, Total	3.7	0.19	2.871	1.255	84.2	72.9	130	3.00	20	
Surr: 4-Bromofluorobenzene	2.4		1.914		128	80	120	0	0	S

Sample ID: LCS-51420	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 51420	RunNo: 67819								
Prep Date: 3/30/2020	Analysis Date: 4/3/2020	SeqNo: 2343576	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.4	80	120			
Toluene	0.95	0.050	1.000	0	95.2	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.2	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.0	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003C62

06-Apr-20

Client: Souder, Miller & Associates

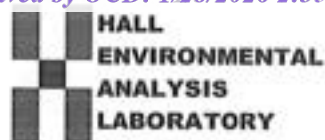
Project: Thistle Unit 18H

Sample ID: LCS-51420	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 51420	RunNo: 67819								
Prep Date: 3/30/2020	Analysis Date: 4/3/2020	SeqNo: 2343576	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID: mb-51420	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 51420	RunNo: 67819								
Prep Date: 3/30/2020	Analysis Date: 4/3/2020	SeqNo: 2343578	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 2003C62 RcptNo: 1

Received By: Erin Melendrez 3/28/2020 8:15:00 AM *EM*
Completed By: Erin Melendrez 3/28/2020 1:46:50 PM *EM*
Reviewed By: ENM 3/28/2020

Chain of Custody

- 1. Is Chain of Custody sufficiently complete? Yes No Not Present
- 2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes No NA
- 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 5. Sample(s) in proper container(s)? Yes No
- 6. Sufficient sample volume for indicated test(s)? Yes No
- 7. Are samples (except VOA and ONG) properly preserved? Yes No
- 8. Was preservative added to bottles? Yes No NA
- 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
- 10. Were any sample containers received broken? Yes No
- 11. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
- 12. Are matrices correctly identified on Chain of Custody? Yes No
- 13. Is it clear what analyses were requested? Yes No
- 14. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: JP03/28/20

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
By Whom: _____ Via: eMail Phone Fax In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.7	Good				
2	5.0	Good				



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 22, 2020

Ashley Maxwell
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL:
FAX:

RE: Thistle Unit 18H

OrderNo.: 2004694

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/15/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2004694**

Date Reported: **4/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL 12-1.5'

Project: Thistle Unit 18H

Collection Date: 4/13/2020 6:30:00 PM

Lab ID: 2004694-001

Matrix: SOIL

Received Date: 4/15/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	21	9.4		mg/Kg	1	4/20/2020 11:25:08 AM	51938
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/20/2020 11:25:08 AM	51938
Surr: DNOP	85.9	55.1-146		%Rec	1	4/20/2020 11:25:08 AM	51938
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/19/2020 3:04:17 PM	51874
Surr: BFB	103	66.6-105		%Rec	1	4/19/2020 3:04:17 PM	51874

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004694

22-Apr-20

Client: Souder, Miller & Associates

Project: Thistle Unit 18H

Sample ID: MB-51938	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 51938	RunNo: 68249								
Prep Date: 4/19/2020	Analysis Date: 4/20/2020	SeqNo: 2362082	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		84.4	55.1	146			

Sample ID: LCS-51938	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 51938	RunNo: 68249								
Prep Date: 4/19/2020	Analysis Date: 4/20/2020	SeqNo: 2362083	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	46	10	50.00	0	91.5	70	130			
Surr: DNOP	4.1		5.000		82.9	55.1	146			

Sample ID: 2004694-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SL 12-1.5'	Batch ID: 51938	RunNo: 68249								
Prep Date: 4/19/2020	Analysis Date: 4/20/2020	SeqNo: 2362085	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	46	9.4	46.99	20.80	54.5	47.4	136			
Surr: DNOP	4.3		4.699		90.8	55.1	146			

Sample ID: 2004694-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SL 12-1.5'	Batch ID: 51938	RunNo: 68249								
Prep Date: 4/19/2020	Analysis Date: 4/20/2020	SeqNo: 2362086	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	46	9.6	47.94	20.80	52.4	47.4	136	0.998	43.4	
Surr: DNOP	4.3		4.794		90.4	55.1	146	0	0	

Sample ID: MB-51943	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 51943	RunNo: 68249								
Prep Date: 4/19/2020	Analysis Date: 4/20/2020	SeqNo: 2362294	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: DNOP	9.5		10.00		94.7	55.1	146			
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Sample ID: LCS-51943	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 51943	RunNo: 68249								
Prep Date: 4/19/2020	Analysis Date: 4/20/2020	SeqNo: 2362295	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004694

22-Apr-20

Client: Souder, Miller & Associates

Project: Thistle Unit 18H

Sample ID: LCS-51943	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 51943	RunNo: 68249								
Prep Date: 4/19/2020	Analysis Date: 4/20/2020	SeqNo: 2362295	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		91.0	55.1	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004694

