

**Apache Corporation
Turner Battery Trunk Line
NRM2019643192**

Final Remediation Report

Introduction

This report presents the results of remediation activities at the Turner Battery Trunk Line. On behalf of Apache Corporation (Apache), Diamondback Disposal Services, Inc (Diamondback) was tasked with the cleanup and remediation of release NRM2019643192. The release occurred in Unit Letter K, Section 22, Township 21S, Range 37E at coordinates 32.463417, -103.152203. The remediation was performed in general accordance with the New Mexico Oil Conservation Division (NMOCD) rules and regulations for releases dated July 24, 2018 and approved NMOCD work plan dated September 28, 2020.

Overview

The spill site is located mostly on private land, owned by Deck Estate, consisting of grass, prairie, or range lands. An unknown amount of produced water was lost with 2,040 bbls being recovered, due to a failure in a trunk line.

Regulatory Guidelines

Upon review of the site characteristics, depth to ground water being 51'-100' according to well data obtained from New Mexico Office of the State Engineer, and Table 1 Closure Criteria, The Recommended Remediation Action Levels (RRAL), determined by the latest NMOCD guidelines (19.15.29 NMAC) are as follows: 10,000mg/kg Chloride, 1,000 mg/kg GRO/DRO, 2,500 mg/kg GRO/DRO/MRO, 50 mg/kg BTEX, 10mg/kg Benzene.

Remediation Activities

Between the dates of February 8, 2021 and March 5, 2021, Diamondback excavated approximately 6,600 cubic yards (cy) of impacted material, loaded, and transported to Sundance Services Parabo Facility for disposal. Depth of excavation is approximately 4 feet below ground surface. Between the dates of February 22, 2021 and March 10, 2021 the site was sampled to determine if RRAL's had been met. Five-point composite samples were collected, every 200 square feet of side wall, packaged and delivered to a third-party lab, with chain of custody, for testing as per regulatory standards. (see attached analytical). Upon review of analytical, all wall samples prove to be below Table 1 RRAL's for site closure. Being that the spill area was excavated to a depth of 4 feet bgs all restoration and reclamation standards have been met. On March 23, 2021, a 20-mil reinforced liner was installed at 4' bgs throughout the entire excavation and seated along edges. On March 23, 2021 backfilling began and ran thru March 26, 2021. Backfill was obtained from the surrounding dunes at the private surface owner's request. Material was placed in a manner to promote compaction, crowned, and sloped to promote storm water runoff and erosion prevention. Excavated pasture area, including unexcavated disturbed areas., will be seeded during the next optimal growing season with seed mix approved by Deck Estate.

Conclusions

Upon reviewing all analytical and data provided by the third-party independent lab, it is our belief that all recommended remediation action levels have been met. Diamondback feels the migration of any remaining contaminants through the vadose zone, has been greatly reduced. Therefore, leaving this site in a manner that will pose very little if any future environmental threat.

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Larry Baker Title: Environmental Tech SR.
Signature: Larry Baker Date: 4/22/2021
email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: Chad Hensley Date: 06/18/2021

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

Closure Approved by: DENIED Date: 06/18/2021
Printed Name: Chad Hensley Title: Environmental Specialist Advanced

Project Name:

