

**Apache Corporation  
Kincaid Watson Federal #1 Battery  
NRM2024462399**

**Final Remediation Report**

## Introduction

This report presents the results of remediation activities at the Kincaid Watson Federal #1 Battery. On behalf of Apache Corporation (Apache), Diamondback Disposal Services, Inc (Diamondback) was tasked with the cleanup and remediation of release NRM2024462399. The release occurred in Unit Letter B, Section 18, Township 18S, Range 31E at coordinates 32.75349, -103.90671. 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 December 21, 2020.

## Overview

The spill site is located mostly on BLM lease land, consisting of grass, prairie, or range lands. Approximately 248 barrels of crude oil was lost with approximately 135 barrels bbls being recovered, due to a corroded 4-inch nipple on oil tank.

## Regulatory Guidelines

Upon review of the site characteristics, the three nearest wells of record suggest depth to ground water to be greater than 100 feet below ground surface (bgs), according to well data obtained from New Mexico Office of the State Engineer. These wells were not within the half mile radius set forth by rule, therefore Apache has opted to follow Table 1 Closure Criteria for ground water depth of less than 50 feet. The Recommended Remediation Action Levels (RRAL), determined by the latest NMOCD guidelines (19.15.29 NMAC) are as follows: 600mg/kg Chloride, 100 mg/kg GRO/DRO/MRO, 50 mg/kg BTEX, 10mg/kg Benzene.

## Remediation Activities

Between the dates of May 7, 2021, and May 27, 2021, Diamondback excavated approximately 1,600 cubic yards (cy) of impacted material, loaded, and transported to R-360 Halfway Facility for disposal. Depth of excavation ranges from approximately 4 feet bgs to 7 feet bgs. Between the dates of May 13, 2021 and May 27, 2021 the site was sampled to determine if RRAL's had been met. Five-point composite samples were collected, every 500 square feet of side wall and 500 square feet of floor area, 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, most of all floor and wall samples prove to be below Table 1 RRAL's for site closure except for Floor B 8, which was over excavated and re-sampled and confirmed below RRAL's. Sections B 14, B 15, B 16, B 17, B 18 were also above RRAL's and will be addressed below in deferment section. On June 5, 2021, backfilling began and ran thru June 7, 2021. Approximately 1,820 cy of "Like Material" was obtained from a local private source. Backfill 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 BLM.

### **Deferment**

The analytical representing B 14, B 15, B 16, B 17, B18 (floor samples) all show elevated levels of contaminants above the stated RRAL's for site closure. These areas are inside an active production facility and cannot be excavated any more than 1-foot bgs, due to active operational surface equipment and tanks. Therefore, Diamondback on behalf of Apache Corp. respectfully asks for a deferment for these areas and as such, the impacted soil represented by these floor samples will be remediated as part of final reclamation efforts when the Facility is removed from service.

### **Conclusions**

Upon review all analytical and data provide by the third-party independent lab, it is our belief that all recommended remediation action levels have been met other than areas of deferment. Being that the spill area was excavated to a depth of 4 feet bgs or greater, we fill all restoration and reclamation standards have been met, other than deferment areas. 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	

## Remediation Plan

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

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

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

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

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

Printed Name: Larry Baker Title: Environmental Tech SR.  
Signature: Larry Baker Date: 6/10/2021  
email: larry.baker@apachecorp.com Telephone: 432-631-6982

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Project Name:**  
**Kincaid Watson Federal**  
**#1 Battery**

<b>SAMPLE ID</b>	<b>SAMPLE DATE</b>	<b>DEPTH FT BGS</b>	<b>CHLORIDE Mg/Kg</b>	<b>BTEX Mg/Kg</b>	<b>TPH Mg/Kg</b>
W 1 Wall (H211255-01)	5-13-21	1'-8'	<16.0	<0.300	<10.0
W 2 Wall (H211255-02)	5-13-21	1'-5'	<16.0	<0.300	<10.0
W 3 Wall (H211255-03)	5-13-21	1'-5'	<16.0	<0.300	<10.0
B 1 Floor (H211255-04)	5-13-21	8'	<16.0	<0.300	<10.0
B 2 Floor (H211255-05)	5-13-21	5'	<16.0	<0.300	<10.0
<b>SAMPLE ID</b>	<b>SAMPLE DATE</b>	<b>DEPTH FT BGS</b>	<b>CHLORIDE Mg/Kg</b>	<b>BTEX Mg/Kg</b>	<b>TPH Mg/Kg</b>
B 3 Floor (H211305-01)	5-19-21	1'-5'	32.0	<0.300	<10.0
W 4 Wall (H211305-02)	5-19-21	5'	<16.0	<0.300	<10.0
W 5 Wall (H211305-03)	5-19-21	1'-5'	<16.0	<0.300	29.9
W 6 Wall (H211305-04)	5-19-21	1'-6'	96.0	<0.300	<10.0
W 7 Wall (H211305-05)	5-19-21	1'-5'	<16.0	<0.300	94.6
W 8 Wall (H211305-06)	5-19-21	1'-5'	<16.0	<0.300	<10.0

SAMPLE ID	SAMPLE DATE	DEPTH FT BGS	CHLORIDE Mg/Kg	BTEX Mg/Kg	TPH Mg/Kg
B 4 Floor (H211328-01)	5-21-21	5'	48.0	<0.300	<10.0
B 5 Floor (H211328-02)	5-21-21	5'	48.0	<0.300	<10.0
B 6 Floor (H211328-03)	5-21-21	5'	64.0	<0.300	33.8
B 7 Wall (H211328-04)	5-21-21	5'	16.0	<0.300	<10.0
B 8 Floor (H211328-05)	5-21-21	5'	32.2	81.002	1833.4
B 8 Floor (H211373-01)	5-27-21	7'	NA	0.281	<10.0
B 9 Floor (H211328-06)	5-21-21	5'	<16.0	<0.300	30.5
B 10 Floor (H211328-07)	5-21-21	4'	64.0	<0.300	<10.0
B 11 Floor (H211328-08)	5-21-21	6'	80.0	<0.300	<10.0
B 12 Floor (H211328-09)	5-21-21	1'	32.0	<0.300	12.0
B 13 Floor (H211328-10)	5-21-21	1'	32.0	<0.300	45.3
W 9 Wall (H211328-11)	5-21-21	0'-1'	32.0	<0.300	<10.0

