

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

September 23, 2024

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

Re: Site Characterization and Deferral Request

Chevron USA, Inc.

Cotton Hills 23 26 27 Federal Com #001H Unit B, Section 23, Township 26S, Range 27E Site Coordinates: 32.0345573, -104.1587753

Eddy County, New Mexico Incident ID: nAPP2300450334

Mr. Bratcher:

Introduction

On behalf of Chevron USA, Inc. (Chevron), New Tech Global Environmental, LLC (NTGE) has prepared this Site Characterization and Deferral Request for submittal to the New Mexico Oil Conservation Division (NMCOD) District 2 Office in Artesia, New Mexico to document site assessment, proposed remedial action activities, and sample analysis results for Cotton Hills 23 26 27 Federal Com #001H (Site). The Site is located in Unit Letter B, Section 23, of Township 26 South and Range 27 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.0345573° N latitude and 104.1587753° W longitude. The site location with respect to the nearest town is shown in Figure 1 and the topography of the area is shown in Figure 2.

Background

Based on the initial C-141 obtained from the NMOCD, the release was discovered on December 25, 2022. The release was due to a pinhole leak in a three-inch ball valve resulting in the release of approximately eleven (11) barrels (bbls) of produced water and eleven (11) bbls of crude oil of which zero (o) were recovered for a net loss of elven (11) bbls of produced water and eleven (11) bbls crude oil. Upon discovery, the equipment was shut-in, and the area secured. The release area is shown on Figure 3.

Site Characterization

Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known water sources within a ½-mile radius of the Site. No other receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map, the site is located within a Medium Karst area.

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The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) is attached to the end of this report.

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

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
Medium Karst	Unknown

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

Regulatory Standard	Chloride	TPH	TPH	BTEX	Benzene
		(GRO+DRO+MRO	(GRO+MRO)		
19.15.23.12 Remediation and Closure Criteria for Soils Impacted by a Release	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
Notes:					
= not defined					

Site Assessment

On February 9, 2023, Larson and Associates, Inc (LAI) personnel used a stainless-steel hand auger to collect soil samples from five (5) locations inside of the spill area (S-1 through S-5) and in each cardinal direction (north, south, east, and west) outside of the spill (S-6 through S-9). The samples were collected in half foot intervals from zero (0) to one (1) ft bgs. The soil samples were delivered under chain of custody to Permian Basin Environmental Laboratories (PBEL), located in Midland, Texas. The samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) (by EPA Method 8021B), total petroleum hydrocarbon (TPH) (by EPA method 8015 modified), and chloride (method SM4500Cl-B). Analytical results indicated that five sample points, S-1, S-2, S-3, S-4, and S-5 exhibited TPH and/or chloride over Table I Closure Criteria.

On April 3, 2023, LAI personnel returned to the site to further delineate sample locations S-2 and S-3. The samples were collected at one (1), three (3), five (5), and ten (10) feet bgs. PBEL analyzed the samples for BTEX, TPH and chloride. The laboratory results indicated the release was fully delineated to NMOCD Closure Criteria. The work plan prepared by LAI is attached at the end of this report.

Remedial Action Activities and Confirmation Sampling

Based on the analytical results, Chevron proceeded with the remedial actions at the Site to include the excavation and disposal of impacted soils above the regulatory limits. Confirmation soil samples were five (5) point composite samples and were collected from areas representing no greater than 200 square feet. The confirmation samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for analysis of BTEX (EPA Method 8021B), TPH (EPA Method 8015B Modified), and

A NTG ENVIRONMENTAL Mr. Mike Bratcher September 23, 2024 Page 3 of 4

chloride (SM4500 CL-B).

On July 15, 2024, NTGE and Chevron's contractor Hydro-Con mobilized to the site to begin remediation activities. After excavation activities were completed NTGE conducted a confirmation sampling event on August 9, 2024. A total of six (6) composite confirmation samples from the excavation base (CS-1 through CS-6) and nine (9) composite confirmation samples from the excavation sidewalls (SW-1 through SW-9) were collected to ensure impacted soil was removed. Analytical results indicated all samples exhibited benzene, BTEX, TPH, and chloride concentrations below NMOCD Closure Criteria with the exception of CS-1, CS-3, CS-4, SW-2, SW-5, SW-6, SW-8, and SW-9

On August 22, 2024, NTGE and Hydro-Con returned to the site to conduct further remediation activities. On August 29, 2024, NTGE collected a total of three (3) composite confirmation samples from the excavation base (CS-1A, CS-3A, and CS-4A) and four composite confirmation samples from the excavation sidewalls (SW-2A, SW-5A, SW-6A, and SW-10) to ensure impacted soil was removed. Analytical results indicated SW-2A exhibited chloride concentrations above NMOCD Closure Criteria.

September 13, 2024, NTGE and Hydro-Con mobilized back to the site to conduct further remediation activities. NTGE collected a total of one (1) composite confirmation sample from the excavation base (CS-7) and one (1) composite confirmation sample from the excavation sidewall (SW-2B) to ensure impacted soil was removed. Analtyical results indicated both samples exhibited concentrations below Table I Closure Criteria.

Soil samples were placed directly into laboratory provided sample containers, placed on ice, and transported under proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. Confirmation samples were collected every 200 square feet and analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (method SM4500Cl-B). The final excavation extent and confirmation sample locations are shown on Figure 4 and analytical results of all confirmation samples are included in Table 2 with laboratory reports attached.

Approximately 180 cubic yards of impacted soil were disposed of at the Red Bluff R360 disposal facility near Orla, Texas. The manifests are not included in this report, but are available upon request.

Deferral Request

Chevron personnel have expressed that the excavation areas of SW-8 and SW-9 cannot be expanded further as they were collected from the soils directly under the heater treater unit and associated piping. Excavation of these sidewalls would require major facility deconstruction. The deferral area was fully delineated by all the confirmation samples collected around the small island of which the heater treater unit and piping sit upon.

On behalf of Chevron, NTG Environmental formally requests a deferral to address the remaining soil impacts at the time of facility decommissioning or in the event infrastructure modifications are made in the area that would alleviate the safety concerns, whichever is sooner. Should the deferral request be granted, a remedial action report documenting excavation expansion and confirmation sampling activities will be prepared and filed following completion of the further actions to be completed at a future date.

A NTG

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If you have any questions regarding this report or need additional information, please contact us at 432-766-1918.

Sincerely,

NTG Environmental

Becky Haskell

Environmental Manager

Rebecca Haskell

Tyler Kimball Tyler Kimball Field Technician

Attachments:

Site Characterization Information

Tables Figures

Photographic Log

Confirmation Sampling Notifications

Extension Request Approval

Laboratory Reports and Chain-of-Custody Larson and Associates Incorporated workplan

NTGE Project No.: 248738



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OCD Well Locations



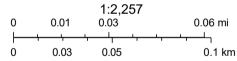
PLSS First Division

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Wells - Large Scale Karst Occurrence Potential

Gas, Active Medium

Oil, Cancelled L _ _ PLSS Second Division



BLM, OCD, New Mexico Tech, Esri Community Maps Contributors, Texas Parks & Wildlife, © OpenStreettMap, Microsoft, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, Oil Conservation Division of the New Mexico Energy,

OSE POD Location Map



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OSE District Boundary New Mexico State Trust Lands

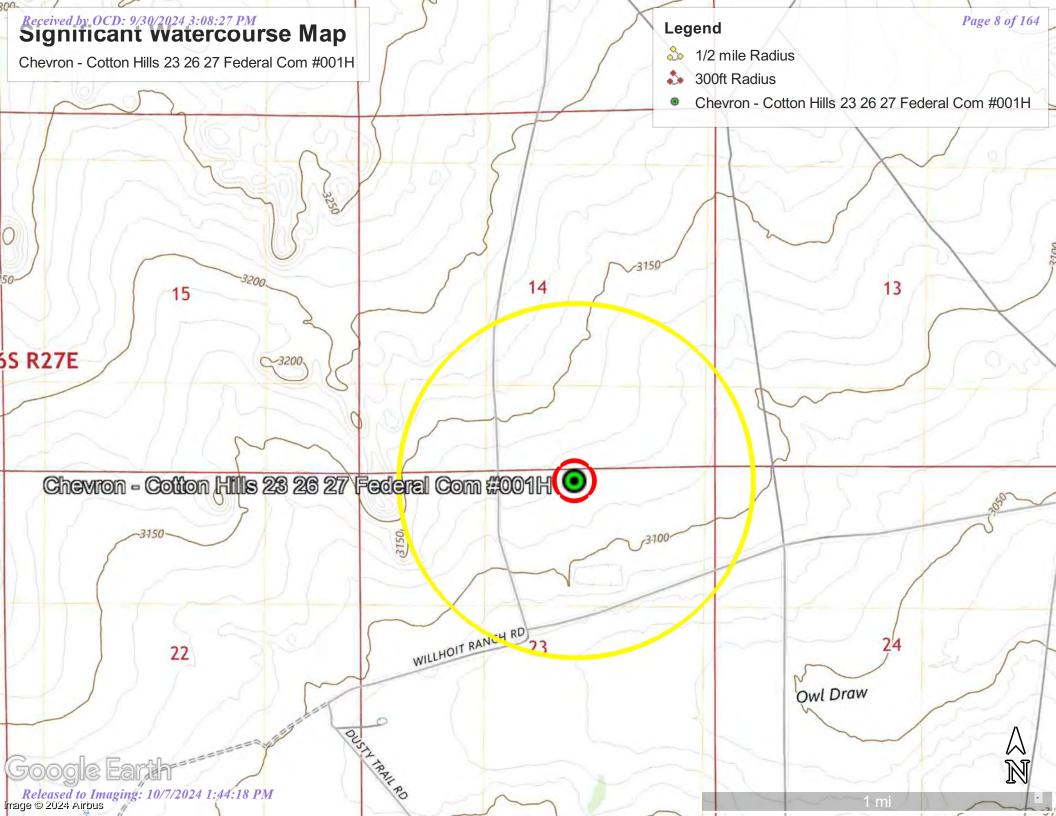
Both Estates

Surface Water Basins

Lower Pecos

1:18,056 0.5 mi 0.8 km

Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar



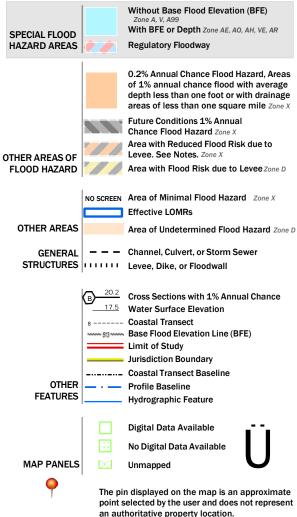
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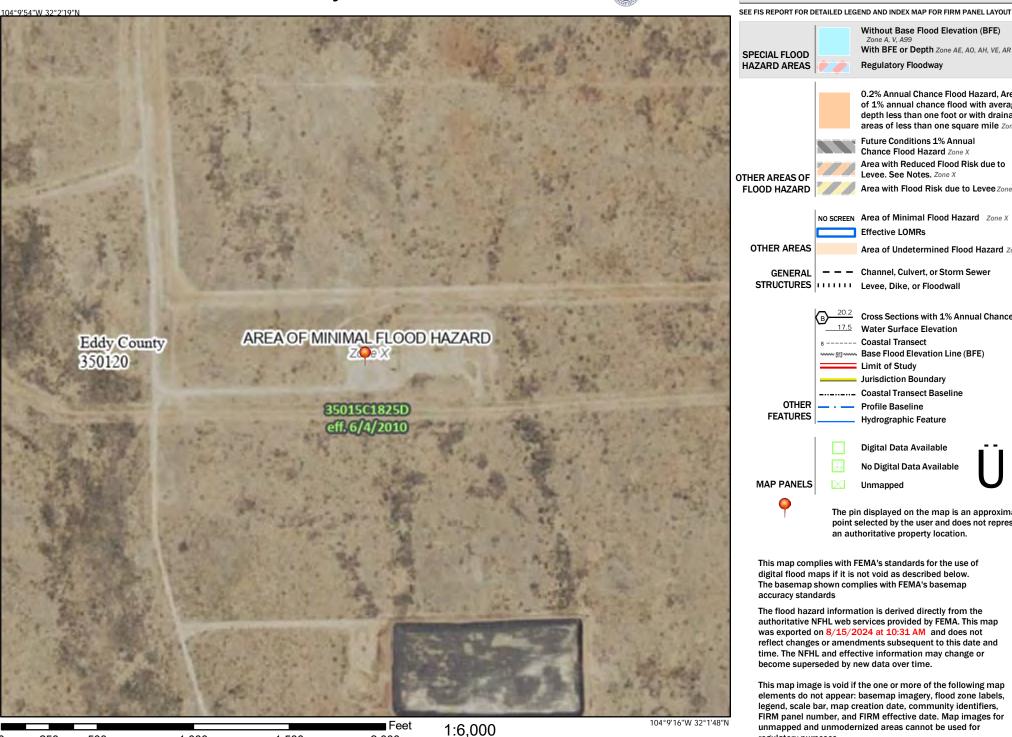
Legend



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 8/15/2024 at 10:31 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



2.000

1.500

Wetlands (Chevron) - Cotton Hills 23 26 27



September 20, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

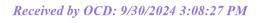
Lake

Freshwater Forested/Shrub Wetland

Freshwater Pond



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



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ATTACHEMENT B: TABLES

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Table 1 Summary of Soil Analytical Data - Initial Assesment Samples

Cotton Hills 23 26 27 Federal Com #001H Cheveron USA, Inc Eddy Co., NM

										TPH				
Sample ID	Sample	Depth	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C- 10)	DRO (C10- C28)	GRO + DRO	MRO (C28- C35)	Total GRO/DRO/MRO	Chloride	
Sample ID	Date	(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
						Table	e I Closure Crite	eria for Soil ≤ 50 f	eet Depth to Gro	undwater 19.15.29	NMAC			
			10 mg/kg		1		50 mg/kg					100 mg/kg	600 mg/kg	
						Verti	cal Delineation	Samples						
S-1	2/9/2023	0-0.5	<0.00202	<0.00202	0.0043	0.00208	0.00638	<49.8	1,070	1,070	<49.8	1,070	125	
3-1	2/9/2023	0.5-1	<0.00198	<0.00198	<0.00198	<0.00198	< 0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	245	
	2/9/2023	0-0.5	<0.00200	<0.00200	0.0044	0.0324	0.00368	157	615	772	<49.9	772	267	
	2/9/2023	0.5-1	<0.00201	0.00258	<0.00201	<0.00201	<0.00402	<49.8	112	112	<49.8	112	609	
S-2	4/3/2023	1	<0.00115	<0.00115	<0.00115	<0.00115	< 0.0023	<28.7	432	432	96	528	246	
3-2	4/3/2023	3	<0.00128	<0.00128	<0.00128	<0.00128	< 0.00256	<32.1	<32.1	<32.1	<32.1	<32.1	146	
	4/3/2023	5	<0.00123	<0.00123	<0.00123	<0.00123	<0.00247	<30.9	<30.9	<30.9	<30.9	<30.9	214	
	4/3/2023	10	<0.0012	< 0.0012	<0.0012	<0.0012	< 0.00241	<30.1	<30.2	<30.3	<30.4	<30.5	15.0	
	2/9/2023	0-0.5	<0.00202	0.00787	0.0577	0.746	0.812	650	1,850	2,500	<49.8	2,500	101	
	2/9/2023	0.5-1	< 0.00199	<0.00199	<0.00199	<0.00199	<0.00398	<49.9	56	56	<49.9	56	3,740	
S-3	4/3/2023	1	< 0.00112	<0.00112	<0.00112	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	<28.1	25.9	
3-3	4/3/2023	3	<0.00125	<0.00125	<0.00125	<0.00125	<0.0025	<31.2	<31.2	<31.2	<31.2	<31.2	107	
	4/3/2023	5	<0.0012	<0.0012	<0.0012	<0.0012	<0.00241	<30.1	<30.1	<30.1	<30.1	<30.1	109	
	4/3/2023	10	<0.00118	<0.00118	<0.00118	<0.00118	<000235	<29.4	<29.4	<29.4	<29.4	<29.4	35.9	
	2/9/2023	0-0.5	<0.00199	0.0169	0.0338	0.413	0.464	242	895	1,140	<50.0	1,140	20.9	
S-4	2/9/2023	0.5-1	<0.00200	<0.00200	<0.00200	0.0106	0.0106	<50.0	<50.0	<50.0	<50.0	<50.0	248	
6.5	2/9/2023	0-0.5	<0.00201	0.0159	0.0387	0.581	0.636	248	721	969	<49.9	969	91.1	
S-5	2/9/2023	0.5-1	<0.00199	< 0.00199	<0.00199	< 0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	204	
5.6	2/9/2023	0-0.5	<0.00198	<0.00198	<0.00198	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	9.78	
S-6	2/9/2023	0.5-1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	29.5	
6.7	2/9/2023	0-0.5	<0.00199	<0.00199	<0.00199	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	37.2	
S-7	2/9/2023	0.5-1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	226	
6.0	2/9/2023	0-0.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	131	
S-8	2/9/2023	0.5-1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	56.0	
	2/9/2023	0-0.5	<0.00199	<0.00199	<0.00199	<0.00396	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	118	
S-9	2/9/2023	0.5-1	<0.00199	<0.00199	<0.00199	<0.00396	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	191	

Notes: Site d

Site delineation was completed by Larson and Associates Incorportated.

1. Values reported in mg/kg

5. TPH analyses by EPA Method SW 8015 Mod. 6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil

2.< = Value Less Than Reporting Limit (RL)3. Bold indicates Analyte Detected

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.

4. BTEX analyses by EPA Method SW 8021B

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

SP 1 Sample Point Excavated

9. --- Not Analyzed

Table 2 Summary of Soil Analytical Data - Confirmation Assesment Samples

Cotton Hills 23 26 27 Federal Com #001H Cheveron USA, Inc

Eddy Co., NM

										TPH			
Sample ID	Sample Date	Depth	Benzene	Toluene	Ethylbenzene	Xylenes	ВТЕХ	GRO (C6-C- 10)	DRO (C10- C28)	GRO + DRO	MRO (C28- C35)	Total GRO/DRO/MRO	Chlorid
Sample ID	Sample Date	(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg
						Tabl	e I Closure Crite	eria for Soil ≤ 50 f	eet Depth to Gro	undwater 19.15.29	NMAC		
			10 mg/kg		-		50 mg/kg			-		100 mg/kg	600 mg/
						Base	e Confirmation	Samples					
CS-1	8/9/2024	1'	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	93.6	93.6	31.3	124.9	1,300
CS-1A	8/29/2024	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.3	13.3	<10.0	13.3	416
CS-2	8/9/2024	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS-3	8/9/2024	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	608
CS-3A	8/29/2024	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-4	8/9/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,000
CS-4A	8/29/2024	0-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
CS-5	8/9/2024	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-6	8/9/2024	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
CS-7	9/13/2024	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
							Sidewall Samp	les					
SW-1	8/9/2024	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW-2	8/9/2024	0-3'	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,000
SW-2A	8/29/2024	0-3'	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	< 10.0	<10.0	<10.0	<10.0	784
SW-2B	9/13/2024	0-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW 3	8/9/2024	2 3'	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
SW-4	8/9/2024	1 3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	< 10.0	<10.0	< 10.0	<10.0	864
SW-5	8/9/2024	1-2'	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
SW-5A	8/29/2024	2'-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.7	11.7	<10.0	11.7	560
SW-6	8/9/2024	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	< 10.0	<10.0	< 10.0	<10.0	2,160
SW-6A	8/29/2024	0-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW-7	8/9/2024	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
SW-8	8/9/2024	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	125	125	61.8	186.8	1,200
SW-9	8/9/2024	0-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,790
SW-10	8/29/2024	2'-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
			•			•	•	•			•		

Notes:

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

5. TPH analyses by EPA Method SW 8015 Mod.

6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.

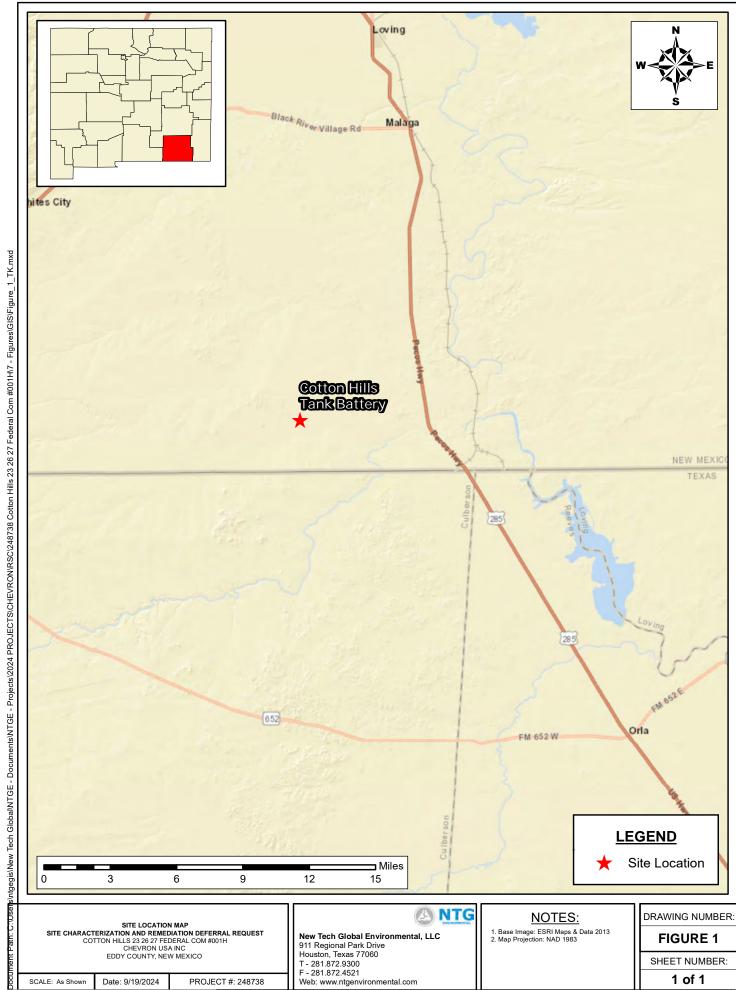
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).