22-Apr-20

Client: Souder, Miller & Associates

Project: Thistle Unit 18H

Sample ID: mb-51874	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 51874	RunNo: 68242								
Prep Date: 4/16/2020	Analysis Date: 4/19/2020	SeqNo: 2360358	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	66.6	105			

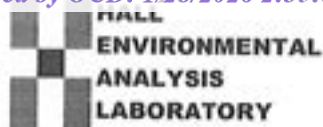
Sample ID: lcs-51874	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 51874	RunNo: 68242								
Prep Date: 4/16/2020	Analysis Date: 4/19/2020	SeqNo: 2360359	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.7	80	120			
Surr: BFB	1100		1000		112	66.6	105			S

Sample ID: 2004694-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SL 12-1.5'	Batch ID: 51874	RunNo: 68242								
Prep Date: 4/16/2020	Analysis Date: 4/19/2020	SeqNo: 2360361	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.51	0	84.1	80	120			
Surr: BFB	1100		980.4		112	66.6	105			S

Sample ID: 2004694-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SL 12-1.5'	Batch ID: 51874	RunNo: 68242								
Prep Date: 4/16/2020	Analysis Date: 4/19/2020	SeqNo: 2360362	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	24.08	0	87.3	80	120	1.99	20	
Surr: BFB	1100		963.4		113	66.6	105	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 2004694 RcptNo: 1

Received By: Isaiah Ortiz 4/15/2020 9:15:00 AM
Completed By: Desiree Dominguez 4/15/2020 11:00:07 AM
Reviewed By: DAD 4/15/20

Handwritten initials: I-Ox, ID2

Chain of Custody

- 1. Is Chain of Custody sufficiently complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [] NA []
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes [checked] No []

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: JE 4/15/20

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 3 rows of data.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 14, 2020

Ashley Maxwell
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL:
FAX:

RE: Thistle Unit 18H

OrderNo.: 2005349

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 20 sample(s) on 5/8/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS1

Project: Thistle Unit 18H

Collection Date: 5/6/2020 9:45:00 AM

Lab ID: 2005349-001

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	450	61		mg/Kg	20	5/10/2020 8:32:12 PM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	380	9.9		mg/Kg	1	5/13/2020 12:34:40 AM	52392
Motor Oil Range Organics (MRO)	240	49		mg/Kg	1	5/13/2020 12:34:40 AM	52392
Surr: DNOP	89.9	55.1-146		%Rec	1	5/13/2020 12:34:40 AM	52392
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/12/2020 4:46:32 PM	52388
Surr: BFB	97.7	66.6-105		%Rec	1	5/12/2020 4:46:32 PM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/12/2020 4:46:32 PM	52388
Toluene	ND	0.046		mg/Kg	1	5/12/2020 4:46:32 PM	52388
Ethylbenzene	ND	0.046		mg/Kg	1	5/12/2020 4:46:32 PM	52388
Xylenes, Total	ND	0.093		mg/Kg	1	5/12/2020 4:46:32 PM	52388
Surr: 4-Bromofluorobenzene	93.4	80-120		%Rec	1	5/12/2020 4:46:32 PM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS2

Project: Thistle Unit 18H

Collection Date: 5/6/2020 9:47:00 AM

Lab ID: 2005349-002

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	61	60		mg/Kg	20	5/10/2020 9:09:16 PM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/12/2020 6:31:14 PM	52392
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/12/2020 6:31:14 PM	52392
Surr: DNOP	95.4	55.1-146		%Rec	1	5/12/2020 6:31:14 PM	52392
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/12/2020 5:56:53 PM	52388
Surr: BFB	94.6	66.6-105		%Rec	1	5/12/2020 5:56:53 PM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/12/2020 5:56:53 PM	52388
Toluene	ND	0.049		mg/Kg	1	5/12/2020 5:56:53 PM	52388
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2020 5:56:53 PM	52388
Xylenes, Total	ND	0.098		mg/Kg	1	5/12/2020 5:56:53 PM	52388
Surr: 4-Bromofluorobenzene	91.8	80-120		%Rec	1	5/12/2020 5:56:53 PM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS3

