

Incident ID	nAPP2301424910
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?	<u>unknown</u> (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

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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: Dale Woodall Title: Environmental Professional
Signature: Dale Woodall Date: 5/12/2023
email: Dale.Wodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 05/12/2023

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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: Dale Woodall Title: Environmental Professional
Signature: Dale Woodall Date: 5/12/2023
email: Dale.Wodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 05/12/2023

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Nelson Velez Date: 08/01/2023

Incident ID	nAPP2301424910
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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: Dale Woodall Title: Environmental Professional
Signature: Dale Woodall Date: 5/12/2023
email: Dale.Wodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 05/12/2023

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: _____ Date: _____

Printed Name: _____ Title: _____

DEVON ENERGY
Thistle North CTB

Liner Inspection Report

UL N, Section 22, T23S, R33E
Lea County, New Mexico

nAPP2301424910

May 11, 2023



Prepared for:

Devon Energy
6488 Seven Rivers Hwy
Artesia, NM 88210

By:

Safety & Environmental Solutions, Inc.
703 East Clinton
Hobbs, New Mexico 88240
(575) 397-0510

Company Contacts

Representative	Company	Telephone	E-mail
Dale Woodall	Devon Energy		Dale.Woodall@devon.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Devon Energy to perform a liner inspection at the Thistle North CTB. This site is situated in Lea County, Section 22, Township 23S, and Range 33E.

According to the C-141: (nAPP2301424910) the cause of release was due to worn seal on a transfer pump which resulted in a release of approximately 7 bbls of crude oil of which 7bbls were recovered and 5 bbls of produced water released with 5 bbls recovered. The pump was shut down and isolated to stop the leak. The spill did not leave the lined containment and supervisors were contacted for repairs and cleanup.

SESI personnel conducted a site assessment on January 20, 2023. Documentation of the liner inspection is contained within this report.

Groundwater

There are no groundwater locations or measurements within ½ mile of the site.

Release Area (NAPP2301424910), Investigation

On January 20, 2023, SESI personnel identified 18 areas where the liner integrity had been compromised. Damage due to weatherization and environmental exposure likely contributed to the holes, rips and cracks identified in the inspection.

Corrective Actions

SESI personnel conducted repairs to the liner on March 2, 2023. Photo documentation is provided for your review.

Samples were taken at the surface and 1–2-foot intervals until field testing indicated the samples to meet target levels. All soil samples were properly packaged, preserved, and transported to Hall Laboratories via Chain of Custody for analyses of Chloride (CI Method 300.0), Diesel Organics (DRO Method 8015 M/D), Gasoline Range (GRO Method 8015D), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B).

The results are tabulated in the table below:

Devon –Thistle North Central Battery								
Sampling Date: 03/01/2023								
Soil Sample Results: Hall Environmental Analysis Laboratory (2303211)								
Sample ID	Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes, Total (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)
1 Surface	ND	ND	ND	ND	ND	ND	ND	ND
2 Surface	ND	ND	ND	ND	ND	ND	ND	ND
3 Surface	240	ND	ND	ND	ND	ND	ND	ND
4 Surface	420	ND	ND	ND	ND	ND	ND	ND
4 1ft	ND	ND	ND	ND	ND	ND	ND	ND
5 Surface	1700	ND	ND	ND	ND	ND	ND	ND
5 1ft	86	ND	ND	ND	ND	ND	ND	ND
6 Surface	290	ND	ND	ND	ND	ND	ND	ND
6 1ft	ND	ND	ND	ND	ND	ND	ND	ND
7 Surface	ND	ND	ND	ND	ND	ND	91	190
8 Surface	310	ND	ND	ND	ND	ND	ND	ND
9 Surface	ND	ND	ND	ND	ND	ND	150	310
10 Surface	ND	ND	ND	ND	ND	ND	ND	ND
11 Surface	ND	ND	ND	ND	ND	ND	ND	ND
12 Surface	ND	ND	ND	ND	ND	ND	ND	ND
13 Surface	360	ND	ND	ND	ND	ND	ND	ND
14 Surface	67	ND	ND	ND	ND	ND	ND	ND
15 Surface	93	ND	ND	ND	ND	ND	690	260
16 Surface	ND	ND	ND	ND	ND	ND	ND	ND
17 Surface	260	ND	ND	ND	ND	ND	ND	ND
18 Surface	650	ND	ND	ND	ND	ND	ND	ND
18 1ft	1600	ND	ND	ND	ND	ND	ND	ND
18 2ft	340	ND	ND	ND	ND	ND	ND	ND

Devon –Thistle North Central Battery								
Sampling Date: 03/22/2023								
Soil Sample Results: Hall Environmental Analysis Laboratory (2303C35)								
Sample ID	Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes, Total (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)
#7-1ft	ND	ND	ND	ND	ND	ND	ND	ND
#9-1ft	ND	ND	ND	ND	ND	ND	19	ND
#9-2ft	ND	ND	ND	ND	ND	ND	ND	ND
#15-1ft	2200	ND	ND	ND	ND	ND	ND	ND

Devon –Thistle North Central Battery								
Sampling Date: 04/05/2023								
Soil Sample Results: Hall Environmental Analysis Laboratory (2304348)								
Sample ID	Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes, Total (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)
Hole 15 2'	ND	ND	ND	ND	ND	ND	ND	ND
Hole 15 3'	ND	ND	ND	ND	ND	ND	ND	ND
Hole 15 4'	81	ND	ND	ND	ND	ND	130	55

The results of the sampling of all locations where the liner was compromised determined the vertical extent of contamination underneath the line except for locations # 7, # 9, and # 15. In these areas the sampler encountered soil with a high clay content that did not allow our field test to filter enough leachate to test, thus the additional sampling performed on March 23 and April 5, 2023.

The sample at four feet in location #15 was taken at the auger refusal depth. The MRO and DRO concentrations exceed 100 ppm by 80 ppm which does not determine the vertical extent. However, the manual hand auger reached refusal at this depth. Any additional boring would require using a mechanized auger inside the berm.

Based upon the results of the sampling, Devon respectfully requests that any contamination underneath the liner be deferred until closure of the battery.

Supplemental Documentation

- Document 1: Vicinity Map
- Document 2: OSE information
- Document 3: NMOCD Oil and Gas Map
- Document 4: BLM Cave Karst Map
- Document 5: FEMA Floodplain Map
- Document 6: Photographs of compromised areas and repairs
- Document 7: Lab analysis
- Document 8: C-141 initial, pg. 3-6

Devon Energy

Thistle North CTB

Devon Thistle North Central Tank Battery

Google Earth

Released to Imaging: 8/1/2023 9:45:33 AM

100 ft



Devon Thistle North CTB

Legend

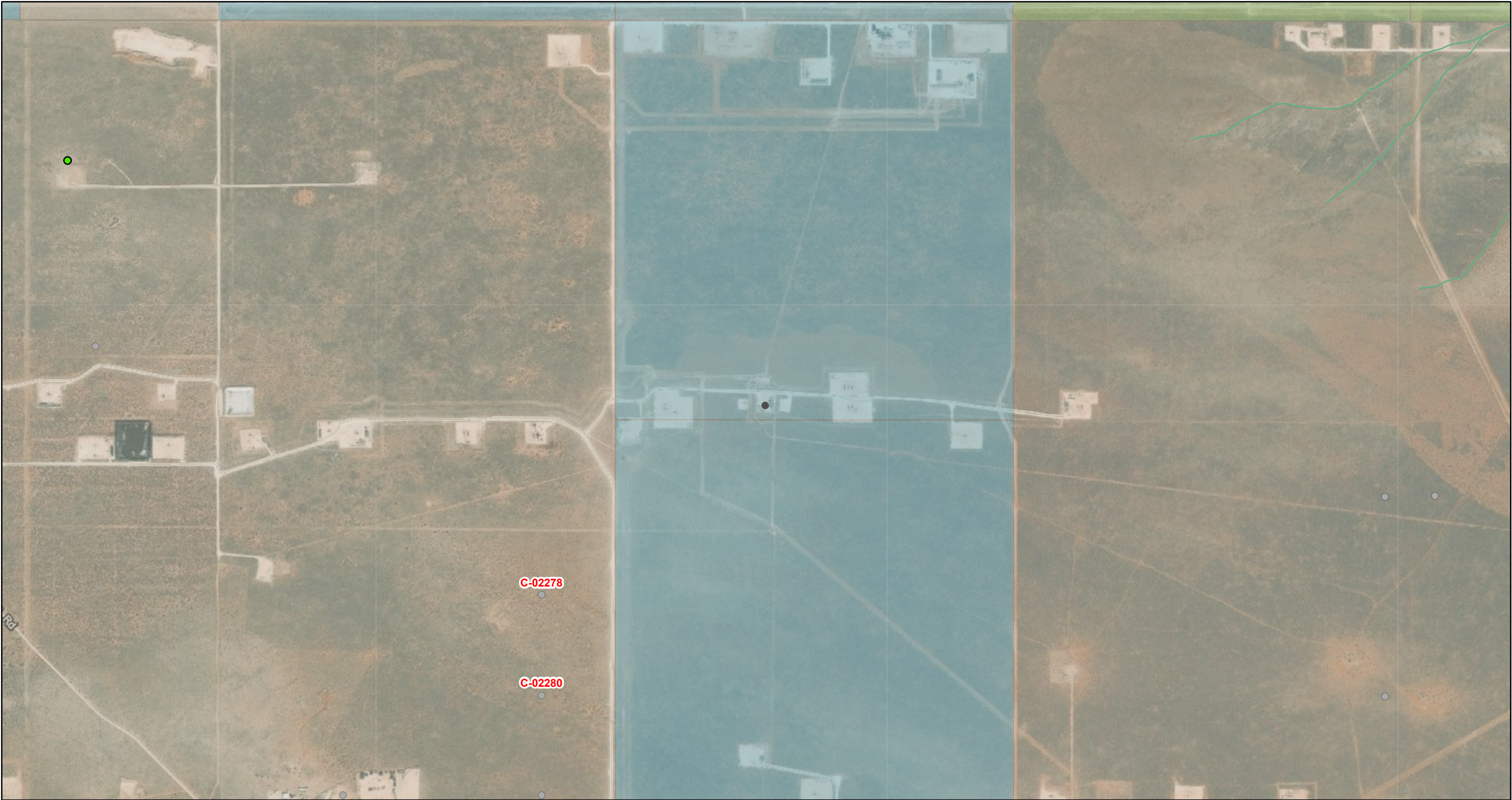
Write a description for your map.

