



303 Veterans Airpark Lane Midland, TX 79705

Deferment Request

Re: NEDU 2A
Case # NDHR1917957292

On 6/26/2019 a release occurred due to an automation failure did not allow the shut off valve to work correctly causing the tank to run over. The release is located north of Eunice, New Mexico (GPS 32.51457, -103.15427) in unit letter E, section 3, township 21S, and range 37E. A groundwater survey conducted utilizing USGS and NMOSE wells of record in this area indicates a depth of groundwater below the release at 75 feet. A remediation plan was submitted to OCD and denied on 2/13/2020 due to the horizontal and vertical delineation was not complete. A second remediation plan was submitted on 9/1/2020 and approved by OCD.

In January 2021 the battery area was hand excavated to a depth of 6 inches and the area around SP 2 was excavated to a depth of one foot. Then the release area soil was loosen and micro-blaze was applied and watered occasionally until the end of July 2021 in which treatment failed to reduce hydrocarbons to standards. In August 2021 the decision was made to remove the contamination utilizing a hand digging crew and equipment were applicable. On 8/25/2021 final 5 point bottom samples were collected not to exceed 500 square feet in accordance with the approved remediation plan and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Sample points B1 and B2 inside the battery were above table one standards for TPH. Due to those areas are below multiple steel pipelines a hand auger was utilized in an attempt to fully delineate those areas but rock refusal was meet within the first inch. The W Wall, B4, B5, and B14 were above table one standards for TPH. W1, B6, B7, B8, B9, B10, B11, B16 and B18 were above reclamation standards on TPH. All areas except B6 were further excavated to rock refusal. B6 was already at rock refusal. On 8/27/2021 final 5 point bottom composite samples were collected not exceeding 500 square feet and submitted to a commercial laboratory for TPH and BTEX. Two additional 5 point wall composite samples were collected not exceeding 200 square feet and submitted to a commercial laboratory for analysis for TPH and BTEX. Laboratory results for all samples from the further excavation we below table one and reclamation standards for TPH. All excavated material was hauled to an OCD approved disposal facility. The pasture area was backfilled with clean imported top soil to ground surface and contoured to the surrounding area. The battery was backfilled with clean imported caliche to ground surface. The pasture area will be reseeded in accordance with the surface landowner guidelines. A deferment request was submitted and denied by OCD on 10/4/2021. In December 2021 B6 was further excavated to a depth of 2 feet with a small excavator. Final 5-point bottom and wall composite samples were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. The area inside the battery was delineated to below table one standards at SP 1 at one foot in the original delineation of the release.

Apache Corporation respectfully request that the area B1 and B2 inside the battery be deferred until system abandonment due to proximity of battery infrastructure.

Enclosed: C-141, Sample Data, Maps, Laboratory Results, Field Notes, and Photos.

Submitted by;

Larry Baker

Environmental Technician SR. STAFF

larry.baker@apachecorp.com

Cell# 432-215-2284

Off# 432-818-1000

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Larry Baker Title: Environmental Tech Sr. Staff
 Signature: Larry Baker Date: 7/5/2022
 email: larry.baker@apachecorp.com Telephone: 432-215-2284

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: Jennifer Nobui Date: 03/01/2023

From: OCDOnline@state.nm.us
To: [Baker, Larry](#)
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 45963
Date: Monday, October 4, 2021 10:28:05 AM

To whom it may concern (c/o Larry Baker for APACHE CORPORATION),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nDHR1917957292, for the following reasons:

- **Variance denied. Reclamation standard at B6 needs to be 4 ft bgs.**
- **Deferral denied. Delineation not complete at sample point B2.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 45963.

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

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

Thank you,
Chad Hensley
Environmental Science & Specialist
575-703-1723
Chad.Hensley@state.nm.us

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

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Final Bottom Composite Samples

