

303 Veterans Airpark Lane Midland, TX 79705

Closure Report

June 10, 2021

Re: EAU D 40 Battery Case # NRM2015736485

On 5/28/2020 a release occurred due to a hole developed on a steel valve at the meter header resulting in the loss of produced water. The release (GPS: 32.799356, -104.139214) is located east of Artesia, NM in unit letter P section 26 township 17S range 28E. A groundwater survey was conducted utilizing data from NMOSE and USGS. The nearest well indicates ground water below the release to be 257 feet below ground surface. A remediation plan was submitted and approved by OCD on 6/10/2021.

The release area was excavated in accordance with the OCD approved plan. All excavated material was hauled to an OCD approved disposal facility. Final 5 point bottom and wall composite samples were collected in accordance with the approved plan and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Once laboratory results were below table one standards for releases greater than 100 feet to groundwater and reclamation standards for the pasture area where meet with the except of two areas were active pipeline infrastructure exist. The excavation was backfilled with clean imported caliche for the lease pad and clean imported topsoil for the pasture area. The pasture will be reseeded during the next optimal growing season with a native seed mixture.

Apache Corporation has completed remediation to below table one standards and respectfully request that event # NRM2015736485 be closed.

Enclosed: C-141, Sample Diagram, Sample Data, Laboratory Results, and Photos.

Submitted by;

Bruce Baker

Environmental Technician larry.baker@apachecorp.com Cell# 432-631-6982 Off# 432-818-1000

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Oil Conservation Division

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.

<u>Closure Report Attachment Checklist</u>: 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)

 \square 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 email: larry.baker@apachecorp.com	Date: 6/10/2021
email: larry.baker@apachecorp.com	Telephone: 432-631-6982
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Received by OCD: 6/10/2021 5:25:23 PM

CP20

CP19

CP17

CP16

CP31

CP13 CP12

CP1

CP6

CPS CP9 CP10 CP11

-CP18

Sr.

CP30

CP26

CP15

CP28

CP3

CP2

CP1

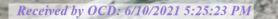
SCP25 CP24 CP23 CP22 CP21

CP14

CP27

CPS

CP4





Released to Imaging: 7/29/2021 8:41:48 AM

Received by OCD: 6/10/2021 5:25:23 PM

6

6" Fiberglass Line

4" Steel Gas Line

		-			Bottom Sa	amples				-	•
Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total	Total	GRO	DRO	EXT DRO
Date			Lab				Xylenes	BTEX			
5/18/2021	1	3'	640	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	1	4'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	2	3'	1760	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	2	4'	624	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	3	3'	2600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	3	4'	3520	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	71.200	<10.0
5/18/2021	4	3'	2600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	4	4'	5120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	5	3'	1440	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	5	4'	4240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	6	3'	1480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	6	4'	464	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	7	4'	3570	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	8	4'	2520	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	9	4'	2600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	10	4'	1800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	11	4'	1380	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	12	4'	656	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	13	4'	1280	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	14	1'	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	15	1'	1170	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	16	SURF	2840	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	17	SURF	3440	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	18	SURF	3520	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	19	SURF	6800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	20	SURF	640	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	21	SURF	10900	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1200	387
6/4/2021	21	3'	1330	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	22	SURF	8000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	23	SURF	12900	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	24	SURF	4080	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	25	SURF	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	49.4	14.6
6/2/2021	26	SURF	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	27	SURF	4960	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	28	SURF	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	29	SURF	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	30	SURF	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	31	4'	1390	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	32	SURF	9560	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1050	152
6/8/2021	32	3"	1390	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.8	<10.0
6/4/2021	33	SURF	16,100	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	103	26.1
					Wall Sar	nples					
5/18/2021	SWC1		720	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/3/2021	SWC1		720	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0

5/18/2021	SWC2	2120	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	189	39.3
6/2/2021	SWC2	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC3	1220	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/3/2021	SWC3	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC4	1300	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	SWC4	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC5	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC6	7060	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/3/2021	SWC6	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC7	4480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/3/2021	SWC7	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC8	9060	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC9	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC10	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC11	864	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	SWC11	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	SWC12	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	SWC13	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	SWC14	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	SWC15	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	SWC16	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	SWC17	1840	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	SWC18	5200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	SWC19	1070	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	SWC20	15000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	SWC21	20000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/8/2021	SWC21	1040								
6/4/2021	SWC22	3840	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/20/2020	HC1	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/20/2020	HC2	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0



May 24, 2021

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: EMPIRE ABO UNIT 040 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/18/21 15:12.

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 1 (H211292-01)

BTEX 8021B	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	05/20/2021	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	05/20/2021	ND	2.19	110	2.00	3.70	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	2.22	111	2.00	0.578	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	6.49	108	6.00	1.33	
Total BTEX	<0.300	0.300	05/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	640	16.0	05/20/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	212	106	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	211	105	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					
Surrogate: 1-Chlorooctane	80.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	77.9	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 2 (H211292-02)

BTEX 8021B	mg	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	05/20/2021	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	89.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	90.2	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 3 (H211292-03)

BTEX 8021B	mg	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	05/20/2021	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	90.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	87.5	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 4 (H211292-04)

BTEX 8021B	mg/	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	05/20/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	92.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	92.5	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 5 (H211292-05)

BTEX 8021B	mg/	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	05/20/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	132 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	129 9	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 6 (H211292-06)

BTEX 8021B	mg	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1480	16.0	05/20/2021	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	104	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	102	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 7 (H211292-07)

BTEX 8021B	mg,	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	05/20/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	88.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	90.7	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 8 (H211292-08)