Project: Thistle Unit 18H

Collection Date: 5/6/2020 11:32:00 AM

Lab ID: 2005349-003

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	82	60		mg/Kg	20	5/10/2020 10:10:59 PM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	190	9.4		mg/Kg	1	5/13/2020 2:35:37 AM	52392
Motor Oil Range Organics (MRO)	130	47		mg/Kg	1	5/13/2020 2:35:37 AM	52392
Surr: DNOP	109	55.1-146		%Rec	1	5/13/2020 2:35:37 AM	52392
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/12/2020 7:07:12 PM	52388
Surr: BFB	98.6	66.6-105		%Rec	1	5/12/2020 7:07:12 PM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/12/2020 7:07:12 PM	52388
Toluene	ND	0.049		mg/Kg	1	5/12/2020 7:07:12 PM	52388
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2020 7:07:12 PM	52388
Xylenes, Total	ND	0.098		mg/Kg	1	5/12/2020 7:07:12 PM	52388
Surr: 4-Bromofluorobenzene	95.2	80-120		%Rec	1	5/12/2020 7:07:12 PM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: 5/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS4

Project: Thistle Unit 18H

Collection Date: 5/6/2020 11:23:00 AM

Lab ID: 2005349-004

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	120	60		mg/Kg	20	5/10/2020 10:23:19 PM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/12/2020 6:56:16 PM	52392
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/12/2020 6:56:16 PM	52392
Surr: DNOP	108	55.1-146		%Rec	1	5/12/2020 6:56:16 PM	52392
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/12/2020 7:30:57 PM	52388
Surr: BFB	96.0	66.6-105		%Rec	1	5/12/2020 7:30:57 PM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/12/2020 7:30:57 PM	52388
Toluene	ND	0.049		mg/Kg	1	5/12/2020 7:30:57 PM	52388
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2020 7:30:57 PM	52388
Xylenes, Total	ND	0.099		mg/Kg	1	5/12/2020 7:30:57 PM	52388
Surr: 4-Bromofluorobenzene	92.4	80-120		%Rec	1	5/12/2020 7:30:57 PM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS5

Project: Thistle Unit 18H

Collection Date: 5/6/2020 9:54:00 AM

Lab ID: 2005349-005

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	170	60		mg/Kg	20	5/10/2020 10:35:40 PM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	68	8.9		mg/Kg	1	5/12/2020 7:21:08 PM	52392
Motor Oil Range Organics (MRO)	48	44		mg/Kg	1	5/12/2020 7:21:08 PM	52392
Surr: DNOP	68.9	55.1-146		%Rec	1	5/12/2020 7:21:08 PM	52392
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/12/2020 7:54:34 PM	52388
Surr: BFB	95.8	66.6-105		%Rec	1	5/12/2020 7:54:34 PM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/12/2020 7:54:34 PM	52388
Toluene	ND	0.048		mg/Kg	1	5/12/2020 7:54:34 PM	52388
Ethylbenzene	ND	0.048		mg/Kg	1	5/12/2020 7:54:34 PM	52388
Xylenes, Total	ND	0.095		mg/Kg	1	5/12/2020 7:54:34 PM	52388
Surr: 4-Bromofluorobenzene	91.7	80-120		%Rec	1	5/12/2020 7:54:34 PM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS6

Project: Thistle Unit 18H

Collection Date: 5/6/2020 9:56:00 AM

Lab ID: 2005349-006

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	120	60		mg/Kg	20	5/10/2020 10:47:59 PM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	300	8.6		mg/Kg	1	5/13/2020 1:23:10 AM	52392
Motor Oil Range Organics (MRO)	260	43		mg/Kg	1	5/13/2020 1:23:10 AM	52392
Surr: DNOP	102	55.1-146		%Rec	1	5/13/2020 1:23:10 AM	52392
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/12/2020 8:18:00 PM	52388
Surr: BFB	97.0	66.6-105		%Rec	1	5/12/2020 8:18:00 PM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/12/2020 8:18:00 PM	52388
Toluene	ND	0.048		mg/Kg	1	5/12/2020 8:18:00 PM	52388
Ethylbenzene	ND	0.048		mg/Kg	1	5/12/2020 8:18:00 PM	52388
Xylenes, Total	ND	0.096		mg/Kg	1	5/12/2020 8:18:00 PM	52388
Surr: 4-Bromofluorobenzene	92.2	80-120		%Rec	1	5/12/2020 8:18:00 PM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS7

Project: Thistle Unit 18H

Collection Date: 5/6/2020 9:57:00 AM

Lab ID: 2005349-007

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	5/10/2020 11:00:19 PM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/12/2020 7:45:44 PM	52392
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/12/2020 7:45:44 PM	52392
Surr: DNOP	58.5	55.1-146		%Rec	1	5/12/2020 7:45:44 PM	52392
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/12/2020 8:41:19 PM	52388
Surr: BFB	97.1	66.6-105		%Rec	1	5/12/2020 8:41:19 PM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/12/2020 8:41:19 PM	52388
Toluene	ND	0.050		mg/Kg	1	5/12/2020 8:41:19 PM	52388
Ethylbenzene	ND	0.050		mg/Kg	1	5/12/2020 8:41:19 PM	52388
Xylenes, Total	ND	0.099		mg/Kg	1	5/12/2020 8:41:19 PM	52388
Surr: 4-Bromofluorobenzene	92.8	80-120		%Rec	1	5/12/2020 8:41:19 PM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS8