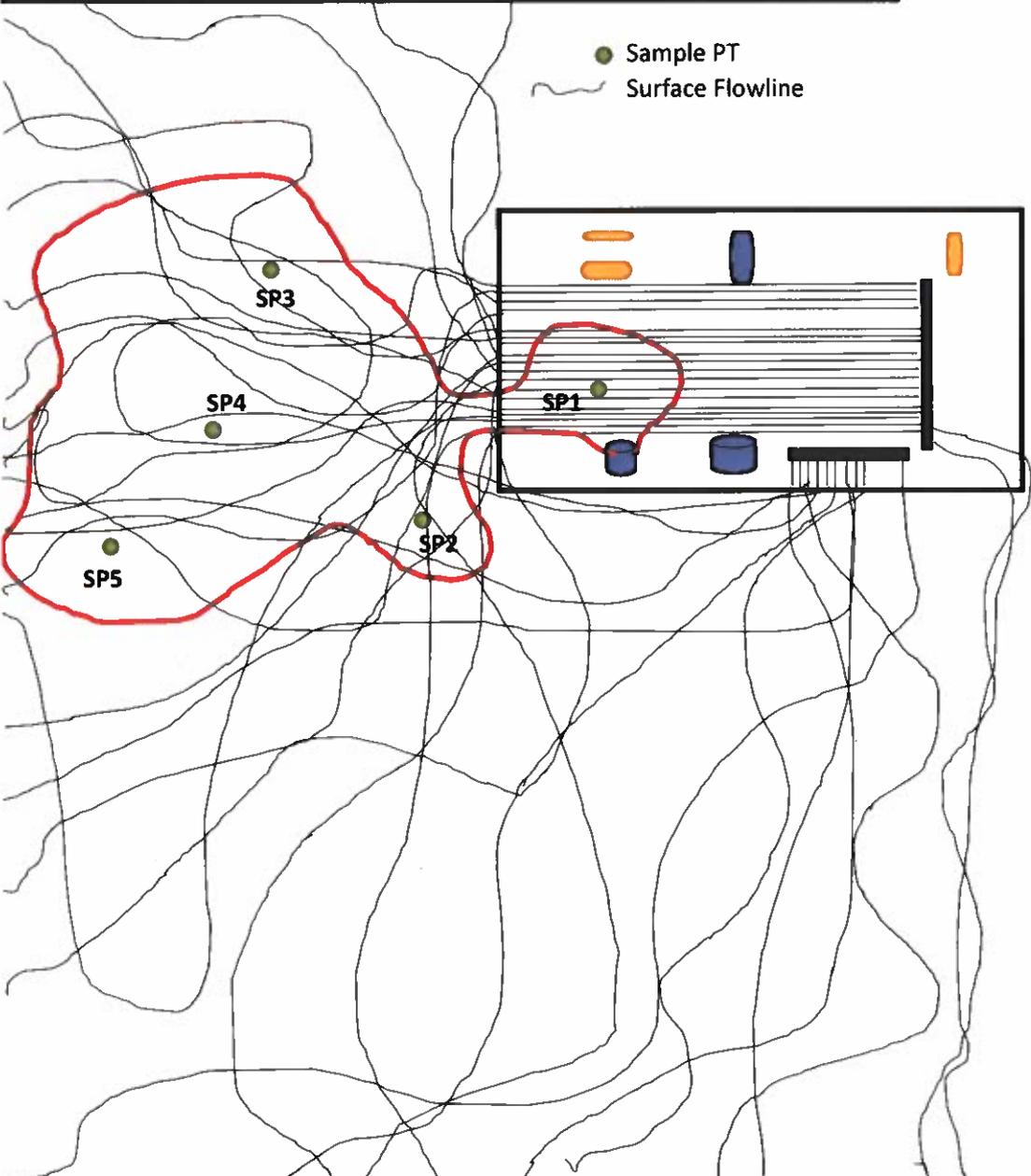
Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
8/25/2021	B1	6"	976	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1020	393
8/25/2021	B2	6"	112	<0.050	<0.050	<0.050	0.791	0.791	47.6	3760	1450
8/25/2021	B3	6"	624	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	695	434
8/25/2021	B4	3-6"	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1840	907
8/27/2021	B4	6-8"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/25/2021	B5	3-6"	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1110	566
8/27/2021	B5	6-8"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.1	<10.0
8/25/2021	B6	1'	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	811	442
12/7/2021	B6	2'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/25/2021	B7	3-6"	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	74.6	39.6
8/27/2021	B7	6-8"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/25/2021	B8	3-6"	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	248	213
8/27/2021	B8	6-8"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.7	<10.0
8/25/2021	B9	3-6"	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	241	143
8/27/2021	B9	6-8"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/25/2021	B10	3-6"	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	216	116
8/27/2021	B10	6-8"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.7	<10.0
8/25/2021	B11	3-6"	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	151	72.5
8/27/2021	B11	6'-8"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/25/2021	B12	3-6"	12.8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.8	<10.0
8/25/2021	B13	3-6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.2	14.5
8/25/2021	B14	3-6"	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	6970	2120
8/27/2021	B14	6-8"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/25/2021	B15	6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/25/2021	B16	6"	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1190	521
8/27/2021	B16	6-8"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/25/2021	B17	6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/25/2021	B18	6"	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	510	171
8/27/2021	B18	6-8"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/25/2021	B19	6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0

Final Wall Composite Samples

Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
8/25/2021	E Wall	0-6"	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	772	416
8/25/2021	W Wall	0-6"	2040	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1160	425
8/25/2021	W1	0-6"	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	246	191
12/7/2021	W1	0-2'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/25/2021	W2	0-6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/25/2021	W3	0-6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/27/2021	W4	0-8"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/27/2021	W5	0-8"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0



Apache Corporation: NEDU Sat 2A Release Date: June 26, 2019	RP No. 1RP-5591 API No. 30-025-34651
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Sample ID	Depth	BTEX	Chloride	TPH	Ext DRO	Description
SP1	Surface	<0.300	2960	18900	4690	
SP1	1'	<0.300	1340	237	44.9	
SP2	Surface	<0.300	736	426	161	
SP2	1'	<0.300	576	33.3	<10	
SP3	Surface	<0.300	496	7680	3090	Impervious
SP4	Surface	<0.300	32	<10	<10	Impervious
SP5	Surface	<0.300	<16	<10	<10	Impervious

NE Drinkard Unit Sat 2A



Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
10/1/2019	SP 1	S	2960	<0.050	<0.050	<0.050	<0.150	<0.300	<100	18900	4690	32.514489,- 103.154499
10/1/2019		1'	1340	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	237	44.9	
10/1/2019	SP 2	S	736	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	426	161	32.514256, - 103.154478
10/1/2019		1'	576	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	33.3	<10.0	
10/1/2019	SP 3	S	496	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	7630	3090	32.514377,- 103.154653
10/1/2019	SP 4	S	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.514228,- 103.154744
10/1/2019	SP 5	S	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.514113,- 103.154960
2/25/2020	HC1	S	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.514409, - 103.154730
2/25/2020	HC2	S	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.514294, - 103.154793
2/25/2020	HC3	S	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.514050, - 103.155083
2/25/2020	HC4	S	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.513138,- 103.154684
2/25/2020	HC5	S	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.514174, - 103.154406
2/25/2020	HC6	S	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.514833, - 103.154365
2/25/2020	HC7	S	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.514537, - 103.154294



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

October 04, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU SATELLITE 2A

Enclosed are the results of analyses for samples received by the laboratory on 10/02/19 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/02/2019	Sampling Date:	10/01/2019
Reported:	10/04/2019	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 - SURFACE (H903366-01)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2019	ND	1.97	98.5	2.00	3.87	
Toluene*	<0.050	0.050	10/03/2019	ND	1.90	94.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.89	94.7	2.00	3.75	
Total Xylenes*	<0.150	0.150	10/03/2019	ND	5.82	97.0	6.00	4.29	
Total BTEX	<0.300	0.300	10/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	10/03/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<100	100	10/02/2019	ND	163	81.4	200	5.24		
DRO >C10-C28*	18900	100	10/02/2019	ND	154	77.2	200	5.01		
EXT DRO >C28-C36	4690	100	10/02/2019	ND						

Surrogate: 1-Chlorooctane 126 % 41-142

Surrogate: 1-Chlorooctadecane 721 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/02/2019	Sampling Date:	10/01/2019
Reported:	10/04/2019	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 - 1' (H903366-02)