BTEX 8021B	mg/	′kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	05/20/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	83.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	84.2	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 9 (H211292-09)

BTEX 8021B	mg/	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	05/20/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	83.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.9	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 10 (H211292-10)

BTEX 8021B	mg,	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	05/20/2021	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	89.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	88.6	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 11 (H211292-11)

BTEX 8021B	mg,	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	92.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	92.8	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 12 (H211292-12)

BTEX 8021B	mg,	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	89.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	90.9	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 13 (H211292-13)

BTEX 8021B	mg	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	88.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	89.4	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 14 (H211292-14)

BTEX 8021B	mg,	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	89.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	90.0	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 15 (H211292-15)

BTEX 8021B	mg,	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	86.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	89.2	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 16 (H211292-16)

BTEX 8021B	mg,	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	82.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	80.7	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 17 (H211292-17)

BTEX 8021B	mg	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	82.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.7	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 18 (H211292-18)

BTEX 8021B	mg,	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	85.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	84.8	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 19 (H211292-19)

BTEX 8021B	mg/	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	82.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.8	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 20 (H211292-20)

BTEX 8021B	mg,	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	99.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	99.9	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 21 (H211292-21)

BTEX 8021B	mg	/kg	Analyze	d 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	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEX	<0.300	0.300	05/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10900	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	1200	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	387	10.0	05/21/2021	ND					
Surrogate: 1-Chlorooctane	88.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	128	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 22 (H211292-22)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.65	
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59	
Total BTEX	<0.300	0.300	05/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	212	106	200	3.37	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	215	107	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					
Surrogate: 1-Chlorooctane	84.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	83.6	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 23 (H211292-23)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.65	
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59	
Total BTEX	<0.300	0.300	05/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12900	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	212	106	200	3.37	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	215	107	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					
Surrogate: 1-Chlorooctane	83.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	83.3	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 24 (H211292-24)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.65	
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59	
Total BTEX	<0.300	0.300	05/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	212	106	200	3.37	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	215	107	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					
Surrogate: 1-Chlorooctane	77.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	76.8	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 25 (H211292-25)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.65	
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59	
Total BTEX	<0.300	0.300	05/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	ed 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	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	212	106	200	3.37	
DRO >C10-C28*	49.4	10.0	05/20/2021	ND	215	107	200	3.95	
EXT DRO >C28-C36	14.6	10.0	05/20/2021	ND					
Surrogate: 1-Chlorooctane	84.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	85.9	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 1 (H211292-26)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.65	
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59	
Total BTEX	<0.300	0.300	05/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	212	106	200	3.37	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	215	107	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					
Surrogate: 1-Chlorooctane	83.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.0	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 2 (H211292-27)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.65	
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59	
Total BTEX	<0.300	0.300	05/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	212	106	200	3.37	
DRO >C10-C28*	189	10.0	05/20/2021	ND	215	107	200	3.95	
EXT DRO >C28-C36	39.3	10.0	05/20/2021	ND					
Surrogate: 1-Chlorooctane	85.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	93.0	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 3 (H211292-28)

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	05/20/2021	ND	1.97	98.7	2.00	3.65	
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59	
Total BTEX	<0.300	0.300	05/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					
Surrogate: 1-Chlorooctane	94.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	92.2	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 4 (H211292-29)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.65	
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59	
Total BTEX	<0.300	0.300	05/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					
Surrogate: 1-Chlorooctane	91.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	89.5	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 5 (H211292-30)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.65	
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59	
Total BTEX	<0.300	0.300	05/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/21/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					
Surrogate: 1-Chlorooctane	95.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	91.6	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 6 (H211292-31)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.65	
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59	
Total BTEX	<0.300	0.300	05/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7060	16.0	05/21/2021	ND	432	108	400	3.77	QM-07
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					
Surrogate: 1-Chlorooctane	95.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	94.1	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 7 (H211292-32)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.65	
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59	
Total BTEX	<0.300	0.300	05/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	05/21/2021	ND	432	108	400	3.77	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					
Surrogate: 1-Chlorooctane	89.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	88.0	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 8 (H211292-33)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.65	
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59	
Total BTEX	<0.300	0.300	05/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	05/21/2021	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					
Surrogate: 1-Chlorooctane	93.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	96.0	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 9 (H211292-34)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.65	
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59	
Total BTEX	<0.300	0.300	05/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/21/2021	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					
Surrogate: 1-Chlorooctane	97.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	96.6	% 38.9-14	2						

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 10 (H211292-35)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.65	
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59	
Total BTEX	<0.300	0.300	05/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/21/2021	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					
Surrogate: 1-Chlorooctane	90.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	91.8	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 11 (H211292-36)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.65	
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59	
Total BTEX	<0.300	0.300	05/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	05/21/2021	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					
Surrogate: 1-Chlorooctane	90.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	88.1	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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101 East Marland	101 East Marland, Hobbs, NM 88240		
(575) 393-2326	FAX (575) 393-2476		
2		BILL TO	ANALYSIS REQUEST
Project Manager: NR4CE	BARCA	P.O. #:	
		Company: APACHC	
city: HOBBS	State: N.A Zip: 8840	Attn: Blick & AKER	
Phone #: 432 631-6983	63 Fax #:		
Project #:	Project Owner:	city: HOBBS	
Project Name: Empire ASO	O UNIT OYO BATTERY	2	4
Project Location:	HILLS N.M	Phone #: 732 63/ 699 53	
Sampler Name: MARC	RIVERA	Fax #:	_
	MATRIX	PRESERV. SAMPLING	_
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PLEASE NOTE: Liability and Damages. Cardinal's liability ar analyses. All claims including those for negligence and any c service. In no event shall Cardinal be liable for incidental or c	PLEASE NOTE: Lability and Damages. Cardinal's lability and client's exclusive remody for any clim arising whether based in contract or tort, shall be limited to the amount paid by the client (for the analyses. All claims including those and any other cause whatoever shall be deemed waived unless made in writing and received by Cardinal whith 30 days after completion of the apply 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 substantes, 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 substantes, and the service of use.	ct or tort, shall be limited to the amount paid by the client for the nd received by Cardinal within 30 days after completion of the a loss of use, or loss of profits incurred by client, its subsidiaries,	e s, pipliable
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Sampler - UPS - Bus - Other:		(Initials) Yes To Correction Factor	Rush 0