Devon Thistle North CTB



4000 ft

OSE POD Locations Map



5/11/2023, 2:41:34 PM

GIS WATERS PODs

Pending

OSE District Boundary

Water Right Regulations

Closure Area

New Mexico State Trust Lands

Subsurface Estate



Surface Estate



Both Estates

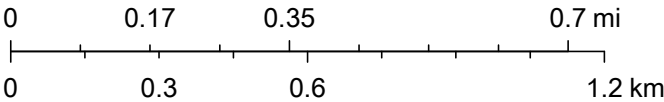
NHD Flowlines

Stream River

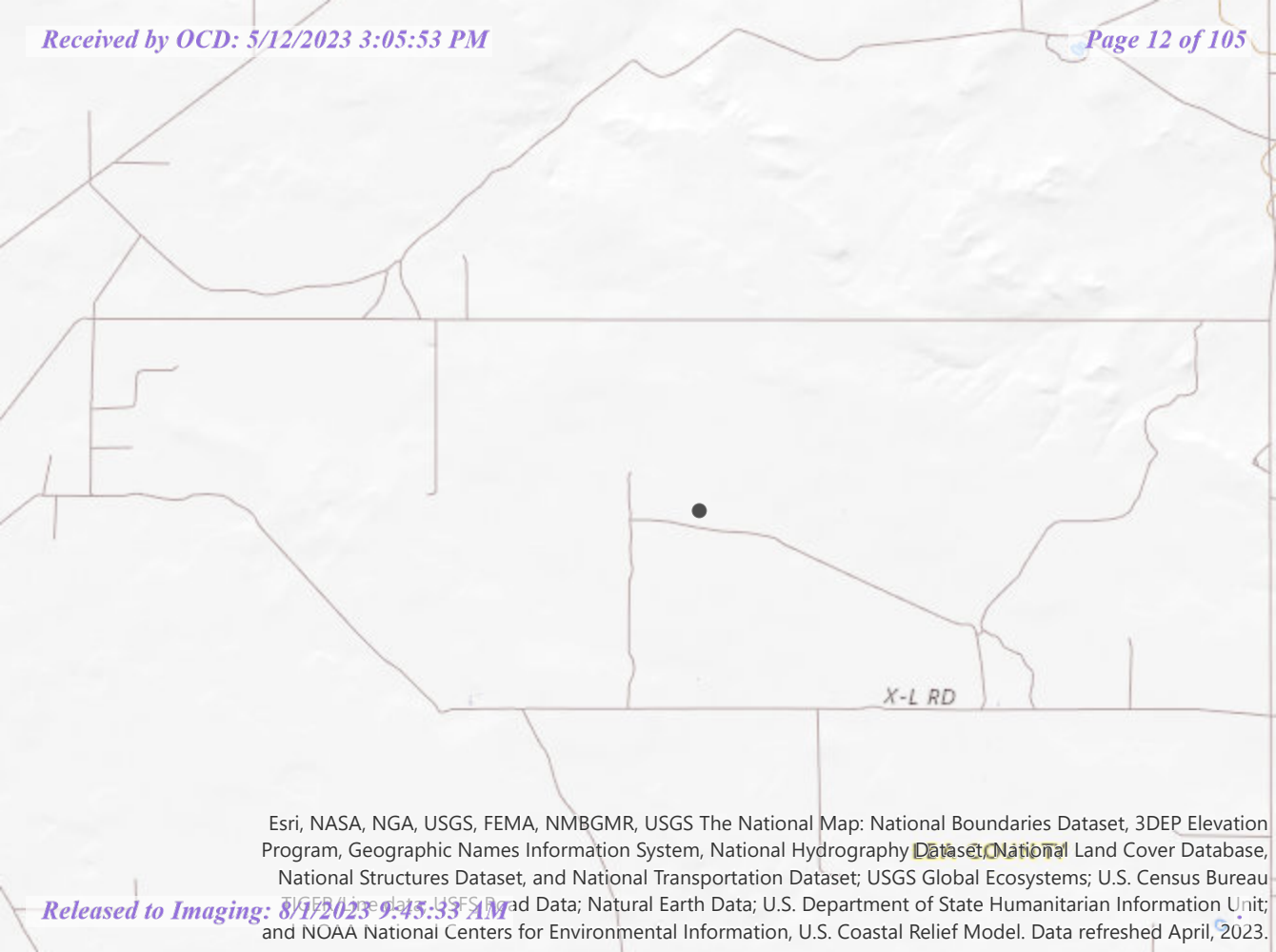


SiteBoundaries

1:18,056



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



Esri, NASA, NGA, USGS, FEMA, NMBGMR, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed April, 2023.



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

Basin/County Search:

PLSS Search:

Q16: SE

Q4: SW

Section(s): 14-16, 21-23,
26-28

Township: 23S

Range: 33E

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.

5/11/23 2:37 PM





Page 1 of 1


WATER COLUMN/ AVERAGE
DEPTH TO WATER

Devon

Thistle North Central Tank Battery
Karst Map-Low

Legend

-  Devon Thistle North Central Tank Battery
-  High
-  Low
-  Medium

 Devon Thistle North Central Tank Battery



National Flood Hazard Layer FIRMette



103°34'3"W 32°17'16"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		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



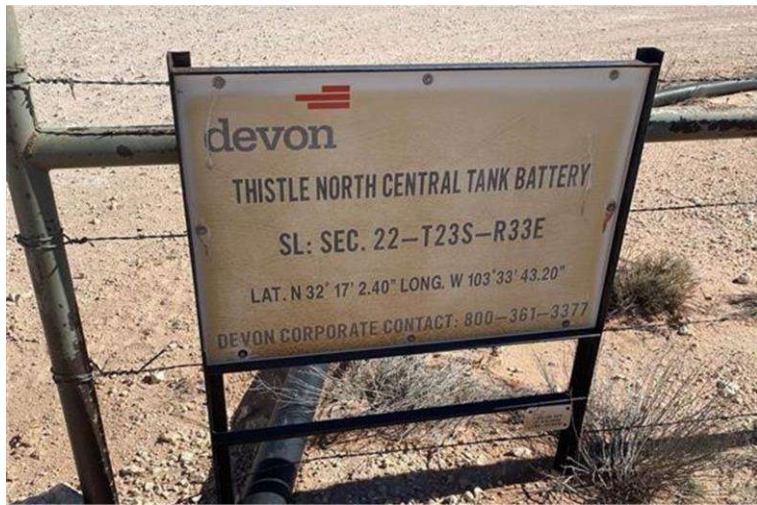
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

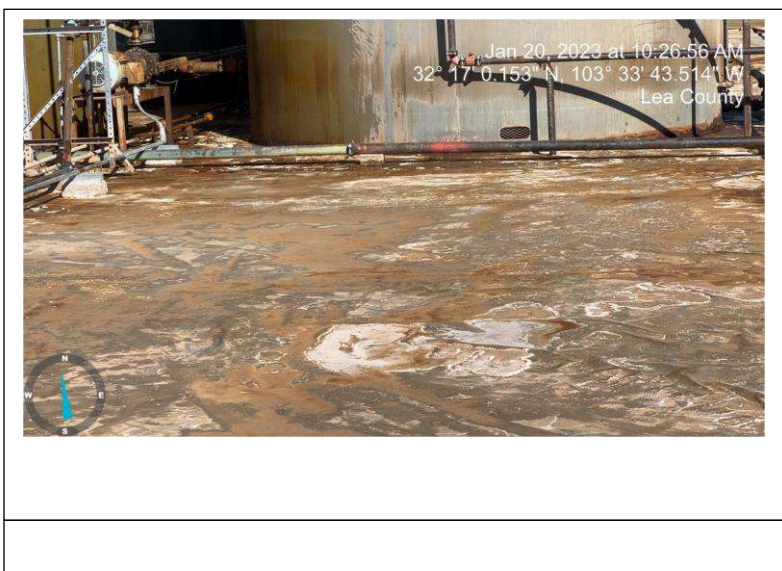
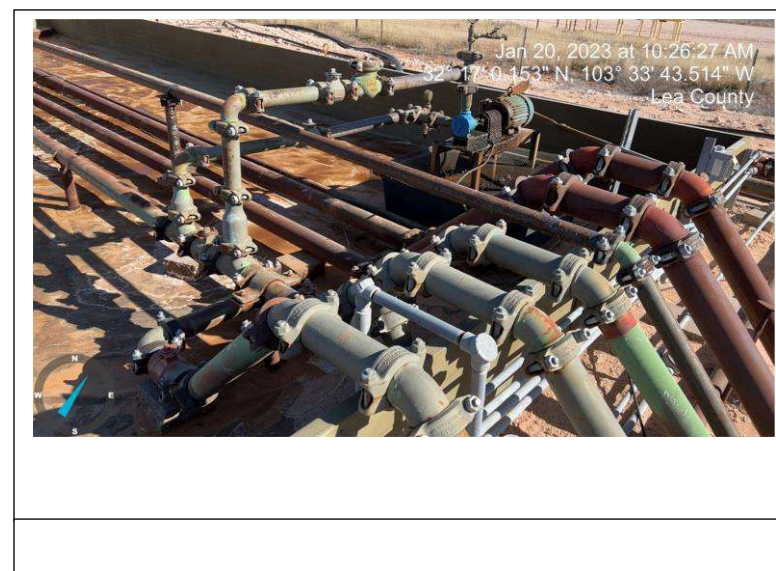
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/11/2023 at 1:53 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by 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.

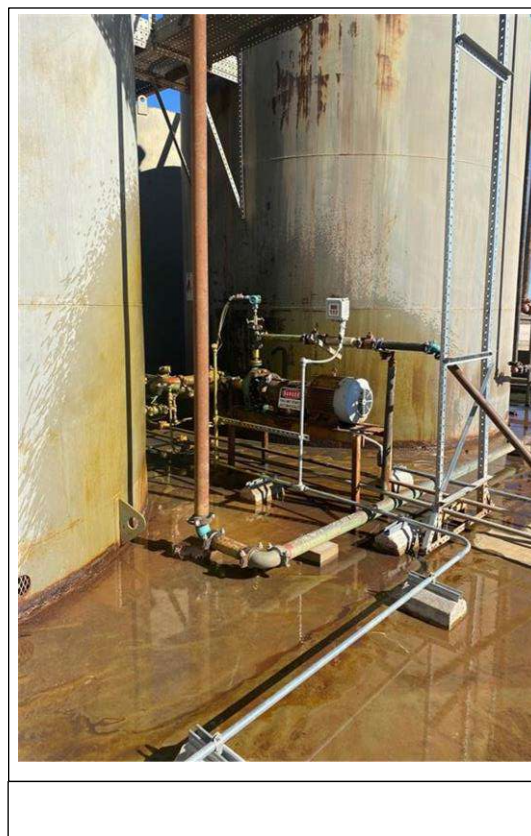
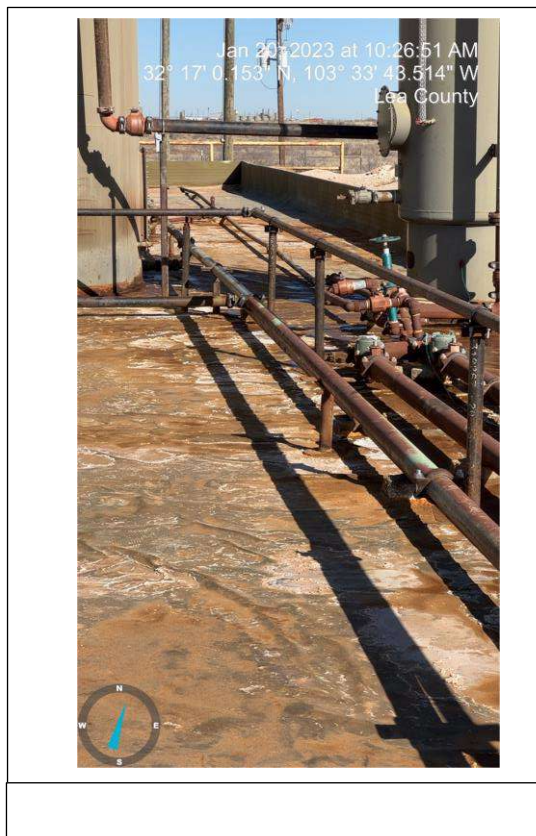
Devon- Thistle North Central Tank Battery January 20, 2023