SAMPLE ID	SAMPLE DATE	DEPTH FT BGS	CHLORIDE Mg/Kg	BTEX Mg/Kg	TPH Mg/Kg
W 10 Wall (H211335-01)	5-24-21	0'-1'	48.0	<0.300	28.2
B 14 Floor (H211335-02)	5-24-21	1'	928	65.6	10677.0
B 15 Floor (H211335-03)	5-24-21	1'	3080	62.3	16214.0

<b>B 16 Floor (H211335-04)</b>	<b>5-24-21</b>	<b>1'</b>	<b>1500</b>	109	<b>17060.0</b>
<b>B 17 Floor (H211335-05)</b>	<b>5-24-21</b>	<b>1'</b>	<b>48.0</b>	<0.300	<b>45.20</b>
<b>B 18 Floor (H211335-06)</b>	<b>5-24-21</b>	<b>1'</b>	<b>32.0</b>	26.21	<b>1938.6</b>

Legend

Excavation

Floor Section Lines

Sample Points

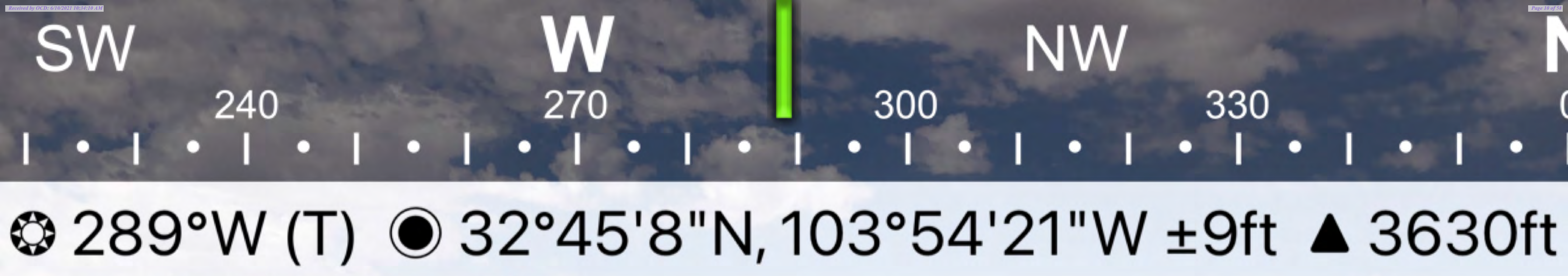
Wall Section Lines





Excavation  
Diamondback

Kincaid Watson  
02 Jun 2021, 11:00:18



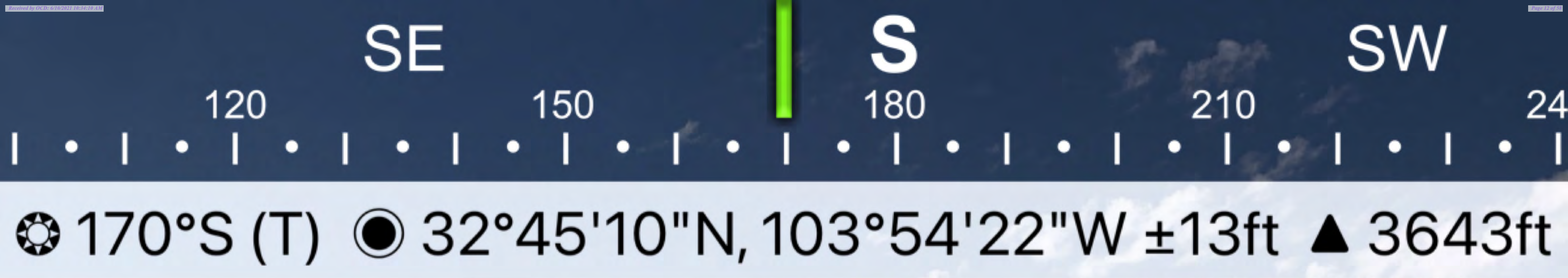
Excavation  
Diamondback

Kincaid Watson  
02 Jun 2021, 11:00:56



Excavation  
Diamondback

Kincaid Watson  
02 Jun 2021, 11:01:14



Excavation  
Diamondback

Kincaid Watson  
02 Jun 2021, 11:02:19



Excavation  
Diamondback

Kincaid Watson  
02 Jun 2021, 11:02:29

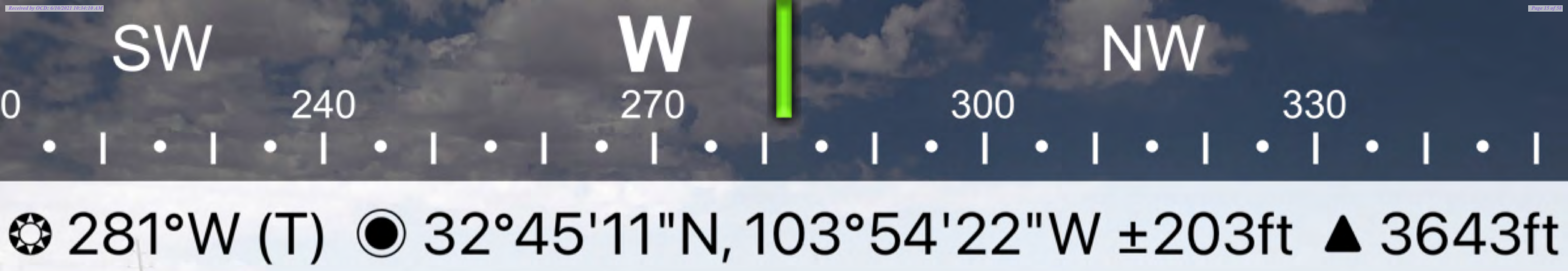


☀ 220°SW (T)    🕒 32°45'11"N, 103°54'22"W ±213ft    ▲ 3642ft



Excavation  
Diamondback

Kincaid Watson  
02 Jun 2021, 11:02:51



Excavation  
Diamondback

Kincaid Watson  
02 Jun 2021, 11:03:17



☀ 294°NW (T)    ● 32°45'12"N, 103°54'22"W ±13ft    ▲ 3647ft



Excavation  
Diamondback

Kincaid Watson  
02 Jun 2021, 11:04:01

Kincaid Watson  
02 Jun 2021, 11:04:29

SE

150

S

180

210

SW

240

☀ 194°S (T)    🕒 32°45'12"N, 103°54'23"W ±16ft    ▲ 3646ft

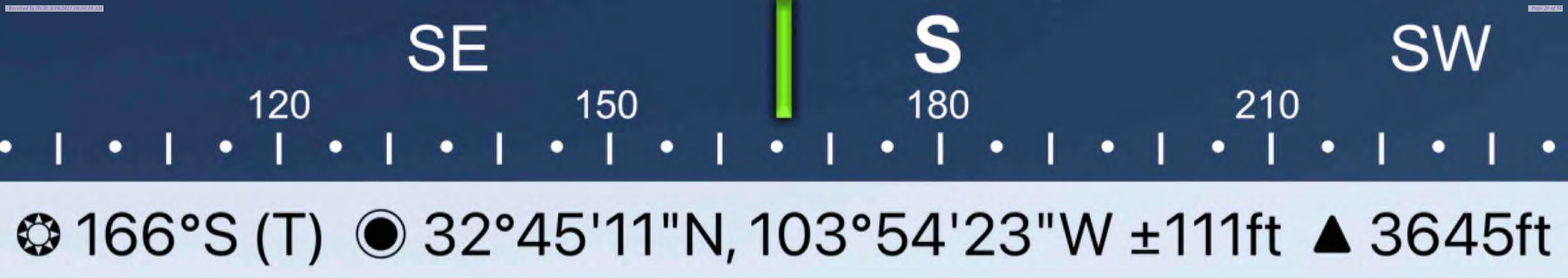


Excavation  
Diamondback

Kincaid Watson  
02 Jun 2021, 11:04:35



07 Jun 2021, 15:37:06



07 Jun 2021, 15:39:05



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

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May 25, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: KINCAID WATSON

Enclosed are the results of analyses for samples received by the laboratory on 05/19/21 16:49.

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](http://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,

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:	05/19/2021	Sampling Date:	05/19/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KINCAID WATSON FED #1 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: B 3 @ 5' (H211305-01)**

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	05/21/2021	ND	2.05	103	2.00	3.93	
Toluene*	<0.050	0.050	05/21/2021	ND	2.01	101	2.00	3.36	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	1.94	96.8	2.00	3.72	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	5.87	97.9	6.00	3.29	
Total BTEX	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	213	106	200	2.17	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	218	109	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					


Surrogate: 1-Chlorooctane 91.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.2 % 38.9-142

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:	05/19/2021	Sampling Date:	05/19/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KINCAID WATSON FED #1 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 4 BGS 1-5' (H211305-02)