Turner Battery Trunk Line

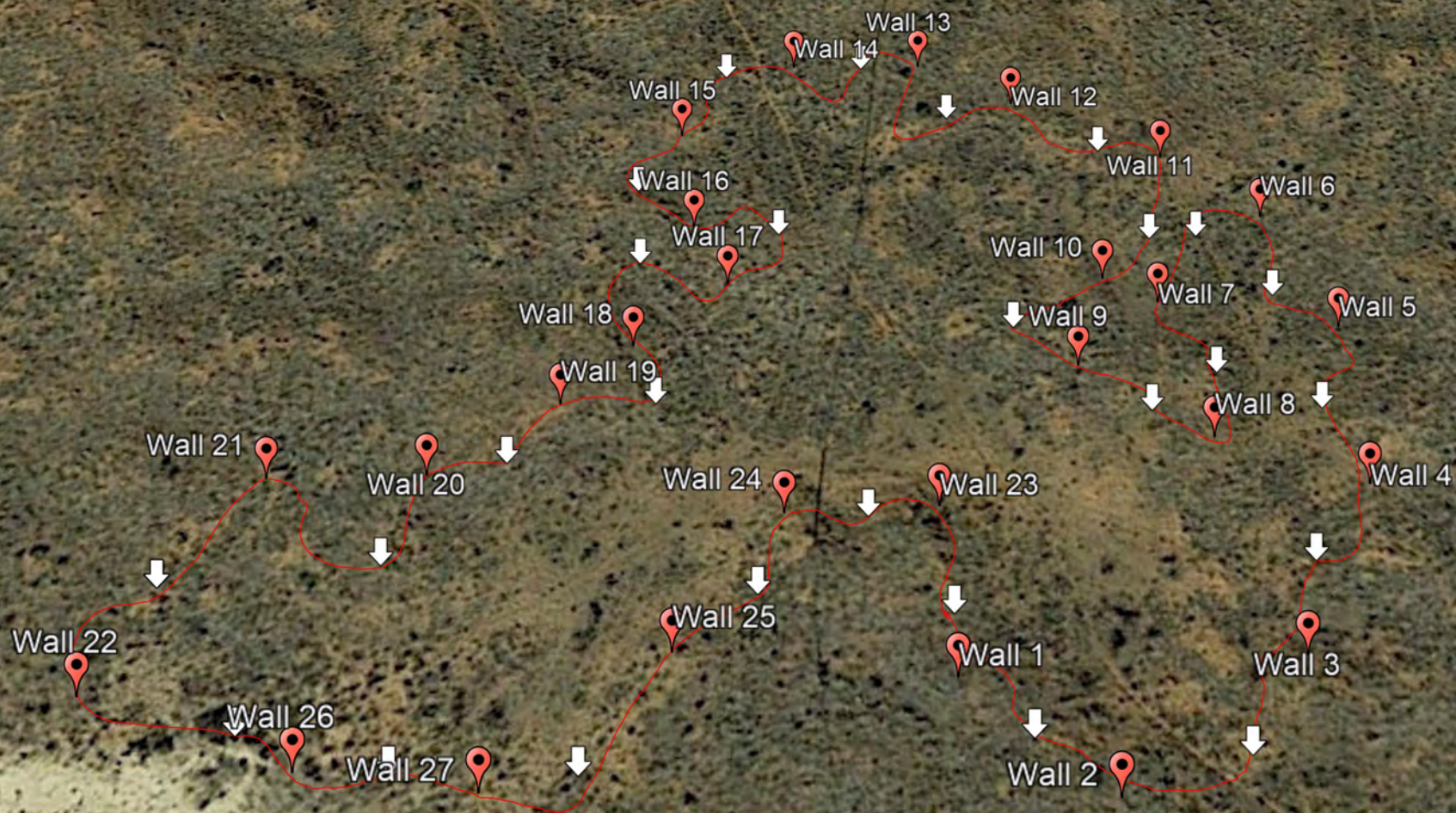
SAMPLE ID	SAMPLE DATE	DEPTH FT BGS	CHLORIDE Mg/Kg	BTEX Mg/Kg	TPH Mg/Kg
Sec W 1 Wall (H210471-01)	2-22-21	1'-4'	480	<0.300	<10.0
Sec W 2 Wall (H210471-02)	2-22-21	1'-4'	752	<0.300	<10.0
Sec W 2 Wall (H210605-01)	3-10-21	1'-4'	256	N/A	N/A
Sec W 3 Wall (H210471-03)	2-22-21	1'-4'	1090	<0.300	<10.0
Sec W 3 Wall (H210605-02)	3-10-21	1'-4'	224	N/A	N/A
Sec W 4 Wall (H210471-04)	2-22-21	1'-4'	432	<0.300	<10.0
Sec W 5 Wall (H210471-05)	2-22-21	1'-4'	576	<0.300	<10.0
Sec W 6 Wall (H210543-03)	3-4-21	1'-4'	288	<0.300	<10.0
Sec W 7 Wall (H210471-06)	2-22-21	1'-4'	560	<0.300	<10.0
Sec W 8 Wall (H210471-07)	2-22-21	1'-4'	144	<0.300	<10.0
Sec W 9 Wall (H210471-08)	2-22-21	1'-4'	848	<0.300	<10.0
Sec W 9 Wall (H210605-04)	3-10-21	1'-4'	352	<0.300	<10.0
Sec W 10 Wall (H210471-09)	2-22-21	1'-4'	656	<0.300	<10.0
Sec W 10 Wall (H210605-05)	3-10-21	1'-4'	288	N/A	N/A
Sec W 11 Wall (H210471-09)	2-22-21	1'-4'	656	<0.300	<10.0
Sec W 11 Wall (H210471-10)	2-26-21	1'-4'	352	<0.300	<10.0
Sec W 12 Wall (H210543-02)	3-4-21	1'-4'	512	<0.300	<10.0

Sec W 13 Wall (H210543-03)	3-4-21	1'-4'	464	<0.300	<10.0
Sec W 14 Wall (H210471-11)	2-26-21	1'-4'	464	<0.300	<10.0
Sec W 15 Wall (H210471-13)	2-26-21	1'-4'	384	<0.300	<10.0
Sec W 16 Wall (H210471-12)	2-26-21	1'-4'	80.0	<0.300	<10.0
Sec W 17 Wall (H210543-04)	3-4-21	1'-4'	464	<0.300	<10.0
Sec W 18 Wall (H210543-05)	3-4-21	1'-4'	608	<0.300	<10.0
Sec W 18 Wall (H210471-14)	2-26-21	1'-4'	480	<0.300	<10.0
Sec W 19 Wall (H210548-01)	3-5-21	1'-4'	352	<0.300	<10.0
Sec W 20 Wall (H210548-02)	3-5-21	1'-4'	624	<0.300	<10.0
Sec W 20 Wall (H210605-06)	3-10-21	1'-4'	272	<0.300	<10.0
Sec W 21 Wall (H210543-06)	3-4-21	1'-4'	624	<0.300	<10.0
Sec W 21 Wall (H210605-07)	3-10-21	1'-4'	272	N/A	N/A
Sec W 22 Wall (H210573-04)	3-9-21	1'-4'	464	<0.300	<10.0
Sec W 23 Wall (H210573-01)	3-9-21	1'-4'	448	<0.300	<10.0
Sec W 24 Wall (H210573-02)	3-9-21	1'-4'	448	<0.300	<10.0
Sec W 25 Wall (H210573-03)	3-9-21	1'-4'	448	<0.300	<10.0
Sec W 26 Wall (H210573-05)	3-9-21	1'-4'	176	<0.300	<10.0
Sec W 27 Wall (H210573-06)	3-9-21	1'-4'	192	<0.300	<10.0