Devon- Thistle North Central Tank Battery January 20, 2023



Devon- Thistle North Central Tank Battery January 20, 2023



Devon, Thistle North Central Tank Battery

DEV-23-001



North looking Southeast



East looking North



East looking South



South looking Northeast



West looking North



West looking South

Devon, Thistle North Central Tank Battery**DEV-23-001 Liner Inspection 02/22/2023****SW corner facing N outside berm****SW corner facing N inside berm****SW corner facing sump-full****SW corner facing sump-full**

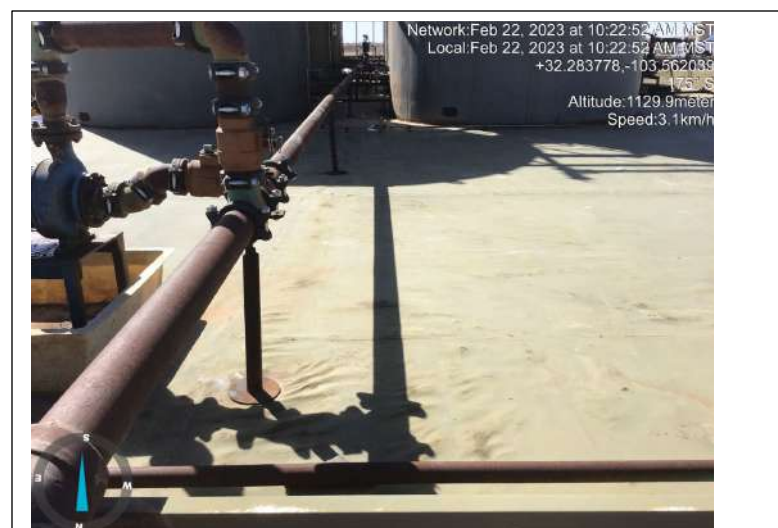
Devon, Thistle North Central Tank Battery**DEV-23-001 Liner Inspection 02/22/2023****South area inside berm****South area inside berm****SE area inside berm****SE corner facing N outside berm**

Devon, Thistle North Central Tank Battery**DEV-23-001 Liner Inspection 02/22/2023****SE corner facing N inside berm****SE corner facing W outside berm****SE corner facing W inside berm****SE corner-standing water**

Devon, Thistle North Central Tank Battery**DEV-23-001 Liner Inspection 02/22/2023****SE corner facing W inside****South area facing W****South area facing W****Area between tank facing W**

Devon, Thistle North Central Tank Battery**DEV-23-001 Liner Inspection 02/22/2023****Area between next tank facing W****North area facing W****North area facing W****NE corner facing W-inside**

Devon, Thistle North Central Tank Battery**DEV-23-001 Liner Inspection 02/22/2023****NE corner facing S-inside****NE corner facing S-inside****NE corner facing S outside****NE corner facing W outside**

Devon, Thistle North Central Tank Battery**DEV-23-001 Liner Inspection 02/22/2023****N area facing S****N area facing S****N area facing S****NW corner facing S inside**

Devon, Thistle North Central Tank Battery

DEV-23-001 Liner Inspection 02/22/2023



NW corner sump-full



NW corner facing E outside



NW corner facing E inside



N area facing E

Devon, Thistle North Central Tank Battery
DEV-23-001 Liner Inspection 02/22/2023



North area facing East



North area facing East



Area between tank facing E

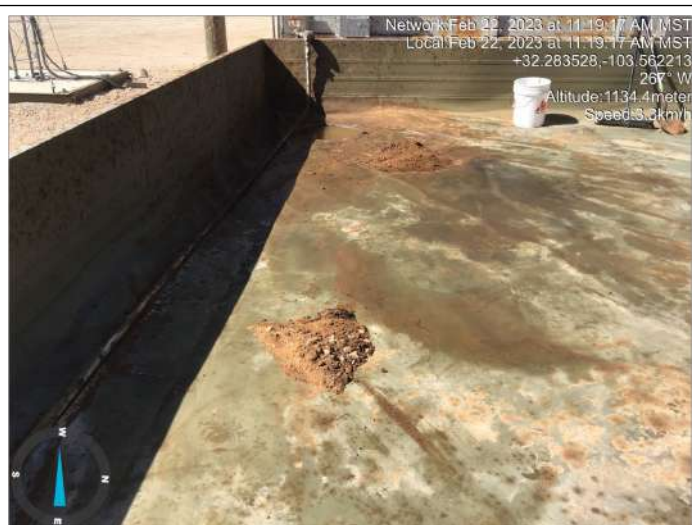


NW corner facing S outside

Devon, Thistle North Central Tank Battery**DEV-23-001 Liner Inspection 02/22/2023****Area between next tank facing E****S area facing E****S area facing E****S area facing E**

Devon, Thistle North Central Tank Battery

DEV-23-001 Liner Inspection 02/22/2023



SE corner sump after cleaning

Devon, Thistle North Central Tank Battery

DEV-20-005 Liner Inspection 02/27/2023



Contamination SE Corner (outside)