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	05/21/2021	ND	2.05	103	2.00	3.93		
Toluene*	<0.050	0.050	05/21/2021	ND	2.01	101	2.00	3.36		
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	1.94	96.8	2.00	3.72		
Total Xylenes*	<0.150	0.150	05/21/2021	ND	5.87	97.9	6.00	3.29		
Total BTEX	<0.300	0.300	05/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/21/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	213	106	200	2.17		
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	218	109	200	3.32		
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND						

Surrogate: 1-Chlorooctane 88.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.1 % 38.9-142

Cardinal Laboratories

\*=Accredited Analyte

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*Celestine D. Keene*

Celestine 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:	05/19/2021	Sampling Date:	05/19/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KINCAID WATSON FED #1 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 5 BGS 1-5' (H211305-03)

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	05/21/2021	ND	2.05	103	2.00	3.93	
Toluene*	<0.050	0.050	05/21/2021	ND	2.01	101	2.00	3.36	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	1.94	96.8	2.00	3.72	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	5.87	97.9	6.00	3.29	
Total BTEX	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	213	106	200	2.17	
DRO >C10-C28*	29.9	10.0	05/21/2021	ND	218	109	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 83.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.9 % 38.9-142

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\*=Accredited Analyte

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*Celestine Keene*

Celestine 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:	05/19/2021	Sampling Date:	05/19/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KINCAID WATSON FED #1 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 6 BGS 1-6' (H211305-04)

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	05/21/2021	ND	2.05	103	2.00	3.93	
Toluene*	<0.050	0.050	05/21/2021	ND	2.01	101	2.00	3.36	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	1.94	96.8	2.00	3.72	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	5.87	97.9	6.00	3.29	
Total BTEX	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PII) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	213	106	200	2.17	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	218	109	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.4 % 38.9-142

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\*=Accredited Analyte

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Celestine 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:	05/19/2021	Sampling Date:	05/19/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KINCAID WATSON FED #1 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 7 BGS 1-5' (H211305-05)