Project: Thistle Unit 18H

Collection Date: 5/6/2020 10:02:00 AM

Lab ID: 2005349-008

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	5/10/2020 11:12:39 PM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/12/2020 8:10:40 PM	52392
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/12/2020 8:10:40 PM	52392
Surr: DNOP	90.0	55.1-146		%Rec	1	5/12/2020 8:10:40 PM	52392
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/12/2020 9:04:44 PM	52388
Surr: BFB	99.2	66.6-105		%Rec	1	5/12/2020 9:04:44 PM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/12/2020 9:04:44 PM	52388
Toluene	ND	0.048		mg/Kg	1	5/12/2020 9:04:44 PM	52388
Ethylbenzene	ND	0.048		mg/Kg	1	5/12/2020 9:04:44 PM	52388
Xylenes, Total	ND	0.096		mg/Kg	1	5/12/2020 9:04:44 PM	52388
Surr: 4-Bromofluorobenzene	94.5	80-120		%Rec	1	5/12/2020 9:04:44 PM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS9

Project: Thistle Unit 18H

Collection Date: 5/6/2020 1:04:00 PM

Lab ID: 2005349-009

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	5/10/2020 11:25:00 PM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/12/2020 8:35:24 PM	52392
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/12/2020 8:35:24 PM	52392
Surr: DNOP	86.7	55.1-146		%Rec	1	5/12/2020 8:35:24 PM	52392
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/12/2020 9:28:42 PM	52388
Surr: BFB	102	66.6-105		%Rec	1	5/12/2020 9:28:42 PM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/12/2020 9:28:42 PM	52388
Toluene	ND	0.048		mg/Kg	1	5/12/2020 9:28:42 PM	52388
Ethylbenzene	ND	0.048		mg/Kg	1	5/12/2020 9:28:42 PM	52388
Xylenes, Total	ND	0.097		mg/Kg	1	5/12/2020 9:28:42 PM	52388
Surr: 4-Bromofluorobenzene	97.5	80-120		%Rec	1	5/12/2020 9:28:42 PM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS10

Project: Thistle Unit 18H

Collection Date: 5/6/2020 12:22:00 PM

Lab ID: 2005349-010

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	59		mg/Kg	20	5/10/2020 11:37:20 PM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/12/2020 9:00:03 PM	52392
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/12/2020 9:00:03 PM	52392
Surr: DNOP	89.7	55.1-146		%Rec	1	5/12/2020 9:00:03 PM	52392
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/12/2020 9:52:22 PM	52388
Surr: BFB	104	66.6-105		%Rec	1	5/12/2020 9:52:22 PM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/12/2020 9:52:22 PM	52388
Toluene	ND	0.048		mg/Kg	1	5/12/2020 9:52:22 PM	52388
Ethylbenzene	ND	0.048		mg/Kg	1	5/12/2020 9:52:22 PM	52388
Xylenes, Total	ND	0.096		mg/Kg	1	5/12/2020 9:52:22 PM	52388
Surr: 4-Bromofluorobenzene	99.0	80-120		%Rec	1	5/12/2020 9:52:22 PM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS11

Project: Thistle Unit 18H

Collection Date: 5/6/2020 12:26:00 PM

Lab ID: 2005349-011

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	5/10/2020 11:49:41 PM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/12/2020 9:25:01 PM	52392
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/12/2020 9:25:01 PM	52392
Surr: DNOP	90.6	55.1-146		%Rec	1	5/12/2020 9:25:01 PM	52392
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/12/2020 11:03:23 PM	52388
Surr: BFB	100	66.6-105		%Rec	1	5/12/2020 11:03:23 PM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/12/2020 11:03:23 PM	52388
Toluene	ND	0.048		mg/Kg	1	5/12/2020 11:03:23 PM	52388
Ethylbenzene	ND	0.048		mg/Kg	1	5/12/2020 11:03:23 PM	52388
Xylenes, Total	ND	0.096		mg/Kg	1	5/12/2020 11:03:23 PM	52388
Surr: 4-Bromofluorobenzene	95.5	80-120		%Rec	1	5/12/2020 11:03:23 PM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS12