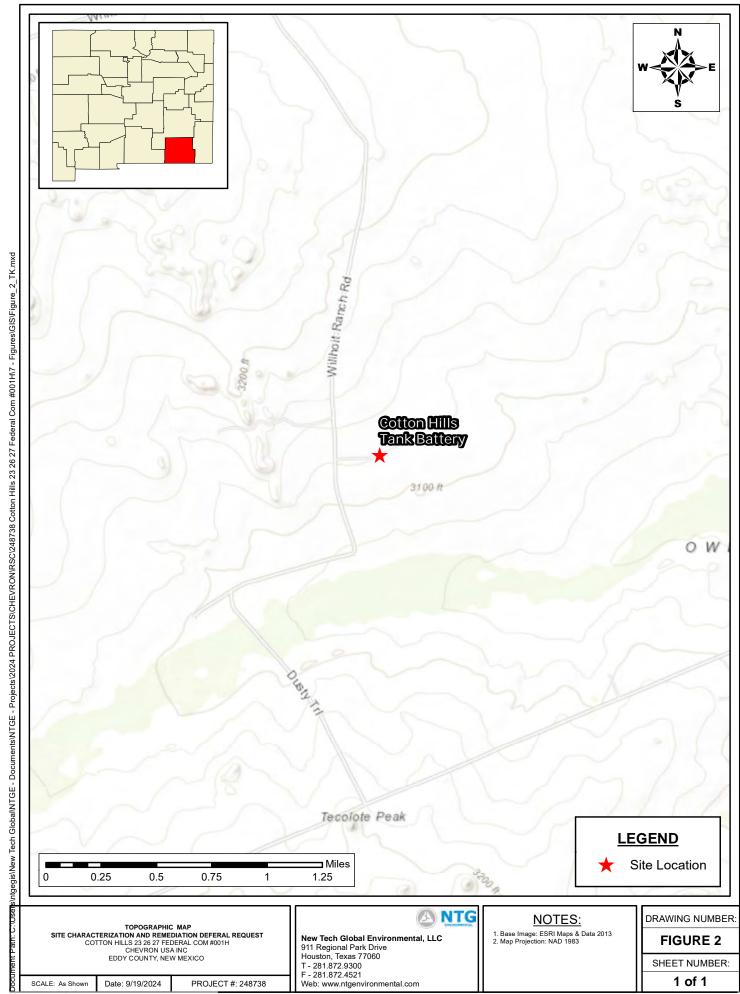
9. --- Not Analyzed



Page 14 of 164

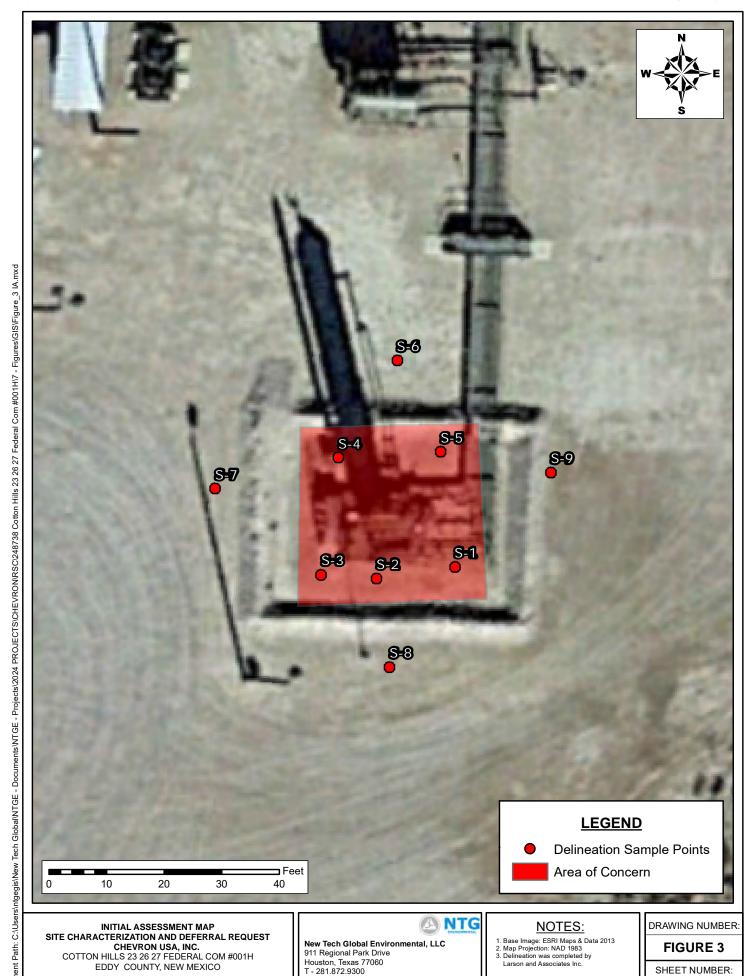
ATTACHEMENT C: FIGURES





SHEET NUMBER:

1 of 1

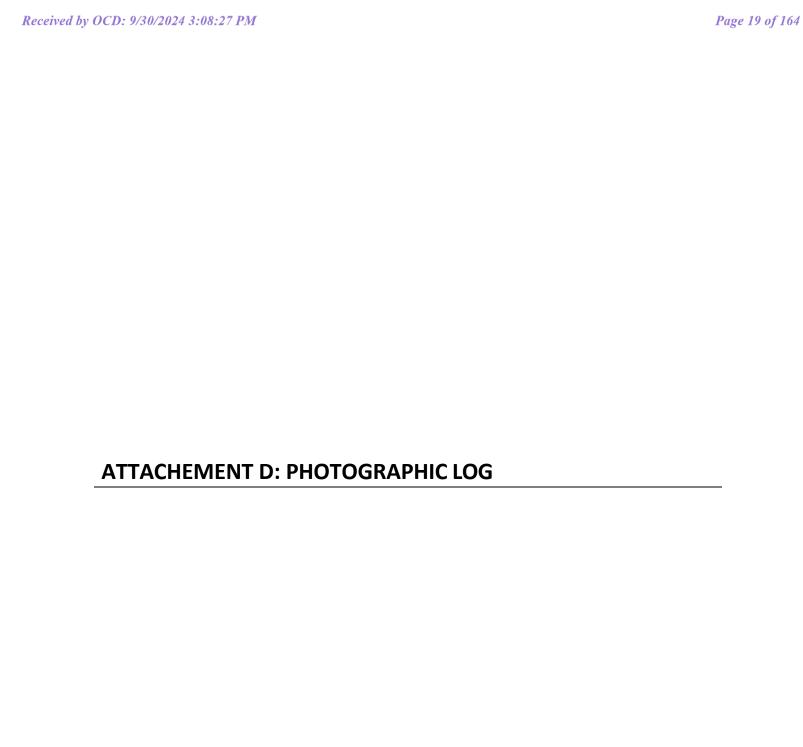


T - 281.872.9300 F - 281.872.4521

Web: www.ntgenvironmental.com

SCALE: As Shown Date: 9/20/2024 PROJECT #:248738 Released to Imaging: 10/7/2024 1:44:18 PM





PHOTOGRAPHIC LOG

Chevron USA INC

Photograph No. 1

Facility: Cotton Hills Tank Battery

County: Eddy County, New Mexico

Description: View of Excavation

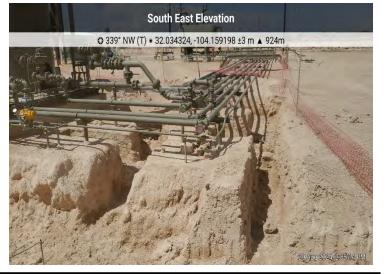


Photograph No. 2

Facility: Cotton Hills Tank Battery

County: Eddy County, New Mexico

Description: View of Excavation

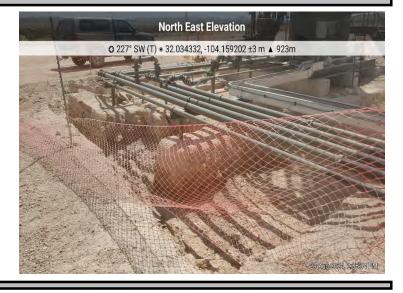


Photograph No. 3

Facility: Cotton Hills Tank Battery

County: Eddy County, New Mexico

Description: View of Excavation



PHOTOGRAPHIC LOG

Chevron USA INC

Photograph No. 4

Facility: Cotton Hills Tank Battery

County: Eddy County, New Mexico

Description:

View of Excavation



Photograph No. 5

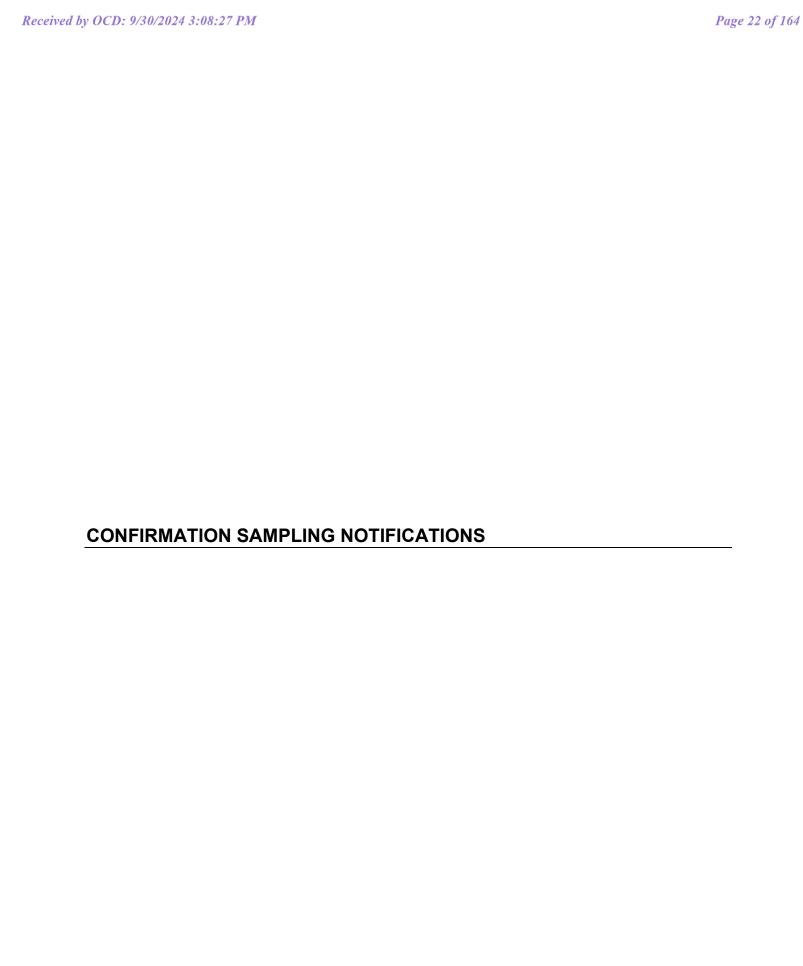
Facility: Cotton Hills Tank Battery

County: Eddy County, New Mexico

Description:

View of Excavation





Searches

Districts:

Counties:

OCD Permitting

Operator Data

Artesia

Eddy

Hearing Fee Application

OCD Permitting

Action Search Results

Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:

371138

[4323] CHEVRON U S A INC

Description:

Operator:

CHEVRON U S A INC [4323]

, COTTON HILLS TANK BATTERY

, nAPP2300450334

Status:

APPROVED

Status Date:

08/07/2024

References (2):

fAPP2131333664, nAPP2300450334

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)

nAPP2300450334

Incident Name

NAPP2300450334 COTTON HILLS TANK BATTERY @ 0

Incident Type

Oil Release

Incident Status

Remediation Plan Approved

Incident Facility

[fAPP2131333664] Cotton Hills Tank Battery

Location of Release Source

Site Name

Surface Owner

COTTON HILLS TANK BATTERY

Date Release Discovered

12/25/2022 Federal

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet

950

What is the estimated number of samples that will be gathered

Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of Time sampling will commence

08/09/2024

19.15.29.12 NMAC

09:30 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers

Tyler Kimball (432) 582-4051

Please provide any information necessary for navigation to sampling site

32.03451,-104.159725

		Searches	Operator Data	Hearing Fee Application
Comments				
No comments found for	or this submission.			
Conditions				
Summary:	abamhill (8/7/2024), Failure to notify the OCD of sampling events including any changes remediation closure samples not being accepted.	in date/time per the re	equirements of 19.15.29.1:	2.D.(1).(a) NMAC, may result in the
Reasons				
No reasons found for	this submission.			
Go Back				
	New Mexico Energy, Minerals and Natural Resources Departme	nt Copyright 2012		

1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

EMNRD Home OCD Main Page OCD Rules Help

Districts:

Counties:

SIGN-IN HELP

Searches **Operator Data**

Artesia

Eddy

Hearing Fee Application

OCD Permitting

Action Search Results

Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:

378407

[4323] CHEVRON U S A INC

Description:

Operator:

CHEVRON U S A INC [4323]

, COTTON HILLS TANK BATTERY

, nAPP2300450334

Status:

APPROVED 08/27/2024

Status Date: References (2):

fAPP2131333664, nAPP2300450334

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)

nAPP2300450334

Incident Name

NAPP2300450334 COTTON HILLS TANK BATTERY @ 0

Incident Type

Oil Release

Incident Status

Remediation Plan Approved

Incident Facility [fAPP2131333664] Cotton Hills Tank Battery

Location of Release Source

Site Name

Surface Owner

COTTON HILLS TANK BATTERY

Date Release Discovered

12/25/2022 Federal

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet

936

What is the estimated number of samples that will be gathered

08/29/2024

19.15.29.12 NMAC

Time sampling will commence

02:15 PM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of

Please provide any information necessary for observers to contact samplers Please provide any information necessary for navigation to sampling site

Tyler Kimball 432-582-4051

GPS: 32.034290 -104.159281

EMNRD Home OCD Main Page OCD Rules Help

				Searches	Operator Data	Hearing Fee Application
Comments						
No comments found for	r this submission.					
Conditions						
Summary:	abarnhill (8/27/2024), Failure t remediation closure sampl	o notify the OCD of sampling events in es not being accepted.	ncluding any changes in d	late/time per the re	equirements of 19.15.29.12	P.D.(1).(a) NMAC, may result in the
Reasons						
No reasons found for the	nis submission.					
Go Back						
		New Mexico Energy, Minerals and Natu 1220 South St. Francis Drive Santa Fe, NN				

Searches

Districts:

Counties:

Operator Data

Artesia

Eddy

Hearing Fee Application

OCD Permitting

Home Op

Operator Data

Action Status

Action Search Results

Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:

381840

[4323] CHEVRON U S A INC

Operator:

Description:

CHEVRON U S A INC [4323]

, COTTON HILLS TANK BATTERY

, nAPP2300450334

Status:

APPROVED

Status Date:

09/09/2024

References (2):

fAPP2131333664, nAPP2300450334

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)

nAPP2300450334

Incident Name

NAPP2300450334 COTTON HILLS TANK BATTERY @ 0

Incident Type

Oil Release

Incident Status

Remediation Plan Approved

Incident Facility [fAPP2131333664] Cotton Hills Tank Battery

Location of Release Source

Site Name

Surface Owner

COTTON HILLS TANK BATTERY

Date Release Discovered

12/25/2022 Federal

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet

400

What is the estimated number of samples that will be gathered

_

Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of

09/13/2024

19.15.29.12 NMAC

Time sampling will commence

08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers Please provide any information necessary for navigation to sampling site Tyler Kimball (432) 582-4051

GPS: 32.034290 -104.159281

			Searches	Operator Data	Hearin	g Fee Applic	cation
Comments							
No comments found t	or this submission.						
Conditions							
Summary:	abarnhill (9/9/2024), Failure to notify the OCD of s remediation closure samples not being accept		ate/time per the red	quirements of 19.15.2	29.12.D.(1).(a) NN	ЛАС, may resu	ilt in the
Reasons							
No reasons found for	this submission.						
Go Back							
		rgy, Minerals and Natural Resources Department C is Drive Santa Fe, NM 87505 P: (505) 476-3200					
				EMNRD Home	OCD Main Page	OCD Rules	Help



Becky Haskell

From: Barnhill, Amy <ABarnhill@chevron.com>
Sent: Monday, August 19, 2024 10:50 AM

To: Steven Trammell
Cc: Becky Haskell

Subject: Cotton Hills 23 26 27 Fed Com 1H ID#nAPP2300450334

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

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Monday, August 19, 2024 10:32 AM **To:** Barnhill, Amy <ABarnhill@chevron.com>

Cc: Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov>

Subject: [**EXTERNAL**] RE: [EXTERNAL] Cotton Hills 23 26 27 Fed Com 1H ID#nAPP2300450334

Be aware this external email contains an attachment and/or link.

Ensure the email and contents are expected. If there are concerns, please submit suspicious messages to the Cyber Intelligence

Center using the Report Phishing button.

Good morning Amy,

The extension request for NAPP2300450334 COTTON HILLS TANK BATTERY is approved. This will be the final extension. The new due date to submit your remediation closure report to the OCD is September 30, 2024. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Barnhill, Amy < <u>ABarnhill@chevron.com</u>> Sent: Monday, August 19, 2024 9:15 AM

To: Wells, Shelly, EMNRD < Shelly.Wells@emnrd.nm.gov>

Subject: [EXTERNAL] Cotton Hills 23 26 27 Fed Com 1H ID#nAPP2300450334

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Shelly,

Chevron is asking for an extension through September 30th as we have found some additional staining and need to sample to ensure we have cleaned up all affected areas.

Thank you,
Amy Barnhill
Environmental Specialist 2
Tel +1 432 687 7108
Mobile +1 432 940 8524
ABarnhill@chevron.com

Mid-Continent Business Unit

Chevron North America Exploration and Production Company

ed by OCD: 9/30/2024 3:08:27 PM	Page	e 3.
TTACHEMENT E: LABORATORY REPORTS AND CHAIN	I-OF-CUSTODY DOCUMENTS	
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August 14, 2024

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: COTTON HILLS

Enclosed are the results of analyses for samples received by the laboratory on 08/09/24 12:15.

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

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

 Received:
 08/09/2024
 Sampling Date:
 08/09/2024

 Reported:
 08/14/2024
 Sampling Type:
 Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Project Location: CHEVRON - EDDY COUNTY

Sample ID: CS - 1 (H244824-01)

BTEX 8021B	mg,	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/12/2024	ND	2.21	111	2.00	6.16	
Toluene*	<0.050	0.050	08/12/2024	ND	2.31	116	2.00	4.86	
Ethylbenzene*	<0.050	0.050	08/12/2024	ND	2.38	119	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/12/2024	ND	7.31	122	6.00	4.27	
Total BTEX	<0.300	0.300	08/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	08/12/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2024	ND	206	103	200	1.34	
DRO >C10-C28*	93.6	10.0	08/12/2024	ND	199	99.7	200	0.433	
EXT DRO >C28-C36	31.3	10.0	08/12/2024	ND					
Surrogate: 1-Chlorooctane	69.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kreene



Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 08/09/2024 Sampling Date: 08/09/2024

Reported: 08/14/2024 Sampling Type: Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: CHEVRON - EDDY COUNTY

mg/kg

Sample ID: CS - 2 (H244824-02)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/12/2024	ND	2.21	111	2.00	6.16	
Toluene*	<0.050	0.050	08/12/2024	ND	2.31	116	2.00	4.86	
Ethylbenzene*	<0.050	0.050	08/12/2024	ND	2.38	119	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/12/2024	ND	7.31	122	6.00	4.27	
Total BTEX	<0.300	0.300	08/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/12/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2024	ND	206	103	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/12/2024	ND	199	99.7	200	0.433	
EXT DRO >C28-C36	<10.0	10.0	08/12/2024	ND					
Surrogate: 1-Chlorooctane	72.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.5	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

NTG ENVIRONMENTAL **BECKY HASKELL** 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 08/09/2024 Sampling Date: 08/09/2024

Reported: 08/14/2024 Sampling Type: Soil

Project Name: **COTTON HILLS** Sampling Condition: Cool & Intact Sample Received By: Project Number: 248738 Shalyn Rodriguez

CHEVRON - EDDY COUNTY Project Location:

Sample ID: CS - 3 (H244824-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/12/2024	ND	2.21	111	2.00	6.16	
Toluene*	<0.050	0.050	08/12/2024	ND	2.31	116	2.00	4.86	
Ethylbenzene*	<0.050	0.050	08/12/2024	ND	2.38	119	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/12/2024	ND	7.31	122	6.00	4.27	
Total BTEX	<0.300	0.300	08/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	08/12/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2024	ND	206	103	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/12/2024	ND	199	99.7	200	0.433	
EXT DRO >C28-C36	<10.0	10.0	08/12/2024	ND					
Surrogate: 1-Chlorooctane	84.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 08/09/2024 Sampling Date: 08/09/2024

Reported: 08/14/2024 Sampling Type: Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: CHEVRON - EDDY COUNTY

mg/kg

Sample ID: CS - 4 (H244824-04)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/12/2024	ND	2.21	111	2.00	6.16	
Toluene*	<0.050	0.050	08/12/2024	ND	2.31	116	2.00	4.86	
Ethylbenzene*	<0.050	0.050	08/12/2024	ND	2.38	119	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/12/2024	ND	7.31	122	6.00	4.27	
Total BTEX	<0.300	0.300	08/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	08/12/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2024	ND	206	103	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/12/2024	ND	199	99.7	200	0.433	
EXT DRO >C28-C36	<10.0	10.0	08/12/2024	ND					
Surrogate: 1-Chlorooctane	82.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 08/09/2024 Sampling Date: 08/09/2024

Reported: 08/14/2024 Sampling Type: Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: CHEVRON - EDDY COUNTY

mg/kg

Sample ID: CS - 5 (H244824-05)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/12/2024	ND	2.21	111	2.00	6.16	
Toluene*	<0.050	0.050	08/12/2024	ND	2.31	116	2.00	4.86	
Ethylbenzene*	<0.050	0.050	08/12/2024	ND	2.38	119	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/12/2024	ND	7.31	122	6.00	4.27	
Total BTEX	<0.300	0.300	08/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/12/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2024	ND	206	103	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/12/2024	ND	199	99.7	200	0.433	
EXT DRO >C28-C36	<10.0	10.0	08/12/2024	ND					
Surrogate: 1-Chlorooctane	90.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 08/09/2024 Sampling Date: 08/09/2024

Reported: 08/14/2024 Sampling Type: Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: CHEVRON - EDDY COUNTY

ma/ka

Sample ID: CS - 6 (H244824-06)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/12/2024	ND	2.21	111	2.00	6.16	
Toluene*	<0.050	0.050	08/12/2024	ND	2.31	116	2.00	4.86	
Ethylbenzene*	<0.050	0.050	08/12/2024	ND	2.38	119	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/12/2024	ND	7.31	122	6.00	4.27	
Total BTEX	<0.300	0.300	08/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2024	ND	206	103	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/12/2024	ND	199	99.7	200	0.433	
EXT DRO >C28-C36	<10.0	10.0	08/12/2024	ND					
Surrogate: 1-Chlorooctane	89.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 08/09/2024 Sampling Date: 08/09/2024

Reported: 08/14/2024 Sampling Type: Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: CHEVRON - EDDY COUNTY

mg/kg

Sample ID: SW - 1 (H244824-07)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/12/2024	ND	2.21	111	2.00	6.16	
Toluene*	<0.050	0.050	08/12/2024	ND	2.31	116	2.00	4.86	
Ethylbenzene*	<0.050	0.050	08/12/2024	ND	2.38	119	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/12/2024	ND	7.31	122	6.00	4.27	
Total BTEX	<0.300	0.300	08/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2024	ND	206	103	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/12/2024	ND	199	99.7	200	0.433	
EXT DRO >C28-C36	<10.0	10.0	08/12/2024	ND					
Surrogate: 1-Chlorooctane	77.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 08/09/2024 Sampling Date: 08/09/2024

Reported: 08/14/2024 Sampling Type: Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: CHEVRON - EDDY COUNTY

mg/kg

Sample ID: SW - 2 (H244824-08)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/12/2024	ND	2.21	111	2.00	6.16	
Toluene*	<0.050	0.050	08/12/2024	ND	2.31	116	2.00	4.86	
Ethylbenzene*	<0.050	0.050	08/12/2024	ND	2.38	119	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/12/2024	ND	7.31	122	6.00	4.27	
Total BTEX	<0.300	0.300	08/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2024	ND	206	103	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/12/2024	ND	199	99.7	200	0.433	
EXT DRO >C28-C36	<10.0	10.0	08/12/2024	ND					
Surrogate: 1-Chlorooctane	92.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 08/09/2024 Sampling Date: 08/09/2024

Reported: 08/14/2024 Sampling Type: Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: CHEVRON - EDDY COUNTY

ma/ka

Sample ID: SW - 3 (H244824-09)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/12/2024	ND	2.21	111	2.00	6.16	
Toluene*	<0.050	0.050	08/12/2024	ND	2.31	116	2.00	4.86	
Ethylbenzene*	<0.050	0.050	08/12/2024	ND	2.38	119	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/12/2024	ND	7.31	122	6.00	4.27	
Total BTEX	<0.300	0.300	08/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2024	ND	206	103	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/12/2024	ND	199	99.7	200	0.433	
EXT DRO >C28-C36	<10.0	10.0	08/12/2024	ND					
Surrogate: 1-Chlorooctane	85.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 08/09/2024 Sampling Date: 08/09/2024

Reported: 08/14/2024 Sampling Type: Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: CHEVRON - EDDY COUNTY

mg/kg

Sample ID: SW - 4 (H244824-10)

BTEX 8021B

DILX GOZID	ilig/	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/12/2024	ND	2.21	111	2.00	6.16	
Toluene*	<0.050	0.050	08/12/2024	ND	2.31	116	2.00	4.86	
Ethylbenzene*	<0.050	0.050	08/12/2024	ND	2.38	119	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/12/2024	ND	7.31	122	6.00	4.27	
Total BTEX	<0.300	0.300	08/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2024	ND	206	103	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/12/2024	ND	199	99.7	200	0.433	
EXT DRO >C28-C36	<10.0	10.0	08/12/2024	ND					
Surrogate: 1-Chlorooctane	88.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

NTG ENVIRONMENTAL **BECKY HASKELL** 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 08/09/2024 Sampling Date: 08/09/2024

Reported: 08/14/2024 Sampling Type: Soil

Project Name: **COTTON HILLS** Sampling Condition: Cool & Intact Sample Received By: Project Number: 248738 Shalyn Rodriguez

Project Location: CHEVRON - EDDY COUNTY

Sample ID: SW - 5 (H244824-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/12/2024	ND	2.21	111	2.00	6.16	
Toluene*	<0.050	0.050	08/12/2024	ND	2.31	116	2.00	4.86	
Ethylbenzene*	<0.050	0.050	08/12/2024	ND	2.38	119	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/12/2024	ND	7.31	122	6.00	4.27	
Total BTEX	<0.300	0.300	08/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2024	ND	206	103	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/12/2024	ND	199	99.7	200	0.433	
EXT DRO >C28-C36	<10.0	10.0	08/12/2024	ND					
Surrogate: 1-Chlorooctane	86.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 08/09/2024 Sampling Date: 08/09/2024

Reported: 08/14/2024 Sampling Type: Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: CHEVRON - EDDY COUNTY

mg/kg

Sample ID: SW - 6 (H244824-12)

BTEX 8021B

DILX OUZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/12/2024	ND	2.21	111	2.00	6.16	
Toluene*	<0.050	0.050	08/12/2024	ND	2.31	116	2.00	4.86	
Ethylbenzene*	<0.050	0.050	08/12/2024	ND	2.38	119	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/12/2024	ND	7.31	122	6.00	4.27	
Total BTEX	<0.300	0.300	08/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2024	ND	206	103	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/12/2024	ND	199	99.7	200	0.433	
EXT DRO >C28-C36	<10.0	10.0	08/12/2024	ND					
Surrogate: 1-Chlorooctane	72.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 08/09/2024 Sampling Date: 08/09/2024

Reported: 08/14/2024 Sampling Type: Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: CHEVRON - EDDY COUNTY

ma/ka

Sample ID: SW - 7 (H244824-13)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/12/2024	ND	2.21	111	2.00	6.16	
Toluene*	<0.050	0.050	08/12/2024	ND	2.31	116	2.00	4.86	
Ethylbenzene*	<0.050	0.050	08/12/2024	ND	2.38	119	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/12/2024	ND	7.31	122	6.00	4.27	
Total BTEX	<0.300	0.300	08/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2024	ND	206	103	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/12/2024	ND	199	99.7	200	0.433	
EXT DRO >C28-C36	<10.0	10.0	08/12/2024	ND					
Surrogate: 1-Chlorooctane	87.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 08/09/2024 Sampling Date: 08/09/2024