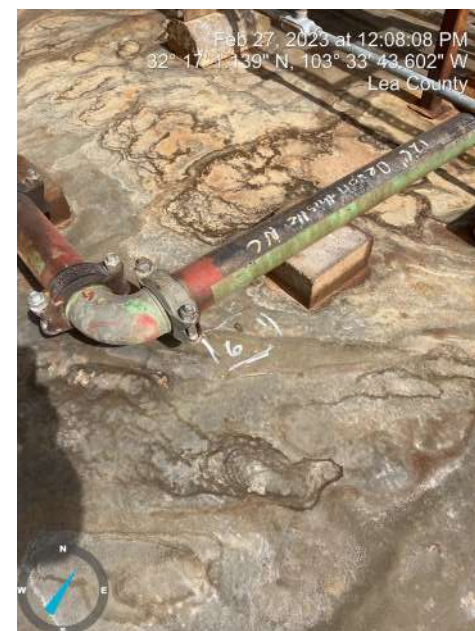
Liner Hole #1



Liner Holes #1-4



Liner Hole #5



Liner Hole #6



Liner Hole #7-8

Devon, Thistle North Central Tank Battery

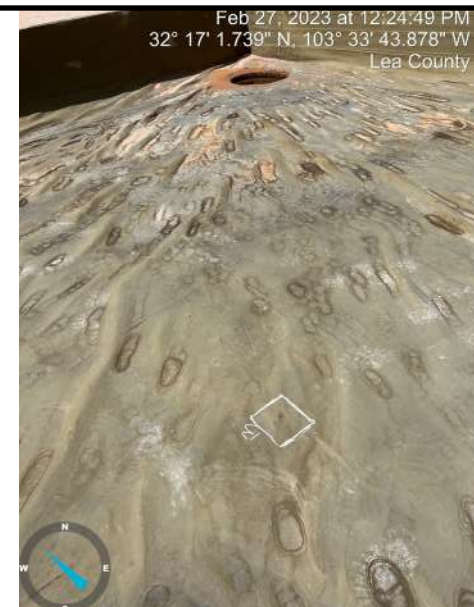
DEV-20-005 Liner Inspection 02/27/2023



Liner Hole #9



Liner Holes #10-12



Liner Hole #13



Liner Hole #14



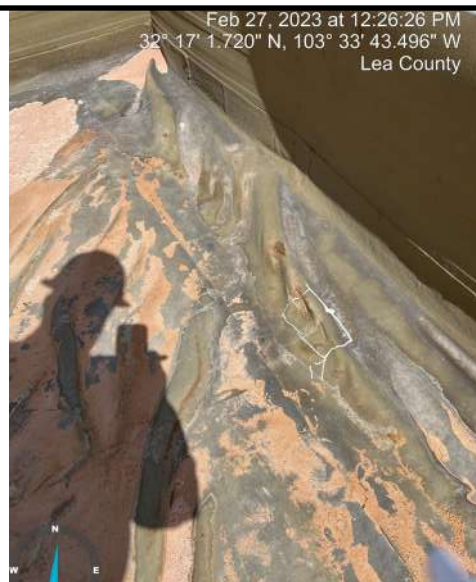
Liner Hole #15



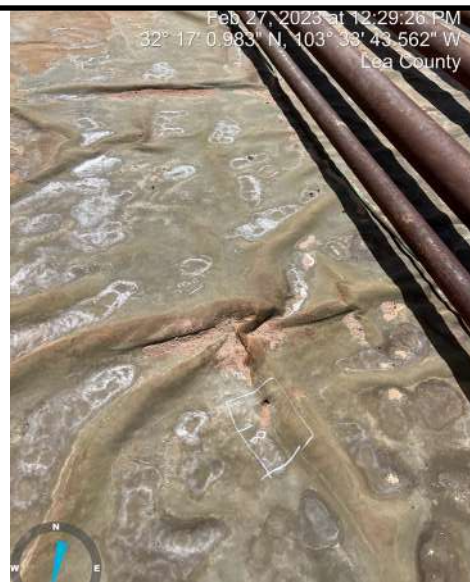
Liner Hole #16

Devon, Thistle North Central Tank Battery

DEV-20-005 Liner Inspection 02/27/2023



Liner Hole #17



Liner Hole #18

Devon – Thistle North Central Tank Battery DEV-23-001



Liner patch: 1



Liner patch: 2



Liner patch: 3



Liner patch: 4



Liner patch: 5



Liner patch: 6

Devon – Thistle North Central Tank Battery DEV-23-001



Liner patch: 7



Liner patch: 8



Liner patch: 9



Liner patch: 10



Liner patch: 11

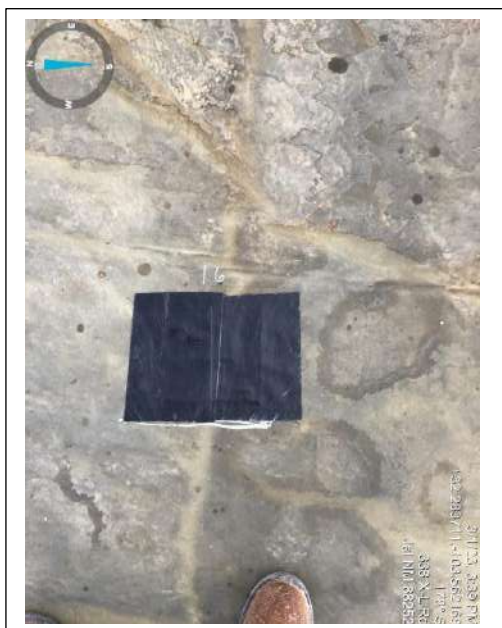


Liner patch: 12

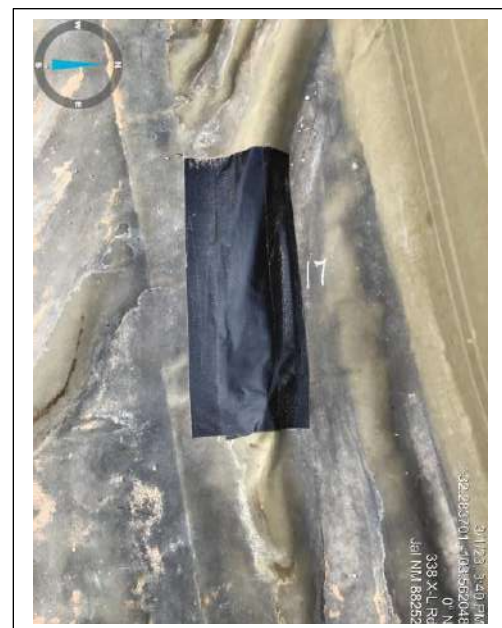
Devon – Thistle North Central Tank Battery
DEV-23-001



Liner patch: 15



Liner patch: 16



Liner patch: 17



Liner patch: 18



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

March 13, 2023

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX (575) 393-4388

RE: N Thistle CTB

OrderNo.: 2303211

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 23 sample(s) on 3/4/2023 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 13 Surface

Project: N Thistle CTB

Collection Date: 3/1/2023 10:00:00 AM

Lab ID: 2303211-001

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	360	59		mg/Kg	20	3/10/2023 3:24:15 AM	73629
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	3/8/2023 12:57:31 AM	73532
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/8/2023 12:57:31 AM	73532
Surr: DNOP	96.6	69-147		%Rec	1	3/8/2023 12:57:31 AM	73532
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/7/2023 5:53:46 PM	73516
Surr: BFB	102	37.7-212		%Rec	1	3/7/2023 5:53:46 PM	73516
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/7/2023 5:53:46 PM	73516
Toluene	ND	0.046		mg/Kg	1	3/7/2023 5:53:46 PM	73516
Ethylbenzene	ND	0.046		mg/Kg	1	3/7/2023 5:53:46 PM	73516
Xylenes, Total	ND	0.092		mg/Kg	1	3/7/2023 5:53:46 PM	73516
Surr: 4-Bromofluorobenzene	89.5	70-130		%Rec	1	3/7/2023 5:53:46 PM	73516

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 10 Surface

Project: N Thistle CTB

Collection Date: 3/1/2023 10:30:00 AM

Lab ID: 2303211-002

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	3/10/2023 4:01:29 AM	73629
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/8/2023 1:07:54 AM	73532
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/8/2023 1:07:54 AM	73532
Surr: DNOP	99.9	69-147		%Rec	1	3/8/2023 1:07:54 AM	73532
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/7/2023 6:17:33 PM	73516
Surr: BFB	102	37.7-212		%Rec	1	3/7/2023 6:17:33 PM	73516
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/7/2023 6:17:33 PM	73516
Toluene	ND	0.050		mg/Kg	1	3/7/2023 6:17:33 PM	73516
Ethylbenzene	ND	0.050		mg/Kg	1	3/7/2023 6:17:33 PM	73516
Xylenes, Total	ND	0.10		mg/Kg	1	3/7/2023 6:17:33 PM	73516
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	3/7/2023 6:17:33 PM	73516

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 11 Surface

Project: N Thistle CTB

Collection Date: 3/1/2023 11:00:00 AM

Lab ID: 2303211-003

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	3/10/2023 4:13:53 AM	73629
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/8/2023 1:18:17 AM	73532
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/8/2023 1:18:17 AM	73532
Surr: DNOP	99.2	69-147		%Rec	1	3/8/2023 1:18:17 AM	73532
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/7/2023 6:41:18 PM	73516
Surr: BFB	102	37.7-212		%Rec	1	3/7/2023 6:41:18 PM	73516
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/7/2023 6:41:18 PM	73516
Toluene	ND	0.048		mg/Kg	1	3/7/2023 6:41:18 PM	73516
Ethylbenzene	ND	0.048		mg/Kg	1	3/7/2023 6:41:18 PM	73516
Xylenes, Total	ND	0.096		mg/Kg	1	3/7/2023 6:41:18 PM	73516
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	3/7/2023 6:41:18 PM	73516

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 12 Surface

Project: N Thistle CTB

Collection Date: 3/1/2023 11:42:00 AM

Lab ID: 2303211-004

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	3/10/2023 4:26:18 AM	73629
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/8/2023 1:28:42 AM	73532
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/8/2023 1:28:42 AM	73532
Surr: DNOP	102	69-147		%Rec	1	3/8/2023 1:28:42 AM	73532
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/7/2023 7:05:05 PM	73516
Surr: BFB	104	37.7-212		%Rec	1	3/7/2023 7:05:05 PM	73516
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/7/2023 7:05:05 PM	73516
Toluene	ND	0.047		mg/Kg	1	3/7/2023 7:05:05 PM	73516
Ethylbenzene	ND	0.047		mg/Kg	1	3/7/2023 7:05:05 PM	73516
Xylenes, Total	ND	0.094		mg/Kg	1	3/7/2023 7:05:05 PM	73516
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	3/7/2023 7:05:05 PM	73516

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 14 Surface

Project: N Thistle CTB

Collection Date: 3/1/2023 12:15:00 PM

Lab ID: 2303211-005

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	67	60		mg/Kg	20	3/10/2023 4:38:43 AM	73629
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/8/2023 1:39:07 AM	73532
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/8/2023 1:39:07 AM	73532
Surr: DNOP	102	69-147		%Rec	1	3/8/2023 1:39:07 AM	73532
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/7/2023 7:28:49 PM	73516
Surr: BFB	103	37.7-212		%Rec	1	3/7/2023 7:28:49 PM	73516
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/7/2023 7:28:49 PM	73516
Toluene	ND	0.049		mg/Kg	1	3/7/2023 7:28:49 PM	73516
Ethylbenzene	ND	0.049		mg/Kg	1	3/7/2023 7:28:49 PM	73516
Xylenes, Total	ND	0.098		mg/Kg	1	3/7/2023 7:28:49 PM	73516
Surr: 4-Bromofluorobenzene	92.1	70-130		%Rec	1	3/7/2023 7:28:49 PM	73516

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 16 Surface

Project: N Thistle CTB

Collection Date: 3/1/2023 12:35:00 PM

Lab ID: 2303211-006

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	3/10/2023 4:51:08 AM	73629
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	3/8/2023 1:59:52 AM	73535
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/8/2023 1:59:52 AM	73535
Surr: DNOP	106	69-147		%Rec	1	3/8/2023 1:59:52 AM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/7/2023 11:25:43 PM	73526
Surr: BFB	105	37.7-212		%Rec	1	3/7/2023 11:25:43 PM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/7/2023 11:25:43 PM	73526
Toluene	ND	0.046		mg/Kg	1	3/7/2023 11:25:43 PM	73526
Ethylbenzene	ND	0.046		mg/Kg	1	3/7/2023 11:25:43 PM	73526
Xylenes, Total	ND	0.092		mg/Kg	1	3/7/2023 11:25:43 PM	73526
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	3/7/2023 11:25:43 PM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 17 Surface

Project: N Thistle CTB

Collection Date: 3/1/2023 1:00:00 PM

Lab ID: 2303211-007

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	260	60		mg/Kg	20	3/10/2023 11:52:06 AM	73640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	3/8/2023 2:31:13 AM	73535
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/8/2023 2:31:13 AM	73535
Surr: DNOP	92.6	69-147		%Rec	1	3/8/2023 2:31:13 AM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/8/2023 12:36:31 AM	73526
Surr: BFB	105	37.7-212		%Rec	1	3/8/2023 12:36:31 AM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/8/2023 12:36:31 AM	73526
Toluene	ND	0.050		mg/Kg	1	3/8/2023 12:36:31 AM	73526
Ethylbenzene	ND	0.050		mg/Kg	1	3/8/2023 12:36:31 AM	73526
Xylenes, Total	ND	0.10		mg/Kg	1	3/8/2023 12:36:31 AM	73526
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	1	3/8/2023 12:36:31 AM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 7 Surface

Project: N Thistle CTB

Collection Date: 3/1/2023 1:25:00 PM

Lab ID: 2303211-008

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	3/10/2023 12:04:29 PM	73640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	91	8.9		mg/Kg	1	3/8/2023 11:39:41 AM	73535
Motor Oil Range Organics (MRO)	190	45		mg/Kg	1	3/8/2023 11:39:41 AM	73535
Surr: DNOP	101	69-147		%Rec	1	3/8/2023 11:39:41 AM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/8/2023 1:47:31 AM	73526
Surr: BFB	104	37.7-212		%Rec	1	3/8/2023 1:47:31 AM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/8/2023 1:47:31 AM	73526
Toluene	ND	0.048		mg/Kg	1	3/8/2023 1:47:31 AM	73526
Ethylbenzene	ND	0.048		mg/Kg	1	3/8/2023 1:47:31 AM	73526
Xylenes, Total	ND	0.096		mg/Kg	1	3/8/2023 1:47:31 AM	73526
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	3/8/2023 1:47:31 AM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 8 Surface

Project: N Thistle CTB

Collection Date: 3/1/2023 2:00:00 PM

Lab ID: 2303211-009

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	310	60		mg/Kg	20	3/10/2023 12:16:52 PM	73640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/8/2023 2:41:42 AM	73535
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/8/2023 2:41:42 AM	73535
Surr: DNOP	101	69-147		%Rec	1	3/8/2023 2:41:42 AM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/8/2023 2:11:18 AM	73526
Surr: BFB	105	37.7-212		%Rec	1	3/8/2023 2:11:18 AM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/8/2023 2:11:18 AM	73526
Toluene	ND	0.047		mg/Kg	1	3/8/2023 2:11:18 AM	73526
Ethylbenzene	ND	0.047		mg/Kg	1	3/8/2023 2:11:18 AM	73526
Xylenes, Total	ND	0.094		mg/Kg	1	3/8/2023 2:11:18 AM	73526
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	3/8/2023 2:11:18 AM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 9 Surface