BTEX 8021B		mg/kg		Analyzed By: BF				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2019	ND	1.97	98.5	2.00	3.87	
Toluene*	<0.050	0.050	10/03/2019	ND	1.90	94.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.89	94.7	2.00	3.75	
Total Xylenes*	<0.150	0.150	10/03/2019	ND	5.82	97.0	6.00	4.29	
Total BTEX	<0.300	0.300	10/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 73.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	10/03/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2019	ND	163	81.4	200	5.24	
DRO >C10-C28*	237	10.0	10/02/2019	ND	154	77.2	200	5.01	
EXT DRO >C28-C36	44.9	10.0	10/02/2019	ND					

Surrogate: 1-Chlorooctane 77.7 % 41-142

Surrogate: 1-Chlorooctadecane 88.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/02/2019	Sampling Date:	10/01/2019
Reported:	10/04/2019	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 2 - SURFACE (H903366-03)

BTEX 8021B		mg/kg		Analyzed By: BF				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2019	ND	1.97	98.5	2.00	3.87	
Toluene*	<0.050	0.050	10/03/2019	ND	1.90	94.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.89	94.7	2.00	3.75	
Total Xylenes*	<0.150	0.150	10/03/2019	ND	5.82	97.0	6.00	4.29	
Total BTEX	<0.300	0.300	10/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 72.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	10/03/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2019	ND	163	81.4	200	5.24	
DRO >C10-C28*	426	10.0	10/02/2019	ND	154	77.2	200	5.01	
EXT DRO >C28-C36	161	10.0	10/02/2019	ND					

Surrogate: 1-Chlorooctane 73.0 % 41-142

Surrogate: 1-Chlorooctadecane 97.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/02/2019	Sampling Date:	10/01/2019
Reported:	10/04/2019	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 2 - 1' (H903366-04)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2019	ND	1.97	98.5	2.00	3.87	
Toluene*	<0.050	0.050	10/03/2019	ND	1.90	94.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.89	94.7	2.00	3.75	
Total Xylenes*	<0.150	0.150	10/03/2019	ND	5.82	97.0	6.00	4.29	
Total BTEX	<0.300	0.300	10/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 73.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	10/03/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2019	ND	163	81.4	200	5.24	
DRO >C10-C28*	33.3	10.0	10/02/2019	ND	154	77.2	200	5.01	
EXT DRO >C28-C36	<10.0	10.0	10/02/2019	ND					

Surrogate: 1-Chlorooctane 70.5 % 41-142

Surrogate: 1-Chlorooctadecane 74.2 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/02/2019	Sampling Date:	10/01/2019
Reported:	10/04/2019	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 - SURFACE (H903366-05)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2019	ND	1.97	98.5	2.00	3.87	
Toluene*	<0.050	0.050	10/03/2019	ND	1.90	94.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.89	94.7	2.00	3.75	
Total Xylenes*	<0.150	0.150	10/03/2019	ND	5.82	97.0	6.00	4.29	
Total BTEX	<0.300	0.300	10/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 75.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	10/03/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	10/02/2019	ND	163	81.4	200	5.24		
DRO >C10-C28*	7630	50.0	10/02/2019	ND	154	77.2	200	5.01		
EXT DRO >C28-C36	3090	50.0	10/02/2019	ND						

Surrogate: 1-Chlorooctane 78.9 % 41-142

Surrogate: 1-Chlorooctadecane 428 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/02/2019	Sampling Date:	10/01/2019
Reported:	10/04/2019	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 4 - SURFACE (H903366-06)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	1.97	98.5	2.00	3.87		
Toluene*	<0.050	0.050	10/03/2019	ND	1.90	94.8	2.00	3.15		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.89	94.7	2.00	3.75		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	5.82	97.0	6.00	4.29		
Total BTEX	<0.300	0.300	10/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 77.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/03/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/02/2019	ND	163	81.4	200	5.24		
DRO >C10-C28*	<10.0	10.0	10/02/2019	ND	154	77.2	200	5.01		
EXT DRO >C28-C36	<10.0	10.0	10/02/2019	ND						

Surrogate: 1-Chlorooctane 74.7 % 41-142

Surrogate: 1-Chlorooctadecane 76.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/02/2019	Sampling Date:	10/01/2019
Reported:	10/04/2019	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 5 - SURFACE (H903366-07)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	1.97	98.5	2.00	3.87		
Toluene*	<0.050	0.050	10/03/2019	ND	1.90	94.8	2.00	3.15		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.89	94.7	2.00	3.75		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	5.82	97.0	6.00	4.29		
Total BTEX	<0.300	0.300	10/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 76.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/03/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12		
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34		
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND						

Surrogate: 1-Chlorooctane 83.9 % 41-142

Surrogate: 1-Chlorooctadecane 85.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: <u>Apache Corp</u>		P.O. #:	
Project Manager: <u>Daveetah Montaner</u>		Company: <u>Apache</u>	
Address:		Attn: <u>Larry Baker</u>	
City:		Address: <u>2350 W. Marland</u>	
State:		City: <u>Hobbs</u>	
Zip:		State: <u>NM</u> Zip: <u>88240</u>	
Phone #:		Phone #: <u>393-7100</u>	
Fax #:		Fax #:	
Project #:		Project Owner:	
Project Name: <u>VEDU Satellite 2A</u>		Project Location:	
Sampler Name: <u>Cavelo Pilcher</u>		FOR LAB USE ONLY	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	Chloride	BTEX	TPH	EXT
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:								
<u>H903366</u>																	
	<u>SP1 - SURF.</u>		<u>5</u>			<u>X</u>						<u>10-1</u>	<u>9:43</u>				
	<u>SP1 - 1'</u>		<u>5</u>			<u>X</u>						<u>10-1</u>	<u>9:51</u>				
	<u>SP2 - SURF</u>		<u>5</u>			<u>X</u>						<u>10-1</u>	<u>10:57</u>				
	<u>SP2 - 1'</u>		<u>5</u>			<u>X</u>						<u>10-1</u>	<u>10:47</u>				
	<u>SP3 - SURF</u>		<u>5</u>			<u>X</u>						<u>10-1</u>	<u>10:50</u>				
	<u>SP4 - SURF</u>		<u>5</u>			<u>X</u>						<u>10-1</u>	<u>10:54</u>				
	<u>SP5 - SURF</u>		<u>5</u>			<u>X</u>						<u>10-1</u>	<u>11:17</u>				