Project: Thistle Unit 18H

Collection Date: 5/6/2020 12:28:00 PM

Lab ID: 2005349-012

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	5/11/2020 12:02:01 AM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/13/2020 3:02:33 PM	52417
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/13/2020 3:02:33 PM	52417
Surr: DNOP	113	55.1-146		%Rec	1	5/13/2020 3:02:33 PM	52417
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/12/2020 11:27:09 PM	52388
Surr: BFB	101	66.6-105		%Rec	1	5/12/2020 11:27:09 PM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/12/2020 11:27:09 PM	52388
Toluene	ND	0.050		mg/Kg	1	5/12/2020 11:27:09 PM	52388
Ethylbenzene	ND	0.050		mg/Kg	1	5/12/2020 11:27:09 PM	52388
Xylenes, Total	ND	0.099		mg/Kg	1	5/12/2020 11:27:09 PM	52388
Surr: 4-Bromofluorobenzene	94.5	80-120		%Rec	1	5/12/2020 11:27:09 PM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS13

Project: Thistle Unit 18H

Collection Date: 5/6/2020 12:30:00 PM

Lab ID: 2005349-013

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	5/11/2020 12:39:02 AM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	10	9.8		mg/Kg	1	5/13/2020 4:15:00 PM	52417
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/13/2020 4:15:00 PM	52417
Surr: DNOP	94.8	55.1-146		%Rec	1	5/13/2020 4:15:00 PM	52417
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/12/2020 11:51:01 PM	52388
Surr: BFB	98.9	66.6-105		%Rec	1	5/12/2020 11:51:01 PM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/12/2020 11:51:01 PM	52388
Toluene	ND	0.049		mg/Kg	1	5/12/2020 11:51:01 PM	52388
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2020 11:51:01 PM	52388
Xylenes, Total	ND	0.099		mg/Kg	1	5/12/2020 11:51:01 PM	52388
Surr: 4-Bromofluorobenzene	94.1	80-120		%Rec	1	5/12/2020 11:51:01 PM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW1

Project: Thistle Unit 18H

Collection Date: 5/6/2020 1:36:00 PM

Lab ID: 2005349-014

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	5/11/2020 12:51:23 AM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/13/2020 4:39:15 PM	52417
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/13/2020 4:39:15 PM	52417
Surr: DNOP	104	55.1-146		%Rec	1	5/13/2020 4:39:15 PM	52417
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/13/2020 12:14:47 AM	52388
Surr: BFB	98.7	66.6-105		%Rec	1	5/13/2020 12:14:47 AM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/13/2020 12:14:47 AM	52388
Toluene	ND	0.049		mg/Kg	1	5/13/2020 12:14:47 AM	52388
Ethylbenzene	ND	0.049		mg/Kg	1	5/13/2020 12:14:47 AM	52388
Xylenes, Total	ND	0.099		mg/Kg	1	5/13/2020 12:14:47 AM	52388
Surr: 4-Bromofluorobenzene	92.5	80-120		%Rec	1	5/13/2020 12:14:47 AM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW2

Project: Thistle Unit 18H

Collection Date: 5/6/2020 1:38:00 PM

Lab ID: 2005349-015

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	5/11/2020 1:03:44 AM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/13/2020 5:03:22 PM	52417
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/13/2020 5:03:22 PM	52417
Surr: DNOP	127	55.1-146		%Rec	1	5/13/2020 5:03:22 PM	52417
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/13/2020 12:38:35 AM	52388
Surr: BFB	99.4	66.6-105		%Rec	1	5/13/2020 12:38:35 AM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/13/2020 12:38:35 AM	52388
Toluene	ND	0.048		mg/Kg	1	5/13/2020 12:38:35 AM	52388
Ethylbenzene	ND	0.048		mg/Kg	1	5/13/2020 12:38:35 AM	52388
Xylenes, Total	ND	0.096		mg/Kg	1	5/13/2020 12:38:35 AM	52388
Surr: 4-Bromofluorobenzene	94.2	80-120		%Rec	1	5/13/2020 12:38:35 AM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW3

Project: Thistle Unit 18H

Collection Date: 5/6/2020 1:40:00 PM

Lab ID: 2005349-016

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	5/11/2020 1:16:04 AM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/13/2020 5:27:38 PM	52417
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/13/2020 5:27:38 PM	52417
Surr: DNOP	111	55.1-146		%Rec	1	5/13/2020 5:27:38 PM	52417
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/13/2020 1:02:33 AM	52388
Surr: BFB	100	66.6-105		%Rec	1	5/13/2020 1:02:33 AM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/13/2020 1:02:33 AM	52388
Toluene	ND	0.047		mg/Kg	1	5/13/2020 1:02:33 AM	52388
Ethylbenzene	ND	0.047		mg/Kg	1	5/13/2020 1:02:33 AM	52388
Xylenes, Total	ND	0.093		mg/Kg	1	5/13/2020 1:02:33 AM	52388
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	5/13/2020 1:02:33 AM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW4