Turner Battery Trunk Line

Legend

- Excavation
- Wall Section Line
- Wall Sections



100 ft

Google Earth

N

0

30

NE

60

E

90

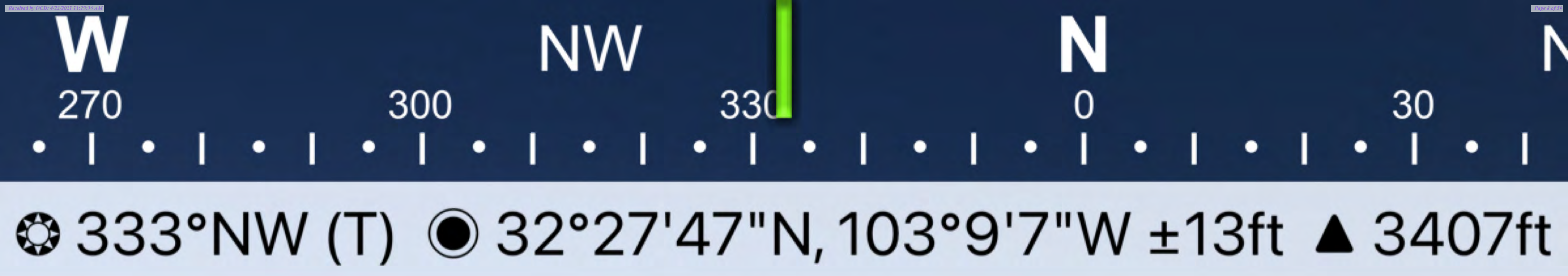
120

☀ 50°NE (T) ● 32°27'46"N, 103°9'9"W ±22ft ▲ 3416ft



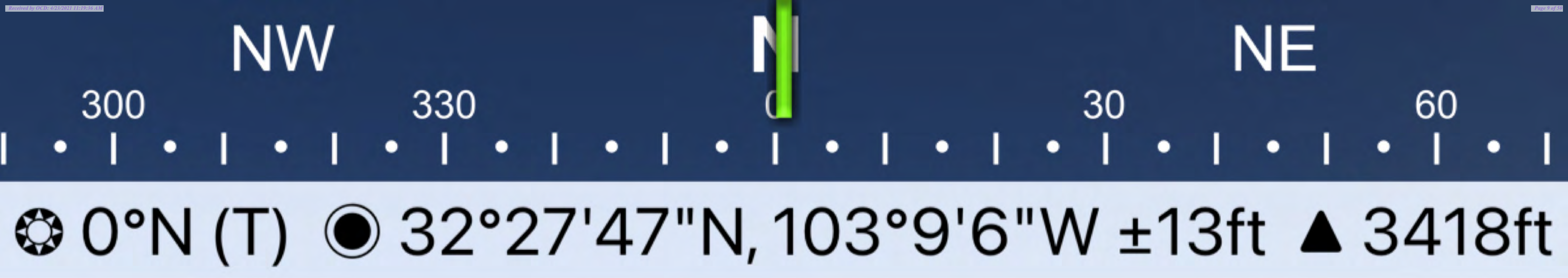
Excavation
Diamondback

Turner Trunk Line
20 Mar 2021, 08:34:03



Excavation
Diamondback

Turner Trunk Line
20 Mar 2021, 08:36:20



Excavation
Diamondback