Page 46 of 111

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Add'I Phone #: de Email address:	Please provi	emailed.	Verbal Result: All Results are	ALL AI	ed psi:	Vecelved BA	5-18-202		Prise A.
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		licable	aid by the client for the ter completion of the app	be limited to the amount paid by Cardinal within 30 days after con	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 shall cardinal be liable for inddental or consenuental damages induction within a state of the applicable shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable shall be deemed waived unless after completion of the applicable shall be deemed waived unless after completion shall be deemed waived unless after completion shall be deemed waived un	I be deemed waive	ther cause whatsoever shall be	analyses. All claims including those for negligence and any other cruits whenever shall be deemed and answer the service. In no event shall Cardinal be liable for incidential or conservice databasever shall be deemed with unless mad service.	analyses. All claims including service. In no event shall Ca
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				ess:			3 Fax #:	631-698	Phone #: 432
		1	El	T	88240 Attn:	M Zip:	State: N	0	City:
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		-			P.O. #:		BAKEZ	er: KRUCE	Project Manager:
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Project #:	Project Owner:	City:	X		
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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476



June 03, 2021

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: EAU ABO UNIT D-40

Enclosed are the results of analyses for samples received by the laboratory on 06/02/21 16:35.

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	06/02/2021	Sampling Date:	06/02/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	EAU ABO UNIT D-40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SWC 12 (H211413-01)

BTEX 8021B	mg	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTEX	<0.300	0.300	06/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 86.5-11	5						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/03/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					
Surrogate: 1-Chlorooctane	90.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	87.7	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/02/2021	Sampling Date:	06/02/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	EAU ABO UNIT D-40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SWC 2 (H211413-02)

BTEX 8021B	mg	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTEX	<0.300	0.300	06/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 86.5-11	5						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/03/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					
Surrogate: 1-Chlorooctane	76.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	71.9	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/02/2021	Sampling Date:	06/02/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	EAU ABO UNIT D-40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SWC 11 (H211413-03)

BTEX 8021B	mg	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTEX	<0.300	0.300	06/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 86.5-11	5						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/03/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					
Surrogate: 1-Chlorooctane	89.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	87.1	% 38.9-14	2						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/02/2021	Sampling Date:	06/02/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	EAU ABO UNIT D-40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CP 26 (H211413-04)

BTEX 8021B	mg	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTEX	<0.300	0.300	06/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 86.5-11	5						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/03/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					
Surrogate: 1-Chlorooctane	83.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.8	% 38.9-14	2						

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

Received:	06/02/2021	Sampling Date:	06/02/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	EAU ABO UNIT D-40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CP 27 (H211413-05)

BTEX 8021B	mg,	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTEX	<0.300	0.300	06/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 86.5-11	5						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	06/03/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					
Surrogate: 1-Chlorooctane	86.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	85.2	% 38.9-14	2						

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

Received:	06/02/2021	Sampling Date:	06/02/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	EAU ABO UNIT D-40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CP 28 (H211413-06)

BTEX 8021B	mg,	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTEX	<0.300	0.300	06/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 86.5-11	5						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/03/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					
Surrogate: 1-Chlorooctane	86.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	91.7	% 38.9-14	2						

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

Received:	06/02/2021	Sampling Date:	06/02/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	EAU ABO UNIT D-40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CP 29 (H211413-07)

BTEX 8021B	mg	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTEX	<0.300	0.300	06/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 86.5-11	5						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/03/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					
Surrogate: 1-Chlorooctane	86.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	91.4	% 38.9-14	2						

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

Received:	06/02/2021	Sampling Date:	06/02/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	EAU ABO UNIT D-40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CP 30 (H211413-08)

BTEX 8021B	mg,	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTEX	<0.300	0.300	06/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 \$	% 86.5-11	5						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/03/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					
Surrogate: 1-Chlorooctane	88.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	<i>93.7</i>	% 38.9-14	2						

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

Received:	06/02/2021	Sampling Date:	06/02/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	EAU ABO UNIT D-40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SWCP 13 (H211413-09)

BTEX 8021B	mg,	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTEX	<0.300	0.300	06/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 86.5-11	5						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/03/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					
Surrogate: 1-Chlorooctane	76.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	80.5	% 38.9-14	2						

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

Received:	06/02/2021	Sampling Date:	06/02/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	EAU ABO UNIT D-40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SWCP 14 (H211413-10)

BTEX 8021B	mg/	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTEX	<0.300	0.300	06/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 86.5-11	5						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/03/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					
Surrogate: 1-Chlorooctane	81.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	81.8	% 38.9-14	2						

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

Received:	06/02/2021	Sampling Date:	06/02/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	EAU ABO UNIT D-40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SWCP 15 (H211413-11)

BTEX 8021B	mg	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTEX	<0.300	0.300	06/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 86.5-11	5						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/03/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					
Surrogate: 1-Chlorooctane	85.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	87.4	% 38.9-14	2						