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Relinquished By: Daveetah Montaner Date: 10-2-19 Received By: Larry Baker Date: 10-2-19
 Time: 14:45

Delivered By: (Circle One) 3.1° #497 Sample Condition: Cool Intact
 Sampler - UPS - Bus - Other: Corrected 3.5° Yes No Yes No No Yes

REMARKS: Phone Result: Yes No No Add'l Phone #:
Fax Result: Yes No No Add'l Fax #:
REMARKS:
Email: larry.baker@apachecorp.com
lmontaner@hugob-horse.com



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

March 02, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU 2A

Enclosed are the results of analyses for samples received by the laboratory on 02/26/20 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	NEDU 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H 1 @ SURFACE (H000623-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.80	89.8	2.00	8.08	
Toluene*	<0.050	0.050	02/28/2020	ND	1.80	89.8	2.00	9.56	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.80	90.1	2.00	9.40	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.21	86.9	6.00	9.52	
Total BTEX	<0.300	0.300	02/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	214	107	200	2.44	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	230	115	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 88.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	NEDU 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H 2 @ SURFACE (H000623-02)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2020	ND	1.80	89.8	2.00	8.08		
Toluene*	<0.050	0.050	02/28/2020	ND	1.80	89.8	2.00	9.56		
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.80	90.1	2.00	9.40		
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.21	86.9	6.00	9.52		
Total BTEX	<0.300	0.300	02/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/28/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	214	107	200	2.44		
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	230	115	200	3.60		
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND						

Surrogate: 1-Chlorooctane 86.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.1 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	NEDU 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H 3 @ SURFACE (H000623-03)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.80	89.8	2.00	8.08	
Toluene*	<0.050	0.050	02/28/2020	ND	1.80	89.8	2.00	9.56	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.80	90.1	2.00	9.40	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.21	86.9	6.00	9.52	
Total BTEX	<0.300	0.300	02/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	214	107	200	2.44	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	230	115	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.3 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	NEDU 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H 4 @ SURFACE (H000623-04)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2020	ND	1.80	89.8	2.00	8.08		
Toluene*	<0.050	0.050	02/28/2020	ND	1.80	89.8	2.00	9.56		
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.80	90.1	2.00	9.40		
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.21	86.9	6.00	9.52		
Total BTEX	<0.300	0.300	02/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/28/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	214	107	200	2.44		
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	230	115	200	3.60		
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND						

Surrogate: 1-Chlorooctane 87.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.0 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	NEDU 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H 5 @ SURFACE (H000623-05)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2020	ND	1.80	89.8	2.00	8.08		
Toluene*	<0.050	0.050	02/28/2020	ND	1.80	89.8	2.00	9.56		
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.80	90.1	2.00	9.40		
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.21	86.9	6.00	9.52		
Total BTEX	<0.300	0.300	02/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/28/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	214	107	200	2.44		
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	230	115	200	3.60		
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND						

Surrogate: 1-Chlorooctane 87.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.0 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	NEDU 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H 6 @ SURFACE (H000623-06)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	9.17		
Toluene*	<0.050	0.050	02/28/2020	ND	1.80	89.9	2.00	9.14		
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.81	90.3	2.00	8.59		
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.29	88.2	6.00	8.69		
Total BTEX	<0.300	0.300	02/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/28/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	214	107	200	2.44		
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	230	115	200	3.60		
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND						

Surrogate: 1-Chlorooctane 84.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.2 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	NEDU 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H 7 @ SURFACE (H000623-07)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	9.17	
Toluene*	<0.050	0.050	02/28/2020	ND	1.80	89.9	2.00	9.14	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.81	90.3	2.00	8.59	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.29	88.2	6.00	8.69	
Total BTEX	<0.300	0.300	02/28/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2020	ND	210	105	200	0.0833	
DRO >C10-C28*	<10.0	10.0	02/28/2020	ND	202	101	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/28/2020	ND					

Surrogate: 1-Chlorooctane 90.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.9 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Apate Cold</i>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <i>Bruce Baker</i>		Company:					
Address:		Attn:					
City:		Address:					
State:		City:					
Zip:		State:					
Phone #:		Address:					
Fax #:		City:					
Project #:		State:					
Project Owner:		Zip:					
Project Name: <i>NEW 2A</i>		Phone #:					
Project Location: <i>NEW 2A</i>		Fax #:					
Sampler Name: <i>J. Brown</i>							
FOR LAB USE ONLY							
Lab I.D.		Sample I.D.					
H000623							
1		H1 @ Surface		(G)RAB OR (C)OMP.		DATE	
2		H2 @ Surface		# CONTAINERS		TIME	
3		H3 @ Surface		GROUNDWATER		1445	
4		H4 @ Surface		WASTEWATER		1451	
5		H5 @ Surface		SOIL		1453	
				OIL			
				SLUDGE			
				OTHER :			
				ACID/BASE:			
				ICE / COOL			
				OTHER :			
				PRESERV:			
				SAMPLING			

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Relinquished By: *Jeff Brown* Date: *2/26/20* Received By: *Jamora Alabazyr* Time: *1753*

Relinquished By: _____ Date: _____ Received By: _____ Time: _____

Delivered By: (Circle One) Observed Temp. °C *5.4* Sample Condition Cool Intact Yes No Yes No CHECKED BY: (Initials) *YB*

Sampler - UPS - Bus - Other: Corrected Temp. °C _____ Turnaround Time: _____ Standard Rush Bacteria (only) Sample Condition Cool Intact Yes No Yes No Observed Temp. °C _____ Corrected Temp. °C _____

Thermometer ID #97 Correction Factor + 0.4 °C

Verbal Result: Yes No Add'l Phone #: _____
All Results are emailed. Please provide Email address: _____