Project: N Thistle CTB

Collection Date: 3/1/2023 2:25:00 PM

Lab ID: 2303211-010

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	3/10/2023 12:29:16 PM	73640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	150	8.8		mg/Kg	1	3/8/2023 12:00:56 PM	73535
Motor Oil Range Organics (MRO)	310	44		mg/Kg	1	3/8/2023 12:00:56 PM	73535
Surr: DNOP	96.9	69-147		%Rec	1	3/8/2023 12:00:56 PM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/8/2023 2:35:01 AM	73526
Surr: BFB	102	37.7-212		%Rec	1	3/8/2023 2:35:01 AM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/8/2023 2:35:01 AM	73526
Toluene	ND	0.048		mg/Kg	1	3/8/2023 2:35:01 AM	73526
Ethylbenzene	ND	0.048		mg/Kg	1	3/8/2023 2:35:01 AM	73526
Xylenes, Total	ND	0.096		mg/Kg	1	3/8/2023 2:35:01 AM	73526
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	3/8/2023 2:35:01 AM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 18 Surface

Project: N Thistle CTB

Collection Date: 3/2/2023 8:30:00 AM

Lab ID: 2303211-011

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	650	60		mg/Kg	20	3/10/2023 1:31:12 PM	73640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/8/2023 12:22:16 PM	73535
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/8/2023 12:22:16 PM	73535
Surr: DNOP	100	69-147		%Rec	1	3/8/2023 12:22:16 PM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/8/2023 2:58:42 AM	73526
Surr: BFB	105	37.7-212		%Rec	1	3/8/2023 2:58:42 AM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/8/2023 2:58:42 AM	73526
Toluene	ND	0.046		mg/Kg	1	3/8/2023 2:58:42 AM	73526
Ethylbenzene	ND	0.046		mg/Kg	1	3/8/2023 2:58:42 AM	73526
Xylenes, Total	ND	0.092		mg/Kg	1	3/8/2023 2:58:42 AM	73526
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	3/8/2023 2:58:42 AM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 1 Surface

Project: N Thistle CTB

Collection Date: 3/2/2023 9:15:00 AM

Lab ID: 2303211-012

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	61		mg/Kg	20	3/10/2023 1:43:35 PM	73640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/8/2023 2:52:11 AM	73535
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/8/2023 2:52:11 AM	73535
Surr: DNOP	95.6	69-147		%Rec	1	3/8/2023 2:52:11 AM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/8/2023 3:22:22 AM	73526
Surr: BFB	105	37.7-212		%Rec	1	3/8/2023 3:22:22 AM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/8/2023 3:22:22 AM	73526
Toluene	ND	0.047		mg/Kg	1	3/8/2023 3:22:22 AM	73526
Ethylbenzene	ND	0.047		mg/Kg	1	3/8/2023 3:22:22 AM	73526
Xylenes, Total	ND	0.094		mg/Kg	1	3/8/2023 3:22:22 AM	73526
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	3/8/2023 3:22:22 AM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 2 Surface

Project: N Thistle CTB

Collection Date: 3/2/2023 9:30:00 AM

Lab ID: 2303211-013

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	3/10/2023 1:55:57 PM	73640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	3/8/2023 3:02:41 AM	73535
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	3/8/2023 3:02:41 AM	73535
Surr: DNOP	95.5	69-147		%Rec	1	3/8/2023 3:02:41 AM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/8/2023 3:46:04 AM	73526
Surr: BFB	103	37.7-212		%Rec	1	3/8/2023 3:46:04 AM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/8/2023 3:46:04 AM	73526
Toluene	ND	0.048		mg/Kg	1	3/8/2023 3:46:04 AM	73526
Ethylbenzene	ND	0.048		mg/Kg	1	3/8/2023 3:46:04 AM	73526
Xylenes, Total	ND	0.096		mg/Kg	1	3/8/2023 3:46:04 AM	73526
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	3/8/2023 3:46:04 AM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 3 Surface

Project: N Thistle CTB

Collection Date: 3/2/2023 9:55:00 AM

Lab ID: 2303211-014

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	240	60		mg/Kg	20	3/10/2023 2:08:21 PM	73640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/8/2023 3:13:21 AM	73535
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/8/2023 3:13:21 AM	73535
Surr: DNOP	95.0	69-147		%Rec	1	3/8/2023 3:13:21 AM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/8/2023 4:09:45 AM	73526
Surr: BFB	106	37.7-212		%Rec	1	3/8/2023 4:09:45 AM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/8/2023 4:09:45 AM	73526
Toluene	ND	0.049		mg/Kg	1	3/8/2023 4:09:45 AM	73526
Ethylbenzene	ND	0.049		mg/Kg	1	3/8/2023 4:09:45 AM	73526
Xylenes, Total	ND	0.099		mg/Kg	1	3/8/2023 4:09:45 AM	73526
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	3/8/2023 4:09:45 AM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 4 Surface

Project: N Thistle CTB

Collection Date: 3/2/2023 10:35:00 AM

Lab ID: 2303211-015

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	420	60		mg/Kg	20	3/10/2023 2:20:44 PM	73640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/8/2023 3:24:00 AM	73535
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/8/2023 3:24:00 AM	73535
Surr: DNOP	96.1	69-147		%Rec	1	3/8/2023 3:24:00 AM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/8/2023 4:33:23 AM	73526
Surr: BFB	104	37.7-212		%Rec	1	3/8/2023 4:33:23 AM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/8/2023 4:33:23 AM	73526
Toluene	ND	0.048		mg/Kg	1	3/8/2023 4:33:23 AM	73526
Ethylbenzene	ND	0.048		mg/Kg	1	3/8/2023 4:33:23 AM	73526
Xylenes, Total	ND	0.097		mg/Kg	1	3/8/2023 4:33:23 AM	73526
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	3/8/2023 4:33:23 AM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 5 Surface

Project: N Thistle CTB

Collection Date: 3/2/2023 10:55:00 AM

Lab ID: 2303211-016

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1700	60		mg/Kg	20	3/10/2023 2:33:06 PM	73640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	3/8/2023 3:44:53 AM	73535
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/8/2023 3:44:53 AM	73535
Surr: DNOP	97.2	69-147		%Rec	1	3/8/2023 3:44:53 AM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/8/2023 5:20:37 AM	73526
Surr: BFB	104	37.7-212		%Rec	1	3/8/2023 5:20:37 AM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/8/2023 5:20:37 AM	73526
Toluene	ND	0.049		mg/Kg	1	3/8/2023 5:20:37 AM	73526
Ethylbenzene	ND	0.049		mg/Kg	1	3/8/2023 5:20:37 AM	73526
Xylenes, Total	ND	0.098		mg/Kg	1	3/8/2023 5:20:37 AM	73526
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	3/8/2023 5:20:37 AM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 5 1ft

Project: N Thistle CTB

Collection Date: 3/2/2023 11:15:00 AM

Lab ID: 2303211-017

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	86	60		mg/Kg	20	3/10/2023 2:45:30 PM	73640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/8/2023 3:55:29 AM	73535
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/8/2023 3:55:29 AM	73535
Surr: DNOP	101	69-147		%Rec	1	3/8/2023 3:55:29 AM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/8/2023 5:44:14 AM	73526
Surr: BFB	104	37.7-212		%Rec	1	3/8/2023 5:44:14 AM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/8/2023 5:44:14 AM	73526
Toluene	ND	0.050		mg/Kg	1	3/8/2023 5:44:14 AM	73526
Ethylbenzene	ND	0.050		mg/Kg	1	3/8/2023 5:44:14 AM	73526
Xylenes, Total	ND	0.10		mg/Kg	1	3/8/2023 5:44:14 AM	73526
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	3/8/2023 5:44:14 AM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 6 Surface

Project: N Thistle CTB

Collection Date: 3/2/2023 11:35:00 AM

Lab ID: 2303211-018

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	290	60		mg/Kg	20	3/10/2023 2:57:53 PM	73640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	3/8/2023 4:06:05 AM	73535
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/8/2023 4:06:05 AM	73535
Surr: DNOP	99.5	69-147		%Rec	1	3/8/2023 4:06:05 AM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/8/2023 6:07:47 AM	73526
Surr: BFB	103	37.7-212		%Rec	1	3/8/2023 6:07:47 AM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/8/2023 6:07:47 AM	73526
Toluene	ND	0.048		mg/Kg	1	3/8/2023 6:07:47 AM	73526
Ethylbenzene	ND	0.048		mg/Kg	1	3/8/2023 6:07:47 AM	73526
Xylenes, Total	ND	0.095		mg/Kg	1	3/8/2023 6:07:47 AM	73526
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	3/8/2023 6:07:47 AM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 6 1ft

Project: N Thistle CTB

Collection Date: 3/2/2023 12:05:00 PM

Lab ID: 2303211-019

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	3/10/2023 3:10:16 PM	73640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/8/2023 4:16:41 AM	73535
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/8/2023 4:16:41 AM	73535
Surr: DNOP	96.7	69-147		%Rec	1	3/8/2023 4:16:41 AM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/8/2023 6:31:25 AM	73526
Surr: BFB	105	37.7-212		%Rec	1	3/8/2023 6:31:25 AM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/8/2023 6:31:25 AM	73526
Toluene	ND	0.050		mg/Kg	1	3/8/2023 6:31:25 AM	73526
Ethylbenzene	ND	0.050		mg/Kg	1	3/8/2023 6:31:25 AM	73526
Xylenes, Total	ND	0.10		mg/Kg	1	3/8/2023 6:31:25 AM	73526
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	3/8/2023 6:31:25 AM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 15 Surface

Project: N Thistle CTB

Collection Date: 3/2/2023 12:20:00 PM

Lab ID: 2303211-020

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	93	60		mg/Kg	20	3/10/2023 4:12:12 PM	73640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	690	8.5		mg/Kg	1	3/8/2023 4:27:15 AM	73535
Motor Oil Range Organics (MRO)	260	42		mg/Kg	1	3/8/2023 4:27:15 AM	73535
Surr: DNOP	110	69-147		%Rec	1	3/8/2023 4:27:15 AM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/8/2023 1:05:12 PM	73526
Surr: BFB	143	37.7-212		%Rec	1	3/8/2023 1:05:12 PM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/8/2023 1:05:12 PM	73526
Toluene	ND	0.047		mg/Kg	1	3/8/2023 1:05:12 PM	73526
Ethylbenzene	ND	0.047		mg/Kg	1	3/8/2023 1:05:12 PM	73526
Xylenes, Total	ND	0.093		mg/Kg	1	3/8/2023 1:05:12 PM	73526
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	3/8/2023 1:05:12 PM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 18 1ft