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: Company Name: City: H Project Name Project #: Address: Sampler Name: Project Location: Phone #: Relinquished By: H2! service. In no event shall Cardinal be liable for incide Relinquished BV. FOR LAB USE ONLY LEASE NOTE: Sampler - UPS - Bus - Other: Lab I.D. Delivered By: (Circle One) A 1413 -olons S 0 N 101 East Marland, Hobbs, NM 88240 SWOU SWCP1? (575) 393-2326 FAX (575) 393-2476 WUC 2 2000 P30 W CP IC Z Puch negligence and any other Sample I.D. Brown De unit Observed Temp. Corrected Temp. Fax #: Project Owner: State: Time; Date Date Time: Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com UNZip: XSd shall be 0-40 ty for any ĉ ô ra (G)RAB OR (C)OMP 3 \mathcal{C} without lin 30 70 **Received By** Received By: # CONTAINERS GROUNDWATER Cool Intact WASTEWATER less Sample Condition made in writing and rec MATRIX SOIL OIL SLUDGE P.O. #: City: State: Address: Attn: loss of use, of loss OTHER Fax #: Phone #: Company: ACID/BASE: PRESERV. ed by Cardinal ICE COOL CHECKED BY: (Initials) BILL OTHER of profits B Zip within 30 days after completion of the applicable to the DATE 10 1 SAMPLING 2 by client, its subsidiaries paid by the client for the 2000 11:36 3:17 3:16 All Results are emailed. Please provide Email address: Thermometer ID #113 Correction Factor None Turnaround Time: REMARKS Verbal Result: 1:34 TIME N Se: S i Δ Yes TPX Standard Rush P No ANALYSIS YEL Add'l Phone #: Cool Intact Bacteria (only) Sample Condition REQUEST Observed Temp. Corrected Temp. °C ĉ

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Page 14 of 15

Page 63 of 111

Received by OCD: 6/10/2021 5:25:23 PM

| 01 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476 | (5/5) 333-2328 FAX (3/3) 300 2770 BILL TO ANALYSIS
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 | Project #: Project Owner: City: | ame.
 | 1 | Fax #: | MATRIX PRESERV. | G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
DIL
SLUDGE
OTHER :
ACID/BASE:
ICE/ COOL | Studo 12
 | | | | PLEASE NOTE: Liability and Damages. Cardinal's iiability and client's exclusive remedy for any daim arising whether based in contract or fort, shall be limited to the amount paid by the client for the applicable 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 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 analyses. | affiliates or successors arising out of or related to the performance of services hereurder: by Continual, repair itess of whether such claim is based upon any of the above stated resourts or unevestors arising out of or related to the performance of services hereurder: by Continual, repair itess of whether such claim is based upon any of the above stated resources or successors arising out of or related to the performance of services hereurder: by Continual, repair itess of whether such claim is based upon any of the above stated resource stated resources or successors arising out of or related to the performance of services hereurder: by Continual, repair itess of whether such claim is based upon any of the above stated resource stated resources. If the performance of services hereurder: by Continual, repair itess of whether such claim is based upon any of the above stated resource stated resources. If the performance of services hereurder: by Continual, repair itess of whether such claim is based upon any of the above stated resource stated resources. If the performance of services hereurder: by Continual, repair itess of whether such claim is based upon any of the above stated resources. If the performance of services hereurder: by Continual, repair itess of the performance of services hereurder: by Continual, repair itess of the performance of services hereurder. If the performance of services hereurder is the performance of services hereurder items of |
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Released to Imaging: 7/29/2021 8:41:48 AM



June 04, 2021

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: EAU D40

Enclosed are the results of analyses for samples received by the laboratory on 06/03/21 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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



		BRUCE BAI	ARLAND BLVD.			
		Fax To:	(575) 393-2432			
Received:	06/03/2021			Sampling Date:	06/	03/2021
Reported:	06/04/2021			Sampling Type:	Soil	
Project Name:	EAU D40			Sampling Condition:	Coc	l & Intact
Project Number:	EAU D - 40 CTB			Sample Received By:	Jod	i Henson
Project Location:	NOT GIVEN					

Sample ID: SWCP 1 (H211431-01)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	2.04	102	2.00	3.67	
Toluene*	<0.050	0.050	06/04/2021	ND	2.00	100	2.00	4.18	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.94	97.1	2.00	4.13	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.88	98.0	6.00	4.01	
Total BTEX	<0.300	0.300	06/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	06/04/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2021	ND	222	111	200	0.845	
DRO >C10-C28*	<10.0	10.0	06/04/2021	ND	242	121	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	06/04/2021	ND					
Surrogate: 1-Chlorooctane	86.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	81.9	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



EAU D - 40 CTB

NOT GIVEN

Jodi Henson

Sample Received By:

Analytical Results For:

	APACHE CORP	- HOBBS	
	BRUCE BAKER		
	2350 W. MARL	AND BLVD.	
	HOBBS NM, 882	240	
	Fax To: (5	75) 393-2432	
06/03/2021		Sampling Date:	06/03/2021
06/04/2021		Sampling Type:	Soil
EAU D40		Sampling Condition:	Cool & Intact

Sample ID: SWCP 7 (H211431-02)

Received:

Reported:

Project Name:

Project Number:

Project Location:

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	2.04	102	2.00	3.67	
Toluene*	<0.050	0.050	06/04/2021	ND	2.00	100	2.00	4.18	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.94	97.1	2.00	4.13	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.88	98.0	6.00	4.01	
Total BTEX	<0.300	0.300	06/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/04/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2021	ND	222	111	200	0.845	
DRO >C10-C28*	<10.0	10.0	06/04/2021	ND	242	121	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	06/04/2021	ND					
Surrogate: 1-Chlorooctane	87.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.0	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/03/2021	Sampling Date:	06/03/2021
Reported:	06/04/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D - 40 CTB	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SWCP 6 (H211431-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	2.04	102	2.00	3.67	
Toluene*	<0.050	0.050	06/04/2021	ND	2.00	100	2.00	4.18	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.94	97.1	2.00	4.13	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.88	98.0	6.00	4.01	
Total BTEX	<0.300	0.300	06/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/04/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2021	ND	222	111	200	0.845	
DRO >C10-C28*	<10.0	10.0	06/04/2021	ND	242	121	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	06/04/2021	ND					
Surrogate: 1-Chlorooctane	91.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	87.4	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



EAU D - 40 CTB NOT GIVEN Sample Received By:

06/03/2021

Cool & Intact

Jodi Henson

Soil

Analytical Results For:

	APACHE	Corp - Hobbs		
	BRUCE B	BAKER		
	2350 W.	MARLAND BLVD.		
	HOBBS N	NM, 88240		
	Fax To:	(575) 393-2432		
06/0	3/2021		Sampling Date:	
06/0	4/2021		Sampling Type:	
EAU	D40		Sampling Condition:	

Sample ID: SWCP 3 (H211431-04)

Received:

Reported:

Project Name:

Project Number:

Project Location:

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	2.04	102	2.00	3.67	
Toluene*	<0.050	0.050	06/04/2021	ND	2.00	100	2.00	4.18	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.94	97.1	2.00	4.13	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.88	98.0	6.00	4.01	
Total BTEX	<0.300	0.300	06/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/04/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2021	ND	222	111	200	0.845	
DRO >C10-C28*	<10.0	10.0	06/04/2021	ND	242	121	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	06/04/2021	ND					
Surrogate: 1-Chlorooctane	86.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	83.5	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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 SM4500CI-B does not require samples be received at or below 6°C

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

RUSH !!

rator

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		0/10/2021 3.23.23	1 174		
Sampler - UP	Delivered By	PLEASE NOTE: Liab analyses. All claims is service. In no event si affiliate or successor Relipinquishe Relipinquishe			H211431

(575) 393-2326 FAX (575) 393-2470	BILL TO	ANALYSIS REQUEST
Project Manager: A LA DAVIN	P.O. #:	
0~0	Company:	
city: Holdos State: WWZip: 88940	Attn:	
e	Address:	
Project #: Project Owner:	City:	
Project Name:	State: Zip:	
Project I acation: THU JUO MAR	Phone #:	
Index Parts	Fax #:	
" CONTRACTOR OF THE	MATRIX PRESERV SAMPLING	
Lab I.D. Sample I.D. DUNDWATER STEWATER L	JDGE HER : D/BASE:)/ COOL HER :	CL TPH E BTEY
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	w.	XXX
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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 applicat 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 applicat 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 applications. 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 applications. Including the shall be for includental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, and the completion of the application of the	ed in contract or tort, shall be limited to the amount paid by the client i in writing and received by Cardinal within 30 days after completion of nerruptions, loss of use, or loss of profits incurred by client, its subact interruptions.	for the of the applicable danse,
Relinquished By:	eunder by Cardinal, regardless of whether such claim is based upon any CT 20272 TOTAL TO BUT IN WHETHER BY UP TO A CONTRACT TO A CONTRACT OF THE CONTRACT OF T	All Results are emailed. Please provide Email address:
Relighquished By: (Level, Verse) Date: Received By:	REMARKS:	KS:
Temp. °C / 1	Sample Condition CHECKED BY: Turnarou Cool Intact / Intia/s)	e: Standard Ba
	S.	Thermometer ID #113

Page 71 of 111



June 07, 2021

JEFFREY BROOM APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: EAU D40

Enclosed are the results of analyses for samples received by the laboratory on 06/04/21 16:35.

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/07/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D-40 CTB	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CP 1 @ 4' (H211441-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.91	95.3	2.00	5.98	
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/07/2021	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	82.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	79.8	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/07/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D-40 CTB	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CP 2 @ 4' (H211441-02)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.91	95.3	2.00	5.98	
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	06/07/2021	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	89.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	88.7	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/07/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D-40 CTB	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CP 3 @ 4' (H211441-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.91	95.3	2.00	5.98	
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	06/07/2021	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	71.2	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	81.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.1	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/07/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D-40 CTB	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CP 4 @ 4' (H211441-04)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.91	95.3	2.00	5.98	
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	06/07/2021	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	77.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	76.5	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/07/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D-40 CTB	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CP 5 @ 4' (H211441-05)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.91	95.3	2.00	5.98	
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	06/07/2021	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	84.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.9	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	APACHE CORP - HOBBS	
	JEFFREY BROOM	
	2350 W. MARLAND BLVD.	
	HOBBS NM, 88240	
	Fax To: (575) 393-2432	
06/04/2021	Sampling Date:	

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/07/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D-40 CTB	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SWCP 17 (H211441-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.91	95.3	2.00	5.98	
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	06/07/2021	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	80.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	77.4	% 38.9-14	2						

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

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/07/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D-40 CTB	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SWCP 18 (H211441-07)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.91	95.3	2.00	5.98	
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	06/07/2021	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	85.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	83.8	% 38.9-14	2						

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

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/07/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D-40 CTB	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CP 31 @ 4' (H211441-08)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.91	95.3	2.00	5.98	
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	06/07/2021	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	72.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	70.0	% 38.9-14	2						