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	05/21/2021	ND	2.05	103	2.00	3.93	
Toluene*	<0.050	0.050	05/21/2021	ND	2.01	101	2.00	3.36	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	1.94	96.8	2.00	3.72	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	5.87	97.9	6.00	3.29	
Total BTEX	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PII) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	213	106	200	2.17	
DRO >C10-C28*	81.5	10.0	05/21/2021	ND	218	109	200	3.32	
EXT DRO >C28-C36	13.1	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 91.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.7 % 38.9-142

Cardinal Laboratories

\*=Accredited Analyte

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Celestine Keene

Celestine 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:	05/19/2021	Sampling Date:	05/19/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KINCAID WATSON FED #1 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: W 8 BGS 1-5' (H211305-06)**

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	05/21/2021	ND	2.05	103	2.00	3.93	
Toluene*	<0.050	0.050	05/21/2021	ND	2.01	101	2.00	3.36	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	1.94	96.8	2.00	3.72	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	5.87	97.9	6.00	3.29	
Total BTEX	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	213	106	200	2.17	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	218	109	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.3 % 38.9-142

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

Notes and Definitions

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

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 9 of 9

Company Name: <u>Apache</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																							
Project Manager: <u>Justin Roberts</u>		P.O. #:																									
Address:		Company:																									
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn:																									
Phone #:		Address:																									
Project #:		City:																									
Project Name:		State: Zip:																									
Project Location: <u>Kinderhook Watson Fed #1 Battery</u>		Phone #:																									
Sampler Name: <u>Joe Cussack Jr.</u>		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING																		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER	DATE	TIME													
<u>H211305</u>	<u>B3- @ 5'</u>	<u>C</u>	<u>1</u>										<u>5/19</u>	<u>3:55</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>1</u>	<u>W4 BGS 1-5'</u>	<u>C</u>	<u>1</u>											<u>3:37</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>2</u>	<u>W5 BGS 1-5'</u>	<u>C</u>	<u>1</u>											<u>3:39</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>3</u>	<u>W6 BGS 1-5'</u>	<u>C</u>	<u>1</u>											<u>3:41</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>4</u>	<u>W7 BGS 1-5'</u>	<u>C</u>	<u>1</u>											<u>3:43</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>5</u>	<u>W8 BGS 1-5'</u>	<u>C</u>	<u>1</u>										<u>5/19</u>	<u>3:45</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>6</u>																											

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Relinquished By: <u>[Signature]</u>	Date: <u>5/19/01</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:
	Time:		<u>Diamond Back 24 @ yahoo.com</u>
Delivered By: (Circle One)	Observed Temp. °C <u>5.6</u>	Sample Condition	CHECKED BY: (Initials) <u>YO</u>
Sampler - UPS - Bus - Other:	Corrected Temp. °C	<input type="checkbox"/> Cool <input type="checkbox"/> Intact	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
		<input type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID #113
		<input type="checkbox"/> No <input type="checkbox"/> No	Correction Factor None
			Bacteria (only) Sample Condition
			Cool Intact Observed Temp. °C
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			Corrected Temp. °C

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



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

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May 26, 2021

JUSTIN ROBERTS

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: KINCAID WATSON

Enclosed are the results of analyses for samples received by the laboratory on 05/21/21 16:15.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/21/2021	Sampling Date:	05/21/2021
Reported:	05/26/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KINCAID WATSON FED #1 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: B 4 @ 5' (H211328-01)**

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	05/25/2021	ND	2.11	105	2.00	0.172		
Toluene*	<0.050	0.050	05/25/2021	ND	2.19	110	2.00	0.644		
Ethylbenzene*	<0.050	0.050	05/25/2021	ND	2.18	109	2.00	0.691		
Total Xylenes*	<0.150	0.150	05/25/2021	ND	6.42	107	6.00	0.0923		
Total BTX	<0.300	0.300	05/25/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/25/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2021	ND	222	111	200	0.367	
DRO >C10-C28*	<10.0	10.0	05/25/2021	ND	226	113	200	0.199	
EXT DRO >C28-C36	<10.0	10.0	05/25/2021	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-133

Surrogate: 1-Chlorooctadecane 108 % 38.9-142

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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  
 JUSTIN ROBERTS  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	05/21/2021	Sampling Date:	05/21/2021
Reported:	05/26/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KINCAID WATSON FED #1 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: B 5 @ 5' (H211328-02)**

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	05/25/2021	ND	2.11	105	2.00	0.172	
Toluene*	<0.050	0.050	05/25/2021	ND	2.19	110	2.00	0.644	
Ethylbenzene*	<0.050	0.050	05/25/2021	ND	2.18	109	2.00	0.691	
Total Xylenes*	<0.150	0.150	05/25/2021	ND	6.42	107	6.00	0.0923	
Total BTEx	<0.300	0.300	05/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/25/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2021	ND	222	111	200	0.367	
DRO >C10-C28*	<10.0	10.0	05/25/2021	ND	226	113	200	0.199	
EXT DRO >C28-C36	<10.0	10.0	05/25/2021	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-133

Surrogate: 1-Chlorooctadecane 111 % 38.9-142

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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  
 JUSTIN ROBERTS  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	05/21/2021	Sampling Date:	05/21/2021
Reported:	05/26/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KINCAID WATSON FED #1 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: B 6 @ 5' (H211328-03)**

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	05/25/2021	ND	2.11	105	2.00	0.172		
Toluene*	<0.050	0.050	05/25/2021	ND	2.19	110	2.00	0.644		
Ethylbenzene*	<0.050	0.050	05/25/2021	ND	2.18	109	2.00	0.691		
Total Xylenes*	<0.150	0.150	05/25/2021	ND	6.42	107	6.00	0.0923		
Total BTEx	<0.300	0.300	05/25/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/25/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2021	ND	219	109	200	1.23	QM-07, QR-03
DRO >C10-C28*	33.8	10.0	05/25/2021	ND	225	113	200	0.770	QM-07, QR-03
EXT DRO >C28-C36	<10.0	10.0	05/25/2021	ND					