Reported: 08/14/2024 Sampling Type: Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: CHEVRON - EDDY COUNTY

ma/ka

Sample ID: SW - 8 (H244824-14)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/12/2024	ND	2.21	111	2.00	6.16	
Toluene*	<0.050	0.050	08/12/2024	ND	2.31	116	2.00	4.86	
Ethylbenzene*	<0.050	0.050	08/12/2024	ND	2.38	119	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/12/2024	ND	7.31	122	6.00	4.27	
Total BTEX	<0.300	0.300	08/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	206	103	200	1.34	
DRO >C10-C28*	125	10.0	08/13/2024	ND	199	99.7	200	0.433	
EXT DRO >C28-C36	61.8	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	89.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

NTG ENVIRONMENTAL **BECKY HASKELL** 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 08/09/2024 Sampling Date: 08/09/2024 Reported: 08/14/2024 Sampling Type: Soil

Project Name: **COTTON HILLS** Sampling Condition: Cool & Intact Sample Received By: Project Number: 248738 Shalyn Rodriguez

Project Location: CHEVRON - EDDY COUNTY

Sample ID: SW - 9 (H244824-15)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/12/2024	ND	2.21	111	2.00	6.16	
Toluene*	<0.050	0.050	08/12/2024	ND	2.31	116	2.00	4.86	
Ethylbenzene*	<0.050	0.050	08/12/2024	ND	2.38	119	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/12/2024	ND	7.31	122	6.00	4.27	
Total BTEX	<0.300	0.300	08/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1790	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	206	103	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	199	99.7	200	0.433	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



BILL TO	ANALYSIS REQUEST
P.O. #:	
Company:	
88220 Attn:	
Address:	
Chestran city:	
State: Zip:	
Phone #:	5
Fax#:	
MATRIX PRESERV. SAMPLING	+ ~ ~ ~
GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	Chlo
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CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Thermometer ID #140 Correction Factor -0.6°C Thermometer -0.6°C Rush Root No Corrected Temp. °C
Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsrm.com	12
	Sampler I.D. Sampler IIIME Gig Go Sai Sill III J. J

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



e@cardinallabsnm.com	hanges to celey.keene(nnot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com	+ Cardinal cann	FORM-000 R 3.3 00/05/24	Γ
OCCUPATION OF CONTROL	Correction Factor -0.8°C	I No II No	Corrected Temp. °C	Sampler - UPS - Bus - Other:	Sar
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	er completion of the applicable client, its subsidiaries,	PLEASE NOTE: Lability and Damages. Cardinat's liability and client's exclusive remoty for any cuant was-ny messare in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatboever shall be deemed where unless made in writing and received by Cardinal within 30 days after completion of the applicable.	any other cause whatsoever shall be deerned a	SE NOTE: Liability and Damages, Cardinal's liable ses. All claims including those for negligence and	PLEAS
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		P.O. #:	まなん	Rordon	Proje
ANALIGIO		BILL TO		Company Name: 17(8)	Com
ANALYSIS REQUEST			6 FAX (575) 393-2476	(575) 393-2326	
			101 East Mariand, Hopps, Nivi 00270	101 East Marian	



September 05, 2024

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: COTTON HILLS

Enclosed are the results of analyses for samples received by the laboratory on 08/30/24 13:00.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

 Received:
 08/30/2024
 Sampling Date:
 08/29/2024

 Reported:
 09/05/2024
 Sampling Type:
 Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

A I J D. ... 711

Project Location: CHEVRON - EDDY COUNTY

Sample ID: CS - 1A (H245313-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	2.13	107	2.00	4.71	
Toluene*	<0.050	0.050	08/31/2024	ND	2.25	112	2.00	6.85	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	2.38	119	2.00	5.86	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.73	112	6.00	5.19	
Total BTEX	<0.300	0.300	08/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/03/2024	ND	448	112	400	3.51	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	211	106	200	0.544	
DRO >C10-C28*	13.3	10.0	08/30/2024	ND	225	112	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 08/30/2024 Sampling Date: 08/29/2024

Reported: 09/05/2024 Sampling Type: Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: CHEVRON - EDDY COUNTY

ma/ka

Sample ID: CS - 3A (H245313-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	2.13	107	2.00	4.71	
Toluene*	<0.050	0.050	08/31/2024	ND	2.25	112	2.00	6.85	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	2.38	119	2.00	5.86	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.73	112	6.00	5.19	
Total BTEX	<0.300	0.300	08/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/03/2024	ND	448	112	400	3.51	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	211	106	200	0.544	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	225	112	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 08/30/2024 Sampling Date: 08/29/2024

Reported: 09/05/2024 Sampling Type: Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: CHEVRON - EDDY COUNTY

mg/kg

Sample ID: CS - 4A (H245313-03)

BTEX 8021B

	9/	9	7	<u></u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	2.13	107	2.00	4.71	
Toluene*	<0.050	0.050	08/31/2024	ND	2.25	112	2.00	6.85	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	2.38	119	2.00	5.86	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.73	112	6.00	5.19	
Total BTEX	<0.300	0.300	08/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/03/2024	ND	448	112	400	3.51	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	211	106	200	0.544	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	225	112	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	95.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 08/30/2024 Sampling Date: 08/29/2024

Reported: 09/05/2024 Sampling Type: Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: CHEVRON - EDDY COUNTY

ma/ka

Sample ID: SW - 2A (H245313-04)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	2.13	107	2.00	4.71	
Toluene*	<0.050	0.050	08/31/2024	ND	2.25	112	2.00	6.85	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	2.38	119	2.00	5.86	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.73	112	6.00	5.19	
Total BTEX	<0.300	0.300	08/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	09/03/2024	ND	448	112	400	3.51	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	211	106	200	0.544	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	225	112	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	84.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 08/30/2024 Sampling Date: 08/29/2024

Reported: 09/05/2024 Sampling Type: Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Project Location: CHEVRON - EDDY COUNTY

Sample ID: SW - 5A (H245313-05)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	2.13	107	2.00	4.71	
Toluene*	<0.050	0.050	08/31/2024	ND	2.25	112	2.00	6.85	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	2.38	119	2.00	5.86	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.73	112	6.00	5.19	
Total BTEX	<0.300	0.300	08/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/03/2024	ND	448	112	400	3.51	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	211	106	200	0.544	
DRO >C10-C28*	11.7	10.0	08/30/2024	ND	225	112	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	96.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 08/30/2024 Sampling Date: 08/29/2024

Reported: 09/05/2024 Sampling Type: Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: CHEVRON - EDDY COUNTY

ma/ka

Sample ID: SW - 6A (H245313-06)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	2.13	107	2.00	4.71	
Toluene*	<0.050	0.050	08/31/2024	ND	2.25	112	2.00	6.85	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	2.38	119	2.00	5.86	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.73	112	6.00	5.19	
Total BTEX	<0.300	0.300	08/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/03/2024	ND	448	112	400	3.51	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	211	106	200	0.544	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	225	112	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	97.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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Analytical Results For:

NTG ENVIRONMENTAL BECKY HASKELL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 08/30/2024 Sampling Date: 08/29/2024

Reported: 09/05/2024 Sampling Type: Soil

Project Name: COTTON HILLS Sampling Condition: Cool & Intact
Project Number: 248738 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: CHEVRON - EDDY COUNTY

ma/ka

Sample ID: SW - 10 (H245313-07)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2024	ND	2.13	107	2.00	4.71	
Toluene*	<0.050	0.050	08/31/2024	ND	2.25	112	2.00	6.85	
Ethylbenzene*	<0.050	0.050	08/31/2024	ND	2.38	119	2.00	5.86	
Total Xylenes*	<0.150	0.150	08/31/2024	ND	6.73	112	6.00	5.19	
Total BTEX	<0.300	0.300	08/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/03/2024	ND	448	112	400	3.51	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	211	106	200	0.544	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	225	112	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

ANI LIYES LIYES	Correction Factor -0.6°C	No (No LI No LI No		
Bacteria (Turnaround Time: Standard Thermometer ID #140 2 4	dition CHECKED BY:	Sample Condition Cool Intact Pes Tyes	Observed Temp. °C Corrected Temp. °C	Delivered By: (Circle One) Sampler - UPS - Bus - Other:
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se provide Email address:	verbal Result:		Date: 8-30-20 Secented by:	Date: 8-30-2	Semiduished by.
1		uterital darnages, inclusing without imitation, cusiness interruptions, loss of use, or loss of profits incurred by o of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated re	ardinal, regardiess of whether such	nance	filliates or successors arising out of or related to the perform
	d by the client for the roompletion of the applicable	stract or tort, shall be limited to the amount paking and received by Cardinal within 30 days after	ny claim arsing whether based in con deemed waived unless made in writing	nalyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable	nalyses. All claims including those for negligon
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		Address:		056 Fax #:	Phone #: 452-924-8056
		Attn:	State: 1/M Zip: 88320	State: NM	city: Carisbad
		Company:		Mckey	Address: 269 W
		P.O. #:		in taske	Project Manager: Rec
ANALYSIS REQUEST		BILL TO		I/OE	Company Name:



September 17, 2024

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: COTTON HILLS

Enclosed are the results of analyses for samples received by the laboratory on 09/16/24 15:30.

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

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

NTG ENVIRONMENTAL **BECKY HASKELL** 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 09/16/2024 Sampling Date: 09/13/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: **COTTON HILLS** Sampling Condition: Cool & Intact Project Number: 249033 Sample Received By: Tamara Oldaker

Project Location: CHEVRON - EDDY COUNTY

Sample ID: C - 7 (H245623-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.17	108	2.00	5.65	
Toluene*	<0.050	0.050	09/17/2024	ND	2.07	103	2.00	6.26	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.06	103	2.00	6.84	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.16	103	6.00	7.27	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/17/2024	ND	416	104	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	194	96.9	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	199	99.7	200	8.63	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	77.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

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Analytical Results For:

NTG ENVIRONMENTAL **BECKY HASKELL** 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 09/16/2024 Sampling Date: 09/13/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: **COTTON HILLS** Sampling Condition: Cool & Intact Sample Received By: Project Number: 249033 Tamara Oldaker

CHEVRON - EDDY COUNTY Project Location:

Sample ID: SW - 2B (H245623-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.17	108	2.00	5.65	
Toluene*	<0.050	0.050	09/17/2024	ND	2.07	103	2.00	6.26	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.06	103	2.00	6.84	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.16	103	6.00	7.27	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/17/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	194	96.9	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	199	99.7	200	8.63	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	92.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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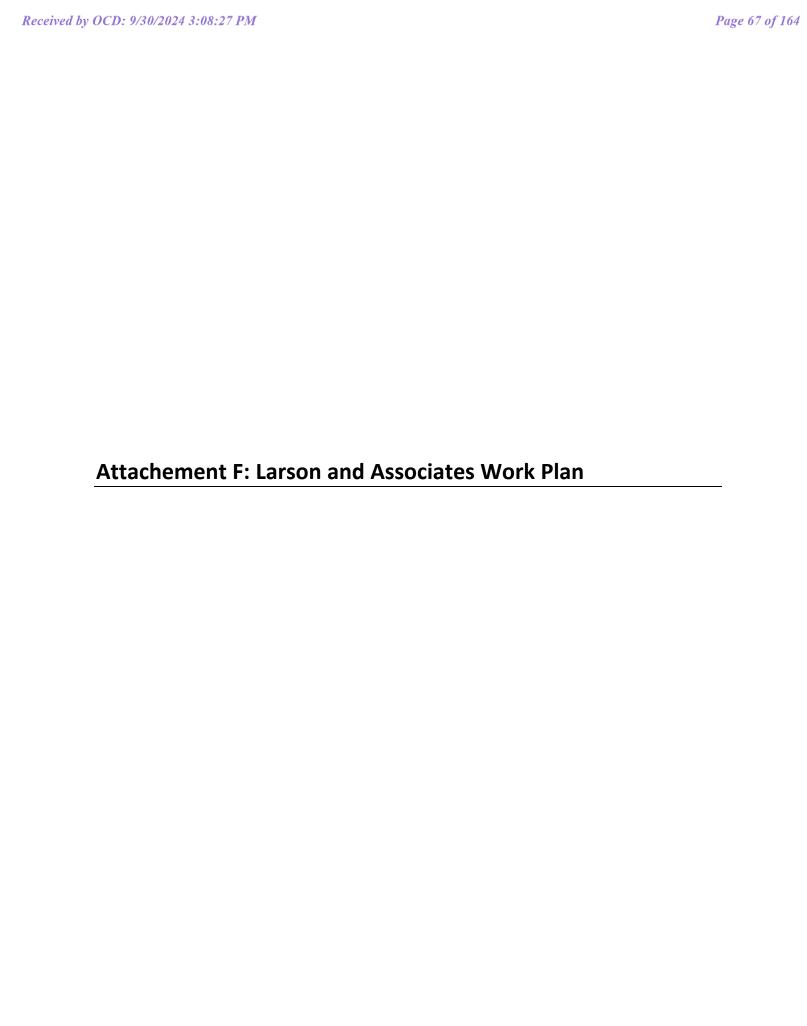
Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Bacteria (only) Sa Cool Intact	Rush 24 hes	Thermometer ID #140 Correction Factor -0.5°C	(Initials)	Cool Intact Yes Yes No No	200	Corrected Temp. °C 2. 3	Sampler - UPS - Bus - Other:	ampler - U
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		er completion of the applicable	ved by Cardinal within 30 days aft	unless made in writing and rece	be deemed waived	any other cause whatsoever shall if or consequental damages, inclu	service. In no event shall Cardinal be liable for incidental or consequental darrages, including without limitation brainbases interviews in the service in the event shall cardinal be liable for incidental or consequental darrages, including without limitation brainbases interviews to the event shall cardinal be liable for incidental or consequental darrages, including without limitation brainbases interviews.	rvice. In no ew
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ANALYSIS REDUEST	Α.	0	BILL TO			FT	NTI	0.
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Page 5 of 5



Tracking Number: nAPP2300450334 Amended Delineation Report and Remediation Plan Cotton Hills 23 26 27 Federal COM #001H Crude Oil and Produced Water Release Eddy County, New Mexico

Latitude: N 32.034322° Longitude: W -104.159295°

LAI Project No. 23-0102-01

December 11, 2023

Prepared for: Chevron USA Inc. 6301 Deauville Blvd. Midland, Texas 79706

Prepared by: Larson & Associates, Inc. 507 North Marienfeld Street, Suite 202 Midland, Texas 79701

Mark J. Larson, P.G. Certified Professional Geologist #10490 Robert Nelson Project Manager This Page Intentionally Left Blank

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Tracking Number: nAPP2300450334
Delineation Report and Remediation Plan
Chevron USA. Inc, Cotton Hills 23 26 27 Federal COM #001H
Crude Oil and Produced Water Release
December 11, 2023

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this amended delineation report and remediation plan on behalf of Chevron USA. Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (NMOCD) District 2 for a crude oil and produced water release at the Cotton Hills 23 26 27 Federal COM #001H (Site) located in Unit B (NW/NE), Section 23, Township 26 South, Range 27 East in Eddy County New Mexico. The geodetic position is North 32.034322° and West -104.159295°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release was discovered on December 25, 2022, due to a pinhole leak in a 3-inch ball valve resulting in the release of 11.43 barrels (bbls) of crude oil and 11.428 bbls of produced water, with no fluid recovered. On January 6, 2023, Chevron submitted the initial C-141 to the NMOCD District 2 and was assigned incident number nAPP2300450334. Appendix A presents Chevron initial C-141 and spill calculations.

1.1.1 NMOCD Communications

On November 21, 2023, Chevron received notification from the NMOCD regarding the report titled "Tracking Number: nAPP2300450334, Delineation Report and Remediation Plan, Cotton Hills 23 26 27 Federal COM #001H, Crude Oil and Produced Water Release, Eddy County, New Mexico, June 5, 2023" stating that the deferral request for contaminated soil adjacent to an aboveground pipeline riser was denied. The denial stated the following "Due to the shallow depth of groundwater and the presence of hydrcarbons, a deferral cannot be granted. A hydrovac/shovel would need to be used to safely remove the contaminated soil around equipment and pipelines. The release will need to be remediated to the strictest closure criteria limits (600 mg/Kg, Chlorides, 100 mg/Kg TPH, etc.). If you feel the depth to groundwater is >50', a shallow borehole can be drilled to 51' allowing for verification of the depth. If water is not visible after reaching bottom-hole and waiting 72 hours, the OCD will accept this as evidence. OCD would need the driller's log. Chevron has until 12/21/2023 to submit a revised remediation workplan". Appendix E presents the NMOCD communications.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,119 feet above mean sea level (msl).
- The surface topography gradually decreases to the southeast.
- There are no surface water features within 1,000 feet of the Site.
- Karst data provided by the USGS describes the Site as "Medium Risk" potential.
- The soils are designated as Reeves-Reagan loams, 0 to 3 percent slopes, consisting of 8 inches of loam, 24 inches of clay loam and 28 inches of gypsiferous material, in descending order.
- The surface geology is late Permian-aged Salado Formation consisting of evaporitic sequences
 predominantly controlled by halite deposition, and locally includes cover sand. Caliche material
 makes up the pad surface.

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Groundwater occurs at approximately 27.55 feet below ground surface (bgs) based on depth a
groundwater measurement in 2004 according to the USGS National Water Information System
website from a well located approximately 0.64 miles southwest of the Site.

Appendix B presents USGS data depicting karst risk potential map.

1.3 Remediation Standards

The following remediation standards are based on closure criteria for soils impacted by a release as presented in Table 1 of 19.15.29 NMAC:

•	Benzene	10 mg/Kg
•	BTEX	50 mg/Kg
•	TPH	100 mg/Kg
•	Chloride	600 mg/Kg

Further, 19.15.29.13 NMAC (Restoration, Reclamation and Re-Vegetation) requires the operator to restore the impacted surface area that existed prior to the release or their final land use.

2.0 DELINEATION

On February 9, 2023, LAI personnel used a stainless-steel hand auger to collect soil samples from five (5) locations inside of the spill area (S-1 through S-5) and in each cardinal direction (north, south, east, and west) outside of the spill (S-6 through S-9). The samples were collected from depths of approximately 0 - 0.5 and 0.5 - 1-foot bgs. The soil samples were delivered under chain of custody and preservation to Permian Basin Environmental Laboratories (PBEL), a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory, located in Midland, Texas, which analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C12), diesel range organics (>C12-C28) and oil range organics (>C28-C35) by EPA SW-846 Methods 8021B and 8015M, respectively and chloride, by EPA Method 300.

Benzene and BTEX were below the NMOCD remediation standards in Table 1 (19.15.29 NMAC) of 10 milligrams per kilogram (mg/Kg), and 50 mg/Kg, respectively. Chloride and TPH exceeded the NMOCD delineation limit of 600 mg/Kg and 100 mg/Kg, respectively, in the following samples:

Sample ID	Depth (Feet)	TPH (mg/Kg)	Chloride (mg/Kg)
S-2	0.5 - 1	112	609
S-3	0.5 - 1	55.9	3,740

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On April 3, 2023, LAI personnel used a Geoprobe® Model 7822DT direct push rig to further delineate sample locations S-2 and S-3. The samples were collected at one (1), three (3), five (5), and ten (10) feet bgs. PBEL analyzed the samples for BTEX, TPH and chloride. The laboratory results demonstrate the release was delineated according to the NMOCD remediation and closure requirements (19.15.29.12 NMAC Table 1) for groundwater less than 50 feet bgs. Figure 2 presents an aerial map showing the sample locations. Appendix C presents the laboratory reports. Appendix D presents the photographic documentation.

3.0 REVISED REMEDIATION PLAN

Chevron proposes the following remedial actions:

- Excavate soil from an area measuring approximately 957 square feet encompassing S-1, S-3, S-4, and S-5 to a depth of one (1) foot bgs.
- Excavate soil from an area measuring approximately 101 square feet encompassing S-2 to a depth of two (2) feet bgs.
- ➤ Hydrovac excavate soil from an area measuring approximately 275 encompassing above ground production equipment.
- Collect five (5) point composite bottom and sidewall confirmation soil samples every 200 square feet and analyze for BTEX, TPH and chloride to confirm concentrations below the NMOCD closure criteria in Table 1 (19.15.29 NMAC) for groundwater less than 50 feet bgs.
- Chevron will notify NMOCD through its online portal at least 48-hours prior to collecting final confirmation samples per NMOCD requirements. Backfill excavation with clean caliche assuming achievement of NMOCD remediation levels.
- Prepare report with photographs for submittal to NMOCD District 2.

Figure 3 presents the proposed excavation areas.

Tables

Table 1 Soil Sample Analytical Data Summary Chevron - Cotton Hills 23 26 27 Federal COM #001H Eddy County, New Mexico 32° 03' 03.60" N, 104° 09' 33.43" W

Page 1 of 2

Sample	Depth	Collection	Status	Benzene	BTEX	C6 - C12	C12 - C28	C28 - C35	TPH	Chloride
	(Feet)	Date		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Delineati	on Limit:			10	50				100	600
S-1	0 - 0.5	2/9/2023	In-Situ	<0.00202	0.00638	<49.8	1,070	<49.8	1,070	125
	0.5 - 1	2/9/2023	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	245
S-2	0 - 0.5	2/9/2023	In-Situ	<0.00200	0.00368	157.0	615.0	<49.9	772	267
	0.5 - 1	2/9/2023	In-Situ	<0.00201	<0.00402	<49.8	112	<49.8	112	609
	1	4/3/2023	In-Situ	0.00115	0.00230	<28.7	432	96	528	246
	3	4/3/2023	In-Situ	0.00128	0.00256	<32.1	<32.1	<32.1	<32.1	146
	5	4/3/2023	In-Situ	0.00123	0.00247	<30.9	<30.9	<30.9	<30.9	214
	10	4/3/2023	In-Situ	0.0012	0.00241	<30.1	<30.1	<30.1	<30.1	15
							•			
S-3	0 - 0.5	2/9/2023	In-Situ	<0.00202	0.812	650	1,850	<49.8	2,500	101
	0.5 - 1	2/9/2023	In-Situ	<0.00199	<0.00398	<49.9	55.9	<49.9	55.9	3,740
	1	4/3/2023	In-Situ	0.00112	0.00225	<28.1	<28.1	<28.1	<28.1	25.9
	3	4/3/2023	In-Situ	0.00125	0.0025	<31.2	<31.2	<31.2	<31.2	107
	5	4/3/2023	In-Situ	0.0012	0.00241	<30.1	<30.1	<30.1	<30.1	109
	10	4/3/2023	In-Situ	0.00118	0.00235	<29.4	<29.4	<29.4	<29.4	35.9
S-4	0 - 0.5	2/9/2023	In-Situ	<0.00199	0.464	242	895	<50.0	1,140	20.9
	0.5 - 1	2/9/2023	In-Situ	<0.00200	0.0106	<50.0	<50.0	<50.0	<50.0	248
S-5	0 - 0.5	2/9/2023	In-Situ	<0.00201	0.636	248	721	<49.9	969	91.1
	0.5 - 1	2/9/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	204
	0.05	2/0/2022	lin C''	10.00100	10.00206	140.0	.40.0	140.0	140.0	0.70
S-6	0 - 0.5	2/9/2023	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	9.78
	0.5 - 1	2/9/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	29.5
6.7	0.05	2/0/2022	In City	رم 00100	<0.00200	۲ <u>.</u> ۲. ۵	∠ E0.0	∠ E0.0	∠ F0.0	27.2
S-7	0 - 0.5	2/9/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	37.2

Table 1

Soil Sample Analytical Data Summary

Chevron - Cotton Hills 23 26 27 Federal COM #001H

Eddy County, New Mexico

32° 03' 03.60" N, 104° 09' 33.43" W

Page 2 of 2

Sample	Depth	Collection	Status	Benzene	BTEX	C6 - C12	C12 - C28	C28 - C35	TPH	Chloride
	(Feet)	Date		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Delineation Limit:			10	50				100	600	
	0.5 - 1	2/9/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	226
S-8	0 - 0.5	2/9/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	131
	0.5 - 1	2/9/2023	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	56.0
S-9	0 - 0.5	2/9/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	118
	0.5 - 1	2/9/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	191

Notes: Analysis performed byand Xenco Laboratories in Midland, Texas by EPA SW-846 8021B (BTEX), 8015M (TPH), and 300E (Chloride)

Depth in feet below ground surface (bgs)

mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)