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

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/07/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D-40 CTB	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SWCP 4 (H211441-09)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.91	95.3	2.00	5.98	
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/07/2021	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	80.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	78.7	% 38.9-14	2						

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	APACHE C	orp - Hobbs		
	JEFFREY B	ROOM		
	2350 W. M	IARLAND BLVD.		
	HOBBS NM	1, 88240		
	Fax To:	(575) 393-2432		
06/04/2021			Sampling Date:	

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/07/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D-40 CTB	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SWCP 16 (H211441-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.94	97.1	2.00	5.41	
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/07/2021	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	83.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	80.9	% 38.9-14	2						

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

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/07/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D-40 CTB	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SWCP 19 (H211441-11)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.94	97.1	2.00	5.41	
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	06/07/2021	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	80.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	78.6	% 38.9-14	2						

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

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/07/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D-40 CTB	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SWCP 20 (H211441-12)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.94	97.1	2.00	5.41	
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15000	16.0	06/07/2021	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	81.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	80.8	% 38.9-14	2						

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APACHE C	ORP - HOBBS	
JEFFREY E	BROOM	
2350 W. M	1arland Blvd.	
HOBBS NN	1, 88240	
Fax To:	(575) 393-2432	2
		Courseling Datas
	JEFFREY E 2350 W. N HOBBS NN	APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/07/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D-40 CTB	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SWCP 21 (H211441-13)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.94	97.1	2.00	5.41	
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	06/07/2021	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	85.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	83.4	% 38.9-14	2						

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

06/04/2021	Sampling Date:	06/04/2021
06/07/2021	Sampling Type:	Soil
EAU D40	Sampling Condition:	Cool & Intact
EAU D-40 CTB	Sample Received By:	Tamara Oldaker
NOT GIVEN		
	06/07/2021 EAU D40 EAU D-40 CTB	06/07/2021Sampling Type:EAU D40Sampling Condition:EAU D-40 CTBSample Received By:

Sample ID: SWCP 22 (H211441-14)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.94	97.1	2.00	5.41	
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	06/07/2021	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	84.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.3	% 38.9-14	2						

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

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/07/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D-40 CTB	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CP 32 @ SURFACE (H211441-15)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.94	97.1	2.00	5.41	
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9520	16.0	06/07/2021	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	1050	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	152	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	87.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	123	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/07/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D-40 CTB	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CP 33 @ SURFACE (H211441-16)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.94	97.1	2.00	5.41	
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16100	16.0	06/07/2021	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	103	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	26.1	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	65.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	68.6	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/07/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D-40 CTB	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CP 21 @ 3' (H211441-17)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.94	97.1	2.00	5.41	
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	06/07/2021	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	74.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	72.8	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/07/2021	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	EAU D-40 CTB	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: CP 6 @ 4' (H211441-18)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.94	97.1	2.00	5.41	
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/07/2021	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					
Surrogate: 1-Chlorooctane	82.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.3	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 SM4500CI-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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released	to Imaging: 7/.	29/2021 8:41:48 AM	

Company Name:			BILL TO			A	ANALYSIS REC	REQUEST
Project Manager: July Box		P.O.).#:					
Address:		Cor	Company:					
city: Holdos	State: NN Zip: SK 24	SUO Attn:						
Phone #:	Fax #:		Address:		_			
Project #:	Project Owner:	City:	'n					-
Project Name:		State:	te: Zip:					
Project Location: CAU J	D-40 CTB	Pho	Phone #:	ж. 			-	
Sampler Name:	unsurely dr.	Fax #:	(#:					
FOR LAB USE ONLY	,	MATRIX	PRESERV. SAM	SAMPLING	Ή			
Lab I.D. Sample I.D.	AB OR (C) MP	ER: ,	/BASE: COOL ER :	1	xt T/2	J/EX		
HAIHAH	# CO GRO	SOIL OIL SLUI	DATE	TIME	E			
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h@ CO) Z				9:38				
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7 Swcp 18				80:01	-			
8 CP 31 011				10.10				
9 Swcp 4	>	-		11:16	-			
PLEASE NOTE: Lability and Damages. Cardinal's lability 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 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	and client's exclusive remedy for any claim arising whether other cause whatsoever shall be deemed waived unless other cause whatsoever include the detailed the state of the	er based in contract or tort, is made in writing and receive	shall be limited to the amount pair ed by Cardinal within 30 days after	d by the client for the ir completion of the appl	icable	Í		
affiliates or successors arising out of or related to the porformer Relinctuid herd Rv.	matros rí services hereunder by Cardinal, regardless of whether such claim is based upon any of the above Dafe: Received BV:	whether such claim is base	d upon any of the above stated ro	Verbal Result:	□ Yes		Add'l Phone #:	
Ch. Com	14/12	Mara 1	all	All Results are	emailed. P	ease provide	All Results are emailed. Please provide Email address:	
Reyinquished By:	Date: Received By: Time:	SY:	(and the second	REMARKS:	÷			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4, 6 Sa Corrected Temp. °C	Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Thermometer ID #1		Standard Rush	-	S
Sampier - UPS - Bus - Other:			40	Correction Factor None	r None			Corrected Temp. °C

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

aboratories

Page 93 of 111

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

A REAL PROPERTY AND INCOME.	Concession in the local division in the loca	-				-	-		_
Re	1	Re	servi	analy	PLE				