Project: Thistle Unit 18H

Collection Date: 5/6/2020 1:42:00 PM

Lab ID: 2005349-017

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	5/11/2020 1:28:25 AM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/13/2020 5:51:51 PM	52417
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/13/2020 5:51:51 PM	52417
Surr: DNOP	120	55.1-146		%Rec	1	5/13/2020 5:51:51 PM	52417
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/13/2020 1:26:25 AM	52388
Surr: BFB	99.4	66.6-105		%Rec	1	5/13/2020 1:26:25 AM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/13/2020 1:26:25 AM	52388
Toluene	ND	0.048		mg/Kg	1	5/13/2020 1:26:25 AM	52388
Ethylbenzene	ND	0.048		mg/Kg	1	5/13/2020 1:26:25 AM	52388
Xylenes, Total	ND	0.096		mg/Kg	1	5/13/2020 1:26:25 AM	52388
Surr: 4-Bromofluorobenzene	92.9	80-120		%Rec	1	5/13/2020 1:26:25 AM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW5

Project: Thistle Unit 18H

Collection Date: 5/6/2020 1:44:00 PM

Lab ID: 2005349-018

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	5/11/2020 1:40:45 AM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	5/13/2020 6:16:11 PM	52417
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	5/13/2020 6:16:11 PM	52417
Surr: DNOP	120	55.1-146		%Rec	1	5/13/2020 6:16:11 PM	52417
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/13/2020 1:50:18 AM	52388
Surr: BFB	97.8	66.6-105		%Rec	1	5/13/2020 1:50:18 AM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/13/2020 1:50:18 AM	52388
Toluene	ND	0.048		mg/Kg	1	5/13/2020 1:50:18 AM	52388
Ethylbenzene	ND	0.048		mg/Kg	1	5/13/2020 1:50:18 AM	52388
Xylenes, Total	ND	0.097		mg/Kg	1	5/13/2020 1:50:18 AM	52388
Surr: 4-Bromofluorobenzene	91.2	80-120		%Rec	1	5/13/2020 1:50:18 AM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW6

Project: Thistle Unit 18H

Collection Date: 5/6/2020 1:46:00 PM

Lab ID: 2005349-019

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	5/11/2020 1:53:05 AM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/13/2020 6:40:35 PM	52417
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/13/2020 6:40:35 PM	52417
Surr: DNOP	130	55.1-146		%Rec	1	5/13/2020 6:40:35 PM	52417
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/13/2020 2:14:10 AM	52388
Surr: BFB	98.6	66.6-105		%Rec	1	5/13/2020 2:14:10 AM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/13/2020 2:14:10 AM	52388
Toluene	ND	0.048		mg/Kg	1	5/13/2020 2:14:10 AM	52388
Ethylbenzene	ND	0.048		mg/Kg	1	5/13/2020 2:14:10 AM	52388
Xylenes, Total	ND	0.096		mg/Kg	1	5/13/2020 2:14:10 AM	52388
Surr: 4-Bromofluorobenzene	93.8	80-120		%Rec	1	5/13/2020 2:14:10 AM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2005349**

Date Reported: **5/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW7

Project: Thistle Unit 18H

Collection Date: 5/6/2020 1:48:00 PM

Lab ID: 2005349-020

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	5/11/2020 2:05:25 AM	52376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/13/2020 7:05:07 PM	52417
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/13/2020 7:05:07 PM	52417
Surr: DNOP	132	55.1-146		%Rec	1	5/13/2020 7:05:07 PM	52417
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/13/2020 2:38:05 AM	52388
Surr: BFB	99.1	66.6-105		%Rec	1	5/13/2020 2:38:05 AM	52388
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/13/2020 2:38:05 AM	52388
Toluene	ND	0.049		mg/Kg	1	5/13/2020 2:38:05 AM	52388
Ethylbenzene	ND	0.049		mg/Kg	1	5/13/2020 2:38:05 AM	52388
Xylenes, Total	ND	0.098		mg/Kg	1	5/13/2020 2:38:05 AM	52388
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	5/13/2020 2:38:05 AM	52388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2005349

14-May-20

Client: Souder, Miller & Associates

Project: Thistle Unit 18H

Sample ID: MB-52376	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 52376	RunNo: 68789								
Prep Date: 5/10/2020	Analysis Date: 5/10/2020	SeqNo: 2380542	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-52376	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 52376	RunNo: 68789								
Prep Date: 5/10/2020	Analysis Date: 5/10/2020	SeqNo: 2380543	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2005349

14-May-20

Client: Souder, Miller & Associates

Project: Thistle Unit 18H

Sample ID: LCS-52392	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 52392	RunNo: 68810								
Prep Date: 5/11/2020	Analysis Date: 5/12/2020	SeqNo: 2381688	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	70	130			
Surr: DNOP	3.9		5.000		77.4	55.1	146			