Surrogate: 1-Chlorooctane 95.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.9 % 38.9-142

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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  
 JUSTIN ROBERTS  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	05/21/2021	Sampling Date:	05/21/2021
Reported:	05/26/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KINCAID WATSON FED #1 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: B 7 @ 5' (H211328-04)**

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	05/25/2021	ND	2.11	105	2.00	0.172		
Toluene*	<0.050	0.050	05/25/2021	ND	2.19	110	2.00	0.644		
Ethylbenzene*	<0.050	0.050	05/25/2021	ND	2.18	109	2.00	0.691		
Total Xylenes*	<0.150	0.150	05/25/2021	ND	6.42	107	6.00	0.0923		
Total BTEx	<0.300	0.300	05/25/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/25/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2021	ND	219	109	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/25/2021	ND	225	113	200	0.770	
EXT DRO >C28-C36	<10.0	10.0	05/25/2021	ND					

Surrogate: 1-Chlorooctane 96.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.7 % 38.9-142

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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  
 JUSTIN ROBERTS  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	05/21/2021	Sampling Date:	05/21/2021
Reported:	05/26/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KINCAID WATSON FED #1 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: B 8 @ 5' (H211328-05)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.102</b>	0.100	05/25/2021	ND	2.11	105	2.00	0.172	
<b>Toluene*</b>	<b>7.50</b>	0.100	05/25/2021	ND	2.19	110	2.00	0.644	
<b>Ethylbenzene*</b>	<b>10.7</b>	0.100	05/25/2021	ND	2.18	109	2.00	0.691	
<b>Total Xylenes*</b>	<b>22.2</b>	0.300	05/25/2021	ND	6.42	107	6.00	0.0923	
<b>Total BTX</b>	<b>40.5</b>	0.600	05/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 172 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	05/25/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>69.4</b>	10.0	05/25/2021	ND	219	109	200	1.23	
<b>DRO &gt;C10-C28*</b>	<b>1500</b>	10.0	05/25/2021	ND	225	113	200	0.770	
<b>EXT DRO &gt;C28-C36</b>	<b>264</b>	10.0	05/25/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 127 % 38.9-142

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  
 JUSTIN ROBERTS  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	05/21/2021	Sampling Date:	05/21/2021
Reported:	05/26/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KINCAID WATSON FED #1 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: B 9 @ 5' (H211328-06)**

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	05/25/2021	ND	2.11	105	2.00	0.172	
Toluene*	<0.050	0.050	05/25/2021	ND	2.19	110	2.00	0.644	
Ethylbenzene*	<0.050	0.050	05/25/2021	ND	2.18	109	2.00	0.691	
Total Xylenes*	<0.150	0.150	05/25/2021	ND	6.42	107	6.00	0.0923	
Total BTEx	<0.300	0.300	05/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/25/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2021	ND	219	109	200	1.23	
DRO >C10-C28*	30.5	10.0	05/25/2021	ND	225	113	200	0.770	
EXT DRO >C28-C36	<10.0	10.0	05/25/2021	ND					

Surrogate: 1-Chlorooctane 87.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.8 % 38.9-142

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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  
 JUSTIN ROBERTS  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	05/21/2021	Sampling Date:	05/21/2021
Reported:	05/26/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KINCAID WATSON FED #1 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: B 10 @ 4' (H211328-07)**

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	05/25/2021	ND	2.11	105	2.00	0.172	
Toluene*	<0.050	0.050	05/25/2021	ND	2.19	110	2.00	0.644	
Ethylbenzene*	<0.050	0.050	05/25/2021	ND	2.18	109	2.00	0.691	
Total Xylenes*	<0.150	0.150	05/25/2021	ND	6.42	107	6.00	0.0923	
Total BTX	<0.300	0.300	05/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/25/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2021	ND	219	109	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/25/2021	ND	225	113	200	0.770	
EXT DRO >C28-C36	<10.0	10.0	05/25/2021	ND					

Surrogate: 1-Chlorooctane 87.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.2 % 38.9-142

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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  
 JUSTIN ROBERTS  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	05/21/2021	Sampling Date:	05/21/2021
Reported:	05/26/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KINCAID WATSON FED #1 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: B 11 @ 6' (H211328-08)**

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	05/25/2021	ND	2.11	105	2.00	0.566		
Toluene*	<0.050	0.050	05/25/2021	ND	2.22	111	2.00	0.111		
Ethylbenzene*	<0.050	0.050	05/25/2021	ND	2.20	110	2.00	0.909		
Total Xylenes*	<0.150	0.150	05/25/2021	ND	6.52	109	6.00	0.587		
Total BTEx	<0.300	0.300	05/25/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/25/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2021	ND	219	109	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/25/2021	ND	225	113	200	0.770	
EXT DRO >C28-C36	<10.0	10.0	05/25/2021	ND					

Surrogate: 1-Chlorooctane 78.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.7 % 38.9-142

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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  
 JUSTIN ROBERTS  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	05/21/2021	Sampling Date:	05/21/2021
Reported:	05/26/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KINCAID WATSON FED #1 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: B 12 @ 1' (H211328-09)**

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	05/25/2021	ND	2.11	105	2.00	0.566	
Toluene*	<0.050	0.050	05/25/2021	ND	2.22	111	2.00	0.111	
Ethylbenzene*	<0.050	0.050	05/25/2021	ND	2.20	110	2.00	0.909	
Total Xylenes*	<0.150	0.150	05/25/2021	ND	6.52	109	6.00	0.587	
Total BTX	<0.300	0.300	05/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/25/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2021	ND	219	109	200	1.23	
DRO >C10-C28*	12.2	10.0	05/25/2021	ND	225	113	200	0.770	
EXT DRO >C28-C36	<10.0	10.0	05/25/2021	ND					

Surrogate: 1-Chlorooctane 96.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.1 % 38.9-142