Received by OCD: 6/10/2021 5:25:23 PM

Company Name: apach	0		BILL TO		ANALYSIS REQUEST	JEST
Project Manager:		P.O. #:				
Address:		Company:				
City:	State: Zip:	Attn:				
Phone #:	Fax #:	Address:				
Project #:	Project Owner:	City:			*	
Project Name:		State:	Zip:			
Project Location:		Phone #:			×	
Sampler Name:		Fax #:				
FOR LAB USE ONLY	2.	MATRIX PRESERV.	RV. SAMPLING		-	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER	WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: (CE) COOL	OTHER:	C/ GKT <u>T794</u> /* BTEL		
11 Suchly						
12 Sucp 20			\$ \$ \$			
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17021 031			6	$\frac{5}{5\times}$		
1001004	<u> </u>	-	Sub-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Liability ms inclu ent shall	nt's exclusive remedy for any claim arising whether based ause whatsoever shall be deemed waived unless made i unental damages, including without limitation, business in a factor business in the state of the state	whether based in contract or tort, shall be li unless made in writing and received by Car n, business interruptions, loss of use, or los	mited to the amount paid by the client fo dinal within 30 days after completion of 1 s of profits incurred by client, its subsidie s of the above stated reasons or otherw	r the the applicable aries, ise		
Relinquished By:	Date: 6/4/21 Received By: 6/4/21 Time:		All Results are	Yes No No	Add'l Phone #: ide Email address:	
Relinquished By:	Date: Received B	d By:	REMARKS:	S.	j.	x
Delivered By: (Circle One) Obs Sampler - UPS - Bus - Other: Cor	Observed Temp. °C 44,6 Corrected Temp. °C	Sample Condition CH Cool Intact	(Initials) (Initials) Correction Factor N	Standard Rush 13 one	Bacteria (only) S Cool Intact	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Ves Yes No No Corrected Temp. °C



June 10, 2021

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: EMPIRE ABO UNIT D40 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/09/21 7:40.

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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	06/09/2021	Sampling Date:	06/08/2021
Reported:	06/10/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT D40 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	EMPIRE ABO UNIT D40 CTB	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: CP 32 (H211484-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2021	ND	2.11	106	2.00	2.18	
Toluene*	<0.050	0.050	06/09/2021	ND	2.08	104	2.00	2.32	
Ethylbenzene*	<0.050	0.050	06/09/2021	ND	2.02	101	2.00	2.83	
Total Xylenes*	<0.150	0.150	06/09/2021	ND	6.10	102	6.00	3.36	
Total BTEX	<0.300	0.300	06/09/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	06/09/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2021	ND	190	95.1	200	0.599	
DRO >C10-C28*	14.8	10.0	06/09/2021	ND	193	96.3	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	06/09/2021	ND					
Surrogate: 1-Chlorooctane	86.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	88.2	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 6/10/2021 5:25:23 PM

ר טרגוען-טעס דר ס. ד עסועקו	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Kelinguished By:	Ser Capl	analyses. All claims including those for negligence and service. In no event shall Cardinal be liable for incidenta affiliates or successors arising out of or related to the per Deline or the back Development.	PLEASE NOTE: Liability and Damagas Care			CF 3 X	H2112H		Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location: Cmp	Project Name:	Project #:	Phone #:	city: Mobbs	Address:	Project Manager: Se	Company Name: Apac	101 Eas (575) 3	Lab	
ZO † Cardinal car	Observed Temp. °C Corrected Temp. °C	Date: Time:	CH:	any other cause whatsoever is any other cause whatsoever, l or consequental damages, formance of serificac horour	inal'e liability and cliant's aveluaise remains for any						Sample I.D.		e Chosel	he the UNIF D. 40		Project Owner:	Fax #:	State: Nuc		H Barn	he	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	oratories	
not accept verbal change	, Sample Condition Cool Intact ⊠ Yes X Yes	Beceived By:	HODL MU	ball be deemed wave uniserup weever un contract or tort, small be immed to trie amount shall be deemed waved unless made in writing and received by Cardinal within 30 days at including without limitation, business interruptions, loss of use, or loss of profits incurred b the by Cardinal, regardless of whether such claim is based upon any of the above stated the by Cardinal, regardless of whether such claim is based upon any of the above stated the business of the based stated the based bas	block to be a set of the set of t				# CO GRO WAS SOII OIL SLU		OR (C)OM AINERS DWATER VATER	MP. MATRIX		CTB				Zip: 88240				240 176		011
es. Please email chang	CHECKED BY:	7	MABUL	corr, snall be immed to the amount paid b ceived by Cardinal within 30 days after ci of use, or loss of profits incurred by cile ased upon any of the above stated reaso				1 44	DATE)/ВА / СО		PRESERV. SAMPLING	1	Phone #:	State: Zip:	City:	Address:	Attn:	Company:	P.O. #:	BILL TO		KNUTT: S	< <u>(1</u>)
Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	Turnaround Time: Standard Rush Thermomoter ID #113 Correction Factor None	REMARKS: 5 - War (Result	Verbal Result: □ Yes □ No	applicat				1.01pu 1	. 01		EX TP)		-										CHAIN-OF-CUSTOD	
	Bacteria (only) S Cool Intact	K	Add'l Phone #: ovide Email address:																		ANALYSIS REQUEST		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	

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June 09, 2021

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: EMPIRE ABO UNIT D40 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/09/21 7:15.