Sample ID: MB-52392	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 52392	RunNo: 68810								
Prep Date: 5/11/2020	Analysis Date: 5/12/2020	SeqNo: 2381689	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		98.6	55.1	146			

Sample ID: LCS-52417	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 52417	RunNo: 68847								
Prep Date: 5/12/2020	Analysis Date: 5/13/2020	SeqNo: 2383136	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	70	130			
Surr: DNOP	5.0		5.000		101	55.1	146			

Sample ID: MB-52417	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 52417	RunNo: 68847								
Prep Date: 5/12/2020	Analysis Date: 5/13/2020	SeqNo: 2383137	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	55.1	146			

Sample ID: 2005349-012AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: CS12	Batch ID: 52417	RunNo: 68847								
Prep Date: 5/12/2020	Analysis Date: 5/13/2020	SeqNo: 2383873	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	9.8	48.83	3.259	99.9	47.4	136			
Surr: DNOP	5.1		4.883		105	55.1	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2005349

14-May-20

Client: Souder, Miller & Associates

Project: Thistle Unit 18H

Sample ID: 2005349-012AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: CS12	Batch ID: 52417	RunNo: 68847								
Prep Date: 5/12/2020	Analysis Date: 5/13/2020	SeqNo: 2383874	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.8	48.92	3.259	92.8	47.4	136	6.65	43.4	
Surr: DNOP	5.2		4.892		106	55.1	146	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2005349

14-May-20

Client: Souder, Miller & Associates

Project: Thistle Unit 18H

Sample ID: mb-52388	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 52388	RunNo: 68813								
Prep Date: 5/11/2020	Analysis Date: 5/12/2020	SeqNo: 2382331	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	66.6	105			

Sample ID: ics-52388	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 52388	RunNo: 68813								
Prep Date: 5/11/2020	Analysis Date: 5/12/2020	SeqNo: 2382332	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.3	80	120			
Surr: BFB	1100		1000		109	66.6	105			S

Sample ID: 2005349-002ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: CS2	Batch ID: 52388	RunNo: 68813								
Prep Date: 5/11/2020	Analysis Date: 5/12/2020	SeqNo: 2382335	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	24.08	0	90.3	80	120			
Surr: BFB	1000		963.4		107	66.6	105			S

Sample ID: 2005349-002amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: CS2	Batch ID: 52388	RunNo: 68813								
Prep Date: 5/11/2020	Analysis Date: 5/12/2020	SeqNo: 2382336	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.46	0	93.9	80	120	5.46	20	
Surr: BFB	1100		978.5		109	66.6	105	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2005349

14-May-20

Client: Souder, Miller & Associates

Project: Thistle Unit 18H

Sample ID: mb-52388	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 52388	RunNo: 68813								
Prep Date: 5/11/2020	Analysis Date: 5/12/2020	SeqNo: 2382369	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.3	80	120			

Sample ID: LCS-52388	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 52388	RunNo: 68813								
Prep Date: 5/11/2020	Analysis Date: 5/12/2020	SeqNo: 2382370	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.1	80	120			
Toluene	0.91	0.050	1.000	0	91.2	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.5	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.0	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.8	80	120			

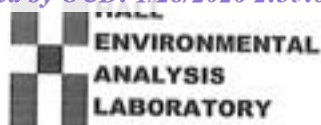
Sample ID: 2005349-001ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: CS1	Batch ID: 52388	RunNo: 68813								
Prep Date: 5/11/2020	Analysis Date: 5/12/2020	SeqNo: 2382372	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	0.9881	0	100	78.5	119			
Toluene	1.0	0.049	0.9881	0.01803	104	75.7	123			
Ethylbenzene	1.1	0.049	0.9881	0	108	74.3	126			
Xylenes, Total	3.1	0.099	2.964	0.02639	105	72.9	130			
Surr: 4-Bromofluorobenzene	0.93		0.9881		94.3	80	120			

Sample ID: 2005349-001amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: CS1	Batch ID: 52388	RunNo: 68813								
Prep Date: 5/11/2020	Analysis Date: 5/12/2020	SeqNo: 2382373	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.023	0.9381	0	99.9	78.5	119	5.48	20	
Toluene	1.0	0.047	0.9381	0.01803	105	75.7	123	3.90	20	
Ethylbenzene	1.0	0.047	0.9381	0	107	74.3	126	5.58	20	
Xylenes, Total	3.0	0.094	2.814	0.02639	105	72.9	130	5.06	20	
Surr: 4-Bromofluorobenzene	0.89		0.9381		94.4	80	120	0	0	

Qualifiers:

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- D Sample Diluted Due to Matrix
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- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
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- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 2005349

RcptNo: 1

Received By: Isaiah Ortiz

5/8/2020 12:45:00 PM

I-Ox

Completed By: Isaiah Ortiz

5/8/2020 7:30:56 AM

I-Ox

Reviewed By: [Signature]

5/8/20

Chain of Custody

- 1. Is Chain of Custody sufficiently complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0° C? Yes [checked] No [] NA []
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? Yes [checked] No []

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: EMS/8/20

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: _____ Date: _____
By Whom: _____ Via: [] eMail [] Phone [] Fax [] In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.