REMARKS: _____

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Apex Corp</i> Project Manager: <i>Bruce Baker</i>		P.O. #: Company: Attn: Address: City: State: Zip:	
Address: City: State: Zip:		Address: City: State: Zip:	
Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____		City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Project Name: <i>NEBU 2A</i> Project Location: <i>NEBU 2A</i>		City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Sampler Name: <i>J. Brown</i>		Fax #: _____	
FOR LAB USE ONLY			
Lab I.D. _____ Sample I.D. _____	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : _____ ACID/BASE: ICE / COOL OTHER : _____	MATRIX PRESERV SAMPLING	DATE TIME
			CL - BTEX - EXT. TPH
6 H6 @ Surface 7 157 @ Surface	2/25/20 1455 2/25/20 1457	✓ ✓ ✓	_____ _____ _____
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Relinquished By: <i>J. Brown</i> Date: <i>2/24/20</i> Time: <i>1453</i>		Received By: <i>Barbara Chalkley</i> Date: _____ Time: _____	
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____		REMARKS: _____	
Delivered By: (Circle One) Observed Temp. °C <i>5.4</i> Corrected Temp. °C _____ Sampler - UPS - Bus - Other: _____		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No CHECKED BY: (Initials) <i>JS.</i> Turnaround Time: _____ Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #97 Correction Factor + 0.4 °C Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Observed Temp. °C _____ Corrected Temp. °C _____	

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



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

August 26, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU SATELLITE 2A

Enclosed are the results of analyses for samples received by the laboratory on 08/25/21 16:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 1 @ 6" (H212294-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	2.09	104	2.00	2.15	
Toluene*	<0.050	0.050	08/26/2021	ND	2.13	107	2.00	0.715	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	0.739	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.51	109	6.00	1.24	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	08/26/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	214	107	200	1.66	
DRO >C10-C28*	1020	10.0	08/26/2021	ND	198	99.0	200	0.295	
EXT DRO >C28-C36	393	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 72.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 2 @ 6" (H212294-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	2.09	104	2.00	2.15	
Toluene*	<0.050	0.050	08/26/2021	ND	2.13	107	2.00	0.715	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	0.739	
Total Xylenes*	0.791	0.150	08/26/2021	ND	6.51	109	6.00	1.24	
Total BTEX	0.791	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/26/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	47.6	10.0	08/26/2021	ND	214	107	200	1.66		
DRO >C10-C28*	3760	10.0	08/26/2021	ND	198	99.0	200	0.295		
EXT DRO >C28-C36	1450	10.0	08/26/2021	ND						

Surrogate: 1-Chlorooctane 87.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 148 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 3 @ 6" (H212294-03)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	2.09	104	2.00	2.15	
Toluene*	<0.050	0.050	08/26/2021	ND	2.13	107	2.00	0.715	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	0.739	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.51	109	6.00	1.24	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	08/26/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	214	107	200	1.66	
DRO >C10-C28*	695	10.0	08/26/2021	ND	198	99.0	200	0.295	
EXT DRO >C28-C36	434	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 73.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: E WALL (H212294-04)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	2.09	104	2.00	2.15	
Toluene*	<0.050	0.050	08/26/2021	ND	2.13	107	2.00	0.715	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	0.739	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.51	109	6.00	1.24	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/26/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	214	107	200	1.66	
DRO >C10-C28*	772	10.0	08/26/2021	ND	198	99.0	200	0.295	
EXT DRO >C28-C36	416	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 76.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: W WALL (H212294-05)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	2.09	104	2.00	2.15	
Toluene*	<0.050	0.050	08/26/2021	ND	2.13	107	2.00	0.715	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	0.739	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.51	109	6.00	1.24	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	08/26/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	202	101	200	4.05	
DRO >C10-C28*	1160	10.0	08/26/2021	ND	225	112	200	8.17	
EXT DRO >C28-C36	425	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 78.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 4 @ 6" (H212294-06)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	2.09	104	2.00	2.15	
Toluene*	<0.050	0.050	08/26/2021	ND	2.13	107	2.00	0.715	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	0.739	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.51	109	6.00	1.24	
Total BTEX	<0.300	0.300	08/26/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/26/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	202	101	200	4.05	
DRO >C10-C28*	1840	10.0	08/26/2021	ND	225	112	200	8.17	
EXT DRO >C28-C36	907	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 81.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 131 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 5 @ 6" (H212294-07)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	2.09	104	2.00	2.15	
Toluene*	<0.050	0.050	08/26/2021	ND	2.13	107	2.00	0.715	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	0.739	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.51	109	6.00	1.24	
Total BTEX	<0.300	0.300	08/26/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/26/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	202	101	200	4.05	
DRO >C10-C28*	1110	10.0	08/26/2021	ND	225	112	200	8.17	
EXT DRO >C28-C36	566	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 79.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 6 @ 1' (H212294-08)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	2.09	104	2.00	2.15	
Toluene*	<0.050	0.050	08/26/2021	ND	2.13	107	2.00	0.715	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	0.739	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.51	109	6.00	1.24	
Total BTEX	<0.300	0.300	08/26/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/26/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	202	101	200	4.05	
DRO >C10-C28*	811	10.0	08/26/2021	ND	225	112	200	8.17	
EXT DRO >C28-C36	442	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 83.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: W 1 @ 1' (H212294-09)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	2.09	104	2.00	2.15	
Toluene*	<0.050	0.050	08/26/2021	ND	2.13	107	2.00	0.715	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	0.739	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.51	109	6.00	1.24	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/26/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	202	101	200	4.05	
DRO >C10-C28*	246	10.0	08/26/2021	ND	225	112	200	8.17	
EXT DRO >C28-C36	191	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 76.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 7 @ 6" (H212294-10)

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	08/26/2021	ND	2.09	104	2.00	2.15	
Toluene*	<0.050	0.050	08/26/2021	ND	2.13	107	2.00	0.715	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	0.739	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.51	109	6.00	1.24	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/26/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	202	101	200	4.05	
DRO >C10-C28*	74.6	10.0	08/26/2021	ND	225	112	200	8.17	
EXT DRO >C28-C36	39.6	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 77.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.1 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 8 @ 6" (H212294-11)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	2.09	104	2.00	2.15	
Toluene*	<0.050	0.050	08/26/2021	ND	2.13	107	2.00	0.715	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	0.739	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.51	109	6.00	1.24	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/26/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	202	101	200	4.05	
DRO >C10-C28*	248	10.0	08/26/2021	ND	225	112	200	8.17	
EXT DRO >C28-C36	213	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 9 @ 6" (H212294-12)