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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	06/09/2021	Sampling Date:	06/08/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT D40 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	EMPIRE ABO UNIT D40 CTB	Sample Received By:	Mike Snyder
Project Location:	LOCO HILLS, NM		

Sample ID: SWCP #21 (H211485-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	06/09/2021	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 6/10/2021 5:25:23 PM

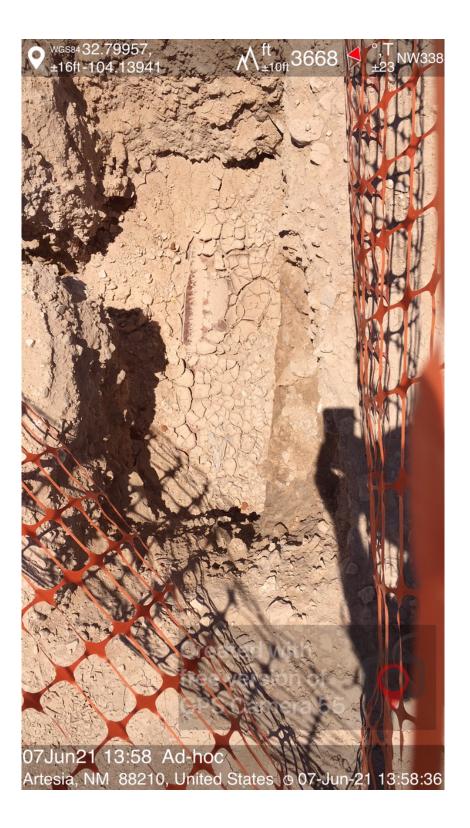
	Sampler - UPS - Bus - Other: CC		See dad	analyses. All claims including those for negligence and any other service. In no event shall Cardinal be liable for incidental or cons afflicted or successors siring out of or related to the performance Relineration of the second Bar.	PLEASE NOTE: Liability and Damages. Cardinal's liability and cl			1 Swc P # 21	H211485	Lab I.D. Sample I.D.		FOR LAB USE ONLY	Sampler Name: So Oceand	Project Location: Employe H	Project Name:	Project #:	Phone #:	city: Hobbs	Address:	Project Manager: Seff Rec	Company Name: Apache	- 5	Laborato	
† Cardinal cannot accept verbal cha	Corrected Temp. °C O.(Sample Condition Corrected Temp. °C Intact No No No	eived	121	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, afflicto or subscreaments within 30 days after completion of the applicable afflicto or subscreaments within gould of related to the performance of service. Incurred by Cardinal, regardless of whether such client is busided afflicto or subscreaments within a difficult or subscreaments within a service. In the above stated reasons or otherwise.	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			/	# CO GRO	AB OR NTAIN UNDW TEWAT	(C)OMP ERS ATER	MATRIX	0	the Unit D-40 CF13		Project Owner:	Fax #:	State:N/ハ Zip: 8をえくし	x.			1 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	IAL	
nges. Please email changes	CHECKED BY:		mt AIIR	d received by Cardinal within 30 days after comple loss of use, or loss of profits incurred by client, its ביב לביבים ערמוד any of the above stated reasons or	or tort shall be limited to the amount said by the			1 6/2		ER : /BASE: COOL		PRESERV. SAMPLING	Fax #:	#	State: Zip:	City:	Address:	Attn:	Company:	P.O. #:	BILL TO		П СЦСТСИЛ	A C
Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	Turnaround Time: Standard Bacteria (only) Sample Condition Thermometer ID #113 Cool Intact Observed Temp. °C Correction Factor None □ Yes Ves Ves	tal Resalts	All Results are emailed. Please provide Email address:		he client for the			12:34				NG									ANALYSIS REQUEST		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	

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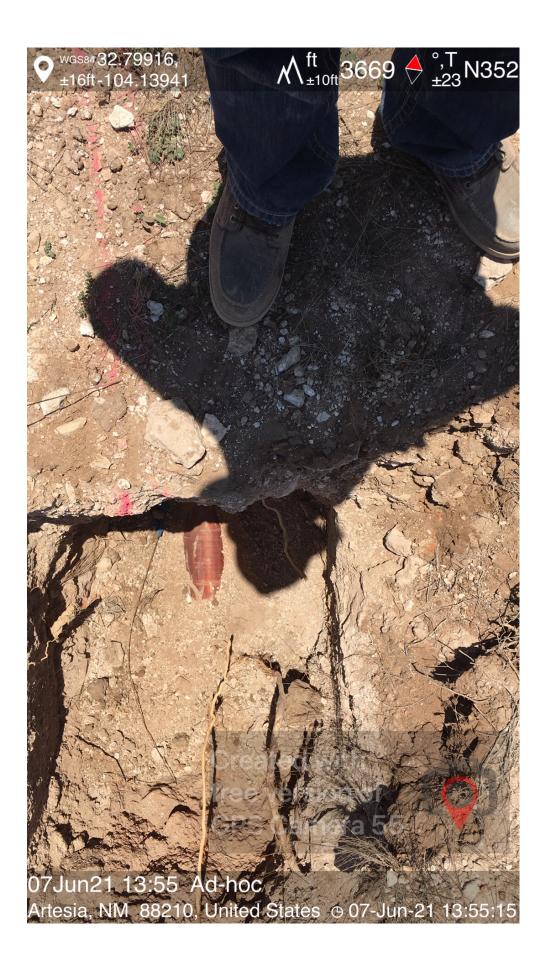












Page 6

Oil Conservation Division

Incident ID	NRM2015736485
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.

<u>Closure Report Attachment Checklist</u>: 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)

 \square 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: 6/10/2021									
Signature: Larry Baker email: larry.baker@apachecorp.com	Telephone: 432-631-6982									
OCD Only										
Received by: Robert Hamlet	Date: 7/29/2021									
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.									
Closure Approved by: Robert Hamlet	Date: 7/29/2021									
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced									

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

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	31467
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2015736485 EMPIRE ABO D40 BATTERY, thank you. This closure is approved.	7/29/2021

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Action 31467