Turner Trunk Line
20 Mar 2021, 08:36:51



Excavation
Diamondback

Turner Trunk Line
20 Mar 2021, 08:38:04



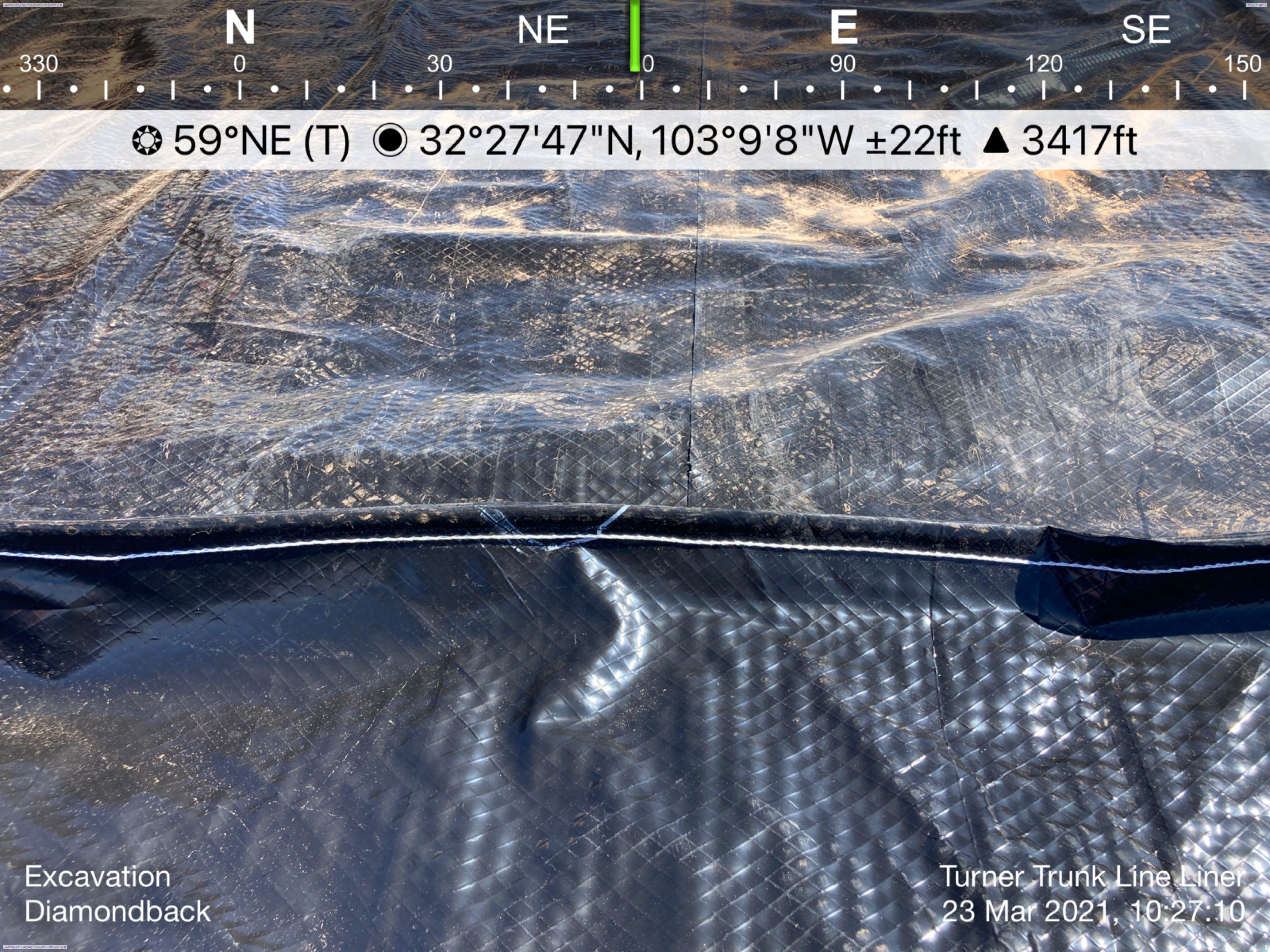
Excavation
Diamondback

Turner Trunk Line
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Excavation
Diamondback

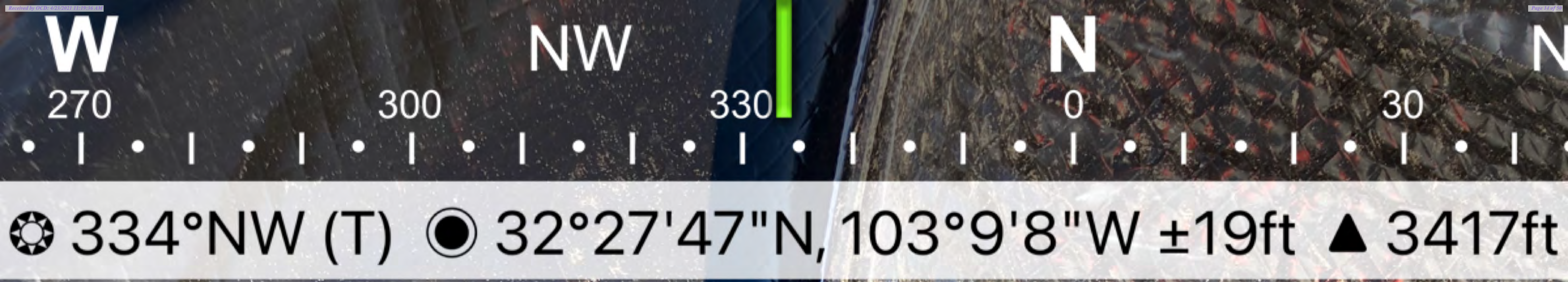
Turner Trunk Line
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☀ 59°NE (T) ● 32°27'47"N, 103°9'8"W ±22ft ▲ 3417ft