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	08/26/2021	ND	2.09	104	2.00	2.15	
Toluene*	<0.050	0.050	08/26/2021	ND	2.13	107	2.00	0.715	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	0.739	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.51	109	6.00	1.24	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/26/2021	ND	416	104	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	08/26/2021	ND	199	99.6	200	10.6	
DRO >C10-C28*	241	10.0	08/26/2021	ND	199	99.4	200	5.51	
EXT DRO >C28-C36	143	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 77.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 10 @ 6" (H212294-13)

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	08/26/2021	ND	1.81	90.7	2.00	2.81	
Toluene*	<0.050	0.050	08/26/2021	ND	1.97	98.4	2.00	1.90	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.91	95.3	2.00	2.35	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.75	95.8	6.00	2.66	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/26/2021	ND	416	104	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	08/26/2021	ND	199	99.6	200	10.6	
DRO >C10-C28*	216	10.0	08/26/2021	ND	199	99.4	200	5.51	
EXT DRO >C28-C36	116	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 11 @ 6" (H212294-14)

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	08/26/2021	ND	1.81	90.7	2.00	2.81	
Toluene*	<0.050	0.050	08/26/2021	ND	1.97	98.4	2.00	1.90	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.91	95.3	2.00	2.35	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.75	95.8	6.00	2.66	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/26/2021	ND	416	104	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	08/26/2021	ND	199	99.6	200	10.6	
DRO >C10-C28*	151	10.0	08/26/2021	ND	199	99.4	200	5.51	
EXT DRO >C28-C36	72.5	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 74.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: W 2 @ 6" (H212294-15)

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	08/26/2021	ND	1.81	90.7	2.00	2.81	
Toluene*	<0.050	0.050	08/26/2021	ND	1.97	98.4	2.00	1.90	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.91	95.3	2.00	2.35	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.75	95.8	6.00	2.66	
Total BTEX	<0.300	0.300	08/26/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/26/2021	ND	416	104	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	08/26/2021	ND	202	101	200	4.05	
DRO >C10-C28*	<10.0	10.0	08/26/2021	ND	225	112	200	8.17	
EXT DRO >C28-C36	<10.0	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 66.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 65.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: W 3 @ 6" (H212294-16)

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	08/26/2021	ND	1.81	90.7	2.00	2.81	
Toluene*	<0.050	0.050	08/26/2021	ND	1.97	98.4	2.00	1.90	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.91	95.3	2.00	2.35	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.75	95.8	6.00	2.66	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/26/2021	ND	416	104	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	08/26/2021	ND	202	101	200	4.05	
DRO >C10-C28*	<10.0	10.0	08/26/2021	ND	225	112	200	8.17	
EXT DRO >C28-C36	<10.0	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 72.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 12 @ 6" (H212294-17)

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	08/26/2021	ND	1.81	90.7	2.00	2.81	
Toluene*	<0.050	0.050	08/26/2021	ND	1.97	98.4	2.00	1.90	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.91	95.3	2.00	2.35	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.75	95.8	6.00	2.66	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/26/2021	ND	416	104	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	08/26/2021	ND	202	101	200	4.05	
DRO >C10-C28*	12.8	10.0	08/26/2021	ND	225	112	200	8.17	
EXT DRO >C28-C36	<10.0	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 80.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 13 @ 6" (H212294-18)

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	08/26/2021	ND	1.81	90.7	2.00	2.81	
Toluene*	<0.050	0.050	08/26/2021	ND	1.97	98.4	2.00	1.90	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.91	95.3	2.00	2.35	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.75	95.8	6.00	2.66	
Total BTEX	<0.300	0.300	08/26/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/26/2021	ND	416	104	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	08/26/2021	ND	202	101	200	4.05	
DRO >C10-C28*	18.2	10.0	08/26/2021	ND	225	112	200	8.17	
EXT DRO >C28-C36	14.5	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 14 @ 6" (H212294-19)

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	08/26/2021	ND	1.81	90.7	2.00	2.81	
Toluene*	<0.050	0.050	08/26/2021	ND	1.97	98.4	2.00	1.90	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.91	95.3	2.00	2.35	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.75	95.8	6.00	2.66	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/26/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	199	99.6	200	10.6		
DRO >C10-C28*	6970	10.0	08/26/2021	ND	199	99.4	200	5.51		
EXT DRO >C28-C36	2120	10.0	08/26/2021	ND						

Surrogate: 1-Chlorooctane 71.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 190 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 15 @ 6" (H212294-20)

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	08/26/2021	ND	1.81	90.7	2.00	2.81		
Toluene*	<0.050	0.050	08/26/2021	ND	1.97	98.4	2.00	1.90		
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.91	95.3	2.00	2.35		
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.75	95.8	6.00	2.66		
Total BTEX	<0.300	0.300	08/26/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/26/2021	ND	416	104	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	08/26/2021	ND	202	101	200	4.05		
DRO >C10-C28*	<10.0	10.0	08/26/2021	ND	225	112	200	8.17		
EXT DRO >C28-C36	<10.0	10.0	08/26/2021	ND						

Surrogate: 1-Chlorooctane 79.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 16 @ 6" (H212294-21)

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	08/26/2021	ND	1.81	90.7	2.00	2.81	
Toluene*	<0.050	0.050	08/26/2021	ND	1.97	98.4	2.00	1.90	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.91	95.3	2.00	2.35	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.75	95.8	6.00	2.66	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/26/2021	ND	416	104	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	08/26/2021	ND	199	99.6	200	10.6	
DRO >C10-C28*	1190	10.0	08/26/2021	ND	199	99.4	200	5.51	
EXT DRO >C28-C36	521	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 67.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 112 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 17 @ 6" (H212294-22)