Project: N Thistle CTB

Collection Date: 3/2/2023 1:20:00 PM

Lab ID: 2303211-021

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1600	60		mg/Kg	20	3/10/2023 4:24:35 PM	73640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/8/2023 4:37:49 AM	73535
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/8/2023 4:37:49 AM	73535
Surr: DNOP	103	69-147		%Rec	1	3/8/2023 4:37:49 AM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/8/2023 7:18:24 AM	73526
Surr: BFB	103	37.7-212		%Rec	1	3/8/2023 7:18:24 AM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/8/2023 7:18:24 AM	73526
Toluene	ND	0.049		mg/Kg	1	3/8/2023 7:18:24 AM	73526
Ethylbenzene	ND	0.049		mg/Kg	1	3/8/2023 7:18:24 AM	73526
Xylenes, Total	ND	0.098		mg/Kg	1	3/8/2023 7:18:24 AM	73526
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	3/8/2023 7:18:24 AM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 18 2ft

Project: N Thistle CTB

Collection Date: 3/2/2023 2:30:00 PM

Lab ID: 2303211-022

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	340	60		mg/Kg	20	3/10/2023 4:36:58 PM	73640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/8/2023 4:48:22 AM	73535
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/8/2023 4:48:22 AM	73535
Surr: DNOP	104	69-147		%Rec	1	3/8/2023 4:48:22 AM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/8/2023 7:41:57 AM	73526
Surr: BFB	100	37.7-212		%Rec	1	3/8/2023 7:41:57 AM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/8/2023 7:41:57 AM	73526
Toluene	ND	0.047		mg/Kg	1	3/8/2023 7:41:57 AM	73526
Ethylbenzene	ND	0.047		mg/Kg	1	3/8/2023 7:41:57 AM	73526
Xylenes, Total	ND	0.095		mg/Kg	1	3/8/2023 7:41:57 AM	73526
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	3/8/2023 7:41:57 AM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303211

Date Reported: 3/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: 4 1ft

Project: N Thistle CTB

Collection Date: 3/2/2023 3:00:00 PM

Lab ID: 2303211-023

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	3/10/2023 4:49:21 PM	73640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/8/2023 4:58:54 AM	73535
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/8/2023 4:58:54 AM	73535
Surr: DNOP	95.7	69-147		%Rec	1	3/8/2023 4:58:54 AM	73535
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/8/2023 8:05:31 AM	73526
Surr: BFB	102	37.7-212		%Rec	1	3/8/2023 8:05:31 AM	73526
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/8/2023 8:05:31 AM	73526
Toluene	ND	0.047		mg/Kg	1	3/8/2023 8:05:31 AM	73526
Ethylbenzene	ND	0.047		mg/Kg	1	3/8/2023 8:05:31 AM	73526
Xylenes, Total	ND	0.095		mg/Kg	1	3/8/2023 8:05:31 AM	73526
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	3/8/2023 8:05:31 AM	73526

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303211

13-Mar-23

Client: Safety & Environmental Solutions

Project: N Thistle CTB

Sample ID: LCS-73629		SampType: lcs			TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 73629			RunNo: 95145						
Prep Date: 3/9/2023		Analysis Date: 3/9/2023			SeqNo: 3441919		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				

Sample ID: MB-73640		SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 73640			RunNo: 95184						
Prep Date: 3/10/2023		Analysis Date: 3/10/2023			SeqNo: 3442397		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID: LCS-73640		SampType: LCS			TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 73640			RunNo: 95184						
Prep Date: 3/10/2023		Analysis Date: 3/10/2023			SeqNo: 3442398		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				

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 standard limits. If undiluted results may be estimated.
- B

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/Estimated Value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303211

13-Mar-23

Client: Safety & Environmental Solutions**Project:** N Thistle CTB

Sample ID: LCS-73535	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73535			RunNo: 95077						
Prep Date: 3/6/2023	Analysis Date: 3/7/2023			SeqNo: 3438280		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	83.0	61.9	130			
Surr: DNOP	4.4		5.000		87.2	69	147			

Sample ID: LCS-73532	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73532			RunNo: 95077						
Prep Date: 3/6/2023	Analysis Date: 3/7/2023			SeqNo: 3438281		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.2	61.9	130			
Surr: DNOP	4.4		5.000		87.7	69	147			

Sample ID: MB-73535	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73535			RunNo: 95077						
Prep Date: 3/6/2023	Analysis Date: 3/7/2023			SeqNo: 3438284		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	10		10.00		101	69	147			

Sample ID: MB-73532	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73532			RunNo: 95077						
Prep Date: 3/6/2023	Analysis Date: 3/7/2023			SeqNo: 3438285		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	8.9		10.00		89.2	69	147			

Sample ID: 2303211-006AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: 16 Surface	Batch ID: 73535			RunNo: 95077						
Prep Date: 3/6/2023	Analysis Date: 3/8/2023			SeqNo: 3439725		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.6	47.80	7.676	75.2	54.2	135			
Surr: DNOP	4.8		4.780		101	69	147			

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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2303211
13-Mar-23

Client: Safety & Environmental Solutions
Project: N Thistle CTB

Sample ID: 2303211-006AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: 16 Surface		Batch ID: 73535		RunNo: 95077						
Prep Date: 3/6/2023		Analysis Date: 3/8/2023		SeqNo: 3439726		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.6	47.85	7.676	79.8	54.2	135	4.97	29.2	
Surr: DNOP	5.0		4.785		105	69	147	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 standard limits. If undiluted results may be estimated.
- B

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/Estimated Value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303211

13-Mar-23

Client: Safety & Environmental Solutions**Project:** N Thistle CTB

Sample ID: lcs-73516	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 73516			RunNo: 95061						
Prep Date: 3/6/2023	Analysis Date: 3/7/2023			SeqNo: 3437813			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.4	70	130			
Surr: BFB	2000		1000		201	37.7	212			

Sample ID: mb-73516	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 73516			RunNo: 95061						
Prep Date: 3/6/2023	Analysis Date: 3/7/2023			SeqNo: 3437924			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	37.7	212			

Sample ID: lcs-73526	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 73526			RunNo: 95061						
Prep Date: 3/6/2023	Analysis Date: 3/7/2023			SeqNo: 3438949			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.2	70	130			
Surr: BFB	2000		1000		202	37.7	212			

Sample ID: mb-73526	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 73526			RunNo: 95061						
Prep Date: 3/6/2023	Analysis Date: 3/7/2023			SeqNo: 3438950			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		105	37.7	212			

Sample ID: 2303211-006ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: 16 Surface	Batch ID: 73526			RunNo: 95061						
Prep Date: 3/6/2023	Analysis Date: 3/7/2023			SeqNo: 3438954			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.6	23.11	0	99.2	70	130			
Surr: BFB	1900		924.2		203	37.7	212			

Sample ID: 2303211-006amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: 16 Surface	Batch ID: 73526			RunNo: 95061						
Prep Date: 3/6/2023	Analysis Date: 3/8/2023			SeqNo: 3438955			Units: mg/Kg			
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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303211

13-Mar-23

Client: Safety & Environmental Solutions

Project: N Thistle CTB

Sample ID: 2303211-006amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: 16 Surface		Batch ID: 73526			RunNo: 95061					
Prep Date: 3/6/2023		Analysis Date: 3/8/2023			SeqNo: 3438955		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.6	23.08	0	99.4	70	130	0.109	20	
Surr: BFB	1900		923.4		206	37.7	212	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303211

13-Mar-23

Client: Safety & Environmental Solutions**Project:** N Thistle CTB

Sample ID: LCS-73516	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 73516	RunNo: 95061								
Prep Date: 3/6/2023	Analysis Date: 3/7/2023	SeqNo: 3437904 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.2	80	120			
Toluene	0.86	0.050	1.000	0	85.7	80	120			
Ethylbenzene	0.85	0.050	1.000	0	85.4	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.0	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.6	70	130			

Sample ID: mb-73516	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 73516	RunNo: 95061								
Prep Date: 3/6/2023	Analysis Date: 3/7/2023	SeqNo: 3437925 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	0.90		1.000		90.0	70	130			

Sample ID: LCS-73526	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 73526	RunNo: 95061								
Prep Date: 3/6/2023	Analysis Date: 3/7/2023	SeqNo: 3438951 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	86.7	80	120			
Toluene	0.89	0.050	1.000	0	88.7	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.8	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	70	130			

Sample ID: mb-73526	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 73526	RunNo: 95061								
Prep Date: 3/6/2023	Analysis Date: 3/7/2023	SeqNo: 3438952 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	0.94		1.000		93.8	70	130			

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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303211

13-Mar-23

Client: Safety & Environmental Solutions**Project:** N Thistle CTB

Sample ID: 2303211-007ams		SampType: MS		TestCode: EPA Method 8021B: Volatiles						
Client ID: 17 Surface		Batch ID: 73526		RunNo: 95061						
Prep Date: 3/6/2023		Analysis Date: 3/8/2023		SeqNo: 3438976		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	0.9950	0	86.1	68.8	120			
Toluene	0.88	0.050	0.9950	0.01775	86.3	73.6	124			
Ethylbenzene	0.87	0.050	0.9950	0	87.0	72.7	129			
Xylenes, Total	2.6	0.10	2.985	0	88.2	75.7	126			
Surr: 4-Bromofluorobenzene	0.95		0.9950		95.3	70	130			

Sample ID: 2303211-007amsd		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: 17 Surface		Batch ID: 73526		RunNo: 95061						
Prep Date: 3/6/2023		Analysis Date: 3/8/2023		SeqNo: 3438977		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.5	68.8	120	2.11	20	
Toluene	0.90	0.050	1.000	0.01775	88.0	73.6	124	2.43	20	
Ethylbenzene	0.89	0.050	1.000	0	88.9	72.7	129	2.58	20	
Xylenes, Total	2.7	0.10	3.000	0	89.8	75.7	126	2.34	20	
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	70	130	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
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: Safety & Environmental Solutions

Work Order Number: 2303211

RcptNo: 1

Received By: Tracy Casarrubias 3/4/2023 9:30:00 AM

Completed By: Tracy Casarrubias 3/4/2023 10:23:47 AM

Reviewed By: *JA 3/6/23*

Chain of Custody

1. Is Chain of Custody 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 $>0^{\circ}\text{C}$ 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?
(Note discrepancies on chain of custody) Yes ☒ No ☐
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?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *Tme 3/4/23*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Yes	Morty		

Chain-of-Custody Record

Client: Safety & Environmental SolutionsMailing Address: 703 ClintonHobbs NM 88246Phone #: (575) 387 0510

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush 5 DAY

Project Name:

N Twistle CTB

Project #:

DEV-23-001Project Manager: Bob AllenSampler: Roberto MartinezOn Ice: ☒ Yes ☐ No mostly# of Coolers: 1Cooler Temp (including CFI): 2.4 +0.2-2.6 (°C)

Container Type and #

Preservative Type

HEAL No.