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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  
 JUSTIN ROBERTS  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	05/21/2021	Sampling Date:	05/21/2021
Reported:	05/26/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KINCAID WATSON FED #1 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: B 13 @ 1' (H211328-10)**

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	05/25/2021	ND	2.11	105	2.00	0.566		
Toluene*	<0.050	0.050	05/25/2021	ND	2.22	111	2.00	0.111		
Ethylbenzene*	<0.050	0.050	05/25/2021	ND	2.20	110	2.00	0.909		
Total Xylenes*	<0.150	0.150	05/25/2021	ND	6.52	109	6.00	0.587		
Total BTX	<0.300	0.300	05/25/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/25/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2021	ND	219	109	200	1.23	
DRO >C10-C28*	45.3	10.0	05/25/2021	ND	225	113	200	0.770	
EXT DRO >C28-C36	<10.0	10.0	05/25/2021	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.2 % 38.9-142

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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  
 JUSTIN ROBERTS  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	05/21/2021	Sampling Date:	05/21/2021
Reported:	05/26/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KINCAID WATSON FED #1 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: W 9 BGS 0-1' (H211328-11)**

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	05/25/2021	ND	2.11	105	2.00	0.566		
Toluene*	<0.050	0.050	05/25/2021	ND	2.22	111	2.00	0.111		
Ethylbenzene*	<0.050	0.050	05/25/2021	ND	2.20	110	2.00	0.909		
Total Xylenes*	<0.150	0.150	05/25/2021	ND	6.52	109	6.00	0.587		
Total BTEx	<0.300	0.300	05/25/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/25/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2021	ND	219	109	200	1.23	
DRO >C10-C28*	<10.0	10.0	05/25/2021	ND	225	113	200	0.770	
EXT DRO >C28-C36	<10.0	10.0	05/25/2021	ND					

Surrogate: 1-Chlorooctane 96.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Aquin / Cont-Diamond Bulk <b>Project Manager:</b> Justin Roberts <b>Address:</b> <b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240 <b>Phone #:</b> <b>Fax #:</b> <b>Project #:</b> <b>Project Name:</b> <b>Project Location:</b> Kingbird Watson Fed #1 Bath <b>Sampler Name:</b> Joe Quiselle Jr. <small>FOR LAB USE ONLY</small>		<b>P.O. #:</b> <b>Company:</b> <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>	
<b>Lab I.D.</b> <b>Sample I.D.</b>		<b>BILL TO</b>	
<b>PLEASE NOTE:</b> Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated theories or otherwise.		<b>ANALYSIS REQUEST</b>	
<b>Relinquished By:</b> [Signature] <b>Date:</b> 5/15/21 <b>Time:</b> 4:15 <b>Received By:</b> [Signature] <b>Date:</b> 5/15/21 <b>Time:</b> 11:00 <b>Received By:</b> [Signature]		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>Remarks:</b> Diamond Bulk at yohod.com	
<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other:		<b>Observed Temp. °C</b> 24 <b>Corrected Temp. °C</b> <b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked BY: (Initials) [Signature]	
<b>Turnaround Time:</b> <b>Thermometer ID #113</b> <b>Correction Factor</b> None		<b>Standard</b> <input checked="" type="checkbox"/> <b>Bacteria (only)</b> <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C	



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> <u>Apex R.</u> <b>Project Manager:</b> <u>Justin R.</u> <b>Address:</b> _____ <b>City:</b> <u>Holms</u> <b>State:</b> <u>NM</u> <b>Zip:</b> <u>88240</u> <b>Phone #:</b> _____ <b>Fax #:</b> _____ <b>Project #:</b> _____ <b>Project Owner:</b> _____ <b>Project Name:</b> _____ <b>Project Location:</b> <u>Kinsaid Watson Fed #1 Bldg</u> <b>Sample Name:</b> <u>See Chusek</u> <b>FOR LAB USE ONLY</b>		<b>P.O. #:</b> _____ <b>Company:</b> _____ <b>Attn:</b> _____ <b>Address:</b> _____ <b>City:</b> _____ <b>State:</b> _____ <b>Zip:</b> _____ <b>Phone #:</b> _____ <b>Fax #:</b> _____	
<b>Lab I.D.</b> <u>H211328</u> <b>Sample I.D.</b> <u>BB 01'</u> <u>10 BB 01'</u> <u>11 WY BBS 0-1'</u>		<b>MATRIX</b> <input type="checkbox"/> (G)RAB OR (C)OMP. <input type="checkbox"/> # CONTAINERS <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER : _____ <b>ACID/BASE:</b> <input checked="" type="checkbox"/> ICE <input type="checkbox"/> COOL <input type="checkbox"/> OTHER : _____	
<b>DATE</b> <u>5/01</u> <b>TIME</b> <u>0:42</u> <u>5/01</u> <u>0:44</u> <u>5/01</u> <u>0:40</u>		<b>EXT TRH</b> <b>PTX</b>	
<b>Delivered By:</b> (Circle One) _____ <b>Sampler - UPS - Bus - Other:</b> _____ <b>Observed Temp. °C</b> <u>2.9</u> <b>Corrected Temp. °C</b> _____ <b>Sample Condition</b> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> <b>Checked By:</b> _____ <b>Turnaround Time:</b> _____ <b>Thermometer ID #113</b> _____ <b>Correction Factor</b> None		<b>Received By:</b> _____ <b>Date:</b> <u>5/01</u> <b>Time:</b> _____ <b>Received By:</b> _____ <b>Date:</b> _____ <b>Time:</b> _____ <b>Remarks:</b> <u>Diamond back 010 phone.com</u>	



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

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May 27, 2021

JUSTIN ROBERTS

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: KINCAID WATSON

Enclosed are the results of analyses for samples received by the laboratory on 05/24/21 17:00.