<: denotes concentration less than analytical method reporting limit

Bold and Highlighted exceeds OCD remediation action limits

Figures

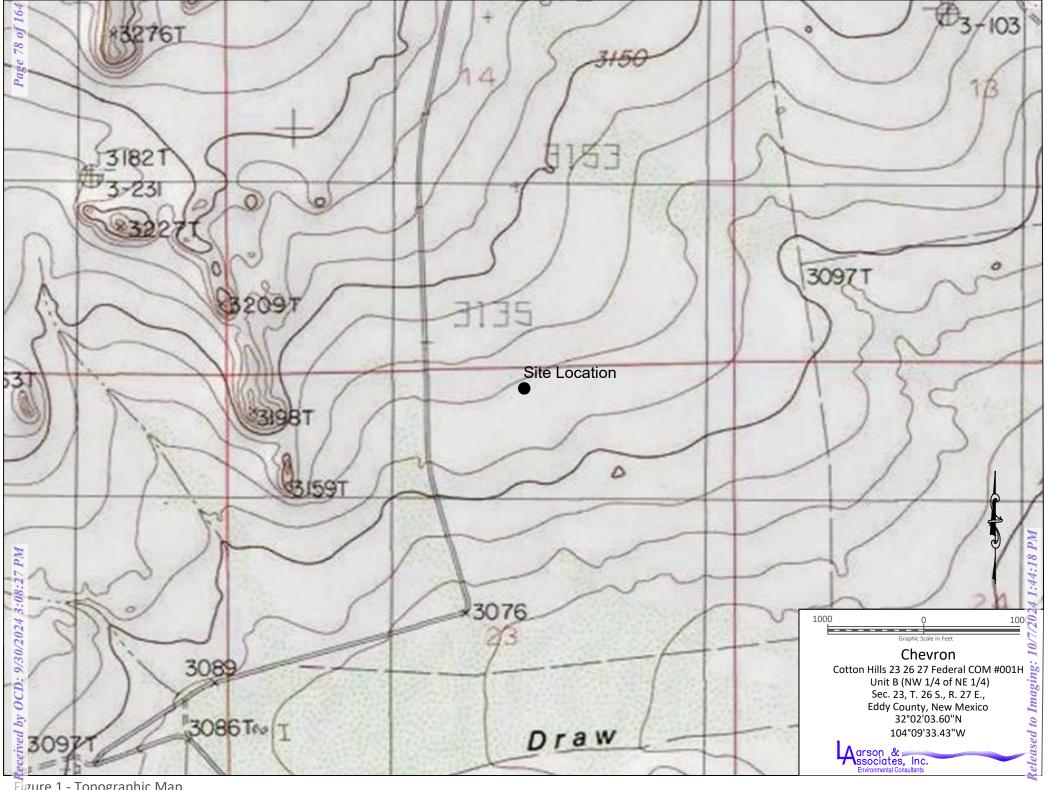


Figure 1 - Topographic Map

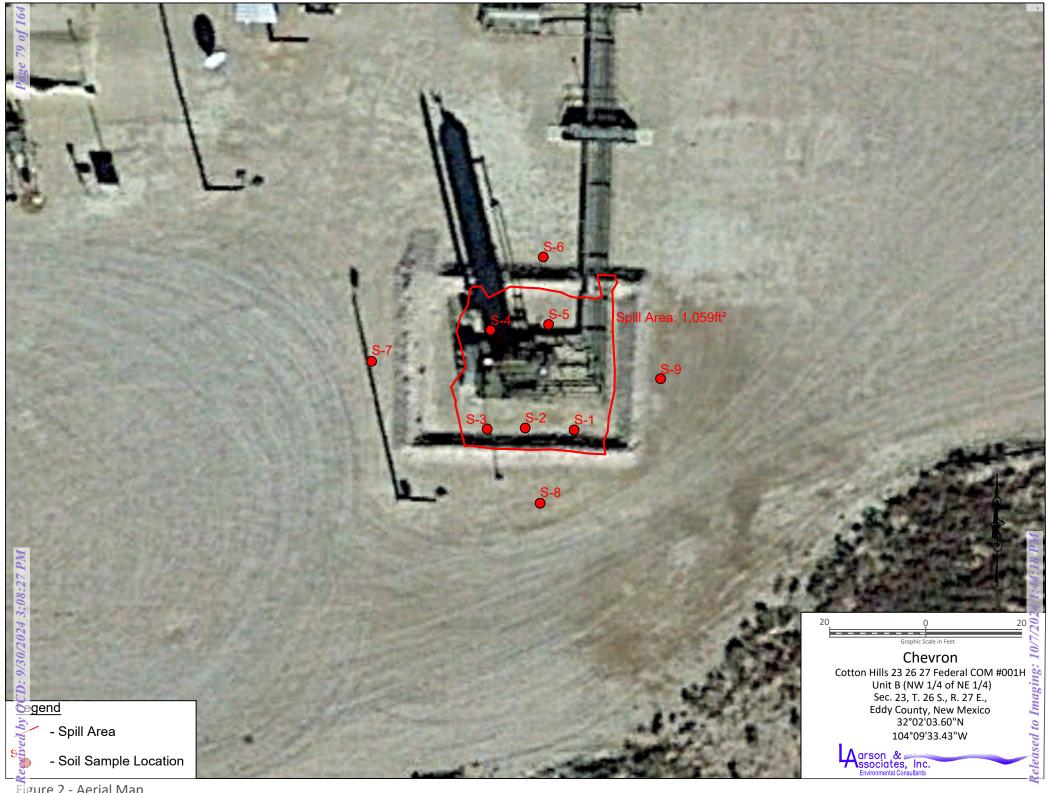


Figure 2 - Aerial Map



Figure 3 - Aerial Map Showing Proposed Excavation Locations



Figure 4 - Aerial Map Showing Proposed Hydrovac Area

Appendix A

Initial C-141 and Spill Calculation

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2300450334
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party: Chev	ron U.S.A., Inc.			OGRID: 4	4323		
Contact Nam	ne: Catherin	e Smith			Contact Te	Felephone: 432-967-9487		
Contact ema	il: catherine	smith@chevron.co	om		Incident # nAPP2300450334			
Contact mail	ing address:	6301 Deauville B	lvd Midland, TX	79706				
			Location	n of R	Release So	Source		
Latitude: 32.0	345573					: -104.1587753		
			(NAD 83 in d	lecimal de	grees to 5 decin	imal places)		
Site Name: C	OTTON HI	LLS 23 26 27 FEI	DERAL COM #0	01H	Site Type:	: Oil		
Date Release	Discovered	: 12/25/2022			API# (if app	pplicable): 30-015-41535		
Unit Letter	Section	Township	Range		Coun	net.		
B	23	26S	27E	Edd	County Eddy			
L	<u> </u>							
	Materia		Nature an	d Vo	lume of I	Release ic justification for the volumes provided below)		
Crude Oi	1	Volume Release	ed (bbls): 11.43 b	bls		Volume Recovered (bbls): 0 bbls		
Produced	Water	Volume Release	ed (bbls): 11.428	bbls		Volume Recovered (bbls): 0 bbls		
		Is the concentra produced water	tion of dissolved >10,000 mg/l?	chlorid	e in the	∑ Yes □ No		
Condensa	ate	Volume Release	ed (bbls)			Volume Recovered (bbls)		
Natural C	Gas	Volume Release	ed (Mcf)			Volume Recovered (Mcf)		
Other (de	escribe)	Volume/Weight	Released (providence)	de units)	Volume/Weight Recovered (provide units)		
Cause of Rel	ease:	. L						
Pinhole leak	in 3 inch ba	ll valve caused a r	elease of oil and	produce	ed water.			

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Incident ID	nAPP2300450334
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon	nsible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ⊠ No		
If YES, was immediate n	otice given to the OCD? By whom? To wl	nom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible	party must undertake the following actions immediated	y unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
	as been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain	why:
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
public health or the environ	ment. The acceptance of a C-141 report by the C	fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have
		at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.	•	
Printed Name:Catho	erine Smith	Title: _Lead Environmental Specialist, Field Support
Signature:		Date:1/4/2023
email:catherinesm	ith@chevron.com	Telephone:432-967-9487
OCD Only		
Received by:		Date:

Received by OCD: 9/30/2024 3:08:27 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

	rage os of 10
Incident ID	nAPP2300450334
District RP	
Facility ID	
Amplication ID	

Spill Calculations:

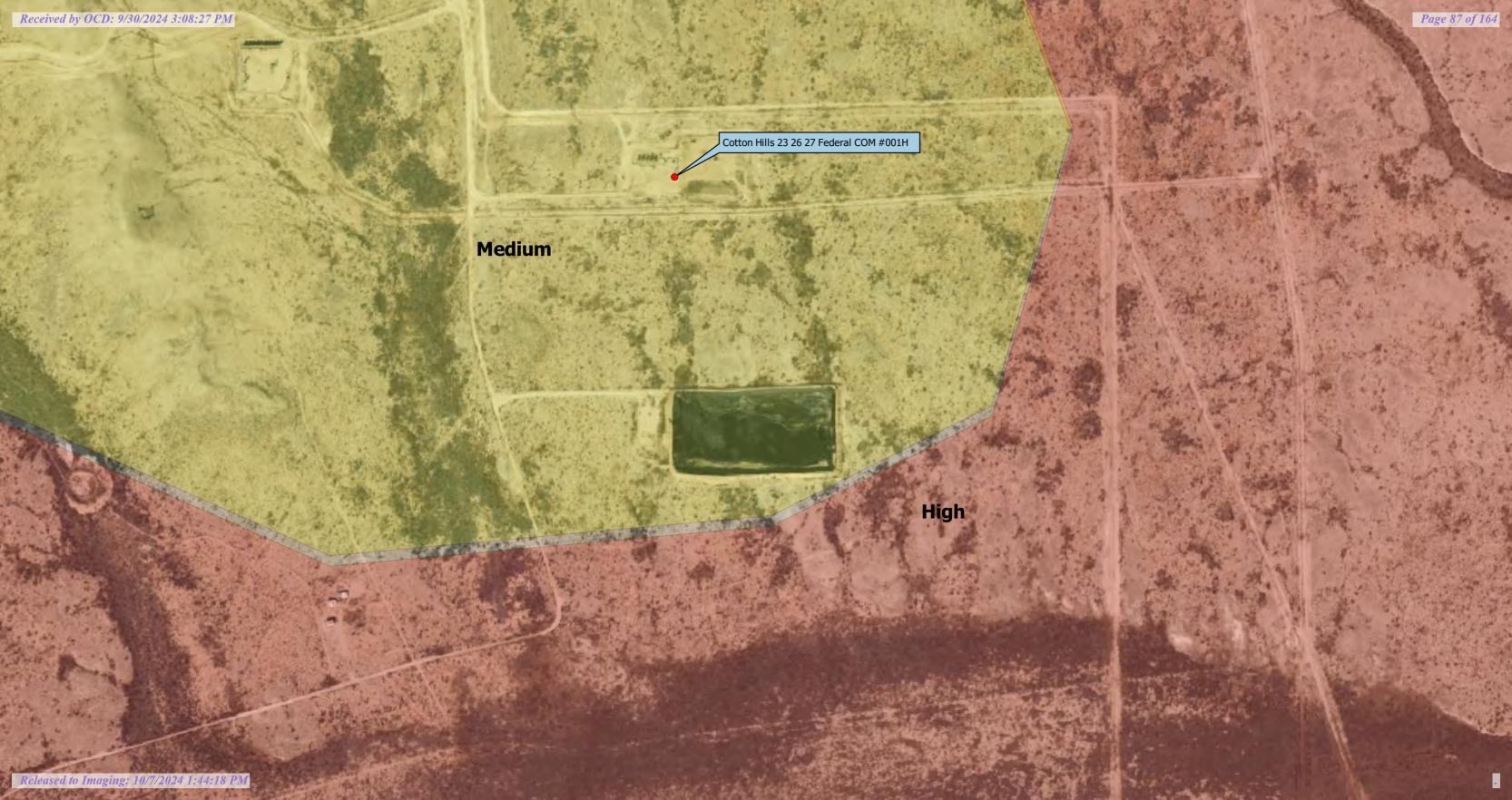
		Horizontal Dime	ensions	Vertical Dir	mensions	Calculated Volume			
				Abovegrade	Belowgrade				
	Diameter	Length (feet)	Width (feet)	Depth (feet)	Depth (feet)	Water Cut (%)	Barrels Water	Barrels Oil	
Area 1		7.5	6	0.02083	0.2083	50	0.208	0.209	
Area 2		28	18	0.2083	0.2083	50	10.753	10.753	
Area 3		9	8	0.0416	0.2083	50	0.467	0.468	
						Total	11.428	11.43	

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Appendix B

Karst Risk Potential



Appendix C

Laboratory Reports

PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: Cottom Hills 23 26 27
Project Number: 23-0102-01
Location:

Lab Order Number: 3D06002



Current Certification

Report Date: 04/17/23

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S2 @ 1'	3D06002-01	Soil	04/03/23 13:00	04-06-2023 09:04
S2 @ 3'	3D06002-02	Soil	04/03/23 13:15	04-06-2023 09:04
S2 @ 5'	3D06002-03	Soil	04/03/23 13:30	04-06-2023 09:04
S2 @ 10'	3D06002-04	Soil	04/03/23 13:45	04-06-2023 09:04
S3 @ 1'	3D06002-05	Soil	04/03/23 14:00	04-06-2023 09:04
S3 @ 3'	3D06002-06	Soil	04/03/23 14:15	04-06-2023 09:04
S3 @ 5'	3D06002-07	Soil	04/03/23 14:30	04-06-2023 09:04
S3 @ 10'	3D06002-08	Soil	04/03/23 14:45	04-06-2023 09:04

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

S2 @ 1' 3D06002-01 (Soil)

Amalarta		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian Ba	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00115	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 19:00	EPA 8021B	
Toluene	ND	0.00115	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 19:00	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 19:00	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 19:00	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 19:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		70.7 %	80-120		P3D1206	04/12/23 14:36	04/12/23 19:00	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		114 %	80-120		P3D1206	04/12/23 14:36	04/12/23 19:00	EPA 8021B	
Total Petroleum Hydrocarbons C6-	C35 by EPA	A Method	8015M						
C6-C12	ND	28.7	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 14:33	TPH 8015M	
>C12-C28	432	28.7	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 14:33	TPH 8015M	
>C28-C35	96.0	28.7	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 14:33	TPH 8015M	
Surrogate: 1-Chlorooctane		88.9 %	70-130		P3D1105	04/11/23 11:45	04/15/23 14:33	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-130		P3D1105	04/11/23 11:45	04/15/23 14:33	TPH 8015M	
Total Petroleum Hydrocarbon	528	28.7	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 14:33	calc	
C6-C35									
General Chemistry Parameters by 1	EPA / Stand	lard Met	hods						
Chloride	246	5.75	mg/kg dry	5	P3D0807	04/08/23 20:16	04/14/23 09:26	EPA 300.0	
% Moisture	13.0	0.1	%	1	P3D1002	04/10/23 10:53	04/10/23 11:09	ASTM D2216	

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

S2 @ 3' 3D06002-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian Ba	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00128	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 19:21	EPA 8021B	
Toluene	ND	0.00128	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 19:21	EPA 8021B	
Ethylbenzene	ND	0.00128	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 19:21	EPA 8021B	
Xylene (p/m)	ND	0.00256	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 19:21	EPA 8021B	
Xylene (o)	ND	0.00128	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 19:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		73.4 %	80-120		P3D1206	04/12/23 14:36	04/12/23 19:21	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		118 %	80-120		P3D1206	04/12/23 14:36	04/12/23 19:21	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EP	A Method	1 8015M						
C6-C12	ND	32.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 14:58	TPH 8015M	
>C12-C28	ND	32.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 14:58	TPH 8015M	
>C28-C35	ND	32.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 14:58	TPH 8015M	
Surrogate: 1-Chlorooctane		88.0 %	70-130		P3D1105	04/11/23 11:45	04/15/23 14:58	TPH 8015M	
Surrogate: o-Terphenyl		98.8 %	70-130		P3D1105	04/11/23 11:45	04/15/23 14:58	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	32.1	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 14:58	calc	
General Chemistry Parameters by	EPA / Stand	lard Met	hods						
Chloride	146	6.41	mg/kg dry	5	P3D0807	04/08/23 20:16	04/14/23 10:28	EPA 300.0	
% Moisture	22.0	0.1	%	1	P3D1002	04/10/23 10:53	04/10/23 11:09	ASTM D2216	

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

S2 @ 5' 3D06002-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian Ba	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00123	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 19:41	EPA 8021B	
Toluene	ND	0.00123	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 19:41	EPA 8021B	
Ethylbenzene	ND	0.00123	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 19:41	EPA 8021B	
Xylene (p/m)	ND	0.00247	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 19:41	EPA 8021B	
Xylene (o)	ND	0.00123	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 19:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		69.9 %	80-120		P3D1206	04/12/23 14:36	04/12/23 19:41	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	1,4-Difluorobenzene 119 %		80-120		P3D1206	04/12/23 14:36	04/12/23 19:41	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	ND	30.9	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 15:24	TPH 8015M	
>C12-C28	ND	30.9	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 15:24	TPH 8015M	
>C28-C35	ND	30.9	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 15:24	TPH 8015M	
Surrogate: 1-Chlorooctane		90.8 %	70-130		P3D1105	04/11/23 11:45	04/15/23 15:24	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P3D1105	04/11/23 11:45	04/15/23 15:24	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.9	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 15:24	calc	
General Chemistry Parameters by	EPA / Stand	ard Met	hods						
Chloride	214	6.17	mg/kg dry	5	P3D0807	04/08/23 20:16	04/14/23 10:48	EPA 300.0	
% Moisture	19.0	0.1	%	1	P3D1002	04/10/23 10:53	04/10/23 11:09	ASTM D2216	

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

S2 @ 10' 3D06002-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian Ba	asin Envi	ronmental I	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00120	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 20:01	EPA 8021B	
Toluene	ND	0.00120	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 20:01	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 20:01	EPA 8021B	
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 20:01	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 20:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		69.2 %	80-120		P3D1206	04/12/23 14:36	04/12/23 20:01	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		119 %	80-120		P3D1206	04/12/23 14:36	04/12/23 20:01	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EP	A Method	18015M						
C6-C12	ND	30.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 15:49	TPH 8015M	
>C12-C28	ND	30.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 15:49	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 15:49	TPH 8015M	
Surrogate: 1-Chlorooctane		89.5 %	70-130		P3D1105	04/11/23 11:45	04/15/23 15:49	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P3D1105	04/11/23 11:45	04/15/23 15:49	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.1	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 15:49	calc	
General Chemistry Parameters by	EPA / Stand	lard Met	hods						
Chloride	14.9	1.20	mg/kg dry	1	P3D0807	04/08/23 20:16	04/14/23 18:41	EPA 300.0	
% Moisture	17.0	0.1	%	1	P3D1002	04/10/23 10:53	04/10/23 11:09	ASTM D2216	

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

S3 @ 1' 3D06002-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian R	asin Envi	ronmental L	ah I.P	·		
BTEX by 8021B			Cimian Da	asiii iziivi	i omniciitai L	ab, 1			
Benzene	ND	0.00112	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 20:22	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 20:22	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 20:22	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 20:22	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 20:22	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		119 %	80-120		P3D1206	04/12/23 14:36	04/12/23 20:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		69.0 %	80-120		P3D1206	04/12/23 14:36	04/12/23 20:22	EPA 8021B	S-GC
Total Petroleum Hydrocarbons C6	C35 by FP	Mothod	2015M						
C6-C12	ND	28.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 16:14	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 16:14	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 16:14	TPH 8015M	
Surrogate: 1-Chlorooctane		91.1 %	70-130		P3D1105	04/11/23 11:45	04/15/23 16:14	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P3D1105	04/11/23 11:45	04/15/23 16:14	TPH 8015M	
Total Petroleum Hydrocarbon	ND	28.1	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 16:14	calc	
C6-C35									
General Chemistry Parameters by	EPA / Stand	lard Met	hods						
Chloride	25.9	1.12	mg/kg dry	1	P3D0807	04/08/23 20:16	04/14/23 19:01	EPA 300.0	
% Moisture	11.0	0.1	%	1	P3D1002	04/10/23 10:53	04/10/23 11:09	ASTM D2216	

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

S3 @ 3' 3D06002-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		D	oumion D	nain Envi	wan mantal I	•			
		r	егинан Ба	asın envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00125	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 20:42	EPA 8021B	
Toluene	ND	0.00125	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 20:42	EPA 8021B	
Ethylbenzene	ND	0.00125	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 20:42	EPA 8021B	
Xylene (p/m)	ND	0.00250	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 20:42	EPA 8021B	
Xylene (o)	ND	0.00125	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 20:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		67.0 %	80-120		P3D1206	04/12/23 14:36	04/12/23 20:42	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		118 %	80-120		P3D1206	04/12/23 14:36	04/12/23 20:42	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EP	A Method	8015M						
C6-C12	ND	31.2	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 16:39	TPH 8015M	
>C12-C28	ND	31.2	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 16:39	TPH 8015M	
>C28-C35	ND	31.2	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 16:39	TPH 8015M	
Surrogate: 1-Chlorooctane		92.2 %	70-130		P3D1105	04/11/23 11:45	04/15/23 16:39	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P3D1105	04/11/23 11:45	04/15/23 16:39	TPH 8015M	
Total Petroleum Hydrocarbon	ND	31.2	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 16:39	calc	
C6-C35									
General Chemistry Parameters by	EPA / Stand	lard Met	hods						
Chloride	107	6.25	mg/kg dry	5	P3D0807	04/08/23 20:16	04/14/23 11:50	EPA 300.0	
% Moisture	20.0	0.1	%	1	P3D1002	04/10/23 10:53	04/10/23 11:09	ASTM D2216	

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

S3 @ 5' 3D06002-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		n	ommion D	ada Envi	wan mantal I	•	<u> </u>		
		P	ermian Ba	asın Envi	ronmental L	ла р, L. P.			
BTEX by 8021B									
Benzene	ND	0.00120	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 21:43	EPA 8021B	
Toluene	ND	0.00120	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 21:43	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 21:43	EPA 8021B	
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 21:43	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 21:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		120 %	80-120		P3D1206	04/12/23 14:36	04/12/23 21:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		66.6 %	80-120		P3D1206	04/12/23 14:36	04/12/23 21:43	EPA 8021B	S-GC
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	1 8015M						
C6-C12	ND	30.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 17:05	TPH 8015M	
>C12-C28	ND	30.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 17:05	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 17:05	TPH 8015M	
Surrogate: 1-Chlorooctane		87.1 %	70-130		P3D1105	04/11/23 11:45	04/15/23 17:05	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-130		P3D1105	04/11/23 11:45	04/15/23 17:05	TPH 8015M	
Total Petroleum Hydrocarbon	ND	30.1	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 17:05	calc	
C6-C35									
General Chemistry Parameters by	EPA / Stand	lard Met	hods						
Chloride	109	6.02	mg/kg dry	5	P3D0807	04/08/23 20:16	04/14/23 12:10	EPA 300.0	
% Moisture	17.0	0.1	%	1	P3D1002	04/10/23 10:53	04/10/23 11:09	ASTM D2216	

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

S3 @ 10' 3D06002-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian Ba	asin Envi	ronmental L	ab, L.P.			_
BTEX by 8021B									
Benzene	ND	0.00118	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 22:03	EPA 8021B	
Toluene	ND	0.00118	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 22:03	EPA 8021B	
Ethylbenzene	ND	0.00118	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 22:03	EPA 8021B	
Xylene (p/m)	ND	0.00235	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 22:03	EPA 8021B	
Xylene (o)	ND	0.00118	mg/kg dry	1	P3D1206	04/12/23 14:36	04/12/23 22:03	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		119 %	80-120		P3D1206	04/12/23 14:36	04/12/23 22:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		61.9 %	80-120		P3D1206	04/12/23 14:36	04/12/23 22:03	EPA 8021B	S-GC
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	l 8015M						
C6-C12	ND	29.4	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 17:30	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 17:30	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P3D1105	04/11/23 11:45	04/15/23 17:30	TPH 8015M	
Surrogate: 1-Chlorooctane		82.3 %	70-130		P3D1105	04/11/23 11:45	04/15/23 17:30	TPH 8015M	
Surrogate: o-Terphenyl		98.8 %	70-130		P3D1105	04/11/23 11:45	04/15/23 17:30	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	04/11/23 11:45	04/15/23 17:30	calc	
General Chemistry Parameters by	EPA / Stand	lard Met	hods						
Chloride	35.9	1.18	mg/kg dry	1	P3D0807	04/08/23 20:16	04/14/23 19:22	EPA 300.0	
% Moisture	15.0	0.1	%	1	P3D1002	04/10/23 10:53	04/10/23 11:09	ASTM D2216	

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3D1206 - *** DEFAULT PREP ***										
LCS (P3D1206-BS1)				Prepared &	Analyzed:	04/12/23				
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120			
Xylene (p/m)	0.211	0.00200	"	0.200		105	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.133		"	0.120		111	80-120			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.2	80-120			
LCS Dup (P3D1206-BSD1)				Prepared &	Analyzed:	04/12/23				
Benzene	0.109	0.00100	mg/kg	0.100		109	80-120	3.52	20	
Toluene	0.105	0.00100	"	0.100		105	80-120	5.33	20	
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120	6.16	20	
Xylene (p/m)	0.199	0.00200	"	0.200		99.4	80-120	5.85	20	
Xylene (o)	0.101	0.00100	"	0.100		101	80-120	5.66	20	
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		84.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.134		"	0.120		111	80-120			
Calibration Blank (P3D1206-CCB1)				Prepared &	Analyzed:	04/12/23				
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.120		"							
Xylene (p/m)	0.120		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		84.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	80-120			
Calibration Blank (P3D1206-CCB2)				Prepared &	Analyzed:	04/12/23				
Benzene	0.00		ug/kg					<u> </u>		
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0730		"	0.120		60.8	80-120			S-GO
Surrogate: 1,4-Difluorobenzene	0.141		"	0.120		117	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	resur	Emin	Cinto	Ecver	resur	701CEC	Limits	МЪ	Emit	110103
Batch P3D1206 - *** DEFAULT PREP ***										
Calibration Blank (P3D1206-CCB3)			-	Prepared: 0	04/12/23 A1	nalyzed: 04	/13/23			
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		,,							
Xylene (p/m)	0.110		,,							
Xylene (o)	0.00									
Surrogate: 4-Bromofluorobenzene	0.0696		"	0.120		58.0	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.142		"	0.120		119	80-120			
Calibration Check (P3D1206-CCV1)				Prepared &	Analyzed:	04/12/23				
Benzene	0.102	0.00100	mg/kg	0.100		102	80-120			
Toluene	0.0919	0.00100	"	0.100		91.9	80-120			
Ethylbenzene	0.0871	0.00100	"	0.100		87.1	80-120			
Xylene (p/m)	0.172	0.00200	"	0.200		86.1	80-120			
Xylene (o)	0.0901	0.00100	"	0.100		90.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.0989		"	0.120		82.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			
Calibration Check (P3D1206-CCV2)				Prepared &	: Analyzed:	04/12/23				
Benzene	0.107	0.00100	mg/kg	0.100		107	80-120			
Toluene	0.0996	0.00100	"	0.100		99.6	80-120			
Ethylbenzene	0.0951	0.00100	"	0.100		95.1	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.5	80-120			
Xylene (o)	0.0971	0.00100	"	0.100		97.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.0756		"	0.120		63.0	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.143		"	0.120		119	75-125			
Calibration Check (P3D1206-CCV3)				Prepared: ()4/12/23 Aı	nalyzed: 04	/13/23			
Benzene	0.0887	0.00100	mg/kg	0.100		88.7	80-120			
Toluene	0.0909	0.00100	"	0.100		90.9	80-120			
Ethylbenzene	0.0890	0.00100	"	0.100		89.0	80-120			
Xylene (p/m)	0.167	0.00200	"	0.200		83.6	80-120			
Xylene (o)	0.0864	0.00100	"	0.100		86.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.142		"	0.120		118	75-125			
Surrogate: 4-Bromofluorobenzene	0.0737		"	0.120		61.4	75-125			S-GC