Chain-of-Custody Record

Client: SMA - Carlstad

Mailing Address:

Phone #: 20848225

email or Fax#:

QA/QC Package:
 Standard Level 4 (Full Validation)
 Az Compliance
 NELAC Other
 EDD (Type)

Turn-Around Time:
 Standard Rush 5 day turn

Project Name:
 Thistle Unit #18H

Project #:
 20848225

Project Manager:
 Ashley Maxwell

Sampler:
 CHA

On Ice: Yes No

of Coolers: 2 34.0 hr 34.0
 Cooler Temp. (including CF): 1.2-0.1 (1.2-1.2 °C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEx7 MTBE / TMBs (8021)	X
TPH:8015D(GRO / DRO / MRO)	X
8081 Pesticides/8082 PCBs	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	X
Cl, F, Br, NO ₂ , NO ₃ , PO ₄ , SO ₄	X
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No
5/16/20	945	Soil	CS1	402		2005349
	447		CS2			-001
	1133		CS3			-002
	1123		CS4			-003
	954		CS5			-004
	956		CS6			-005
	957		CS7			-006
	1002		CS8			-007
	1304		CS9			-008
	1222		CS10			-009
	1226		CS11			-010
	1228		CS12			-011
	0930					-012
	1940					-017

Received by: [Signature] Date: 5/16/20 Time: 0930

Relinquished by: [Signature] Date: 5/16/20 Time: 1940

Via: Courier 5/18/20 1245

Remarks: Dred BU: Devon 1 of 2

Chain-of-Custody Record

Client: SMA - Clarkwood
 Rush Standard Rush 5 day turn
 Project Name: TrustHe Unit #18H
 Project #: 20848225
 Project Manager: Ashley Maxwell
 Sampler: LFA
 On Ice: Yes No
 # of Coolers: 2 3.4 - 0.6ref 3.4 C
 Cooler Temp (including CF): 1.2 - 0.6ref 1.2 C

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No	Date	Time
5/6/20	1:30	Soil	CS13	402		2005349	5/7/20	09:30
	1:36		SW1					
	1:38		SW2					
	1:40		SW3					
	1:42		SW4					
	1:44		SW5					
	1:46		SW6					
	1:48		SW7					

Relinquished by: [Signature] Date: 5/7/20 Time: 1400
 Relinquished by: [Signature] Date: 5/7/20 Time: 0930
 Received by: [Signature] Date: 5/7/20 Time: 0930
 Received by: [Signature] Date: 5/18/20 Time: 1245
 Via: courier



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request	
<input checked="" type="checkbox"/> (BTEX) MTBE / TMBs (8021)	
TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCBs	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
<input checked="" type="checkbox"/> Cl, F, Br, NO ₂ , NO ₃ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks: Direct Bill: Devon 2 of 2

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 547500

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 547500
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2008553248
Incident Name	NRM2008553248 THISTLE UNIT #18H @ 30-025-40010
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-40010] THISTLE UNIT #018H

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	THISTLE UNIT #18H
Date Release Discovered	03/19/2020
Surface Owner	Private

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil 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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Other Other (Specify) Crude Oil Released: 53 BBL Recovered: 40 BBL Lost: 13 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 547500

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 547500
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<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	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.ralej@dvn.com Date: 01/28/2026
--	--

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QUESTIONS, Page 3

Action 547500

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 547500
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	3960
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1150
GRO+DRO (EPA SW-846 Method 8015M)	784
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	05/06/2020
On what date will (or did) the final sampling or liner inspection occur	07/18/2025
On what date will (or was) the remediation complete(d)	07/18/2025
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	17730
What is the estimated volume (in cubic yards) that will be remediated	415

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 547500

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 547500
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 01/28/2026
--	--

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 5

Action 547500

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 547500
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	No

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, Page 6

Action 547500

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 547500
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	505879
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/18/2025
What was the (estimated) number of samples that were to be gathered	79
What was the sampling surface area in square feet	31347

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	17730
What was the total volume (cubic yards) remediated	415
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	n/a

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.ralej@dmn.com Date: 01/28/2026
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QUESTIONS, Page 7

Action 547500

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 547500
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 547500

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 547500
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.	3/23/2026