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](http://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, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/24/2021	Sampling Date:	05/24/2021
Reported:	05/27/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KWF #1 B	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: W 10 BGS 0'-1' (H211335-01)**

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	05/26/2021	ND	2.04	102	2.00	15.3		
Toluene*	<0.050	0.050	05/26/2021	ND	1.97	98.5	2.00	15.9		
Ethylbenzene*	<0.050	0.050	05/26/2021	ND	1.88	94.0	2.00	17.7		
Total Xylenes*	<0.150	0.150	05/26/2021	ND	5.71	95.2	6.00	17.4		
Total BTEX	<0.300	0.300	05/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/26/2021	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	05/26/2021	ND	220	110	200	1.69		
DRO >C10-C28*	28.2	10.0	05/26/2021	ND	225	112	200	0.890		
EXT DRO >C28-C36	<10.0	10.0	05/26/2021	ND						

Surrogate: 1-Chlorooctane 93.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.0 % 38.9-142

Cardinal Laboratories

\*=Accredited Analyte

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*Celestine Keene*

Celestine D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/24/2021	Sampling Date:	05/24/2021
Reported:	05/27/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KWF #1 B	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: B 14 @ 1' (H211335-02)**

BTEX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.26	0.200	05/26/2021	ND	2.04	102	2.00	15.3	
Toluene*	17.4	0.200	05/26/2021	ND	1.97	98.5	2.00	15.9	
Ethylbenzene*	17.8	0.200	05/26/2021	ND	1.88	94.0	2.00	17.7	
Total Xylenes*	29.1	0.600	05/26/2021	ND	5.71	95.2	6.00	17.4	
Total BTEX	65.6	1.20	05/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 149 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	05/26/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	697	50.0	05/26/2021	ND	220	110	200	1.69	
DRO >C10-C28*	8130	50.0	05/26/2021	ND	225	112	200	0.890	
EXT DRO >C28-C36	1850	50.0	05/26/2021	ND					

Surrogate: 1-Chlorooctane 147 % 44.3-133

Surrogate: 1-Chlorooctadecane 296 % 38.9-142

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*Celestine D. Keene*

Celestine D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/24/2021	Sampling Date:	05/24/2021
Reported:	05/27/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KWF #1 B	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 15 @ 1' (H211335-03)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.26	0.200	05/26/2021	ND	2.04	102	2.00	15.3	
Toluene*	13.8	0.200	05/26/2021	ND	1.97	98.5	2.00	15.9	
Ethylbenzene*	17.1	0.200	05/26/2021	ND	1.88	94.0	2.00	17.7	
Total Xylenes*	30.1	0.600	05/26/2021	ND	5.71	95.2	6.00	17.4	
Total BTEX	62.3	1.20	05/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 177 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	05/26/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	774	50.0	05/26/2021	ND	220	110	200	1.69	
DRO >C10-C28*	12500	50.0	05/26/2021	ND	225	112	200	0.890	
EXT DRO >C28-C36	2940	50.0	05/26/2021	ND					

Surrogate: 1-Chlorooctane 247 % 44.3-133

Surrogate: 1-Chlorooctadecane 407 % 38.9-142

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*Celestine Keene*

Celestine D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/24/2021	Sampling Date:	05/24/2021
Reported:	05/27/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KWF #1 B	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 16 @ 1' (H211335-04)

BTEX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.780	0.200	05/26/2021	ND	2.04	102	2.00	15.3	
Toluene*	20.4	0.200	05/26/2021	ND	1.97	98.5	2.00	15.9	
Ethylbenzene*	28.4	0.200	05/26/2021	ND	1.88	94.0	2.00	17.7	
Total Xylenes*	59.3	0.600	05/26/2021	ND	5.71	95.2	6.00	17.4	
Total BTEX	109	1.20	05/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 189 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	05/26/2021	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS			S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1160	50.0	05/26/2021	ND	220	110	200	1.69		
DRO >C10-C28*	12800	50.0	05/26/2021	ND	225	112	200	0.890		
EXT DRO >C28-C36	3100	50.0	05/26/2021	ND						


Surrogate: 1-Chlorooctane 191 % 44.3-133

Surrogate: 1-Chlorooctadecane 410 % 38.9-142

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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  
JUSTIN ROBERTS  
2350 W. MARLAND BLVD.  
HOBBS NM, 88240  
Fax To: (575) 393-2432

Received: 05/24/2021

Reported: 05/27/2021

Project Name: KINCAID WATSON

Project Number: KWF #1 B

Project Location: NOT GIVEN

Sampling Date: 05/24/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: B 17 @ 1' (H211335-05)

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	05/26/2021	ND	2.04	102	2.00	15.3		
Toluene*	0.050	0.050	05/26/2021	ND	1.97	98.5	2.00	15.9		
Ethylbenzene*	<0.050	0.050	05/26/2021	ND	1.88	94.0	2.00	17.7		
Total Xylenes*	<0.150	0.150	05/26/2021	ND	5.71	95.2	6.00	17.4		
Total BTEX	<0.300	0.300	05/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PII) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/26/2021	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	05/26/2021	ND	220	110	200	1.69		
DRO >C10-C28*	27.9	10.0	05/26/2021	ND	225	112	200	0.890		
EXT DRO >C28-C36	17.3	10.0	05/26/2021	ND						

Surrogate: 1-Chlorooctane 98.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 100 % 38.9-142

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Celestine Keene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/24/2021	Sampling Date:	05/24/2021
Reported:	05/27/2021	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	KWF #1 B	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 18 @ 1' (H211335-06)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2021	ND	2.04	102	2.00	15.3	
Toluene*	2.37	0.050	05/26/2021	ND	1.97	98.5	2.00	15.9	
Ethylbenzene*	3.95	0.050	05/26/2021	ND	1.88	94.0	2.00	17.7	
Total Xylenes*	6.79	0.150	05/26/2021	ND	5.71	95.2	6.00	17.4	
Total BTEX	13.1	0.300	05/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PII) 159 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/26/2021	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*	99.6	10.0	05/26/2021	ND	220	110	200	1.69	
DRO >C10-C28*	1550	10.0	05/26/2021	ND	225	112	200	0.890	
EXT DRO >C28-C36	289	10.0	05/26/2021	ND					