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting	Spike	Source		%REC		RPD	
Analyte	Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3D1206 - *** DEFAULT PREP ***									
Matrix Spike (P3D1206-MS1)	Sourc	Prepared: (04/12/23 A	nalyzed: 04	/13/23				
Benzene	0.0645	0.00115 mg/kg dry	0.115	ND	56.1	80-120			QM-05

Toluene	0.0666	0.00115 "	0.115	ND	57.9	80-120	25.0	20	OM-05
Benzene	0.0802	0.00115 mg/kg d	y 0.115	ND	69.8	80-120	21.8	20	QM-05
Matrix Spike Dup (P3D1206-MSD1)	Sour	ce: 3D06002-01	Prepared:	04/12/23 A	Analyzed: 04	4/13/23			
Surrogate: 4-Bromofluorobenzene	0.0813	"	0.138		58.9	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.162	"	0.138		118	80-120			
Xylene (o)	0.0318	0.00115 "	0.115	ND	27.7	80-120			QM-05
Xylene (p/m)	0.0640	0.00230 "	0.230	ND	27.9	80-120			QM-05
Ethylbenzene	0.0360	0.00115 "	0.115	ND	31.3	80-120			QM-05
Toluene	0.0518	0.00115 "	0.115	ND	45.1	80-120			QM-05
Delizente	0.00.2	orootto inging u	, 0.112	1.12	50.1	00 120			Q 05

Benzene	0.0802	0.00115	mg/kg dry	0.115	ND	69.8	80-120	21.8	20	QM-05
Toluene	0.0666	0.00115	"	0.115	ND	57.9	80-120	25.0	20	QM-05
Ethylbenzene	0.0474	0.00115	"	0.115	ND	41.3	80-120	27.4	20	QM-05
Xylene (p/m)	0.0839	0.00230	"	0.230	ND	36.5	80-120	26.8	20	QM-05
Xylene (o)	0.0419	0.00115	"	0.115	ND	36.5	80-120	27.3	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.0856		"	0.138		62.0	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.165		"	0.138		120	80-120			

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3D1105 - TX 1005										
Blank (P3D1105-BLK1)				Prepared: (04/11/23 A	nalyzed: 04	/15/23			
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	84.3		"	100		84.3	70-130			
Surrogate: o-Terphenyl	45.9		"	50.0		91.8	70-130			
LCS (P3D1105-BS1)				Prepared: (04/11/23 A	nalyzed: 04	/15/23			
C6-C12	946	25.0	mg/kg	1000		94.6	75-125			
>C12-C28	931	25.0	"	1000		93.1	75-125			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	57.1		"	50.0		114	70-130			
LCS Dup (P3D1105-BSD1)				Prepared: (04/11/23 A	nalyzed: 04	/15/23			
C6-C12	960	25.0	mg/kg	1000		96.0	75-125	1.39	20	
>C12-C28	913	25.0	"	1000		91.3	75-125	1.96	20	
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	53.2		"	50.0		106	70-130			
Calibration Check (P3D1105-CCV1)				Prepared: (04/11/23 A	nalyzed: 04	/15/23			
C6-C12	502	25.0	mg/kg	500		100	85-115			
>C12-C28	538	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	48.0		"	50.0		96.0	70-130			
Matrix Spike (P3D1105-MS1)	Sou	rce: 3D06018	3-12	Prepared: (04/11/23 A	nalyzed: 04	/15/23			
C6-C12	797	27.8	mg/kg dry	1110	ND	71.7	75-125			QM-03
>C12-C28	767	27.8	"	1110	ND	69.0	75-125			QM-05
Surrogate: 1-Chlorooctane	99.2		"	111		89.2	70-130			
Surrogate: o-Terphenyl	41.9		"	55.6		75.4	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch P3D1105 - TX 1005

Matrix Spike Dup (P3D1105-MSD1)	Source	Source: 3D06018-12		04/11/23 A	nalyzed: 04				
C6-C12	859	27.8 mg/kg dry	1110	ND	77.3	75-125	7.48	20	
>C12-C28	829	27.8 "	1110	ND	74.6	75-125	7.72	20	QM-05
Surrogate: 1-Chlorooctane	107	"	111		96.6	70-130			
Surrogate: o-Terphenyl	45.3	"	55.6		81.5	70-130			

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3D0807 - *** DEFAULT PREP ***										
Blank (P3D0807-BLK1)				Prepared: 0	4/08/23 At	nalyzed: 04				
Chloride	ND	1.00	mg/kg							
LCS (P3D0807-BS1)				Prepared: 04/08/23 Analyzed: 04/13/23						
Chloride	18.4		mg/kg	20.0		92.1	90-110			
LCS Dup (P3D0807-BSD1)				Prepared: 0	4/08/23 At	nalyzed: 04				
Chloride	18.6		mg/kg	20.0	·	93.2	90-110	1.13	10	
Calibration Check (P3D0807-CCV1)				Prepared: 0	4/08/23 At	nalyzed: 04	/13/23			
Chloride	18.5		mg/kg	20.0		92.5	90-110			
Calibration Check (P3D0807-CCV2)				Prepared: 0	4/08/23 At	nalyzed: 04				
Chloride	18.2		mg/kg	20.0		90.9	90-110			
Calibration Check (P3D0807-CCV3)				Prepared: 0	4/08/23 Aı	nalyzed: 04				
Chloride	18.1		mg/kg	20.0		90.4	90-110			
Matrix Spike (P3D0807-MS1)	Source: 3D06002-01			Prepared: 0	4/08/23 Aı	nalyzed: 04				
Chloride	112		mg/kg	100	4.28	108	80-120			
Matrix Spike (P3D0807-MS2)	Source: 3D06018-11		Prepared: 04/08/23 Analyzed: 04/14/23			/14/23				
Chloride	154		mg/kg	100	0.00	154	80-120			
Matrix Spike Dup (P3D0807-MSD1)	Source: 3D06002-01		Prepared: 04/08/23 Analyzed: 04/14/23			/14/23				
Chloride	114		mg/kg	100	4.28	110	80-120	1.69	20	
Matrix Spike Dup (P3D0807-MSD2)	Sour	rce: 3D06018-	-11	Prepared: 04/08/23 Analyzed: 04/14/23						
Chloride	155		mg/kg	100	0.00	155	80-120	0.665	20	

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3D1002 - *** DEFAULT PREP ***										
Blank (P3D1002-BLK1)				Prepared &	Analyzed:	04/10/23				
% Moisture	ND	0.1	%							
Blank (P3D1002-BLK2)				Prepared &						
% Moisture	ND	0.1	%							
Blank (P3D1002-BLK3)				Prepared & Analyzed: 04/10/23						
% Moisture	ND	0.1	%							
Blank (P3D1002-BLK4)				Prepared & Analyzed: 04/10/23						
% Moisture	ND	0.1	%							
Blank (P3D1002-BLK5)				Prepared & Analyzed: 04/10/23						
% Moisture	ND	0.1	%							
Duplicate (P3D1002-DUP1)	Sour	ce: 3D05009-	09	Prepared &	Analyzed:	04/10/23				
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P3D1002-DUP2)	Source: 3D05009-19			Prepared &	: Analyzed:	04/10/23				
% Moisture	7.0	0.1	%		8.0			13.3	20	
Duplicate (P3D1002-DUP3)	Source: 3D05009-34		Prepared & Analyzed: 04/10/23							
% Moisture	6.0	0.1	%	6.0				0.00	20	
Duplicate (P3D1002-DUP4)	Source: 3D05010-01		Prepared & Analyzed: 04/10/23							
% Moisture	2.0	0.1	%	-	2.0			0.00	20	
Duplicate (P3D1002-DUP5)	Sour	rce: 3D05016-	03	Prepared & Analyzed: 04/10/23						
% Moisture	2.0	0.1	%		2.0			0.00	20	

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Level Result %REC		Limits	RPD	Limit	Notes
Batch P3D1002 - *** DEFAULT PREP ***										
Duplicate (P3D1002-DUP6)	Source: 3D06001-03			Prepared & Analyzed: 04/10/23						
% Moisture	3.0	0.1	%	2.0				40.0	20	R
Duplicate (P3D1002-DUP7)	Source: 3D06004-01			Prepared &	: Analyzed:	04/10/23				
% Moisture	5.0	0.1	%	6.0				18.2	20	
Duplicate (P3D1002-DUP8)	Source: 3D06004-11		Prepared &	: Analyzed:	04/10/23					
% Moisture	9.0	0.1	%	8.0				11.8	20	

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

R The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were

within acceptance limits showing that the laboratory is in control and the data is acceptable.

NPBEL CC Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: Date: 4/1		
	7/2023	

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

P.O. Box 50685 Project Number: 23-0102-01 Midland TX, 79710 Project Manager: Mark Larson

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Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson Larson & Associates, Inc. 507 N Marienfeld Suite 202 Midland, Texas 79701

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JOB DESCRIPTION

Cotton Hills 23 26 27 Federal SDG NUMBER 23-0102-01

JOB NUMBER

880-24558-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

Authorization

Generated 2/19/2023 12:17:57 PM

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

Released to Imaging: 10/7/2024 1:44:18 PM

Client: Larson & Associates, Inc. Project/Site: Cotton Hills 23 26 27 Federal Laboratory Job ID: 880-24558-1 SDG: 23-0102-01

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-24558-1 Project/Site: Cotton Hills 23 26 27 Federal SDG: 23-0102-01

Qualifiers

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

GC Semi VOA

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

HPLC/IC

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

Glossary

DLC

EDL

LOD

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

MCL MDA MDC

LOQ Limit of Quantitation (DoD/DOE) EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Decision Level Concentration (Radiochemistry)

Method Detection Limit MDL MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present **PQL Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RLReporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.

Project/Site: Cotton Hills 23 26 27 Federal

Job ID: 880-24558-1 SDG: 23-0102-01

Job ID: 880-24558-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-24558-1

Receipt

The samples were received on 2/10/2023 8:37 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.9°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S1 0-0.5' (880-24558-1), S1 0.5'-1' (880-24558-2), S2 0-0.5' (880-24558-3), S2 0.5'-1' (880-24558-4), S3 0-0.5' (880-24558-5), S3 0.5'-1' (880-24558-6), S4 0-0.5' (880-24558-7), S4 0.5'-1' (880-24558-8), S5 0-0.5' (880-24558-9), S5 0.5'-1' (880-24558-10), S6 0-0.5' (880-24558-11), S6 0.5'-1' (880-24558-12), S7 0-0.5' (880-24558-14), S8 0-0.5' (880-24558-15), S8 0.5'-1' (880-24558-16), S9 0-0.5' (880-24558-17) and S9 0.5'-1' (880-24558-18).

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-46191 and analytical batch 880-46261 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S3 0-0.5' (880-24558-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S1 0.5'-1' (880-24558-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S4 0-0.5' (880-24558-7), S4 0.5'-1' (880-24558-8) and S5 0-0.5' (880-24558-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S9 0.5'-1' (880-24558-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S4 0.5'-1' (880-24558-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S8 0-0.5' (880-24558-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-46322 and analytical batch 880-46477 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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

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Project/Site: Cotton Hills 23 26 27 Federal

Job ID: 880-24558-1

SDG: 23-0102-01

Lab Sample ID: 880-24558-1

Matrix: Solid

Client Sample ID: S1 0-0.5'
Date Collected: 02/09/23 11:00

Date Received: 02/10/23 08:37

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/13/23 15:34	02/14/23 12:05	
Toluene	<0.00202	U	0.00202	mg/Kg		02/13/23 15:34	02/14/23 12:05	
Ethylbenzene	0.00430	F1	0.00202	mg/Kg		02/13/23 15:34	02/14/23 12:05	
m,p-Xylenes	<0.00403	U F1	0.00403	mg/Kg		02/13/23 15:34	02/14/23 12:05	
o-Xylene	0.00208	F1	0.00202	mg/Kg		02/13/23 15:34	02/14/23 12:05	
Xylenes, Total	<0.00403	U F1	0.00403	mg/Kg		02/13/23 15:34	02/14/23 12:05	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130			02/13/23 15:34	02/14/23 12:05	
1,4-Difluorobenzene (Surr)	104		70 - 130			02/13/23 15:34	02/14/23 12:05	
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.00638		0.00403	mg/Kg			02/14/23 16:05	
	•		•					
Method: SW846 8015 NM - Diese	•		•	Unit	D	Prenared	Analyzed	Dil Fa
Method: SW846 8015 NM - Dieso Analyte Total TPH	•	ics (DRO) (GC) RL 49.8	Unitmg/Kg	<u>D</u>	Prepared	Analyzed 02/19/23 11:53	Dil Fa
Analyte	Result		RL		<u>D</u>	Prepared		Dil Fa
Analyte	Result 1070	Qualifier	RL 49.8		<u>D</u>	Prepared		Dil Fa
Analyte Total TPH	Result 1070 sel Range Orga	Qualifier	RL 49.8		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result 1070 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.8	mg/Kg		<u> </u>	02/19/23 11:53	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	Result 1070 sel Range Orga Result <49.8	Qualifier nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8	mg/Kg Unit mg/Kg		Prepared 02/14/23 14:05	02/19/23 11:53 Analyzed 02/16/23 20:55	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 1070 sel Range Orga Result	Qualifier nics (DRO) Qualifier U	RL 49.8 (GC)	mg/Kg		Prepared	02/19/23 11:53 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 1070 sel Range Orga Result <49.8	Qualifier nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8	mg/Kg Unit mg/Kg		Prepared 02/14/23 14:05	02/19/23 11:53 Analyzed 02/16/23 20:55	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	Result 1070 Sel Range Orga Result <49.8 1070	Qualifier nics (DRO) Qualifier U F1	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05	02/19/23 11:53 Analyzed 02/16/23 20:55 02/16/23 20:55	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 1070	Qualifier nics (DRO) Qualifier U F1	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05 02/14/23 14:05	02/19/23 11:53 Analyzed 02/16/23 20:55 02/16/23 20:55	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr)	Result 1070	Qualifier nics (DRO) Qualifier U F1	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared	02/19/23 11:53 Analyzed 02/16/23 20:55 02/16/23 20:55 02/16/23 20:55 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070 1070	Qualifier nics (DRO) Qualifier U F1 U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared 02/14/23 14:05	02/19/23 11:53 Analyzed 02/16/23 20:55 02/16/23 20:55 Analyzed 02/16/23 20:55	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	Result 1070	Qualifier nics (DRO) Qualifier U F1 U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared 02/14/23 14:05	02/19/23 11:53 Analyzed 02/16/23 20:55 02/16/23 20:55 Analyzed 02/16/23 20:55	Dil Fac

Client Sample ID: S1 0.5'-1'

Date Collected: 02/09/23 11:15 Date Received: 02/10/23 08:37 Lab Sample ID: 880-24558-2

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/13/23 15:34	02/14/23 12:25	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/13/23 15:34	02/14/23 12:25	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/13/23 15:34	02/14/23 12:25	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		02/13/23 15:34	02/14/23 12:25	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/13/23 15:34	02/14/23 12:25	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/13/23 15:34	02/14/23 12:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			02/13/23 15:34	02/14/23 12:25	1
1.4-Difluorobenzene (Surr)	114		70 - 130			02/13/23 15:34	02/14/23 12:25	1

Client Sample Results

Client: Larson & Associates, Inc.

Client Sample ID: S1 0.5'-1'

Project/Site: Cotton Hills 23 26 27 Federal

Job ID: 880-24558-1 SDG: 23-0102-01

Lab Sample ID: 880-24558-2

Matrix: Solid

Date Collected: 02/09/23 11:15 Date Received: 02/10/23 08:37

Method: TAL SOP Total BTEX - Tot	tal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/14/23 16:05	1

M	ethod: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)					
Aı	nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
To	otal TPH	<50.0	U	50.0	mg/Kg			02/19/23 11:53	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/14/23 14:05	02/16/23 22:01	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/14/23 14:05	02/16/23 22:01	•
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/14/23 14:05	02/16/23 22:01	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane (Surr)	73	-	70 - 130			02/14/23 14:05	02/16/23 22:01	
o-Terphenyl (Surr)	77		70 - 130			02/14/23 14:05	02/16/23 22:01	

Method: EPA 300.0 - Anions, Ion Chr	omatograp	ohy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	245		5.02	mg/Kg			02/15/23 01:48	1

Client Sample ID: S2 0-0.5' Lab Sample ID: 880-24558-3 Date Collected: 02/09/23 11:30 **Matrix: Solid**

Date Received: 02/10/23 08:37

Released to Imaging: 10/7/2024 1:44:18 PM

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/13/23 15:34	02/14/23 12:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/13/23 15:34	02/14/23 12:46	1
Ethylbenzene	0.00440		0.00200	mg/Kg		02/13/23 15:34	02/14/23 12:46	1
m,p-Xylenes	0.0184		0.00399	mg/Kg		02/13/23 15:34	02/14/23 12:46	1
o-Xylene	0.0140		0.00200	mg/Kg		02/13/23 15:34	02/14/23 12:46	1
Xylenes, Total	0.0324		0.00399	mg/Kg		02/13/23 15:34	02/14/23 12:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			02/13/23 15:34	02/14/23 12:46	1
1,4-Difluorobenzene (Surr)	101		70 - 130			02/13/23 15:34	02/14/23 12:46	1
Method: TAL SOP Total BTEX	- Total BTEX Cald				_			
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	culation Qualifier	RL 0.00399	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/14/23 16:05	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies	- Total BTEX Calc Result 0.0368 sel Range Organ	Qualifier ics (DRO) (RL 0.00399	mg/Kg		Prepared	Analyzed 02/14/23 16:05	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	- Total BTEX Calc Result 0.0368 sel Range Organ Result	Qualifier	RL 0.00399 GC)	mg/Kg	<u>D</u>		Analyzed 02/14/23 16:05 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	- Total BTEX Calc Result 0.0368 sel Range Organ	Qualifier ics (DRO) (RL 0.00399	mg/Kg		Prepared	Analyzed 02/14/23 16:05	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH	- Total BTEX Calc Result 0.0368 sel Range Organ Result 772	Qualifier ics (DRO) (Qualifier	RL 0.00399 GC) RL 49.9	mg/Kg		Prepared	Analyzed 02/14/23 16:05 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Di	- Total BTEX Calc Result 0.0368 sel Range Organ Result 772 esel Range Orga	Qualifier ics (DRO) (Qualifier	RL 0.00399 GC) RL 49.9	mg/Kg		Prepared	Analyzed 02/14/23 16:05 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies	- Total BTEX Calc Result 0.0368 sel Range Organ Result 772 esel Range Orga	Qualifier ics (DRO) (Qualifier nics (DRO)	RL 0.00399 GC) RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 02/14/23 16:05 Analyzed 02/19/23 11:53	Dil Fac

Project/Site: Cotton Hills 23 26 27 Federal

Lab Sample ID: 880-24558-3

Matrix: Solid

Job ID: 880-24558-1

SDG: 23-0102-01

Date Collected: 02/09/23 11:30

Date Received: 02/10/23 08:37

Client Sample ID: S2 0-0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/14/23 14:05	02/16/23 22:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130			02/14/23 14:05	02/16/23 22:23	1
o-Terphenyl (Surr)	88		70 - 130			02/14/23 14:05	02/16/23 22:23	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		4.99	mg/Kg			02/15/23 01:53	1

Client Sample ID: S2 0.5'-1'

Date Collected: 02/09/23 11:45

Date Received: 02/10/23 08:37

ab Sample	ID:	880-2	24558-4
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Matrix: Solid

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/13/23 15:34	02/14/23 13:06	1
Toluene	0.00258		0.00201	mg/Kg		02/13/23 15:34	02/14/23 13:06	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/13/23 15:34	02/14/23 13:06	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		02/13/23 15:34	02/14/23 13:06	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/13/23 15:34	02/14/23 13:06	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/13/23 15:34	02/14/23 13:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			02/13/23 15:34	02/14/23 13:06	1
1,4-Difluorobenzene (Surr)	109		70 - 130			02/13/23 15:34	02/14/23 13:06	1

Method: TAL SOP Total BTEX - Total	BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/14/23 16:05	1

Method: SW846 8015 NM - Diesel F	Range Organics (DRO) (GO	C)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	112	49.8	mg/Kg			02/19/23 11:53	1
Method: SW846 8015B NM - Diese	Range Organics (DRO) (0	3C)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

el Range Orga	inics (DRO)	(GC)					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<49.8	U	49.8	mg/Kg		02/14/23 14:05	02/16/23 22:45	1
112		49.8	mg/Kg		02/14/23 14:05	02/16/23 22:45	1
<49.8	U	49.8	mg/Kg		02/14/23 14:05	02/16/23 22:45	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
86		70 - 130			02/14/23 14:05	02/16/23 22:45	1
89		70 - 130			02/14/23 14:05	02/16/23 22:45	1
	Result <49.8 112 <49.8 %Recovery 86	Result Qualifier	Result Qualifier RL	Result Qualifier RL Unit <49.8	Result Qualifier RL Unit mg/Kg D mg/Kg 112 49.8 mg/Kg <49.8	<49.8	Result Qualifier RL Unit mg/Kg D or Prepared Doc/14/23 14:05 Analyzed O2/16/23 22:45 112 49.8 mg/Kg 02/14/23 14:05 02/16/23 22:45 <49.8

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	609		5.05	mg/Kg			02/15/23 01:57	1

Eurofins Midland

2/19/2023

Project/Site: Cotton Hills 23 26 27 Federal

Client Sample ID: S3 0-0.5' Date Collected: 02/09/23 12:00 Date Received: 02/10/23 08:37

Job ID: 880-24558-1 SDG: 23-0102-01

Lab Sample ID: 880-24558-5

aIJ	Sample	ID.	000-24000-0
			Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/13/23 15:34	02/14/23 13:27	
Toluene	0.00787		0.00202	mg/Kg		02/13/23 15:34	02/14/23 13:27	•
Ethylbenzene	0.0577		0.00202	mg/Kg		02/13/23 15:34	02/14/23 13:27	•
m,p-Xylenes	0.532		0.00404	mg/Kg		02/13/23 15:34	02/14/23 13:27	1
o-Xylene	0.214		0.00202	mg/Kg		02/13/23 15:34	02/14/23 13:27	
Xylenes, Total	0.746		0.00404	mg/Kg		02/13/23 15:34	02/14/23 13:27	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	172	S1+	70 - 130			02/13/23 15:34	02/14/23 13:27	
1,4-Difluorobenzene (Surr)	91		70 - 130			02/13/23 15:34	02/14/23 13:27	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.812		0.00404	mg/Kg			02/14/23 16:05	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	
• •								Dil Fac
Total TPH	2500		49.8	mg/Kg			02/19/23 11:53	1
- -	sel Range Orga			mg/Kg				1
: Method: SW846 8015B NM - Die: Analyte	sel Range Orga	nics (DRO) Qualifier		Unit		Prepared		
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga		(GC)		<u>D</u>	Prepared 02/14/23 14:05	02/19/23 11:53	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result		(GC)	Unit	<u>D</u>	<u>.</u>	02/19/23 11:53 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte	sel Range Orga Result 650		(GC) RL 49.8	<mark>Unit</mark> mg/Kg	<u>D</u>	02/14/23 14:05	02/19/23 11:53 Analyzed 02/16/23 23:07	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result 650	Qualifier	(GC) RL 49.8	<mark>Unit</mark> mg/Kg	<u>D</u>	02/14/23 14:05	02/19/23 11:53 Analyzed 02/16/23 23:07	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result 650	Qualifier U	(GC) RL 49.8	unit mg/Kg mg/Kg	<u>D</u>	02/14/23 14:05	02/19/23 11:53 Analyzed 02/16/23 23:07 02/16/23 23:07	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result 650 1850 <49.8	Qualifier U	(GC) RL 49.8 49.8 49.8	unit mg/Kg mg/Kg	<u>D</u>	02/14/23 14:05 02/14/23 14:05 02/14/23 14:05	02/19/23 11:53 Analyzed 02/16/23 23:07 02/16/23 23:07	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	sel Range Orga Result 650 1850 <49.8 %Recovery	Qualifier U	(GC) RL 49.8 49.8 49.8 Limits	unit mg/Kg mg/Kg	<u>D</u>	02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared	02/19/23 11:53 Analyzed 02/16/23 23:07 02/16/23 23:07 02/16/23 23:07 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr)	sel Range Orga Result 650 1850 <49.8	Qualifier U Qualifier	RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	unit mg/Kg mg/Kg	<u>D</u>	02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared 02/14/23 14:05	02/19/23 11:53 Analyzed 02/16/23 23:07 02/16/23 23:07 Analyzed 02/16/23 23:07	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	Sel Range Orga Result	Qualifier U Qualifier	RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	unit mg/Kg mg/Kg	<u>D</u>	02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared 02/14/23 14:05	02/19/23 11:53 Analyzed 02/16/23 23:07 02/16/23 23:07 Analyzed 02/16/23 23:07	1