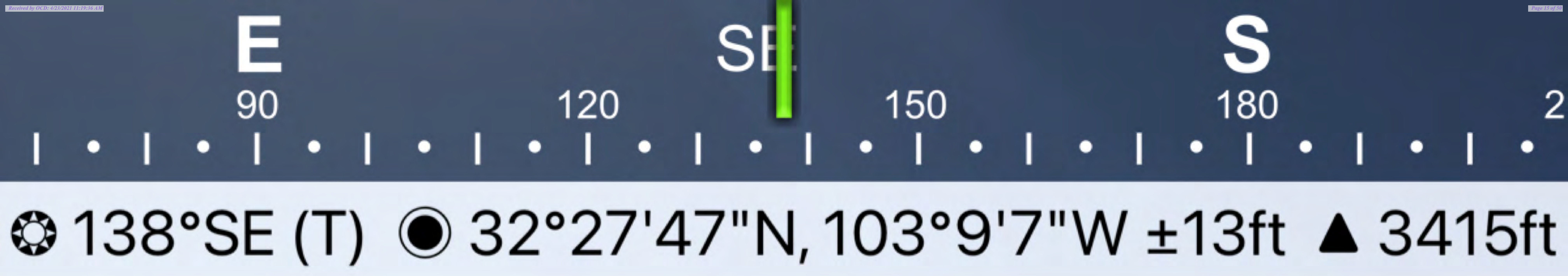
Excavation
Diamondback

Turner Trunk Line Liner
23 Mar 2021, 10:27:10



Excavation
Diamondback

Turner Trunk Line Liner
23 Mar 2021 10:27:47



Excavation
Diamondback

Turner Trunk Line Liner
23 Mar 2021, 10:28:10



☀ 327°NW (T) ● 32°27'47"N, 103°9'7"W ±19ft ▲ 3416ft



Excavation
Diamondback

Turner Trunk Line Liner
23 Mar 2021, 10:28:49



☀ 54°NE (T) ● 32°27'47"N, 103°9'8"W ±19ft ▲ 3414ft



Excavation
Diamondback

Turner Trunk Line Liner
23 Mar 2021, 10:29:06



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

March 03, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TURNER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/01/21 8:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	03/01/2021	Sampling Date:	02/22/2021
Reported:	03/03/2021	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	TURNER BATTERY TRUNK LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W 1 1-4 BGS (H210471-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2021	ND	2.08	104	2.00	2.65		
Toluene*	<0.050	0.050	03/01/2021	ND	2.12	106	2.00	2.18		
Ethylbenzene*	<0.050	0.050	03/01/2021	ND	2.05	102	2.00	3.21		
Total Xylenes*	<0.150	0.150	03/01/2021	ND	5.98	99.7	6.00	3.07		
Total BTEX	<0.300	0.300	03/01/2021	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/01/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2021	ND	214	107	200	1.75	
DRO >C10-C28*	<10.0	10.0	03/02/2021	ND	225	112	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	03/02/2021	ND					

Surrogate: 1-Chlorooctane 76.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.2 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	03/01/2021	Sampling Date:	02/22/2021
Reported:	03/03/2021	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	TURNER BATTERY TRUNK LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W 2 1-4 BGS (H210471-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2021	ND	2.08	104	2.00	2.65	
Toluene*	<0.050	0.050	03/01/2021	ND	2.12	106	2.00	2.18	
Ethylbenzene*	<0.050	0.050	03/01/2021	ND	2.05	102	2.00	3.21	
Total Xylenes*	<0.150	0.150	03/01/2021	ND	5.98	99.7	6.00	3.07	
Total BTEX	<0.300	0.300	03/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	03/01/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2021	ND	214	107	200	1.75	
DRO >C10-C28*	<10.0	10.0	03/02/2021	ND	225	112	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	03/02/2021	ND					

Surrogate: 1-Chlorooctane 77.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.2 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	03/01/2021	Sampling Date:	02/22/2021
Reported:	03/03/2021	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	TURNER BATTERY TRUNK LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W 3 1-4 BGS (H210471-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2021	ND	2.17	109	2.00	0.320	
Toluene*	<0.050	0.050	03/01/2021	ND	2.18	109	2.00	0.206	
Ethylbenzene*	<0.050	0.050	03/01/2021	ND	2.13	106	2.00	0.296	
Total Xylenes*	<0.150	0.150	03/01/2021	ND	6.23	104	6.00	0.417	
Total BTEX	<0.300	0.300	03/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	03/01/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2021	ND	214	107	200	1.75	
DRO >C10-C28*	<10.0	10.0	03/02/2021	ND	225	112	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	03/02/2021	ND					

Surrogate: 1-Chlorooctane 78.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.4 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 03/01/2021
 Reported: 03/03/2021
 Project Name: TURNER BATTERY
 Project Number: TURNER BATTERY TRUNK LINE
 Project Location: NONE GIVEN

Sampling Date: 02/22/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 4 1-4 BGS (H210471-04)

BTEX 8021B			mg/kg Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2021	ND	2.17	109	2.00	0.320	
Toluene*	<0.050	0.050	03/01/2021	ND	2.18	109	2.00	0.206	
Ethylbenzene*	<0.050	0.050	03/01/2021	ND	2.13	106	2.00	0.296	
Total Xylenes*	<0.150	0.150	03/01/2021	ND	6.23	104	6.00	0.417	
Total BTEX	<0.300	0.300	03/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B			mg/kg Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	03/01/2021	ND	416	104	400	3.92	

TPH 8015M			mg/kg Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2021	ND	214	107	200	1.75	
DRO >C10-C28*	<10.0	10.0	03/02/2021	ND	225	112	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	03/02/2021	ND					

Surrogate: 1-Chlorooctane 78.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.1 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	03/01/2021	Sampling Date:	02/22/2021
Reported:	03/03/2021	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	TURNER BATTERY TRUNK LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W 8 1-4 BGS (H210471-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2021	ND	2.17	109	2.00	0.320	
Toluene*	<0.050	0.050	03/01/2021	ND	2.18	109	2.00	0.206	
Ethylbenzene*	<0.050	0.050	03/01/2021	ND	2.13	106	2.00	0.296	
Total Xylenes*	<0.150	0.150	03/01/2021	ND	6.23	104	6.00	0.417	
Total BTEX	<0.300	0.300	03/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/01/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2021	ND	218	109	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/02/2021	ND	208	104	200	0.826	
EXT DRO >C28-C36	<10.0	10.0	03/02/2021	ND					

Surrogate: 1-Chlorooctane 73.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.6 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 03/01/2021
 Reported: 03/03/2021
 Project Name: TURNER BATTERY
 Project Number: TURNER BATTERY TRUNK LINE
 Project Location: NONE GIVEN

Sampling Date: 02/22/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 9 1-4 BGS (H210471-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2021	ND	2.17	109	2.00	0.320	
Toluene*	<0.050	0.050	03/01/2021	ND	2.18	109	2.00	0.206	
Ethylbenzene*	<0.050	0.050	03/01/2021	ND	2.13	106	2.00	0.296	
Total Xylenes*	<0.150	0.150	03/01/2021	ND	6.23	104	6.00	0.417	
Total BTX	<0.300	0.300	03/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	03/01/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2021	ND	218	109	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/02/2021	ND	208	104	200	0.826	
EXT DRO >C28-C36	<10.0	10.0	03/02/2021	ND					