Surrogate: 1-Chlorooctane 116 % 44.3-133

Surrogate: 1-Chlorooctadecane 120 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06            The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-04           The RPD for the BS/BSD was outside of historical limits.
- BS-3            Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND              Analyte NOT DETECTED at or above the reporting limit
- RPD             Relative Percent Difference
- \*\*               Samples not received at proper temperature of 6°C or below.
- \*\*\*              Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

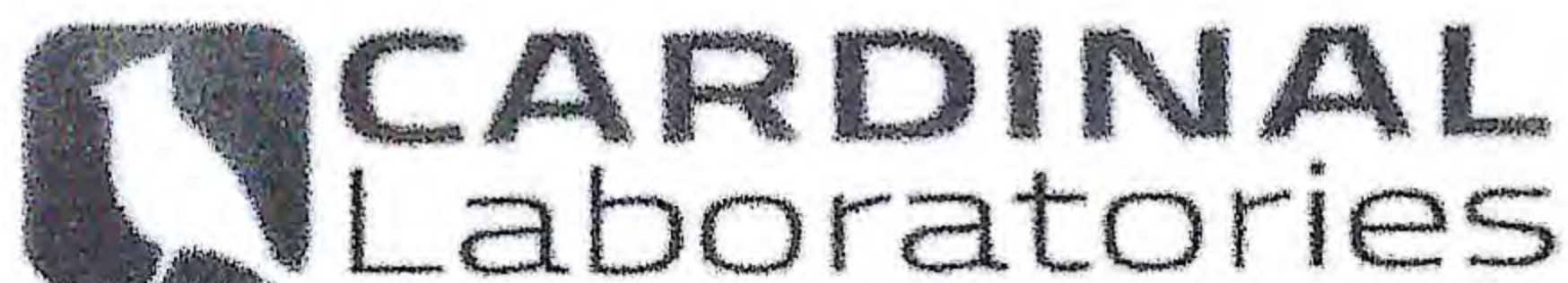
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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 9 of 9

<b>Company Name:</b> Diamond Back / Apache <b>Project Manager:</b> Justin Roberts <b>Address:</b> <b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240 <b>Phone #:</b> <b>Fax #:</b> <b>Project #:</b> <b>Project Owner:</b> <b>Project Name:</b> (KWF#1B) <b>Project Location:</b> Kingwood Watson Fed #001 Batters <b>Sampler Name:</b> Joe Quisenberry		<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>		<b>ANALYSIS REQUEST</b>													
<b>FOR LAB USE ONLY</b>  <b>Lab I.D.</b> H211335 <b>Sample I.D.</b> 1 W10 BSS 0-1' 2 B14 @ 1' 3 B15 @ 1' 4 B16 @ 1' 5 B17 @ 1' 6 B18 @ 1'		<b>MATRIX</b> GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		<b>PRESERV</b> ACID/BASE ICE/COOL OTHER:		<b>SAMPLING</b> DATE TIME 5/24 10:50 10:52 10:54 10:56 10:58 11:00		EXTDPH BTEX									

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

<b>Relinquished By:</b> [Signature] <b>Relinquished By:</b> [Signature]		<b>Date:</b> 5/24/21 <b>Time:</b> 5:00 <b>Date:</b> <b>Time:</b>		<b>Received By:</b> [Signature] <b>Received By:</b> [Signature]		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Add'l Phone #:</b> All Results are emailed. Please provide Email address: Diamond Back 24@yahoo.com	
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:		<b>Observed Temp. °C</b> 5.6 <b>Corrected Temp. °C</b>		<b>Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>CHECKED BY:</b> (Initials) [Signature]	
<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		<b>Bacteria (only)</b> Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>Sample Condition</b> Observed Temp. °C Corrected Temp. °C		<b>Thermometer ID #113</b> Correction Factor None	

FORM-005-R-5-1-00/04/20

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



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

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June 01, 2021

JUSTIN ROBERTS

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: KINCAID WATSON

Enclosed are the results of analyses for samples received by the laboratory on 05/27/21 15:05.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/27/2021  
 Reported: 06/01/2021  
 Project Name: KINCAID WATSON  
 Project Number: KWF #1 B  
 Project Location: NOT GIVEN

Sampling Date: 05/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 8 @ 7' (H211373-01)**

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	06/01/2021	ND	1.98	98.9	2.00	1.26	
<b>Toluene*</b>	<b>0.218</b>	0.050	06/01/2021	ND	2.03	102	2.00	2.11	
<b>Ethylbenzene*</b>	<b>0.063</b>	0.050	06/01/2021	ND	2.00	99.8	2.00	1.10	
Total Xylenes*	<0.150	0.150	06/01/2021	ND	5.94	99.0	6.00	1.05	
Total BTEX	<0.300	0.300	06/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

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	05/28/2021	ND	206	103	200	0.162	
DRO >C10-C28*	<10.0	10.0	05/28/2021	ND	217	109	200	0.160	
EXT DRO >C28-C36	<10.0	10.0	05/28/2021	ND					

Surrogate: 1-Chlorooctane 77.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.1 % 38.9-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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Cardinal Laboratories

\*=Accredited Analyte

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

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Celey D. Keene, Lab Director/Quality Manager

**BILL TO**

## ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)

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1625 N. French Dr., Hobbs, NM 88240  
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**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 31321

**CONDITIONS**

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 31321
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
chensley	Apache's deferral requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first is approved. The deferred C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	7/12/2021