Client Sample ID: S3 0.5'-1' Lab Sample ID: 880-24558-6 Date Collected: 02/09/23 12:15 **Matrix: Solid**

Date Received: 02/10/23 08:37

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 13:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 13:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 13:47	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/13/23 15:34	02/14/23 13:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 13:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/13/23 15:34	02/14/23 13:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			02/13/23 15:34	02/14/23 13:47	1
1,4-Difluorobenzene (Surr)	109		70 - 130			02/13/23 15:34	02/14/23 13:47	1

Project/Site: Cotton Hills 23 26 27 Federal

Job ID: 880-24558-1

SDG: 23-0102-01

Client Sample ID: S3 0.5'-1'

Date Collected: 02/09/23 12:15 Date Received: 02/10/23 08:37

Lab Sample ID: 880-24558-6

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/14/23 16:05	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.9		49.9	mg/Kg			02/19/23 11:53	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		02/14/23 14:05	02/16/23 23:30	1
(GRO)-C6-C10								
Diesel Range Organics (Over	55.9		49.9	mg/Kg		02/14/23 14:05	02/16/23 23:30	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/14/23 14:05	02/16/23 23:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			02/14/23 14:05	02/16/23 23:30	1
o-Terphenyl (Surr)	84		70 - 130			02/14/23 14:05	02/16/23 23:30	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3740		50.0	mg/Kg			02/15/23 02:16	10

Client Sample ID: S4 0-0.5' Lab Sample ID: 880-24558-7 Date Collected: 02/09/23 12:30 **Matrix: Solid**

Date Received: 02/10/23 08:37

Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier Analyte RL Unit D Prepared Analyzed Dil Fac Benzene <0.00199 U 0.00199 02/13/23 15:34 02/14/23 14:07 mg/Kg 0.00199 02/13/23 15:34 02/14/23 14:07 **Toluene** 0.0169 mg/Kg 02/13/23 15:34 02/14/23 14:07 Ethylbenzene 0.0338 0.00199 mg/Kg m,p-Xylenes 0.312 0.00398 mg/Kg 02/13/23 15:34 02/14/23 14:07 o-Xylene 0.101 0.00199 mg/Kg 02/13/23 15:34 02/14/23 14:07 0.00398 02/13/23 15:34 02/14/23 14:07 0.413 mg/Kg **Xylenes, Total** %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 70 - 130 02/13/23 15:34 02/14/23 14:07 4-Bromofluorobenzene (Surr) 93 1,4-Difluorobenzene (Surr) 68 S1-70 - 130 02/13/23 15:34 02/14/23 14:07 **Method: TAL SOP Total BTEX - Total BTEX Calculation** Analyte Result Qualifier D RL Unit Prepared Analyzed Dil Fac

Method: SW846 8015 NM - Diesel F	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1140		50.0	mg/Kg			02/19/23 11:53	1

0.00398

mg/Kg

0.464

Method: SW846 8015B NM - Dies	sel Range Organ	nics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	242		50.0	mg/Kg	_	02/14/23 14:05	02/16/23 23:52	1
Diesel Range Organics (Over C10-C28)	895		50.0	mg/Kg		02/14/23 14:05	02/16/23 23:52	1

Eurofins Midland

02/14/23 16:05

Released to Imaging: 10/7/2024 1:44:18 PM

Total BTEX

Client: Larson & Associates, Inc. Project/Site: Cotton Hills 23 26 27 Federal

Client Sample ID: S4 0-0 5'

Lab Sample ID: 880-24558-7

Matrix: Solid

Chefft Sample	e ID. 34	0-0.5
Date Collected:	02/09/23	12:30

Date Received: 02/10/23 08:37

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/14/23 14:05	02/16/23 23:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			02/14/23 14:05	02/16/23 23:52	1
o-Terphenyl (Surr)	87		70 - 130			02/14/23 14:05	02/16/23 23:52	1

Method: EPA 300.0 - Anions, Ion Cl	hromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.9	5.00	mg/Kg			02/15/23 02:20	1

Client Sample ID: S4 0.5'-1'

Date Collected: 02/09/23 12:45 Date Received: 02/10/23 08:37

Lab Sample ID: 880-24558-8

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/13/23 15:34	02/14/23 14:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/13/23 15:34	02/14/23 14:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/13/23 15:34	02/14/23 14:28	1
m,p-Xylenes	0.00587		0.00399	mg/Kg		02/13/23 15:34	02/14/23 14:28	1
o-Xylene	0.00475		0.00200	mg/Kg		02/13/23 15:34	02/14/23 14:28	1
Xylenes, Total	0.0106		0.00399	mg/Kg		02/13/23 15:34	02/14/23 14:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			02/13/23 15:34	02/14/23 14:28	1
1,4-Difluorobenzene (Surr)	110		70 - 130			02/13/23 15:34	02/14/23 14:28	1

Method: TAL SOP Total BTEX - Total BT	EX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0106		0.00399	mg/Kg			02/14/23 16:05	1

	Method: SW846 8015 NM - Diesel F	Range Organi	ics (DRO) (G	C)					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<50.0	U	50.0	mg/Kg			02/19/23 11:53	1
Ì	_								

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/14/23 14:05	02/17/23 00:15	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/14/23 14:05	02/17/23 00:15	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/14/23 14:05	02/17/23 00:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	69	S1-	70 - 130			02/14/23 14:05	02/17/23 00:15	1
o-Terphenyl (Surr)	74		70 - 130			02/14/23 14:05	02/17/23 00:15	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228		5.03	mg/Kg			02/15/23 02:25	1

Client Sample Results

Client: Larson & Associates, Inc.

Project/Site: Cotton Hills 23 26 27 Federal

SDG: 23-0102-01

Job ID: 880-24558-1

Client Sample ID: S5 0-0.5'

Date Collected: 02/09/23 13:00 Date Received: 02/10/23 08:37

Lab Sample ID: 880-24558-9 Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/13/23 15:34	02/14/23 14:48	1
Toluene	0.0159		0.00201	mg/Kg		02/13/23 15:34	02/14/23 14:48	1
Ethylbenzene	0.0387		0.00201	mg/Kg		02/13/23 15:34	02/14/23 14:48	1
m,p-Xylenes	0.417		0.00402	mg/Kg		02/13/23 15:34	02/14/23 14:48	1
o-Xylene	0.164		0.00201	mg/Kg		02/13/23 15:34	02/14/23 14:48	1
Xylenes, Total	0.581		0.00402	mg/Kg		02/13/23 15:34	02/14/23 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			02/13/23 15:34	02/14/23 14:48	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130			02/13/23 15:34	02/14/23 14:48	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
T. C. LOTEV	0.636		0.00402	mg/Kg			02/14/23 16:05	1
Total BTEX	0.030		0.00402	mg/rtg			02/11/20 10:00	
		ice (DBO) (mg/Ng			02/11/20 10:00	
Method: SW846 8015 NM - Diese Analyte	el Range Organ	ics (DRO) (Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese	el Range Organ		GC)		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result 969	Qualifier	GC) RL 49.9	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result 969 sel Range Orga	Qualifier nics (DRO)	RL 49.9 (GC)	Unit mg/Kg		· · ·	Analyzed 02/19/23 11:53	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	el Range Organ Result 969 sel Range Orga Result	Qualifier	GC) RL 49.9 (GC) RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/19/23 11:53 Analyzed	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result 969 sel Range Orga	Qualifier nics (DRO)	RL 49.9 (GC)	Unit mg/Kg		· · ·	Analyzed 02/19/23 11:53	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result 969 sel Range Orga Result 248	Qualifier nics (DRO)	GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 02/14/23 14:05	Analyzed 02/19/23 11:53 Analyzed 02/17/23 00:37	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result 969 sel Range Orga Result	Qualifier nics (DRO)	GC) RL 49.9 (GC) RL	Unit mg/Kg		Prepared	Analyzed 02/19/23 11:53 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result 969 sel Range Orga Result 248	Qualifier nics (DRO) Qualifier	GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 02/14/23 14:05	Analyzed 02/19/23 11:53 Analyzed 02/17/23 00:37	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 969 sel Range Orga Result 248 721	Qualifier nics (DRO) Qualifier	GC) RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05	Analyzed 02/19/23 11:53 Analyzed 02/17/23 00:37 02/17/23 00:37	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Organ Result 969 sel Range Orga Result 248 721 <49.9	Qualifier nics (DRO) Qualifier	GC) RL 49.9 (GC) RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05 02/14/23 14:05	Analyzed 02/19/23 11:53 Analyzed 02/17/23 00:37 02/17/23 00:37	Dil Face 1 1 1 Dil Face
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	sel Range Organ Result 969 sel Range Orga Result 248 721 <49.9	Qualifier nics (DRO) Qualifier	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared	Analyzed 02/19/23 11:53 Analyzed 02/17/23 00:37 02/17/23 00:37 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr)	sel Range Organ Result 969 sel Range Orga Result 248 721 <49.9 **Recovery** 86 84	Qualifier nics (DRO) Qualifier U Qualifier	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared 02/14/23 14:05	Analyzed 02/19/23 11:53 Analyzed 02/17/23 00:37 02/17/23 00:37 Analyzed 02/17/23 00:37	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	sel Range Organ Result 969 sel Range Orga Result 248 721 <49.9 %Recovery 86 84 a Chromatograp	Qualifier nics (DRO) Qualifier U Qualifier	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared 02/14/23 14:05	Analyzed 02/19/23 11:53 Analyzed 02/17/23 00:37 02/17/23 00:37 Analyzed 02/17/23 00:37	Dil Fac

Client Sample ID: S5 0.5'-1' Lab Sample ID: 880-24558-10 Date Collected: 02/09/23 13:15 **Matrix: Solid**

Date Received: 02/10/23 08:37

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 15:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 15:09	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 15:09	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/13/23 15:34	02/14/23 15:09	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 15:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/13/23 15:34	02/14/23 15:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			02/13/23 15:34	02/14/23 15:09	1
1,4-Difluorobenzene (Surr)	104		70 - 130			02/13/23 15:34	02/14/23 15:09	1

Project/Site: Cotton Hills 23 26 27 Federal

Job ID: 880-24558-1

SDG: 23-0102-01

Client Sample ID: S5 0.5'-1'

Date Collected: 02/09/23 13:15 Date Received: 02/10/23 08:37

Lab Sample ID: 880-24558-10

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/14/23 16:05	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/19/23 11:53	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		02/14/23 14:05	02/17/23 01:00	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		02/14/23 14:05	02/17/23 01:00	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/14/23 14:05	02/17/23 01:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130			02/14/23 14:05	02/17/23 01:00	
o-Terphenyl (Surr)	89		70 - 130			02/14/23 14:05	02/17/23 01:00	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hv - Solubl	e					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	204		4.98	mg/Kg			02/15/23 02:34	

Client Sample ID: S6 0-0.5'

Date Collected: 02/09/23 13:30

Date Received: 02/10/23 08:37

Lab Sample	ID:	880-24558-11
		Matrice Calid

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/13/23 15:34	02/14/23 16:59	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/13/23 15:34	02/14/23 16:59	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/13/23 15:34	02/14/23 16:59	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		02/13/23 15:34	02/14/23 16:59	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/13/23 15:34	02/14/23 16:59	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/13/23 15:34	02/14/23 16:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			02/13/23 15:34	02/14/23 16:59	1
1,4-Difluorobenzene (Surr)	106		70 - 130			02/13/23 15:34	02/14/23 16:59	1
Method: TAL SOP Total BTEX Analyte	Result	Qualifier	RL	Unit ma/Ka	<u>D</u>	Prepared	Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX	Result <0.00396	Qualifier U	0.00396	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/15/23 10:05	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	Result <0.00396	Qualifier U	0.00396 GC)	mg/Kg			02/15/23 10:05	1
Method: TAL SOP Total BTEX Analyte Total BTEX	Result <0.00396	Qualifier U ics (DRO) (Comparison of the property of the prope	0.00396		<u>D</u>	Prepared Prepared		
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	Result <0.00396 See Range Organ Result <49.9 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U unics (DRO)	0.00396 GC) RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	02/15/23 10:05 Analyzed 02/19/23 11:53	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte	Result <0.00396 See Range Organ Result <49.9 iesel Range Orga Result	Qualifier U ics (DRO) (Qualifier U inics (DRO) Qualifier	0.00396 GC) RL 49.9 (GC) RL	mg/Kg Unit mg/Kg Unit		Prepared Prepared	02/15/23 10:05 Analyzed 02/19/23 11:53 Analyzed	Dil Fac Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	Result <0.00396 See Range Organ Result <49.9 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U inics (DRO) Qualifier	0.00396 GC) RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	02/15/23 10:05 Analyzed 02/19/23 11:53	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	Result <0.00396 See Range Organ Result <49.9 iesel Range Orga Result	Qualifier U ics (DRO) (Qualifier U inics (DRO) Qualifier U	0.00396 GC) RL 49.9 (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	02/15/23 10:05 Analyzed 02/19/23 11:53 Analyzed	Dil Fac Dil Fac

Job ID: 880-24558-1

Client: Larson & Associates, Inc. Project/Site: Cotton Hills 23 26 27 Federal SDG: 23-0102-01

Client Sample ID: S6 0-0.5'

Date Collected: 02/09/23 13:30 Date Received: 02/10/23 08:37

Lab Sample ID: 880-24558-11

Matrix: Solid

Method: SW846 8015B NM - Dies	el Range Orga	inics (DRO)	(GC) (Continued)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/14/23 14:05	02/17/23 01:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			02/14/23 14:05	02/17/23 01:45	1
o-Terphenyl (Surr)	85		70 - 130			02/14/23 14:05	02/17/23 01:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed 4.96 02/15/23 02:39 Chloride 9.78 mg/Kg

Client Sample ID: S6 0.5'-1'

Date Collected: 02/09/23 13:45 Date Received: 02/10/23 08:37

Lab Sample ID: 880-24558-12

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 02/13/23 15:34 02/14/23 17:19 mg/Kg Toluene <0.00200 U 0.00200 02/13/23 15:34 02/14/23 17:19 mg/Kg Ethylbenzene <0.00200 U 0.00200 02/13/23 15:34 02/14/23 17:19 mg/Kg m,p-Xylenes 0.00401 02/13/23 15:34 02/14/23 17:19 <0.00401 U mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 02/13/23 15:34 02/14/23 17:19 Xylenes, Total <0.00401 U 0.00401 mg/Kg 02/13/23 15:34 02/14/23 17:19 Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 127 70 - 130 02/13/23 15:34 02/14/23 17:19 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 113 70 - 130 02/13/23 15:34 02/14/23 17:19

Method: TAL SOP Total BTEX - Tot	al BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/15/23 10:05	1

Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (G0	C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/19/23 11:53	1

_	-00.0	Ü	00.0	mg/rtg			02/10/20 11:00	•
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/14/23 14:05	02/17/23 02:07	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/14/23 14:05	02/17/23 02:07	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/14/23 14:05	02/17/23 02:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			02/14/23 14:05	02/17/23 02:07	1
o-Terphenyl (Surr)	91		70 - 130			02/14/23 14:05	02/17/23 02:07	1

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.5	4.96	mg/Kg			02/15/23 02:53	1

Client Sample Results

Client: Larson & Associates, Inc.

Project/Site: Cotton Hills 23 26 27 Federal

Lab Sample ID: 880-24558-13

Matrix: Solid

Job ID: 880-24558-1

SDG: 23-0102-01

Client Sample ID: S7 0-0.5' Date Collected: 02/09/23 14:00

Date Received: 02/10/23 08:37

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 17:39	1
Toluene	< 0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 17:39	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 17:39	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/13/23 15:34	02/14/23 17:39	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 17:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/13/23 15:34	02/14/23 17:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			02/13/23 15:34	02/14/23 17:39	1
1,4-Difluorobenzene (Surr)	110		70 - 130			02/13/23 15:34	02/14/23 17:39	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/15/23 10:05	1
	i Kange Organ	ics (DKO) (GC)					
Method: SW846 8015 NM - Diese	•	. , ,	•	Unit	П	Bronarod	Analyzod	Dil Eas
Analyte Total TPH	•	Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/19/23 11:53	Dil Fac
Analyte	Result	Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result <50.0	Qualifier U	RL 50.0		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result <50.0	Qualifier U	RL 50.0		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0	Qualifier Unics (DRO) Qualifier	RL 50.0	mg/Kg			02/19/23 11:53	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0 sel Range Orga Result	Qualifier U unics (DRO) Qualifier U	RL 50.0 (GC)	mg/Kg		Prepared	02/19/23 11:53 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result sel Range Orga Result <50.0	Qualifier U unics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg		Prepared 02/14/23 14:05	02/19/23 11:53 Analyzed 02/17/23 02:30	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result sel Range Orga Result <50.0	Qualifier U unics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/14/23 14:05	02/19/23 11:53 Analyzed 02/17/23 02:30	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U unics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared	02/19/23 11:53 Analyzed 02/17/23 02:30 02/17/23 02:30 02/17/23 02:30 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U unics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05 02/14/23 14:05	02/19/23 11:53 Analyzed 02/17/23 02:30 02/17/23 02:30 02/17/23 02:30	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr)	Result	Qualifier U unics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared	02/19/23 11:53 Analyzed 02/17/23 02:30 02/17/23 02:30 02/17/23 02:30 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U unics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared 02/14/23 14:05	02/19/23 11:53 Analyzed 02/17/23 02:30 02/17/23 02:30 02/17/23 02:30 Analyzed 02/17/23 02:30	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	Result	Qualifier U unics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared 02/14/23 14:05	02/19/23 11:53 Analyzed 02/17/23 02:30 02/17/23 02:30 02/17/23 02:30 Analyzed 02/17/23 02:30	Dil Fac

Client Sample ID: S7 0.5'-1' Lab Sample ID: 880-24558-14 Date Collected: 02/09/23 14:15 **Matrix: Solid**

Date Received: 02/10/23 08:37

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/13/23 15:34	02/14/23 18:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/13/23 15:34	02/14/23 18:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/13/23 15:34	02/14/23 18:00	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		02/13/23 15:34	02/14/23 18:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/13/23 15:34	02/14/23 18:00	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/13/23 15:34	02/14/23 18:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			02/13/23 15:34	02/14/23 18:00	1
1,4-Difluorobenzene (Surr)	109		70 - 130			02/13/23 15:34	02/14/23 18:00	1

Project/Site: Cotton Hills 23 26 27 Federal

Job ID: 880-24558-1

SDG: 23-0102-01

Lab Sample ID: 880-24558-14

Matrix: Solid

Client Sample ID: S7 0.5'-1'

Date Collected: 02/09/23 14:15 Date Received: 02/10/23 08:37

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/15/23 10:05	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/19/23 11:53	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/14/23 14:05	02/17/23 02:52	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/14/23 14:05	02/17/23 02:52	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/14/23 14:05	02/17/23 02:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			02/14/23 14:05	02/17/23 02:52	1
o-Terphenyl (Surr)	82		70 - 130			02/14/23 14:05	02/17/23 02:52	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	226		5.03	mg/Kg			02/15/23 03:12	

Client Sample ID: S8 0-0.5' Lab Sample ID: 880-24558-15

Date Collected: 02/09/23 00:00

Date Received: 02/10/23 08:37

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/13/23 15:34	02/14/23 18:20	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/13/23 15:34	02/14/23 18:20	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/13/23 15:34	02/14/23 18:20	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		02/13/23 15:34	02/14/23 18:20	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/13/23 15:34	02/14/23 18:20	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/13/23 15:34	02/14/23 18:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			02/13/23 15:34	02/14/23 18:20	1
4.4.Diff	112		70 - 130			02/13/23 15:34	02/14/23 18:20	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald			Unit	D			
		culation	70 - 700			02/10/20 10:04	02/14/20 10:20	
	- Total BTEX Cald	Qualifier	RL 0.00402	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/15/23 10:05	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00402	Qualifier U	RL 0.00402		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00402 esel Range Organ	Qualifier U	RL 0.00402		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00402 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00402	mg/Kg		Prepared	Analyzed 02/15/23 10:05	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00402 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00402 GC) RL 49.9	mg/Kg		Prepared	Analyzed 02/15/23 10:05	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00402 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00402 GC) RL 49.9	mg/Kg		Prepared	Analyzed 02/15/23 10:05	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00402 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00402 GC) RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 02/15/23 10:05 Analyzed 02/19/23 11:53	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	- Total BTEX Calc Result <0.00402 esel Range Organ Result <49.9 diesel Range Orga Result	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U	RL 0.00402 GC) RL 49.9 (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	Analyzed 02/15/23 10:05 Analyzed 02/19/23 11:53 Analyzed	Dil Fac

Eurofins Midland

Matrix: Solid

Client: Larson & Associates, Inc. Job ID: 880-24558-1 Project/Site: Cotton Hills 23 26 27 Federal SDG: 23-0102-01

Client Sample ID: S8 0-0.5' Lab Sample ID: 880-24558-15

Date Collected: 02/09/23 00:00 Matrix: Solid Date Received: 02/10/23 08:37

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/14/23 14:05	02/17/23 03:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	67	S1-	70 - 130			02/14/23 14:05	02/17/23 03:15	1
o-Terphenyl (Surr)	72		70 - 130			02/14/23 14:05	02/17/23 03:15	1

Method: EPA 300.0 - Anions, Ion Cl	hromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131	5.00	mg/Kg			02/15/23 03:16	1

Client Sample ID: S8 0.5'-1' Lab Sample ID: 880-24558-16

Date Collected: 02/09/23 00:00 Matrix: Solid Date Received: 02/10/23 08:37

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/13/23 15:34	02/14/23 18:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/13/23 15:34	02/14/23 18:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/13/23 15:34	02/14/23 18:41	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		02/13/23 15:34	02/14/23 18:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/13/23 15:34	02/14/23 18:41	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/13/23 15:34	02/14/23 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			02/13/23 15:34	02/14/23 18:41	1
1,4-Difluorobenzene (Surr)	110		70 - 130			02/13/23 15:34	02/14/23 18:41	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/15/23 10:05	1
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
TOTAL TPH -	<49.8	U	49.8	mg/Kg			02/19/23 11:53	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)					
			· /					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics			RL 49.8	mg/Kg	<u>D</u>	Prepared 02/14/23 14:05	Analyzed 02/17/23 03:37	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U			<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	<u> </u>	02/14/23 14:05	02/17/23 03:37	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 <49.8	U U	49.8	mg/Kg	<u>D</u>	02/14/23 14:05 02/14/23 14:05	02/17/23 03:37	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.8 <49.8 <49.8	U U	49.8 49.8 49.8	mg/Kg	<u>D</u>	02/14/23 14:05 02/14/23 14:05 02/14/23 14:05	02/17/23 03:37 02/17/23 03:37 02/17/23 03:37	1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.8 <49.8 <49.8 %Recovery	U U	49.8 49.8 49.8 Limits	mg/Kg	<u> </u>	02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared	02/17/23 03:37 02/17/23 03:37 02/17/23 03:37 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr)	<49.8 <49.8 <49.8 <49.8 %Recovery 71 76	U U U Qualifier	49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared 02/14/23 14:05	02/17/23 03:37 02/17/23 03:37 02/17/23 03:37 Analyzed 02/17/23 03:37	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	<49.8 <49.8 <49.8 **Recovery 71 76 Chromatograp	U U U Qualifier	49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared 02/14/23 14:05	02/17/23 03:37 02/17/23 03:37 02/17/23 03:37 Analyzed 02/17/23 03:37	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: S9 0-0.5' Date Collected: 02/09/23 00:00 Date Received: 02/10/23 08:37

Project/Site: Cotton Hills 23 26 27 Federal

Job ID: 880-24558-1 SDG: 23-0102-01

990 24559 17

Lab	Sample	יטו:	880-24558-17
			Matrixy Calid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 19:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 19:01	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 19:01	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/13/23 15:34	02/14/23 19:01	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 19:01	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/13/23 15:34	02/14/23 19:01	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	126		70 - 130			02/13/23 15:34	02/14/23 19:01	
1,4-Difluorobenzene (Surr)	110		70 - 130			02/13/23 15:34	02/14/23 19:01	:
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/15/23 10:05	
: Method: SW846 8015 NM - Diese	•	, , ,	•					
: Method: SW846 8015 NM - Diese	•	ics (DRO) (GC)	Unit	D	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/19/23 11:53	
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier U	RL 49.9		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier U	RL 49.9		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <49.9 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)		<u>D</u>	Prepared Prepared	02/19/23 11:53 Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Result <49.9	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg			02/19/23 11:53	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GR0)-C6-C10	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 02/14/23 14:05	02/19/23 11:53 Analyzed 02/17/23 04:00	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg Unit		Prepared	02/19/23 11:53 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 02/14/23 14:05	02/19/23 11:53 Analyzed 02/17/23 04:00	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 sel Range Orga Result <49.9 <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05	02/19/23 11:53 Analyzed 02/17/23 04:00 02/17/23 04:00	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05 02/14/23 14:05	02/19/23 11:53 Analyzed 02/17/23 04:00 02/17/23 04:00 02/17/23 04:00	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorocctane (Surr)	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared	02/19/23 11:53 Analyzed 02/17/23 04:00 02/17/23 04:00 02/17/23 04:00 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared 02/14/23 14:05	02/19/23 11:53 Analyzed 02/17/23 04:00 02/17/23 04:00 Analyzed 02/17/23 04:00	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 14:05 02/14/23 14:05 02/14/23 14:05 Prepared 02/14/23 14:05	02/19/23 11:53 Analyzed 02/17/23 04:00 02/17/23 04:00 Analyzed 02/17/23 04:00	Dil Fac

Client Sample ID: S9 0.5'-1' Lab Sample ID: 880-24558-18 Date Collected: 02/09/23 00:00 **Matrix: Solid**

Date Received: 02/10/23 08:37

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 19:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 19:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 19:22	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/13/23 15:34	02/14/23 19:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/13/23 15:34	02/14/23 19:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/13/23 15:34	02/14/23 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			02/13/23 15:34	02/14/23 19:22	1
1,4-Difluorobenzene (Surr)	113		70 - 130			02/13/23 15:34	02/14/23 19:22	1

Client Sample Results

Client: Larson & Associates, Inc.