Surrogate: 1-Chlorooctane 76.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 03/01/2021
 Reported: 03/03/2021
 Project Name: TURNER BATTERY
 Project Number: TURNER BATTERY TRUNK LINE
 Project Location: NONE GIVEN

Sampling Date: 02/22/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 11 1-4 BGS (H210471-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2021	ND	2.17	109	2.00	0.320		
Toluene*	<0.050	0.050	03/01/2021	ND	2.18	109	2.00	0.206		
Ethylbenzene*	<0.050	0.050	03/01/2021	ND	2.13	106	2.00	0.296		
Total Xylenes*	<0.150	0.150	03/01/2021	ND	6.23	104	6.00	0.417		
Total BTEx	<0.300	0.300	03/01/2021	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	03/01/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2021	ND	218	109	200	0.265	
DRO >C10-C28*	<10.0	10.0	03/02/2021	ND	208	104	200	0.826	
EXT DRO >C28-C36	<10.0	10.0	03/02/2021	ND					

Surrogate: 1-Chlorooctane 75.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

March 09, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TURNER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/04/21 16:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 03/04/2021
 Reported: 03/09/2021
 Project Name: TURNER BATTERY
 Project Number: TURNER BATTERY TRUNK LINE
 Project Location: NONE GIVEN

Sampling Date: 03/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 6 BGS 1'- 4' (H210543-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2021	ND	2.10	105	2.00	0.593	
Toluene*	<0.050	0.050	03/05/2021	ND	2.11	105	2.00	1.05	
Ethylbenzene*	<0.050	0.050	03/05/2021	ND	2.08	104	2.00	0.860	
Total Xylenes*	<0.150	0.150	03/05/2021	ND	6.11	102	6.00	1.01	
Total BTEX	<0.300	0.300	03/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/05/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2021	ND	202	101	200	5.54	
DRO >C10-C28*	<10.0	10.0	03/05/2021	ND	227	113	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/05/2021	ND					

Surrogate: 1-Chlorooctane 85.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 03/04/2021
 Reported: 03/09/2021
 Project Name: TURNER BATTERY
 Project Number: TURNER BATTERY TRUNK LINE
 Project Location: NONE GIVEN

Sampling Date: 03/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 12 BGS 1'- 4' (H210543-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2021	ND	2.10	105	2.00	0.593	
Toluene*	<0.050	0.050	03/05/2021	ND	2.11	105	2.00	1.05	
Ethylbenzene*	<0.050	0.050	03/05/2021	ND	2.08	104	2.00	0.860	
Total Xylenes*	<0.150	0.150	03/05/2021	ND	6.11	102	6.00	1.01	
Total BTEX	<0.300	0.300	03/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/05/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2021	ND	202	101	200	5.54	
DRO >C10-C28*	<10.0	10.0	03/05/2021	ND	227	113	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/05/2021	ND					

Surrogate: 1-Chlorooctane 80.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	03/04/2021	Sampling Date:	03/04/2021
Reported:	03/09/2021	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	TURNER BATTERY TRUNK LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W 17 BGS 1'- 4' (H210543-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2021	ND	2.10	105	2.00	0.593	
Toluene*	<0.050	0.050	03/05/2021	ND	2.11	105	2.00	1.05	
Ethylbenzene*	<0.050	0.050	03/05/2021	ND	2.08	104	2.00	0.860	
Total Xylenes*	<0.150	0.150	03/05/2021	ND	6.11	102	6.00	1.01	
Total BTEX	<0.300	0.300	03/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/05/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2021	ND	199	99.5	200	10.6	
DRO >C10-C28*	<10.0	10.0	03/08/2021	ND	218	109	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 80.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.5 % 42.2-156

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Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	03/04/2021	Sampling Date:	03/04/2021
Reported:	03/09/2021	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	TURNER BATTERY TRUNK LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W 18 BGS 1'- 4' (H210543-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2021	ND	2.10	105	2.00	0.593	
Toluene*	<0.050	0.050	03/05/2021	ND	2.11	105	2.00	1.05	
Ethylbenzene*	<0.050	0.050	03/05/2021	ND	2.08	104	2.00	0.860	
Total Xylenes*	<0.150	0.150	03/05/2021	ND	6.11	102	6.00	1.01	
Total BTEX	<0.300	0.300	03/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	03/05/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2021	ND	199	99.5	200	10.6	
DRO >C10-C28*	<10.0	10.0	03/08/2021	ND	218	109	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 03/04/2021
 Reported: 03/09/2021
 Project Name: TURNER BATTERY
 Project Number: TURNER BATTERY TRUNK LINE
 Project Location: NONE GIVEN

Sampling Date: 03/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 21 BGS 1'- 4' (H210543-06)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2021	ND	2.10	105	2.00	0.593		
Toluene*	<0.050	0.050	03/05/2021	ND	2.11	105	2.00	1.05		
Ethylbenzene*	<0.050	0.050	03/05/2021	ND	2.08	104	2.00	0.860		
Total Xylenes*	<0.150	0.150	03/05/2021	ND	6.11	102	6.00	1.01		
Total BTX	<0.300	0.300	03/05/2021	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	03/05/2021	ND	416	104	400	3.77	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2021	ND	199	99.5	200	10.6	
DRO >C10-C28*	<10.0	10.0	03/08/2021	ND	218	109	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND					

Surrogate: 1-Chlorooctane 80.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Apache

P.O. #:

Project Manager: Bruce Baker

Company:

Address:

Attn:

City: Hobbs

State: NM Zip: 88240

Phone #:

Fax #:

Project #:

Project Owner:

Project Name:

City:

State:

Zip:

Project Location: Turner Battery Truck line

Address:

Phone #:

Fax #:

Sample Name: Joe Casadeja Jr.