1/02 Jar

Ice

001

4/02 Jar

Ice

002

4/02 Jar

Ice

003

4/02 Jar

Ice

004

4/02 Jar

Ice

005

4/02 Jar

Ice

006

4/02 Jar

Ice

007

4/02 Jar

Ice

008

4/02 Jar

Ice

009

4/02 Jar

Ice

010

Received by: Roberto Martinez Date: 3/12/23 Time: 1900Received by: Roberto Martinez Date: 3/12/23 Time: 1900Received by: Roberto Martinez Date: 3/12/23 Time: 1900Received by: Roberto Martinez Date: 3/12/23 Time: 1900Received by: Roberto Martinez Date: 3/12/23 Time: 1900Received by: Roberto Martinez Date: 3/12/23 Time: 1900Received by: Roberto Martinez Date: 3/12/23 Time: 1900

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

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 ☒

Cl⁻, Br⁻, NO₃⁻, NO₂⁻, PO₄³⁻, SO₄²⁻ ☒

8260 (VOA) ☒

8270 (Semi-VOA) ☒

Total Coliform (Present/Absent) ☒

Remarks:



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

April 03, 2023

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX (575) 393-4388

RE: Devon Thistle North CTB

OrderNo.: 2303C35

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/24/2023 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2303C35

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: #7-1ft

Project: Devon Thistle North CTB

Collection Date: 3/22/2023 2:09:00 PM

Lab ID: 2303C35-001

Matrix: SOIL

Received Date: 3/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	61		mg/Kg	20	3/30/2023 9:16:02 AM	74020
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/30/2023 9:44:46 PM	74034
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/30/2023 9:44:46 PM	74034
Surr: DNOP	99.4	69-147		%Rec	1	3/30/2023 9:44:46 PM	74034
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/30/2023 10:40:00 AM	73993
Surr: BFB	87.7	37.7-212		%Rec	1	3/30/2023 10:40:00 AM	73993
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/30/2023 10:40:00 AM	73993
Toluene	ND	0.048		mg/Kg	1	3/30/2023 10:40:00 AM	73993
Ethylbenzene	ND	0.048		mg/Kg	1	3/30/2023 10:40:00 AM	73993
Xylenes, Total	ND	0.097		mg/Kg	1	3/30/2023 10:40:00 AM	73993
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	3/30/2023 10:40:00 AM	73993

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2303C35

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: #9-1ft

Project: Devon Thistle North CTB

Collection Date: 3/22/2023 2:31:00 PM

Lab ID: 2303C35-002

Matrix: SOIL

Received Date: 3/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	3/30/2023 9:28:27 AM	74020
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	19	9.8		mg/Kg	1	3/30/2023 10:16:40 PM	74034
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/30/2023 10:16:40 PM	74034
Surr: DNOP	97.4	69-147		%Rec	1	3/30/2023 10:16:40 PM	74034
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2023 11:45:00 AM	73993
Surr: BFB	89.1	37.7-212		%Rec	1	3/30/2023 11:45:00 AM	73993
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/30/2023 11:45:00 AM	73993
Toluene	ND	0.049		mg/Kg	1	3/30/2023 11:45:00 AM	73993
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2023 11:45:00 AM	73993
Xylenes, Total	ND	0.099		mg/Kg	1	3/30/2023 11:45:00 AM	73993
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	3/30/2023 11:45:00 AM	73993

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2303C35

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: #9-2ft

Project: Devon Thistle North CTB

Collection Date: 3/22/2023 3:01:00 PM

Lab ID: 2303C35-003

Matrix: SOIL

Received Date: 3/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	3/30/2023 9:40:51 AM	74020
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/30/2023 10:37:41 PM	74034
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/30/2023 10:37:41 PM	74034
Surr: DNOP	99.6	69-147		%Rec	1	3/30/2023 10:37:41 PM	74034
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/30/2023 12:50:00 PM	73993
Surr: BFB	87.3	37.7-212		%Rec	1	3/30/2023 12:50:00 PM	73993
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	3/30/2023 12:50:00 PM	73993
Toluene	ND	0.047		mg/Kg	1	3/30/2023 12:50:00 PM	73993
Ethylbenzene	ND	0.047		mg/Kg	1	3/30/2023 12:50:00 PM	73993
Xylenes, Total	ND	0.093		mg/Kg	1	3/30/2023 12:50:00 PM	73993
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	3/30/2023 12:50:00 PM	73993

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Page 3 of 8

Analytical Report

Lab Order 2303C35

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: #15-1ft

Project: Devon Thistle North CTB

Collection Date: 3/22/2023 2:48:00 PM

Lab ID: 2303C35-004

Matrix: SOIL

Received Date: 3/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	2200	150		mg/Kg	50	3/31/2023 7:48:40 AM	74020
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/30/2023 10:48:16 PM	74034
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/30/2023 10:48:16 PM	74034
Surr: DNOP	101	69-147		%Rec	1	3/30/2023 10:48:16 PM	74034
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/30/2023 1:11:00 PM	73993
Surr: BFB	89.3	37.7-212		%Rec	1	3/30/2023 1:11:00 PM	73993
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/30/2023 1:11:00 PM	73993
Toluene	ND	0.048		mg/Kg	1	3/30/2023 1:11:00 PM	73993
Ethylbenzene	ND	0.048		mg/Kg	1	3/30/2023 1:11:00 PM	73993
Xylenes, Total	ND	0.095		mg/Kg	1	3/30/2023 1:11:00 PM	73993
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	1	3/30/2023 1:11:00 PM	73993

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2303C35
03-Apr-23

Client: Safety & Environmental Solutions
Project: Devon Thistle North CTB

Sample ID: MB-74020	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 74020	RunNo: 95700
Prep Date: 3/30/2023	Analysis Date: 3/30/2023	SeqNo: 3463677 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-74020	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 74020	RunNo: 95700
Prep Date: 3/30/2023	Analysis Date: 3/30/2023	SeqNo: 3463678 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 92.6 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 standard limits. If undiluted results may be estimated.

B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303C35

03-Apr-23

Client: Safety & Environmental Solutions**Project:** Devon Thistle North CTB

Sample ID: MB-74034	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 74034	RunNo: 95677								
Prep Date: 3/30/2023	Analysis Date: 3/30/2023	SeqNo: 3463183			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		96.5	69	147			

Sample ID: LCS-74034	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 74034	RunNo: 95677								
Prep Date: 3/30/2023	Analysis Date: 3/30/2023	SeqNo: 3463186			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	81.1	61.9	130			
Surr: DNOP	4.9		5.000		97.7	69	147			

Sample ID: 2303C35-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: #7-1ft	Batch ID: 74034	RunNo: 95677								
Prep Date: 3/30/2023	Analysis Date: 3/30/2023	SeqNo: 3463204			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.5	47.57	0	88.8	54.2	135			
Surr: DNOP	5.0		4.757		106	69	147			

Sample ID: 2303C35-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: #7-1ft	Batch ID: 74034	RunNo: 95677								
Prep Date: 3/30/2023	Analysis Date: 3/30/2023	SeqNo: 3463205			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.9	49.50	0	92.0	54.2	135	7.53	29.2	
Surr: DNOP	5.2		4.950		105	69	147	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303C35

03-Apr-23

Client: Safety & Environmental Solutions**Project:** Devon Thistle North CTB

Sample ID: lcs-73993	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 73993				RunNo: 95676					
Prep Date: 3/28/2023	Analysis Date: 3/30/2023				SeqNo: 3462547	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.5	70	130			
Surr: BFB	2000		1000		205	37.7	212			

Sample ID: mb-73993	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 73993				RunNo: 95676					
Prep Date: 3/28/2023	Analysis Date: 3/30/2023				SeqNo: 3462548	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	880		1000		87.8	37.7	212			

Sample ID: 2303c35-001ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: #7-1ft	Batch ID: 73993				RunNo: 95676					
Prep Date: 3/28/2023	Analysis Date: 3/30/2023				SeqNo: 3462550	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	24.06	0	98.6	70	130			
Surr: BFB	2000		962.5		210	37.7	212			

Sample ID: 2303c35-001amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: #7-1ft	Batch ID: 73993				RunNo: 95676					
Prep Date: 3/28/2023	Analysis Date: 3/30/2023				SeqNo: 3462551	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	24.20	0	93.0	70	130	5.31	20	
Surr: BFB	2000		968.1		210	37.7	212	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 7 of 8

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303C35

03-Apr-23

Client: Safety & Environmental Solutions**Project:** Devon Thistle North CTB

Sample ID: lcs-73993	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 73993			RunNo: 95676						
Prep Date: 3/28/2023	Analysis Date: 3/30/2023			SeqNo: 3462553		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	94.3	80	120			
Toluene	0.94	0.050	1.000	0	94.0	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.4	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		89.6	70	130			

Sample ID: mb-73993	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 73993			RunNo: 95676						
Prep Date: 3/28/2023	Analysis Date: 3/30/2023			SeqNo: 3462554		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	0.86		1.000		86.4	70	130			

Sample ID: 2303C35-002AMS	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: #9-1ft	Batch ID: 73993			RunNo: 95676						
Prep Date: 3/28/2023	Analysis Date: 3/30/2023			SeqNo: 3462568		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	0.9901	0	89.5	68.8	120			
Toluene	0.89	0.050	0.9901	0	90.1	73.6	124			
Ethylbenzene	0.88	0.050	0.9901	0	88.7	72.7	129			
Xylenes, Total	2.6	0.099	2.970	0	87.9	75.7	126			
Surr: 4-Bromofluorobenzene	0.84		0.9901		84.6	70	130			

Sample ID: 2303C35-002AMSD	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: #9-1ft	Batch ID: 73993			RunNo: 95676						
Prep Date: 3/28/2023	Analysis Date: 3/30/2023			SeqNo: 3462569		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9862	0	90.8	68.8	120	0.978	20	
Toluene	0.90	0.049	0.9862	0	91.0	73.6	124	0.575	20	
Ethylbenzene	0.89	0.049	0.9862	0	89.8	72.7	129	0.829	20	
Xylenes, Total	2.6	0.099	2.959	0	88.9	75.7	126	0.747	20	
Surr: 4-Bromofluorobenzene	0.85		0.9862		85.9	70	130	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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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: Safety & Environmental Solutions

Work Order Number: 2303C35

RcptNo: 1

Received By: Tracy Casarrubias 3/24/2023 7:25:00 AM

Completed By: Tracy Casarrubias 3/24/2023 7:52:12 AM

Reviewed By: DAD 3/24/23

Chain of Custody

1. Is Chain of Custody 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: DAD 3-24-23

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	4.0	Good	Yes	Morty		

Chain-of-Custody Record

Client: Safety & Environmental

Solutions Inc

Mailing Address: 703 E Clinton

05288 Wm Webb

Phone #: (575) 397 0510

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

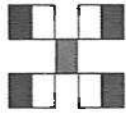
□ EDD (Type)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
3-22-03	1409	S	#7-1Ft	402 Jar	Ice	2303C35 001
3-22-03	1431	S	#9-1Ft	402 Jar	Ice	002
3-22-03	1501	S	#9-2Ft	402 Jar	Ice	003
3-22-03	1448	S	#15-1Ft	402 Jar	Ice	004