Date Received: 02/10/23 08:37

Surrogate

1-Chlorooctane (Surr)

o-Terphenyl (Surr)

Project/Site: Cotton Hills 23 26 27 Federal

Job ID: 880-24558-1

Prepared

02/14/23 14:05

02/14/23 14:05

Analyzed

02/17/23 04:21

02/17/23 04:21

Dil Fac

SDG: 23-0102-01

Client Sample ID: S9 0.5'-1' Lab Sample ID: 880-24558-18 Date Collected: 02/09/23 00:00

%Recovery Qualifier

82

83

Matrix: Solid

Method: TAL SOP Total BTEX	(- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/15/23 10:05	1
Method: SW846 8015 NM - Di	esel Range Organ	ics (DRO) (G	SC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/19/23 11:53	1
Method: SW846 8015B NM - Diese	l Range Orga	nics (DRO) (0	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/14/23 14:05	02/17/23 04:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/14/23 14:05	02/17/23 04:21	1
		U	49.9	mg/Kg		02/14/23 14:05	02/17/23 04:21	

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	9					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	191		5.02	mg/Kg			02/15/23 03:30	1

Limits

70 - 130

70 - 130

Surrogate Summary

Client: Larson & Associates, Inc.

Project/Site: Cotton Hills 23 26 27 Federal

SDG: 23-0102-01

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Accept
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-24558-1	S1 0-0.5'	112	104	
880-24558-1 MS	S1 0-0.5'	102	101	
880-24558-1 MSD	S1 0-0.5'	108	106	
880-24558-2	S1 0.5'-1'	132 S1+	114	
880-24558-3	S2 0-0.5'	126	101	
30-24558-4	S2 0.5'-1'	117	109	
80-24558-5	S3 0-0.5'	172 S1+	91	
80-24558-6	S3 0.5'-1'	120	109	
80-24558-7	S4 0-0.5'	93	68 S1-	
30-24558-8	S4 0.5'-1'	132 S1+	110	
0-24558-9	S5 0-0.5'	86	63 S1-	
0-24558-10	S5 0.5'-1'	129	104	
0-24558-11	S6 0-0.5'	121	106	
0-24558-12	S6 0.5'-1'	127	113	
80-24558-13	S7 0-0.5'	124	110	
0-24558-14	S7 0.5'-1'	123	109	
30-24558-15	S8 0-0.5'	127	112	
80-24558-16	S8 0.5'-1'	128	110	
80-24558-17	S9 0-0.5'	126	110	
80-24558-18	S9 0.5'-1'	132 S1+	113	
CS 880-46191/1-A	Lab Control Sample	113	108	
CSD 880-46191/2-A	Lab Control Sample Dup	111	111	
IB 880-46191/5-A	Method Blank	113	103	

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-24558-1	S1 0-0.5'	84	87	
880-24558-1 MS	S1 0-0.5'	74	77	
880-24558-1 MSD	S1 0-0.5'	76	75	
880-24558-2	S1 0.5'-1'	73	77	
880-24558-3	S2 0-0.5'	87	88	
880-24558-4	S2 0.5'-1'	86	89	
880-24558-5	S3 0-0.5'	84	76	
880-24558-6	S3 0.5'-1'	85	84	
880-24558-7	S4 0-0.5'	85	87	
880-24558-8	S4 0.5'-1'	69 S1-	74	
880-24558-9	S5 0-0.5'	86	84	
880-24558-10	S5 0.5'-1'	89	89	
880-24558-11	S6 0-0.5'	86	85	
880-24558-12	S6 0.5'-1'	90	91	
880-24558-13	S7 0-0.5'	77	76	
880-24558-14	S7 0.5'-1'	80	82	

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Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-24558-1 Project/Site: Cotton Hills 23 26 27 Federal SDG: 23-0102-01

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Reco
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-24558-15	S8 0-0.5'	67 S1-	72	
880-24558-16	S8 0.5'-1'	71	76	
880-24558-17	S9 0-0.5'	80	80	
880-24558-18	S9 0.5'-1'	82	83	
LCS 880-46322/2-A	Lab Control Sample	110	113	
LCSD 880-46322/3-A	Lab Control Sample Dup	95	101	
MB 880-46322/1-A	Method Blank	95	101	
Surrogate Legend				
1CO = 1-Chlorooctane (Surr)				
OTPH = o-Terphenyl (Surr)				

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Project/Site: Cotton Hills 23 26 27 Federal

Job ID: 880-24558-1

SDG: 23-0102-01

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46191/5-A

Lab Sample ID: LCS 880-46191/1-A

Matrix: Solid Analysis Batch: 46261 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46191

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/13/23 15:34	02/14/23 11:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/13/23 15:34	02/14/23 11:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/13/23 15:34	02/14/23 11:36	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/13/23 15:34	02/14/23 11:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/13/23 15:34	02/14/23 11:36	1
Xvlenes, Total	< 0.00400	U	0.00400	ma/Ka		02/13/23 15:34	02/14/23 11:36	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	02/13/23 15:34	02/14/23 11:36	1
1,4-Difluorobenzene (Surr)	103		70 - 130	02/13/23 15:34	02/14/23 11:36	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46191

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1138 mg/Kg 114 70 - 130 0.1068 Toluene 0.100 mg/Kg 107 70 - 130 0.100 0.1052 Ethylbenzene mg/Kg 105 70 - 130 0.200 0.2212 70 - 130 m,p-Xylenes mg/Kg 111 0.100 0.1068 70 - 130 o-Xylene mg/Kg 107

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Lab Sample ID: LCSD 880-46191/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 46261

Analysis Batch: 46261

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 46191

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1088 mg/Kg 109 70 - 130 35 Toluene 0.100 0.1019 mg/Kg 102 70 - 130 5 35 Ethylbenzene 0.100 0.1005 mg/Kg 100 70 - 130 5 35 0.200 m,p-Xylenes 0.2134 mg/Kg 107 70 - 130 35 0.100 0.1035 103 o-Xylene mg/Kg 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	111		70 - 130		
1.4-Difluorobenzene (Surr)	111		70 - 130		

Lab Sample ID: 880-24558-1 MS

Matrix: Solid

Analysis Batch: 46261

Client Sample ID: S1 0-0.5' Prep Type: Total/NA

Prep Batch: 46191

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0996	0.09360		mg/Kg	_	94	70 - 130	
Toluene	<0.00202	U	0.0996	0.07794		mg/Kg		78	70 - 130	

Project/Site: Cotton Hills 23 26 27 Federal

Job ID: 880-24558-1

SDG: 23-0102-01

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

Lab Sample ID: 880-24558-1 MS

Lab Sample ID: 880-24558-1 MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 46261

Client Sample ID: S1 0-0.5'

Prep Type: Total/NA

Prep Batch: 46191

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	0.00430	F1	0.0996	0.06526	F1	mg/Kg		61	70 - 130
m,p-Xylenes	<0.00403	U F1	0.199	0.1334	F1	mg/Kg		65	70 - 130
o-Xylene	0.00208	F1	0.0996	0.05882	F1	mg/Kg		57	70 - 130

MS MS

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

Client Sample ID: S1 0-0.5'

Prep Type: Total/NA

Prep Batch: 46191

Analysis Batch: 46261 Sample Sample Spike MSD MSD %Rec Result Qualifier Added Result Qualifier RPD Limit Analyte Unit Limits 0.0990 105 Benzene <0.00202 U 0.1036 mg/Kg 70 - 130 10 35 <0.00202 U 0.0990 0.08890 Toluene mg/Kg 90 70 - 130 13 35 Ethylbenzene 0.00430 F1 0.0990 0.07772 mg/Kg 74 70 - 130 17 35 <0.00403 U F1 0.198 0.1586 78 70 - 130 17 35 m,p-Xylenes mg/Kg 0.0990 o-Xylene 0.00208 F1 0.07163 70 70 - 130 20 mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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

Lab Sample ID: MB 880-46322/1-A

Matrix: Solid

Analysis Batch: 46477

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46322

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/14/23 14:00	02/16/23 19:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/14/23 14:00	02/16/23 19:48	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/14/23 14:00	02/16/23 19:48	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	02/14/23 14:00	02/16/23 19:48	1
o-Terphenyl (Surr)	101		70 - 130	02/14/23 14:00	02/16/23 19:48	1

Lab Sample ID: LCS 880-46322/2-A

Matrix: Solid

Analysis Batch: 46477

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46322

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1122		mg/Kg		112	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1106		mg/Kg		111	70 - 130	
C10-C28)								

Job ID: 880-24558-1

SDG: 23-0102-01

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

Project/Site: Cotton Hills 23 26 27 Federal

Lab Sample ID: LCS 880-46322/2-A

Lab Sample ID: LCSD 880-46322/3-A

Lab Sample ID: 880-24558-1 MS

Matrix: Solid

Analysis Batch: 46477

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46322

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane (Surr) 110 70 - 130 o-Terphenyl (Surr) 113 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46322

Matrix: Solid

Analysis Batch: 46477

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 978.9 98 70 - 13014 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 985.2 99 mg/Kg 70 - 13012 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 95 70 - 130 1-Chlorooctane (Surr) o-Terphenyl (Surr) 101 70 - 130

Client Sample ID: S1 0-0.5

Prep Type: Total/NA

Prep Batch: 46322

Sample Sample MS MS Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.8 U 1000 859.2 mg/Kg 83 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1070 F1 1000 1169 F1 mg/Kg 10 70 - 130

C10-C28)

Matrix: Solid

Analysis Batch: 46477

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane (Surr) 74 70 - 130 o-Terphenyl (Surr) 77

Lab Sample ID: 880-24558-1 MSD Client Sample ID: S1 0-0.5'

Matrix: Solid Prep Type: Total/NA Analysis Batch: 46477 Prep Batch: 46322

Sample Sample MSD MSD %Rec RPD Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U 1000 922.2 89 Gasoline Range Organics <49.8 mg/Kg 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1070 F1 1000 1202 F1 mg/Kg 13 70 - 130 3 20

C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane (Surr) 76 70 - 130 75 70 - 130 o-Terphenyl (Surr)

Project/Site: Cotton Hills 23 26 27 Federal

Client: Larson & Associates, Inc.

Job ID: 880-24558-1

Client Sample ID: Method Blank

SDG: 23-0102-01

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46279/1-A

Lab Sample ID: LCS 880-46279/2-A

Matrix: Solid

Analysis Batch: 46341

мв мв

Dil Fac Analyte Result Qualifier RLUnit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 02/15/23 01:20

> Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Prep Type: Soluble

Analysis Batch: 46341

Matrix: Solid

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 251.6 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-46279/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 46341

Spike LCSD LCSD RPD %Rec Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 239.1 mg/Kg 90 - 110

Lab Sample ID: 880-24558-1 MS Client Sample ID: S1 0-0.5' **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 46341

Spike MS MS Sample Sample %Rec Qualifier Analyte Added %Rec Result Result Qualifier Unit Limits Chloride 125 251 383.6 103 90 - 110 mg/Kg

Lab Sample ID: 880-24558-1 MSD Client Sample ID: S1 0-0.5' **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 46341

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 251 Chloride 125 382.5 mg/Kg 103 90 - 110

Lab Sample ID: 880-24558-11 MS Client Sample ID: S6 0-0.5' **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 46341

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 9 78 248 255.1 mg/Kg 90 - 110

Lab Sample ID: 880-24558-11 MSD Client Sample ID: S6 0-0.5' **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 46341

MSD MSD %Rec RPD Sample Sample Spike Result Qualifier Added Analyte Result Qualifier Limits RPD Limit Unit %Rec Chloride 9.78 248 241.3 mg/Kg 93 90 - 110 20

Client: Larson & Associates, Inc. Project/Site: Cotton Hills 23 26 27 Federal Job ID: 880-24558-1 SDG: 23-0102-01

GC VOA

Prep Batch: 46191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24558-1	S1 0-0.5'	Total/NA	Solid	5035	
880-24558-2	S1 0.5'-1'	Total/NA	Solid	5035	
880-24558-3	S2 0-0.5'	Total/NA	Solid	5035	
880-24558-4	S2 0.5'-1'	Total/NA	Solid	5035	
880-24558-5	S3 0-0.5'	Total/NA	Solid	5035	
880-24558-6	S3 0.5'-1'	Total/NA	Solid	5035	
880-24558-7	S4 0-0.5'	Total/NA	Solid	5035	
880-24558-8	S4 0.5'-1'	Total/NA	Solid	5035	
880-24558-9	S5 0-0.5'	Total/NA	Solid	5035	
880-24558-10	S5 0.5'-1'	Total/NA	Solid	5035	
880-24558-11	S6 0-0.5'	Total/NA	Solid	5035	
880-24558-12	S6 0.5'-1'	Total/NA	Solid	5035	
880-24558-13	S7 0-0.5'	Total/NA	Solid	5035	
880-24558-14	S7 0.5'-1'	Total/NA	Solid	5035	
880-24558-15	S8 0-0.5'	Total/NA	Solid	5035	
880-24558-16	S8 0.5'-1'	Total/NA	Solid	5035	
880-24558-17	S9 0-0.5'	Total/NA	Solid	5035	
880-24558-18	S9 0.5'-1'	Total/NA	Solid	5035	
MB 880-46191/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46191/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46191/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24558-1 MS	S1 0-0.5'	Total/NA	Solid	5035	
880-24558-1 MSD	S1 0-0.5'	Total/NA	Solid	5035	

Analysis Batch: 46261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24558-1	S1 0-0.5'	Total/NA	Solid	8021B	46191
880-24558-2	S1 0.5'-1'	Total/NA	Solid	8021B	46191
880-24558-3	S2 0-0.5'	Total/NA	Solid	8021B	46191
880-24558-4	S2 0.5'-1'	Total/NA	Solid	8021B	46191
880-24558-5	S3 0-0.5'	Total/NA	Solid	8021B	46191
880-24558-6	S3 0.5'-1'	Total/NA	Solid	8021B	46191
880-24558-7	S4 0-0.5'	Total/NA	Solid	8021B	46191
880-24558-8	S4 0.5'-1'	Total/NA	Solid	8021B	46191
880-24558-9	S5 0-0.5'	Total/NA	Solid	8021B	46191
880-24558-10	S5 0.5'-1'	Total/NA	Solid	8021B	46191
880-24558-11	S6 0-0.5'	Total/NA	Solid	8021B	46191
880-24558-12	S6 0.5'-1'	Total/NA	Solid	8021B	46191
880-24558-13	S7 0-0.5'	Total/NA	Solid	8021B	46191
880-24558-14	S7 0.5'-1'	Total/NA	Solid	8021B	46191
880-24558-15	S8 0-0.5'	Total/NA	Solid	8021B	46191
880-24558-16	S8 0.5'-1'	Total/NA	Solid	8021B	46191
880-24558-17	S9 0-0.5'	Total/NA	Solid	8021B	46191
880-24558-18	S9 0.5'-1'	Total/NA	Solid	8021B	46191
MB 880-46191/5-A	Method Blank	Total/NA	Solid	8021B	46191
LCS 880-46191/1-A	Lab Control Sample	Total/NA	Solid	8021B	46191
LCSD 880-46191/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46191
880-24558-1 MS	S1 0-0.5'	Total/NA	Solid	8021B	46191
880-24558-1 MSD	S1 0-0.5'	Total/NA	Solid	8021B	46191

Client: Larson & Associates, Inc. Project/Site: Cotton Hills 23 26 27 Federal

Job ID: 880-24558-1 SDG: 23-0102-01

GC VOA

Analysis Batch: 46335

∟ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
380-24558-1	S1 0-0.5'	Total/NA	Solid	Total BTEX	
880-24558-2	S1 0.5'-1'	Total/NA	Solid	Total BTEX	
380-24558-3	S2 0-0.5'	Total/NA	Solid	Total BTEX	
380-24558-4	S2 0.5'-1'	Total/NA	Solid	Total BTEX	
380-24558-5	S3 0-0.5'	Total/NA	Solid	Total BTEX	
380-24558-6	S3 0.5'-1'	Total/NA	Solid	Total BTEX	
380-24558-7	S4 0-0.5'	Total/NA	Solid	Total BTEX	
380-24558-8	S4 0.5'-1'	Total/NA	Solid	Total BTEX	
880-24558-9	S5 0-0.5'	Total/NA	Solid	Total BTEX	
380-24558-10	S5 0.5'-1'	Total/NA	Solid	Total BTEX	
880-24558-11	S6 0-0.5'	Total/NA	Solid	Total BTEX	
880-24558-12	S6 0.5'-1'	Total/NA	Solid	Total BTEX	
880-24558-13	S7 0-0.5'	Total/NA	Solid	Total BTEX	
880-24558-14	S7 0.5'-1'	Total/NA	Solid	Total BTEX	
880-24558-15	S8 0-0.5'	Total/NA	Solid	Total BTEX	
380-24558-16	S8 0.5'-1'	Total/NA	Solid	Total BTEX	
880-24558-17	S9 0-0.5'	Total/NA	Solid	Total BTEX	
380-24558-18	S9 0.5'-1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 46322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-24558-1	S1 0-0.5'	Total/NA	Solid	8015NM Prep	
880-24558-2	S1 0.5'-1'	Total/NA	Solid	8015NM Prep	
880-24558-3	S2 0-0.5'	Total/NA	Solid	8015NM Prep	
880-24558-4	S2 0.5'-1'	Total/NA	Solid	8015NM Prep	
880-24558-5	S3 0-0.5'	Total/NA	Solid	8015NM Prep	
880-24558-6	S3 0.5'-1'	Total/NA	Solid	8015NM Prep	
880-24558-7	S4 0-0.5'	Total/NA	Solid	8015NM Prep	
880-24558-8	S4 0.5'-1'	Total/NA	Solid	8015NM Prep	
880-24558-9	S5 0-0.5'	Total/NA	Solid	8015NM Prep	
880-24558-10	S5 0.5'-1'	Total/NA	Solid	8015NM Prep	
880-24558-11	S6 0-0.5'	Total/NA	Solid	8015NM Prep	
880-24558-12	S6 0.5'-1'	Total/NA	Solid	8015NM Prep	
880-24558-13	S7 0-0.5'	Total/NA	Solid	8015NM Prep	
880-24558-14	S7 0.5'-1'	Total/NA	Solid	8015NM Prep	
880-24558-15	S8 0-0.5'	Total/NA	Solid	8015NM Prep	
880-24558-16	S8 0.5'-1'	Total/NA	Solid	8015NM Prep	
880-24558-17	S9 0-0.5'	Total/NA	Solid	8015NM Prep	
880-24558-18	S9 0.5'-1'	Total/NA	Solid	8015NM Prep	
MB 880-46322/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46322/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46322/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24558-1 MS	S1 0-0.5'	Total/NA	Solid	8015NM Prep	
880-24558-1 MSD	S1 0-0.5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24558-1	S1 0-0.5'	Total/NA	Solid	8015B NM	46322
880-24558-2	S1 0.5'-1'	Total/NA	Solid	8015B NM	46322

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GC Semi VOA (Continued)

Analysis Batch: 46477 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24558-3	S2 0-0.5'	Total/NA	Solid	8015B NM	46322
880-24558-4	S2 0.5'-1'	Total/NA	Solid	8015B NM	46322
880-24558-5	S3 0-0.5'	Total/NA	Solid	8015B NM	46322
880-24558-6	S3 0.5'-1'	Total/NA	Solid	8015B NM	46322
880-24558-7	S4 0-0.5'	Total/NA	Solid	8015B NM	46322
880-24558-8	S4 0.5'-1'	Total/NA	Solid	8015B NM	46322
880-24558-9	S5 0-0.5'	Total/NA	Solid	8015B NM	46322
880-24558-10	S5 0.5'-1'	Total/NA	Solid	8015B NM	46322
880-24558-11	S6 0-0.5'	Total/NA	Solid	8015B NM	46322
880-24558-12	S6 0.5'-1'	Total/NA	Solid	8015B NM	46322
880-24558-13	S7 0-0.5'	Total/NA	Solid	8015B NM	46322
880-24558-14	S7 0.5'-1'	Total/NA	Solid	8015B NM	46322
880-24558-15	S8 0-0.5'	Total/NA	Solid	8015B NM	46322
880-24558-16	S8 0.5'-1'	Total/NA	Solid	8015B NM	46322
880-24558-17	S9 0-0.5'	Total/NA	Solid	8015B NM	46322
880-24558-18	S9 0.5'-1'	Total/NA	Solid	8015B NM	46322
MB 880-46322/1-A	Method Blank	Total/NA	Solid	8015B NM	46322
LCS 880-46322/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46322
LCSD 880-46322/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46322
880-24558-1 MS	S1 0-0.5'	Total/NA	Solid	8015B NM	46322
880-24558-1 MSD	S1 0-0.5'	Total/NA	Solid	8015B NM	46322

Analysis Batch: 46661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24558-1	S1 0-0.5'	Total/NA	Solid	8015 NM	
880-24558-2	S1 0.5'-1'	Total/NA	Solid	8015 NM	
880-24558-3	S2 0-0.5'	Total/NA	Solid	8015 NM	
880-24558-4	S2 0.5'-1'	Total/NA	Solid	8015 NM	
880-24558-5	S3 0-0.5'	Total/NA	Solid	8015 NM	
880-24558-6	S3 0.5'-1'	Total/NA	Solid	8015 NM	
880-24558-7	S4 0-0.5'	Total/NA	Solid	8015 NM	
880-24558-8	S4 0.5'-1'	Total/NA	Solid	8015 NM	
880-24558-9	S5 0-0.5'	Total/NA	Solid	8015 NM	
880-24558-10	S5 0.5'-1'	Total/NA	Solid	8015 NM	
880-24558-11	S6 0-0.5'	Total/NA	Solid	8015 NM	
880-24558-12	S6 0.5'-1'	Total/NA	Solid	8015 NM	
880-24558-13	S7 0-0.5'	Total/NA	Solid	8015 NM	
880-24558-14	S7 0.5'-1'	Total/NA	Solid	8015 NM	
880-24558-15	S8 0-0.5'	Total/NA	Solid	8015 NM	
880-24558-16	S8 0.5'-1'	Total/NA	Solid	8015 NM	
880-24558-17	S9 0-0.5'	Total/NA	Solid	8015 NM	
880-24558-18	S9 0.5'-1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 46279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24558-1	S1 0-0.5'	Soluble	Solid	DI Leach	
880-24558-2	S1 0.5'-1'	Soluble	Solid	DI Leach	
880-24558-3	S2 0-0.5'	Soluble	Solid	DI Leach	
880-24558-4	S2 0.5'-1'	Soluble	Solid	DI Leach	

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HPLC/IC (Continued)

Leach Batch: 46279 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24558-5	S3 0-0.5'	Soluble	Solid	DI Leach	
880-24558-6	S3 0.5'-1'	Soluble	Solid	DI Leach	
880-24558-7	S4 0-0.5'	Soluble	Solid	DI Leach	
880-24558-8	S4 0.5'-1'	Soluble	Solid	DI Leach	
880-24558-9	S5 0-0.5'	Soluble	Solid	DI Leach	
880-24558-10	S5 0.5'-1'	Soluble	Solid	DI Leach	
880-24558-11	S6 0-0.5'	Soluble	Solid	DI Leach	
880-24558-12	S6 0.5'-1'	Soluble	Solid	DI Leach	
880-24558-13	S7 0-0.5'	Soluble	Solid	DI Leach	
880-24558-14	S7 0.5'-1'	Soluble	Solid	DI Leach	
880-24558-15	S8 0-0.5'	Soluble	Solid	DI Leach	
880-24558-16	S8 0.5'-1'	Soluble	Solid	DI Leach	
880-24558-17	S9 0-0.5'	Soluble	Solid	DI Leach	
880-24558-18	S9 0.5'-1'	Soluble	Solid	DI Leach	
MB 880-46279/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46279/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46279/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24558-1 MS	S1 0-0.5'	Soluble	Solid	DI Leach	
880-24558-1 MSD	S1 0-0.5'	Soluble	Solid	DI Leach	
880-24558-11 MS	S6 0-0.5'	Soluble	Solid	DI Leach	
880-24558-11 MSD	S6 0-0.5'	Soluble	Solid	DI Leach	