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	08/26/2021	ND	1.81	90.7	2.00	2.81	
Toluene*	<0.050	0.050	08/26/2021	ND	1.97	98.4	2.00	1.90	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.91	95.3	2.00	2.35	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.75	95.8	6.00	2.66	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/26/2021	ND	416	104	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	08/26/2021	ND	202	101	200	4.05	
DRO >C10-C28*	<10.0	10.0	08/26/2021	ND	225	112	200	8.17	
EXT DRO >C28-C36	<10.0	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 79.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 18 @ 6" (H212294-23)

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	08/26/2021	ND	1.81	90.7	2.00	2.81	
Toluene*	<0.050	0.050	08/26/2021	ND	1.97	98.4	2.00	1.90	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.91	95.3	2.00	2.35	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.75	95.8	6.00	2.66	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/26/2021	ND	416	104	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	08/26/2021	ND	199	99.6	200	10.6	
DRO >C10-C28*	510	10.0	08/26/2021	ND	199	99.4	200	5.51	
EXT DRO >C28-C36	171	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 46.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 58.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2021	Sampling Date:	08/25/2021
Reported:	08/26/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: B 19 @ 6" (H212294-24)

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	08/26/2021	ND	1.81	90.7	2.00	2.81	
Toluene*	<0.050	0.050	08/26/2021	ND	1.97	98.4	2.00	1.90	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.91	95.3	2.00	2.35	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.75	95.8	6.00	2.66	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/26/2021	ND	416	104	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	08/26/2021	ND	202	101	200	4.05	
DRO >C10-C28*	<10.0	10.0	08/26/2021	ND	225	112	200	8.17	
EXT DRO >C28-C36	<10.0	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 69.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 65.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

LUSH!!

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Apache
Project Manager: Bruce Baker
Address: Hobbs
City: Hobbs State: NM Zip: 88240
Phone #: Fax #: Project Owner:
Project #: Project Name:
Project Location: NEDU Satellite 2A
Sampler Name: Joe Quasler Jr.
FOR LAB USE ONLY

P.O. #: Company:
Attn: Address:
City: State: Zip:
Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	CL	EXT YPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
H212294	B31 0.6"	C	1			X					8/25	1:12	X	X	X	
	B32 0.6"	C	1			X					8/25	1:14	X	X	X	
	B33 0.6"	C	1			X					8/25	1:16	X	X	X	
	E well	C	1			X					8/25	1:18	X	X	X	
	W well	C	1			X					8/25	1:20	X	X	X	
	B4 0.6"	C	1			X					8/25	1:38	X	X	X	
	B5 0.6"	C	1			X					8/25	1:40	X	X	X	
	B6 0.1"	C	1			X					8/25	1:42	X	X	X	
	B7 0.1"	C	1			X					8/25	1:44	X	X	X	
	B8 0.1"	C	1			X					8/25	1:46	X	X	X	

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Relinquished By: [Signature] Date: 8/25 Time: 10:40
Received By: [Signature] Date: 8/25 Time: 11:40
Remarks: Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address:

Delivered By: (Circle One) Observed Temp. °C: 2.9 Corrected Temp. °C: []
Sampler - UPS - Bus - Other: Sample Condition Cool Intact Yes No Bacteria (only) Sample Condition Cool Intact Yes No
Turnaround Time: Standard Rush Bacteria (only) Sample Condition Cool Intact Yes No
Thermometer ID #113 Correction Factor None



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache Brown Baker Project Manager: Apache Brown Baker Address: 1600s State: NM Zip: 88240 City: Hobbs Fax #: 88240 Phone #: 88240 Project Owner: Project #: REDA Satellite SW Project Name: REDA Satellite SW Project Location: Reda Satellite SW Sampler Name: Joe Muscato Jr.		P.O. #: BILL TO Company: ANALYSIS REQUEST Attn: APACHE BROWN BAKER Address: 1600S City: HOBBS State: NM Zip: 88240 Phone #: 505-393-2326 Fax #: 505-393-2476	
Lab I.D.: H2111111 Sample I.D.: B8 01" 11 B9 01" 12 B10 01" 13 B11 01" 14 B12 01" 15 B13 01" 16 B14 01" 17 B15 01" 18		MATRIX: <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER: PRESERV: <input type="checkbox"/> ACID/BASE: <input checked="" type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER: DATE: 8/25 1:49 TIME: 1:50	
(G)RAB OR (C)OMP. <input type="checkbox"/> # CONTAINERS: 1 SOIL: <input type="checkbox"/> OIL: <input type="checkbox"/> SLUDGE: <input type="checkbox"/> OTHER: <input type="checkbox"/>		DATE: 8/25 2:50 TIME: 2:50	
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Requisitioned By: [Signature] Date: 8/25 Time: 16:40		Received By: [Signature] Date: 8/25 Time: 2:50	
Delivered By: (Circle One) UPS Observed Temp. °C: 2.4 Corrected Temp. °C: 2.4		Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: [Signature] (Initials)	
Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		REMARKS:	



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apex Project Manager: Russ Baker		BILL TO		ANALYSIS REQUEST	
Address: _____ City: Hobbs State: NM Zip: 88240 Phone #: _____ Fax #: _____		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____			
Project #: _____ Project Owner: _____ Project Name: _____ Project Location: DERBY Satellite aka		State: _____ Phone #: _____ Fax #: _____			
Sampler Name: Don Quisenberry FOR LAB USE ONLY		MATRIX: <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER: _____ PRESERV: <input type="checkbox"/> ACID/BASE: _____ <input type="checkbox"/> ICE/COOL <input type="checkbox"/> OTHER: _____		SAMPLING: DATE TIME	
Lab I.D. _____ Sample I.D. _____		(G)RAB OR (C)OMP. # CONTAINERS		DATE TIME	
H212294 21 B16 06" 22 B17 06" 23 B18 06" 24 B19 06"		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		8/25 2:52 8/25 2:54 8/25 2:56 8/25 2:58	
RECEIVED BY: Shari Henderson Date: 8/25 Time: 16:40 Received By: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____		Turnaround Time: _____ Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C _____ Corrected Temp. °C _____	
Delivered By: (Circle One) _____ Observed Temp. °C 2.4 Corrected Temp. °C _____		CHECKED BY: _____ (Initials)		Corrected Temp. °C _____	