[illegible]

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3-22-23	1600	Robert Martinez	W. Martinez		3/23/23	1030
3/23/23	1900	AMU (signature)		Via: carrier		7:25

Released to Imaging: 8/1/2023 9:45:33 AM



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks:

Fill Devon



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

April 14, 2023

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX (575) 393-4388

RE: Devon Thistle North CTB

OrderNo.: 2304348

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/7/2023 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2304348

Date Reported: 4/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: Hole 15 2'

Project: Devon Thistle North CTB

Collection Date: 4/5/2023 9:48:00 AM

Lab ID: 2304348-001

Matrix: SOIL

Received Date: 4/7/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	4/12/2023 9:26:34 PM	74285
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	4/13/2023 4:04:26 PM	74270
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/13/2023 4:04:26 PM	74270
Surr: DNOP	94.7	69-147		%Rec	1	4/13/2023 4:04:26 PM	74270
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2023 6:45:00 PM	74262
Surr: BFB	88.2	37.7-212		%Rec	1	4/12/2023 6:45:00 PM	74262
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	4/12/2023 6:45:00 PM	74262
Toluene	ND	0.049		mg/Kg	1	4/12/2023 6:45:00 PM	74262
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2023 6:45:00 PM	74262
Xylenes, Total	ND	0.097		mg/Kg	1	4/12/2023 6:45:00 PM	74262
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	4/12/2023 6:45:00 PM	74262

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Page 1 of 7

Analytical Report

Lab Order 2304348

Date Reported: 4/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: Hole 15 3'

Project: Devon Thistle North CTB

Collection Date: 4/5/2023 12:38:00 PM

Lab ID: 2304348-002

Matrix: SOIL

Received Date: 4/7/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	4/12/2023 9:38:59 PM	74285
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	4/13/2023 4:27:01 PM	74270
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	4/13/2023 4:27:01 PM	74270
Surr: DNOP	100	69-147		%Rec	1	4/13/2023 4:27:01 PM	74270
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/12/2023 7:06:00 PM	74262
Surr: BFB	90.8	37.7-212		%Rec	1	4/12/2023 7:06:00 PM	74262
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	4/12/2023 7:06:00 PM	74262
Toluene	ND	0.047		mg/Kg	1	4/12/2023 7:06:00 PM	74262
Ethylbenzene	ND	0.047		mg/Kg	1	4/12/2023 7:06:00 PM	74262
Xylenes, Total	ND	0.094		mg/Kg	1	4/12/2023 7:06:00 PM	74262
Surr: 4-Bromofluorobenzene	85.3	70-130		%Rec	1	4/12/2023 7:06:00 PM	74262

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Page 2 of 7

Analytical Report

Lab Order 2304348

Date Reported: 4/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: Hole 15 4'

Project: Devon Thistle North CTB

Collection Date: 4/5/2023 12:52:00 PM

Lab ID: 2304348-003

Matrix: SOIL

Received Date: 4/7/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	81	60		mg/Kg	20	4/12/2023 10:16:13 PM	74285
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	130	9.9		mg/Kg	1	4/13/2023 4:37:41 PM	74270
Motor Oil Range Organics (MRO)	55	49		mg/Kg	1	4/13/2023 4:37:41 PM	74270
Surr: DNOP	95.9	69-147		%Rec	1	4/13/2023 4:37:41 PM	74270
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2023 7:28:00 PM	74262
Surr: BFB	86.8	37.7-212		%Rec	1	4/12/2023 7:28:00 PM	74262
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	4/12/2023 7:28:00 PM	74262
Toluene	ND	0.049		mg/Kg	1	4/12/2023 7:28:00 PM	74262
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2023 7:28:00 PM	74262
Xylenes, Total	ND	0.098		mg/Kg	1	4/12/2023 7:28:00 PM	74262
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	4/12/2023 7:28:00 PM	74262

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	Above Quantitation Range/Estimated Value
	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 standard limits. If undiluted results may be estimated.		

Page 3 of 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2304348

14-Apr-23

Client: Safety & Environmental Solutions

Project: Devon Thistle North CTB

Sample ID: MB-74285		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 74285		RunNo: 95984						
Prep Date: 4/12/2023		Analysis Date: 4/12/2023		SeqNo: 3475711		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-74285		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 74285		RunNo: 95984						
Prep Date: 4/12/2023		Analysis Date: 4/12/2023		SeqNo: 3475712		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	101	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 standard limits. If undiluted results may be estimated.
- B

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/Estimated Value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2304348

14-Apr-23

Client: Safety & Environmental Solutions**Project:** Devon Thistle North CTB

Sample ID: LCS-74270	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 74270			RunNo: 96013						
Prep Date: 4/12/2023	Analysis Date: 4/13/2023			SeqNo: 3476725		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.9	61.9	130			
Surr: DNOP	4.6		5.000		92.9	69	147			

Sample ID: MB-74270	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 74270			RunNo: 96013						
Prep Date: 4/12/2023	Analysis Date: 4/13/2023			SeqNo: 3476729		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	9.7		10.00		96.6	69	147			

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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 5 of 7

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2304348

14-Apr-23

Client: Safety & Environmental Solutions**Project:** Devon Thistle North CTB

Sample ID: lcs-74262	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 74262	RunNo: 95978								
Prep Date: 4/11/2023	Analysis Date: 4/12/2023	SeqNo: 3475392	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	89.8	70	130			
Surr: BFB	1900		1000		192	37.7	212			

Sample ID: mb-74262	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 74262	RunNo: 95978								
Prep Date: 4/11/2023	Analysis Date: 4/12/2023	SeqNo: 3475394	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	910		1000		90.6	37.7	212			

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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 6 of 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2304348

14-Apr-23

Client: Safety & Environmental Solutions

Project: Devon Thistle North CTB

Sample ID: Ics-74262	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 74262	RunNo: 95978								
Prep Date: 4/11/2023	Analysis Date: 4/12/2023	SeqNo: 3475411	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	90.0	80	120			
Toluene	0.90	0.050	1.000	0	89.5	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.0	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.4	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.5	70	130			

Sample ID: mb-74262	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 74262	RunNo: 95978								
Prep Date: 4/11/2023	Analysis Date: 4/12/2023	SeqNo: 3475412	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	0.86		1.000		86.5	70	130			

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 standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

Page 91 of 105
Received by OCD: 5/12/2023 3:05:53 PM
Released to Imaging: 8/1/2023 9:45:33 AM



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: Safety & Environmental Solutions

Work Order Number: 2304348

RcptNo: 1

Received By: Tracy Casarrubias 4/7/2023 7:30:00 AM

Completed By: Tracy Casarrubias 4/7/2023 8:34:00 AM

Reviewed By: m 4/7/23

Chain of Custody

1. Is Chain of Custody 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 $>0^{\circ}\text{C}$ 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?
(Note discrepancies on chain of custody) Yes ☒ No ☐
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?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: KLa 4.7.23

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: Missing Email on COC- TMC 4/7/23

16. Additional remarks:

17. Cooler Information

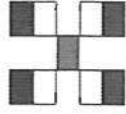
Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.4	Good	Yes	Yogi		

Chain-of-Custody Record

Client: S&T + Environmental
Solutions Inc.
 Mailing Address: 703 E. Clinton
Hobbs NM 88240
 Phone #: 575 397 0510
 email or Fax#: _____
 QA/QC Package: _____
☒ Standard ☐ Level 4 (Full Validation)
 Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other _____
☐ EDD (Type) _____

Date	Time	Matrix	Sample Name
4-5	09:48	S	Hole 15 2'
4-5	12:38	S	Hole 15 3'
4-5	12:52	S	Hole 15 4'
Date:	Time:	Relinquished by:	
4-5-23	16:01	Hayden Able	
Date:	Time:	Relinquished by:	
4/6/23	1100	John Boyer	

Turn-Around Time:	<input checked="" type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush	5 Day
Project Name:	Devon Thistle north CTB		
Project #:	DEV-23-001		
Project Manager:	Bob Allen		
Sampler:			
On Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	yes
# of Coolers:	1		

[illegible]

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks:

marks: Direct Bill Devon

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 176027

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 176027
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source <i>Please answer all the questions in this group.</i>	
Site Name	THISTLE NORTH CENTRAL CTB
Date Release Discovered	01/13/2023
Surface Owner	State

Incident Details <i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	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: Equipment Failure Pump Crude Oil Released: 7 BBL Recovered: 7 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 5 BBL Recovered: 5 BBL Lost: 0 BBL.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Leap operator arrived on location to find a spill in containment. The spill came from a worn seal on a transfer pump. The pump was shut down and isolated to stop the leak. Spill did not leave the lined containment.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

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District IV

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

QUESTIONS, Page 2

Action 176027

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 176027
	Action Type: [NOTIFY] Notification Of Release (NOR)

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 19.15.29.7(A) NMAC	No, minor release.
Reasons why this would be considered a submission for a notification of a major release	
If YES, was immediate notice given to the OCD, by whom	Not answered.
If YES, was immediate notice given to the OCD, to whom	Not answered.
If YES, was immediate notice given to the OCD, when	Not answered.
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	Not answered.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

Per 19.15.29.8 B. (4) 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 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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ACKNOWLEDGMENTS

Action 176027

ACKNOWLEDGMENTS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 176027
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.

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Santa Fe, NM 87505

CONDITIONS

Action 176027

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 176027
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
wdale	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	1/14/2023

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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	
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	
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 Ruiz</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>01/19/2023</u>

Spills In Lined Containment	
Measurements Of Standing Fluid	
Length(Ft)	20
Width(Ft)	21
Depth(in.)	0.001
Total Capacity without tank displacements (bbls)	12.00
No. of 500 bbl Tanks In Standing Fluid	2
No. of Other Tanks In Standing Fluid	
OD Of Other Tanks In Standing Fluid(feet)	
Total Volume of standing fluid accounting for tank displacement.	11.99

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Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 177717

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 177717
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	1/19/2023

Incident ID	nAPP2301424910
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?	<u>unknown</u> (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

Incident ID	nAPP2301424910
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: Dale Woodall Title: Environmental Professional

Signature: Dale Woodall Date: 5/12/2023

email: Dale.Wodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2301424910
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Dale Woodall Title: Environmental Professional
Signature: Dale Woodall Date: 5/12/2023
email: Dale.Wodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	nAPP2301424910
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: Dale Woodall Title: Environmental Professional

Signature: Dale Woodall Date: 5/12/2023

email: Dale.Wodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

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: _____ Date: _____

Printed Name: _____ Title: _____

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CONDITIONS

Action 216599

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 216599
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvez	Liner inspection deferral approved. Remediation required at time of plug and abandonment or major facility deconstruction.	8/1/2023