Analysis Batch: 46341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-24558-1	S1 0-0.5'	Soluble	Solid	300.0	46279
880-24558-2	S1 0.5'-1'	Soluble	Solid	300.0	46279
880-24558-3	S2 0-0.5'	Soluble	Solid	300.0	46279
880-24558-4	S2 0.5'-1'	Soluble	Solid	300.0	46279
880-24558-5	S3 0-0.5'	Soluble	Solid	300.0	46279
880-24558-6	S3 0.5'-1'	Soluble	Solid	300.0	46279
880-24558-7	S4 0-0.5'	Soluble	Solid	300.0	46279
880-24558-8	S4 0.5'-1'	Soluble	Solid	300.0	46279
880-24558-9	S5 0-0.5'	Soluble	Solid	300.0	46279
880-24558-10	S5 0.5'-1'	Soluble	Solid	300.0	46279
880-24558-11	S6 0-0.5'	Soluble	Solid	300.0	46279
880-24558-12	S6 0.5'-1'	Soluble	Solid	300.0	46279
880-24558-13	S7 0-0.5'	Soluble	Solid	300.0	46279
880-24558-14	S7 0.5'-1'	Soluble	Solid	300.0	46279
880-24558-15	S8 0-0.5'	Soluble	Solid	300.0	46279
880-24558-16	S8 0.5'-1'	Soluble	Solid	300.0	46279
880-24558-17	S9 0-0.5'	Soluble	Solid	300.0	46279
880-24558-18	S9 0.5'-1'	Soluble	Solid	300.0	46279
MB 880-46279/1-A	Method Blank	Soluble	Solid	300.0	46279
LCS 880-46279/2-A	Lab Control Sample	Soluble	Solid	300.0	46279
LCSD 880-46279/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46279
880-24558-1 MS	S1 0-0.5'	Soluble	Solid	300.0	46279
880-24558-1 MSD	S1 0-0.5'	Soluble	Solid	300.0	46279
880-24558-11 MS	S6 0-0.5'	Soluble	Solid	300.0	46279
880-24558-11 MSD	S6 0-0.5'	Soluble	Solid	300.0	46279

Client Sample ID: S1 0-0.5' Date Collected: 02/09/23 11:00

Date Received: 02/10/23 08:37

Job ID: 880-24558-1 SDG: 23-0102-01

Lab Sample ID: 880-24558-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	46191	02/13/23 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46261	02/14/23 12:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46335	02/14/23 16:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			46661	02/19/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46322	02/14/23 14:05	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46477	02/16/23 20:55	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46279	02/14/23 09:55	KS	EET MID
Soluble	Analysis	300.0		1			46341	02/15/23 01:34	CH	EET MID

Client Sample ID: S1 0.5'-1'

Date Collected: 02/09/23 11:15

Date Received: 02/10/23 08:37

Lab Sample ID: 880-24558-2

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.05 g 5 mL 46191 02/13/23 15:34 MNR EET MID Total/NA 8021B 5 mL 02/14/23 12:25 **EET MID** Analysis 1 5 mL 46261 MNR Total/NA Total BTEX 46335 02/14/23 16:05 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 46661 02/19/23 11:53 SM **EET MID** Total/NA 46322 02/14/23 14:05 Prep 8015NM Prep 10.01 g 10 mL SM EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 46477 02/16/23 22:01 SM **EET MID** Soluble 46279 02/14/23 09:55 Leach DI Leach 4.98 g 50 mL KS **EET MID** Soluble Analysis 300.0 46341 02/15/23 01:48 СН **EET MID**

Client Sample ID: S2 0-0.5'

Date Collected: 02/09/23 11:30

Date Received: 02/10/23 08:37

Lab Sample ID: 880-24558-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	46191	02/13/23 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46261	02/14/23 12:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46335	02/14/23 16:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			46661	02/19/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46322	02/14/23 14:05	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46477	02/16/23 22:23	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46279	02/14/23 09:55	KS	EET MID
Soluble	Analysis	300.0		1			46341	02/15/23 01:53	CH	EET MID

Client Sample ID: S2 0.5'-1'

Date Collected: 02/09/23 11:45

Date Received: 02/10/23 08:37

Lab Sample ID: 880-24558-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	46191	02/13/23 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46261	02/14/23 13:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46335	02/14/23 16:05	SM	EET MID

Client Sample ID: S2 0.5'-1'

Date Collected: 02/09/23 11:45

Date Received: 02/10/23 08:37

Project/Site: Cotton Hills 23 26 27 Federal

SDG: 23-0102-01

Job ID: 880-24558-1

Lab Sample ID: 880-24558-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			46661	02/19/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46322	02/14/23 14:05	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46477	02/16/23 22:45	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	46279	02/14/23 09:55	KS	EET MID
Soluble	Analysis	300.0		1			46341	02/15/23 01:57	CH	EET MID

Client Sample ID: S3 0-0.5' Lab Sample ID: 880-24558-5

Date Collected: 02/09/23 12:00 **Matrix: Solid**

Date Received: 02/10/23 08:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	46191	02/13/23 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46261	02/14/23 13:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46335	02/14/23 16:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			46661	02/19/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46322	02/14/23 14:05	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46477	02/16/23 23:07	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	46279	02/14/23 09:55	KS	EET MIC
Soluble	Analysis	300.0		1			46341	02/15/23 02:02	CH	EET MID

Client Sample ID: S3 0.5'-1' Lab Sample ID: 880-24558-6

Date Collected: 02/09/23 12:15 Date Received: 02/10/23 08:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	46191	02/13/23 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46261	02/14/23 13:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46335	02/14/23 16:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			46661	02/19/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46322	02/14/23 14:05	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46477	02/16/23 23:30	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46279	02/14/23 09:55	KS	EET MID
Soluble	Analysis	300.0		10			46341	02/15/23 02:16	CH	EET MID

Lab Sample ID: 880-24558-7 Client Sample ID: S4 0-0.5'

Date Collected: 02/09/23 12:30 Date Received: 02/10/23 08:37

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	46191	02/13/23 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46261	02/14/23 14:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46335	02/14/23 16:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			46661	02/19/23 11:53	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	46322 46477	02/14/23 14:05 02/16/23 23:52	SM SM	EET MID EET MID

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Matrix: Solid

Matrix: Solid

Project/Site: Cotton Hills 23 26 27 Federal

Job ID: 880-24558-1 SDG: 23-0102-01

Client Sample ID: S4 0-0.5'

Date Collected: 02/09/23 12:30 Date Received: 02/10/23 08:37

Lab Sample ID: 880-24558-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	46279	02/14/23 09:55	KS	EET MID
Soluble	Analysis	300.0		1			46341	02/15/23 02:20	CH	EET MID

Client Sample ID: S4 0.5'-1'

Date Collected: 02/09/23 12:45

Date Received: 02/10/23 08:37

Lab Sample ID: 880-24558-8

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 5.01 g 46191 02/13/23 15:34 MNR EET MID Prep 5 mL Total/NA 8021B 5 mL 5 mL 46261 02/14/23 14:28 MNR Analysis 1 **EET MID** Total/NA Total BTEX 46335 02/14/23 16:05 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 46661 02/19/23 11:53 SM **EET MID** Total/NA 46322 EET MID Prep 8015NM Prep 10.00 g 10 mL 02/14/23 14:05 SM 8015B NM 02/17/23 00:15 **EET MID** Total/NA Analysis 1 uL 1 uL 46477 SM Soluble DI Leach 4.97 g 50 mL 46279 02/14/23 09:55 KS **EET MID** Leach

1

Client Sample ID: S5 0-0.5'

Soluble

Analysis

300.0

Date Collected: 02/09/23 13:00

Date Received: 02/10/23 08:37

Lab Sample ID: 880-24558-9

СН

46341

02/15/23 02:25

Matrix: Solid

EET MID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	46191	02/13/23 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46261	02/14/23 14:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46335	02/14/23 16:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			46661	02/19/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46322	02/14/23 14:05	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46477	02/17/23 00:37	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46279	02/14/23 09:55	KS	EET MID
Soluble	Analysis	300.0		1			46341	02/15/23 02:30	CH	EET MID

Client Sample ID: S5 0.5'-1'

Date Collected: 02/09/23 13:15

Date Received: 02/10/23 08:37

Lab Sample ID: 880-24558-10

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	46191	02/13/23 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46261	02/14/23 15:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46335	02/14/23 16:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			46661	02/19/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46322	02/14/23 14:05	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46477	02/17/23 01:00	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46279	02/14/23 09:55	KS	EET MID
Soluble	Analysis	300.0		1			46341	02/15/23 02:34	CH	EET MID

Job ID: 880-24558-1 SDG: 23-0102-01

Client Sample ID: S6 0-0.5'

Date Collected: 02/09/23 13:30 Date Received: 02/10/23 08:37 Lab Sample ID: 880-24558-11

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	46191	02/13/23 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46261	02/14/23 16:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46335	02/15/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			46661	02/19/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46322	02/14/23 14:05	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46477	02/17/23 01:45	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	46279	02/14/23 09:55	KS	EET MID
Soluble	Analysis	300.0		1			46341	02/15/23 02:39	CH	EET MID

Client Sample ID: S6 0.5'-1'

Date Collected: 02/09/23 13:45

Date Received: 02/10/23 08:37

Lab Sample ID: 880-24558-12

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	46191	02/13/23 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46261	02/14/23 17:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46335	02/15/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			46661	02/19/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	46322	02/14/23 14:05	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46477	02/17/23 02:07	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	46279	02/14/23 09:55	KS	EET MID
Soluble	Analysis	300.0		1			46341	02/15/23 02:53	CH	EET MID

Client Sample ID: S7 0-0.5'

Date Collected: 02/09/23 14:00

Date Received: 02/10/23 08:37

Lab Sample ID	: 880-24558-13
---------------	----------------

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	46191	02/13/23 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46261	02/14/23 17:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46335	02/15/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			46661	02/19/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46322	02/14/23 14:05	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46477	02/17/23 02:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46279	02/14/23 09:55	KS	EET MID
Soluble	Analysis	300.0		1			46341	02/15/23 02:58	CH	EET MID

Client Sample ID: S7 0.5'-1'

Date Collected: 02/09/23 14:15

Date Received: 02/10/23 08:37

Lab Sample	ID: 880-24558-14
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Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	46191	02/13/23 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46261	02/14/23 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46335	02/15/23 10:05	SM	EET MID

Date Received: 02/10/23 08:37

Project/Site: Cotton Hills 23 26 27 Federal

SDG: 23-0102-01

Job ID: 880-24558-1

Lab Sample ID: 880-24558-14 Client Sample ID: S7 0.5'-1' Date Collected: 02/09/23 14:15

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM 46661 Analysis 02/19/23 11:53 SM **EET MID** Total/NA Prep 8015NM Prep 10.01 g 10 mL 46322 02/14/23 14:05 SM **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 46477 02/17/23 02:52 SM EET MID Soluble 4.97 g 50 mL 46279 02/14/23 09:55 KS EET MID Leach DI Leach 300.0 46341 02/15/23 03:12 Soluble Analysis 1 СН **EET MID**

Client Sample ID: S8 0-0.5' Lab Sample ID: 880-24558-15

Date Collected: 02/09/23 00:00 **Matrix: Solid**

Date Received: 02/10/23 08:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	46191	02/13/23 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46261	02/14/23 18:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46335	02/15/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			46661	02/19/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46322	02/14/23 14:05	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46477	02/17/23 03:15	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46279	02/14/23 09:55	KS	EET MID
Soluble	Analysis	300.0		1			46341	02/15/23 03:16	CH	EET MID

Client Sample ID: S8 0.5'-1' Lab Sample ID: 880-24558-16

Date Collected: 02/09/23 00:00

Date Received: 02/10/23 08:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	46191	02/13/23 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46261	02/14/23 18:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46335	02/15/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			46661	02/19/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46322	02/14/23 14:05	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46477	02/17/23 03:37	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46279	02/14/23 09:55	KS	EET MID
Soluble	Analysis	300.0		1			46341	02/15/23 03:21	CH	EET MID

Client Sample ID: S9 0-0.5' Lab Sample ID: 880-24558-17

Date Collected: 02/09/23 00:00 Date Received: 02/10/23 08:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	46191	02/13/23 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46261	02/14/23 19:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46335	02/15/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			46661	02/19/23 11:53	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g 1 uL	10 mL 1 uL	46322 46477	02/14/23 14:05 02/17/23 04:00	SM SM	EET MID EET MID

Eurofins Midland

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Larson & Associates, Inc.

Project/Site: Cotton Hills 23 26 27 Federal

Job ID: 880-24558-1 SDG: 23-0102-01

Client Sample ID: S9 0-0.5'

Date Collected: 02/09/23 00:00 Date Received: 02/10/23 08:37

Lab Sample ID: 880-24558-17

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	46279	02/14/23 09:55	KS	EET MID
Soluble	Analysis	300.0		1			46341	02/15/23 03:26	CH	EET MID

Client Sample ID: S9 0.5'-1' Lab Sample ID: 880-24558-18

Date Collected: 02/09/23 00:00 Date Received: 02/10/23 08:37

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 5.03 g 46191 02/13/23 15:34 MNR EET MID Prep 5 mL Total/NA 8021B 5 mL 5 mL 46261 02/14/23 19:22 MNR Analysis 1 EET MID Total/NA Total BTEX 46335 02/15/23 10:05 EET MID Analysis 1 SM Total/NA Analysis 8015 NM 46661 02/19/23 11:53 SM **EET MID** Total/NA 10.03 g 46322 02/14/23 14:05 EET MID Prep 8015NM Prep 10 mL SM 8015B NM **EET MID** Total/NA Analysis 1 uL 1 uL 46477 02/17/23 04:21 SM Soluble DI Leach 4.98 g 50 mL 46279 02/14/23 09:55 KS EET MID Leach 300.0 46341 02/15/23 03:30 СН **EET MID** Soluble Analysis 1

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Project/Site: Cotton Hills 23 26 27 Federal Job ID: 880-24558-1

SDG: 23-0102-01

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes the agency does not of	' '	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes f
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

Method Summary

Client: Larson & Associates, Inc.

Project/Site: Cotton Hills 23 26 27 Federal

Job ID: 880-24558-1 SDG: 23-0102-01

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

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Sample Summary

Client: Larson & Associates, Inc.

Project/Site: Cotton Hills 23 26 27 Federal

Job ID: 880-24558-1 SDG: 23-0102-01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-24558-1	S1 0-0.5'	Solid	02/09/23 11:00	02/10/23 08:37
880-24558-2	S1 0.5'-1'	Solid	02/09/23 11:15	02/10/23 08:37
880-24558-3	S2 0-0.5'	Solid	02/09/23 11:30	02/10/23 08:37
880-24558-4	S2 0.5'-1'	Solid	02/09/23 11:45	02/10/23 08:37
880-24558-5	S3 0-0.5'	Solid	02/09/23 12:00	02/10/23 08:37
880-24558-6	S3 0.5'-1'	Solid	02/09/23 12:15	02/10/23 08:37
880-24558-7	S4 0-0.5'	Solid	02/09/23 12:30	02/10/23 08:37
880-24558-8	S4 0.5'-1'	Solid	02/09/23 12:45	02/10/23 08:37
880-24558-9	S5 0-0.5'	Solid	02/09/23 13:00	02/10/23 08:37
880-24558-10	S5 0.5'-1'	Solid	02/09/23 13:15	02/10/23 08:37
880-24558-11	S6 0-0.5'	Solid	02/09/23 13:30	02/10/23 08:37
880-24558-12	S6 0.5'-1'	Solid	02/09/23 13:45	02/10/23 08:37
880-24558-13	S7 0-0.5'	Solid	02/09/23 14:00	02/10/23 08:37
880-24558-14	S7 0.5'-1'	Solid	02/09/23 14:15	02/10/23 08:37
880-24558-15	S8 0-0.5'	Solid	02/09/23 00:00	02/10/23 08:37
880-24558-16	S8 0.5'-1'	Solid	02/09/23 00:00	02/10/23 08:37
880-24558-17	S9 0-0.5'	Solid	02/09/23 00:00	02/10/23 08:37
880-24558-18	S9 0.5'-1'	Solid	02/09/23 00:00	02/10/23 08:37

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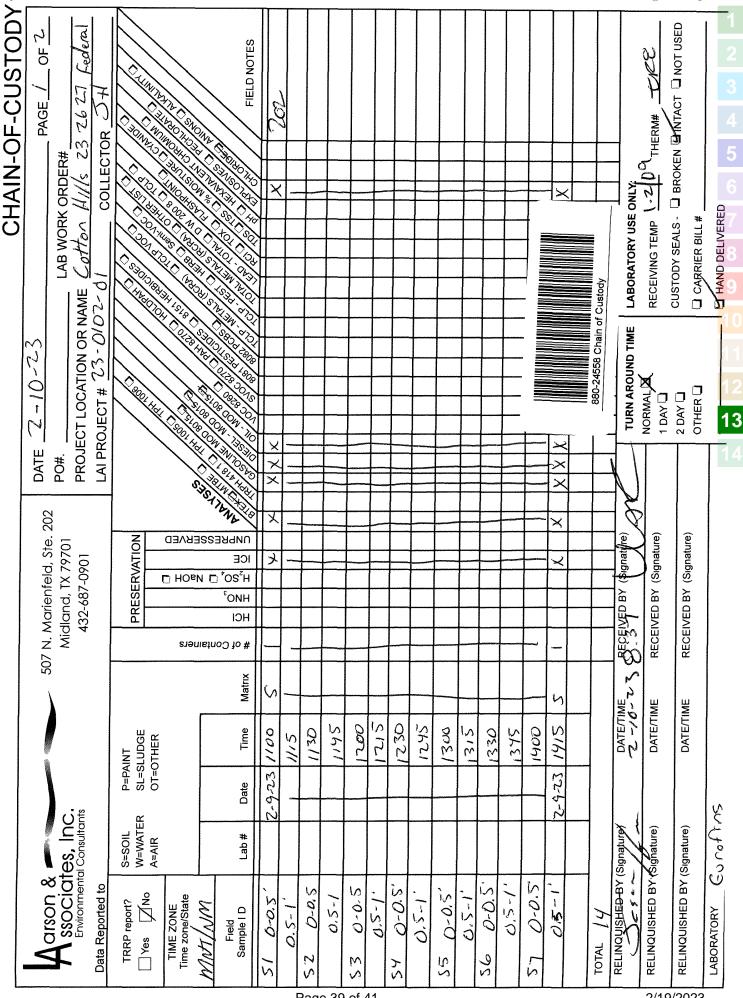
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24558 No. 2934

CHAIN-OF-CUSTODY LAB WORK ORDER# ☐ BROKEN ☐ INTACT ☐ NOT USED PAGE 2 OF 2 FIELD NOTES Loc: 880 - 24558 -THERM# COLLECTOR LABORATORY USE ONLY: \Rightarrow HAND DELIVERED CUSTODY SEALS -☐ CARRIER BILL# RECEIVING TEMP LAI PROJECT # 23 - 0/02 - 0 PROJECT LOCATION OR NAME -**FURN AROUND TIME** 2-10-23 NORMAL OTHER 🗓 2 DAY 1 DAY 13 #0d 507 N. Marienfeld, Ste. 202 RECEIVED BY (\$1gnajure) RECEIVED BY (Signature) RECEIVED BY (Signature) NNPRESSERVED **PRESERVATION** Midland, TX 79701 432-687-0901 ICE □ HO®N □ OSTH ONH НСІ # of Containers Matrix DATE/TIME (1) DATE/TIME DATE/TIME Time SL=SLUDGE OT=OTHER P=PAINT 2.6 2-9-23 Date LABORATORY EUrofins arson & ssociates, Inc. Environmental Consultants W=WATER A=AIR RELINQL#SHED BY (Signature) RELINQUISHED BY (Signature) RELINQUISHED BY (Signature) S=SOIL Lab# Data Reported to TIME ZONE Time zone/State 0-0,5' □ Yes ∑ No 1-50 0-0.5 MNT/NM TRRP report? Field Sample I D TOTAL Page 40 of 41 2/19/2023

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-24558-1

SDG Number: 23-0102-01

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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

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Appendix D

Photographic Documentation



Impacted area viewing west February 9th, 2023.



Impacted area showing deferral request section west February 9th, 2023.



Impacted area viewing north February 9th, 2023.



Impacted area viewing north February 9th, 2023.



Impacted area viewing east February 9th, 2023.



Impacted area viewing east February 9th, 2023.



Impacted area viewing south February 9th, 2023.



Impacted area viewing south February 9th, 2023.

Appendix E

NMOCD Communications

From: Barnhill, Amy
To: Robert Nelson

Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 231055

Date: Monday, November 27, 2023 2:49:00 PM

From: OCDOnline@state.nm.us < OCDOnline@state.nm.us >

Sent: Tuesday, November 21, 2023 12:36 PM **To:** Barnhill, Amy <ABarnhill@chevron.com>

Subject: [**EXTERNAL**] The Oil Conservation Division (OCD) has rejected the application,

Application ID: 231055

To whom it may concern (c/o Amy Barnhill for CHEVRON US A INC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2300450334, for the following reasons:

• Due to the shallow depth of groundwater and the presence of hydrocarbons, a deferral cannot be granted. A hydrovac/shovel would need to be used to safely remove the contaminated soil around equipment and pipelines. The release will need to be remediated to the strictest closure criteria limits (600 mg/kg, Chlorides, 100 mg/kg TPH, etc.). If you feel the depth to groundwater is >50', a shallow borehole can be drilled to 51' allowing for verification of the depth. If water is not visible after reaching bottom-hole and waiting 72 hours, the OCD will accept this as evidence. OCD would need the driller's log. Chevron has until 12/21/23 to submit a revised remediation workplan.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 231055.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you, Shelly Wells Environmental Specialist-A 505-469-7520 Shelly.Wells@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

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

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 388521

QUESTIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	388521
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2300450334	
Incident Name	NAPP2300450334 COTTON HILLS TANK BATTERY @ 0	
Incident Type	Oil Release	
Incident Status	Deferral Request Received	
Incident Facility	[fAPP2131333664] Cotton Hills Tank Battery	

Location of Release Source		
Please answer all the questions in this group.		
Site Name	COTTON HILLS TANK BATTERY	
Date Release Discovered	12/25/2022	
Surface Owner	Federal	

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Equipment Failure Valve Crude Oil Released: 11 BBL Recovered: 0 BBL Lost: 11 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 11 BBL Recovered: 0 BBL Lost: 11 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 388521

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	IONS (continued)
Operator: CHEVRON U S A INC 6301 Deauville Blvd	OGRID:
Midland, TX 79706	388521
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	•
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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 s	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.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist

Email: ABarnhill@chevron.com

Date: 09/30/2024

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

QUESTIONS, Page 3

Action 388521

QUESTIONS (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	388521
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provid	ded to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contami	ination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each,	in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 CI B)	600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	100
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	50
Benzene (EPA SW-846 Method 8021B or 8260B)	10
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes com which includes the anticipated timelines for beginning and completing the remediation.	pleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
On what estimated date will the remediation commence	03/01/2024
On what date will (or did) the final sampling or liner inspection occur	04/01/2024
On what date will (or was) the remediation complete(d)	04/15/2024
What is the estimated surface area (in square feet) that will be reclaimed	1058
What is the estimated volume (in cubic yards) that will be reclaimed	42
What is the estimated surface area (in square feet) that will be remediated	1058
What is the estimated volume (in cubic yards) that will be remediated	42
These estimated dates and measurements are recognized to be the best guess or calculation	n at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally adjuste	ed in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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

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

QUESTIONS, Page 4

Action 388521

QUESTIONS (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	388521
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

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

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

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

I hereby agree and sign off to the above statement

Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com

Date: 09/30/2024

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

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

QUESTIONS, Page 5

Action 388521

QUESTIONS (continued)

Operator.	UG	KID.
CHEVRON U S A INC		4323
6301 Deauville Blvd	Acti	ion Number:
Midland, TX 79706	1	388521
maiana, 17(10100	Agti	ion Type:
	ACI	[C-141] Deferral Request C-141 (C-141-v-Deferral)
		[0-141] Deletial Nequest 0-141 (0-141-v-Deletial)
QUESTIONS		
Deferral Requests Only		
Only answer the questions in this group if seeking a deferral upon approval this submission. Each o	the following items must be	e confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes	
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction		directly above impacted area with multiple production flowlines within is unfeasible to remediate the impacted area without major facility
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	400	
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	45	
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immed remediation could cause a major facility deconstruction, the remediation, restoration and reclamation the well or facility is plugged or abandoned, whichever comes first.		
Enter the facility ID (f#) on which this deferral should be granted	Cotton Hills Tank Batt	ery [fAPP2131333664]
Enter the well API (30-) on which this deferral should be granted	Not answered.	
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed el which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the rep	ort must include a proposed remediation plan in accordance with 19.15.29.12 NMA
I hereby certify that the information given above is true and complete to the best of my had to report and/or file certain release notifications and perform corrective actions for releate the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report local laws and/or regulations.	ases which may endango adequately investigate a	er public health or the environment. The acceptance of a C-141 report by nd remediate contamination that pose a threat to groundwater, surface
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water & Email: ABarnhill@che	

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

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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 6

Action 388521

QUESTIONS (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd Midland, TX 79706	Action Number: 388521
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	381840	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/13/2024	
What was the (estimated) number of samples that were to be gathered	2	
What was the sampling surface area in square feet	400	

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

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CONDITIONS

Action 388521

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	388521
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of SW-8 and SW-9 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	10/7/2024