PRESERV:

SAMPLING

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H210543

4002 Durs.

1 W16 BGS 1'-4'
2 W12 BGS 1'-4'
3 W13 BGS 1'-4'
4 W17 BGS 1'-4'
5 W18 BGS 1'-4'
6 W21 BGS 1'-4'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

(C) COOL

OTHER:

DATE

TIME

10:36 AM

10:38 AM

10:40 AM

10:42 AM

10:44 AM

10:46 AM

10:48 AM

10:50 AM

10:52 AM

10:54 AM

10:56 AM

10:58 AM

11:00 AM

11:02 AM

11:04 AM

11:06 AM

11:08 AM

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

March 09, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TURNER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/05/21 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 03/05/2021
 Reported: 03/09/2021
 Project Name: TURNER BATTERY
 Project Number: TURNER BATTERY TRUNK LINE
 Project Location: NONE GIVEN

Sampling Date: 03/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 19 BGS 1'-4' (H210548-01)

BTX 8021B			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	03/08/2021	ND	2.12	106	2.00	2.44			
Toluene*	<0.050	0.050	03/08/2021	ND	2.12	106	2.00	1.80			
Ethylbenzene*	<0.050	0.050	03/08/2021	ND	2.08	104	2.00	2.90			
Total Xylenes*	<0.150	0.150	03/08/2021	ND	6.15	103	6.00	3.08			
Total BTX	<0.300	0.300	03/08/2021	ND							

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/08/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/08/2021	ND	203	101	200	6.96		
DRO >C10-C28*	<10.0	10.0	03/08/2021	ND	222	111	200	6.04		
EXT DRO >C28-C36	<10.0	10.0	03/08/2021	ND						

Surrogate: 1-Chlorooctane 82.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.4 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

March 15, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TURNER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/09/21 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	03/09/2021	Sampling Date:	03/09/2021
Reported:	03/15/2021	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	** (See Notes)
Project Number:	TURNER BATTERY TRUNK LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W 23 BGS 1'-4' (H210573-01)

BTEX 8021B			mg/kg							
			Analyzed By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2021	ND	2.02	101	2.00	0.458		
Toluene*	<0.050	0.050	03/11/2021	ND	2.09	105	2.00	1.47		
Ethylbenzene*	<0.050	0.050	03/11/2021	ND	2.12	106	2.00	1.20		
Total Xylenes*	<0.150	0.150	03/11/2021	ND	6.68	111	6.00	1.25		
Total BTEX	<0.300	0.300	03/11/2021	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 73.3-129

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	03/11/2021	ND	416	104	400	3.92		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/10/2021	ND	208	104	200	1.61		
DRO >C10-C28*	<10.0	10.0	03/10/2021	ND	218	109	200	0.365		
EXT DRO >C28-C36	<10.0	10.0	03/10/2021	ND						

Surrogate: 1-Chlorooctane 81.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 03/09/2021
 Reported: 03/15/2021
 Project Name: TURNER BATTERY
 Project Number: TURNER BATTERY TRUNK LINE
 Project Location: NONE GIVEN

Sampling Date: 03/09/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: W 24 BGS 1'-4' (H210573-02)

BTX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2021	ND	2.02	101	2.00	0.458	
Toluene*	<0.050	0.050	03/11/2021	ND	2.09	105	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/11/2021	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	03/11/2021	ND	6.68	111	6.00	1.25	
Total BTX	<0.300	0.300	03/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/11/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2021	ND	208	104	200	1.61	
DRO >C10-C28*	<10.0	10.0	03/10/2021	ND	218	109	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	03/10/2021	ND					

Surrogate: 1-Chlorooctane 78.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 03/09/2021
 Reported: 03/15/2021
 Project Name: TURNER BATTERY
 Project Number: TURNER BATTERY TRUNK LINE
 Project Location: NONE GIVEN

Sampling Date: 03/09/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: W 25 BGS 1'-4' (H210573-03)

BTX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2021	ND	2.02	101	2.00	0.458	
Toluene*	<0.050	0.050	03/11/2021	ND	2.09	105	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/11/2021	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	03/11/2021	ND	6.68	111	6.00	1.25	
Total BTX	<0.300	0.300	03/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/11/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2021	ND	208	104	200	1.61	
DRO >C10-C28*	<10.0	10.0	03/10/2021	ND	218	109	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	03/10/2021	ND					

Surrogate: 1-Chlorooctane 77.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 03/09/2021
 Reported: 03/15/2021
 Project Name: TURNER BATTERY
 Project Number: TURNER BATTERY TRUNK LINE
 Project Location: NONE GIVEN

Sampling Date: 03/09/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: W 22 BGS 1'-4' (H210573-04)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2021	ND	2.02	101	2.00	0.458	
Toluene*	<0.050	0.050	03/11/2021	ND	2.09	105	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/11/2021	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	03/11/2021	ND	6.68	111	6.00	1.25	
Total BTX	<0.300	0.300	03/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	03/11/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2021	ND	208	104	200	1.61	
DRO >C10-C28*	<10.0	10.0	03/10/2021	ND	218	109	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	03/10/2021	ND					

Surrogate: 1-Chlorooctane 76.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 03/09/2021
 Reported: 03/15/2021
 Project Name: TURNER BATTERY
 Project Number: TURNER BATTERY TRUNK LINE
 Project Location: NONE GIVEN

Sampling Date: 03/09/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: W 26 BGS 1'-4' (H210573-05)**BTEX 8021B**

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2021	ND	2.02	101	2.00	0.458	
Toluene*	<0.050	0.050	03/11/2021	ND	2.09	105	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/11/2021	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	03/11/2021	ND	6.68	111	6.00	1.25	
Total BTEX	<0.300	0.300	03/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 73.3-129

Chloride, SM4500Cl-B

mg/kg

Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/11/2021	ND	416	104	400	3.92	

TPH 8015M

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2021	ND	208	104	200	1.61	
DRO >C10-C28*	<10.0	10.0	03/10/2021	ND	218	109	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	03/10/2021	ND					

Surrogate: 1-Chlorooctane 78.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.2 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 03/09/2021
 Reported: 03/15/2021
 Project Name: TURNER BATTERY
 Project Number: TURNER BATTERY TRUNK LINE
 Project Location: NONE GIVEN

Sampling Date: 03/09/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: W 27 BGS 1'-4' (H210573-06)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2021	ND	2.02	101	2.00	0.458	
Toluene*	<0.050	0.050	03/11/2021	ND	2.09	105	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/11/2021	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	03/11/2021	ND	6.68	111	6.00	1.25	
Total BTEX	<0.300	0.300	03/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 110 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/11/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2021	ND	208	104	200	1.61	
DRO >C10-C28*	<10.0	10.0	03/10/2021	ND	218	109	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	03/10/2021	ND					

Surrogate: 1-Chlorooctane 74.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 70.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Asphalt</u> Project Manager: <u>Brian Burt</u> Address: City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> Phone #: Fax #: Project #: Project Owner: Project Name: Project Location: <u>Turkey Battery Truck Line</u> Sampler Name: <u>Joe Casadevall</u>		BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST		
FOR LAB USE ONLY Lab I.D. <u>H210573</u> Sample I.D. <u>1 W03 BLS 1-4'</u> <u>2 W04 BLS 1-4'</u> <u>3 W05 BLS 1-4'</u> <u>4 W08 BLS 1-4'</u> <u>5 W02 BLS 1-4'</u> <u>6 W01 BLS 1-4'</u>		(G)RAB OR (C)OMP # CONTAINERS MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: (ICE) COOL OTHER :	PRESERV. SAMPLING DATE TIME	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Add'l Phone #: Verbal Result: <input type="checkbox"/> YES <input type="checkbox"/> NO Add'l Email address: REMARKS: <u>Demond Bate 214 @ khoo.com</u> <u>Envel 1 Bruce B. Justin R.</u> <u>Turnaround Time: Standard</u> <u>Thermometer ID #113</u> <u>Correction Factor None</u> Bacteria (only) Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C	Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: (Initials) <u>40</u>	Relinquished By: Date: <u>3-9-21</u> Time: <u>1:45</u> Received By: <u>Demond Bate</u> Date: <u>3-9-21</u> Time: <u>1:45</u> Observed Temp. °C <u>8.4</u> Corrected Temp. °C Sampler - UPS - Bats - Other:



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

March 15, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TURNER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/10/21 16:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 03/10/2021
 Reported: 03/15/2021
 Project Name: TURNER BATTERY
 Project Number: TRUNK LINE (TBTL)
 Project Location: NONE GIVEN

Sampling Date: 03/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W 2 BGS 1'- 4' (H210605-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/12/2021	ND	400	100	400	0.00	

Sample ID: W 3 BGS 1'- 4' (H210605-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/12/2021	ND	400	100	400	0.00	

Sample ID: W 18 BGS 1'- 4' (H210605-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/12/2021	ND	400	100	400	0.00	

Sample ID: W 9 BGS 1'- 4' (H210605-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/12/2021	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 03/10/2021
 Reported: 03/15/2021
 Project Name: TURNER BATTERY
 Project Number: TRUNK LINE (TBTL)
 Project Location: NONE GIVEN

Sampling Date: 03/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W 10 BGS 1'- 4' (H210605-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/12/2021	ND	400	100	400	0.00	

Sample ID: W 20 BGS 1'- 4' (H210605-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/12/2021	ND	400	100	400	0.00	

Sample ID: W 21 BGS 1'- 4' (H210605-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/12/2021	ND	400	100	400	0.00	

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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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u>		P.O. #:		BILL TO											
Project Manager: <u>Bruce Baker</u>		Company:		ANALYSIS REQUEST											
Address:		Attn:													
City: <u>Hobbs</u>		Address:													
State: <u>NM</u> Zip: <u>88240</u>		City:													
Phone #:		State:													
Project #:		Zip:													
Project Name:		Phone #:													
Project Location: <u>Turner Raptor Banding Station (TRBS)</u>		Fax #:													
Sampler Name: <u>Joe Quevedo Jr.</u>		PRESERV.													
FOR LAB USE ONLY		SAMPLING													
Lab I.D.		Sample I.D.													
H21D605		H21D605													
1		1													
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District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 25374

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 25374
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	6/22/2021