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

August 30, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU SATELLITE 2A

Enclosed are the results of analyses for samples received by the laboratory on 08/27/21 16:41.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/27/2021	Sampling Date:	08/27/2021
Reported:	08/30/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: B 18 @ 6" (H212334-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/28/2021	ND	1.94	97.1	2.00	9.31		
Toluene*	<0.050	0.050	08/28/2021	ND	2.10	105	2.00	9.48		
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.03	101	2.00	9.44		
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.12	102	6.00	9.22		
Total BTEX	<0.300	0.300	08/28/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2021	ND	204	102	200	7.63		
DRO >C10-C28*	<10.0	10.0	08/29/2021	ND	206	103	200	9.53		
EXT DRO >C28-C36	<10.0	10.0	08/29/2021	ND						

Surrogate: 1-Chlorooctane 66.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 62.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/27/2021	Sampling Date:	08/27/2021
Reported:	08/30/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: B 16 @ 6" (H212334-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/28/2021	ND	1.94	97.1	2.00	9.31		
Toluene*	<0.050	0.050	08/28/2021	ND	2.10	105	2.00	9.48		
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.03	101	2.00	9.44		
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.12	102	6.00	9.22		
Total BTEX	<0.300	0.300	08/28/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2021	ND	204	102	200	7.63		
DRO >C10-C28*	<10.0	10.0	08/29/2021	ND	206	103	200	9.53		
EXT DRO >C28-C36	<10.0	10.0	08/29/2021	ND						

Surrogate: 1-Chlorooctane 69.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/27/2021	Sampling Date:	08/27/2021
Reported:	08/30/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: B 14 @ 6" (H212334-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/28/2021	ND	1.94	97.1	2.00	9.31		
Toluene*	<0.050	0.050	08/28/2021	ND	2.10	105	2.00	9.48		
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.03	101	2.00	9.44		
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.12	102	6.00	9.22		
Total BTEX	<0.300	0.300	08/28/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2021	ND	204	102	200	7.63		
DRO >C10-C28*	<10.0	10.0	08/29/2021	ND	206	103	200	9.53		
EXT DRO >C28-C36	<10.0	10.0	08/29/2021	ND						

Surrogate: 1-Chlorooctane 69.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 64.9 % 38.9-142

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

Analytical Results For:

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

Received:	08/27/2021	Sampling Date:	08/27/2021
Reported:	08/30/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: W WALL (H212334-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2021	ND	1.94	97.1	2.00	9.31	
Toluene*	<0.050	0.050	08/28/2021	ND	2.10	105	2.00	9.48	
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.03	101	2.00	9.44	
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.12	102	6.00	9.22	
Total BTEX	<0.300	0.300	08/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2021	ND	204	102	200	7.63	
DRO >C10-C28*	13.5	10.0	08/29/2021	ND	206	103	200	9.53	
EXT DRO >C28-C36	<10.0	10.0	08/29/2021	ND					

Surrogate: 1-Chlorooctane 74.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.2 % 38.9-142

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Analytical Results For:

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

Received:	08/27/2021	Sampling Date:	08/27/2021
Reported:	08/30/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: B 4 @ 6" (H212334-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2021	ND	1.94	97.1	2.00	9.31	
Toluene*	<0.050	0.050	08/28/2021	ND	2.10	105	2.00	9.48	
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.03	101	2.00	9.44	
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.12	102	6.00	9.22	
Total BTEX	<0.300	0.300	08/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2021	ND	204	102	200	7.63	
DRO >C10-C28*	<10.0	10.0	08/29/2021	ND	206	103	200	9.53	
EXT DRO >C28-C36	<10.0	10.0	08/29/2021	ND					

Surrogate: 1-Chlorooctane 71.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/27/2021	Sampling Date:	08/27/2021
Reported:	08/30/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: B 5 @ 6" (H212334-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2021	ND	1.94	97.1	2.00	9.31	
Toluene*	<0.050	0.050	08/28/2021	ND	2.10	105	2.00	9.48	
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.03	101	2.00	9.44	
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.12	102	6.00	9.22	
Total BTEX	<0.300	0.300	08/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2021	ND	204	102	200	7.63	
DRO >C10-C28*	15.1	10.0	08/29/2021	ND	206	103	200	9.53	
EXT DRO >C28-C36	<10.0	10.0	08/29/2021	ND					

Surrogate: 1-Chlorooctane 69.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.0 % 38.9-142

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

Analytical Results For:

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

Received:	08/27/2021	Sampling Date:	08/27/2021
Reported:	08/30/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: B 7 @ 6" (H212334-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/28/2021	ND	1.94	97.1	2.00	9.31		
Toluene*	<0.050	0.050	08/28/2021	ND	2.10	105	2.00	9.48		
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.03	101	2.00	9.44		
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.12	102	6.00	9.22		
Total BTEX	<0.300	0.300	08/28/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2021	ND	204	102	200	7.63		
DRO >C10-C28*	<10.0	10.0	08/29/2021	ND	206	103	200	9.53		
EXT DRO >C28-C36	<10.0	10.0	08/29/2021	ND						

Surrogate: 1-Chlorooctane 63.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 60.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/27/2021	Sampling Date:	08/27/2021
Reported:	08/30/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: B 8 @ 6" (H212334-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2021	ND	1.94	97.1	2.00	9.31	
Toluene*	<0.050	0.050	08/28/2021	ND	2.10	105	2.00	9.48	
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.03	101	2.00	9.44	
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.12	102	6.00	9.22	
Total BTEX	<0.300	0.300	08/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2021	ND	204	102	200	7.63	
DRO >C10-C28*	17.7	10.0	08/29/2021	ND	206	103	200	9.53	
EXT DRO >C28-C36	<10.0	10.0	08/29/2021	ND					

Surrogate: 1-Chlorooctane 66.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 63.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/27/2021	Sampling Date:	08/27/2021
Reported:	08/30/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: B 9 @ 6" (H212334-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2021	ND	1.94	97.1	2.00	9.31	
Toluene*	<0.050	0.050	08/28/2021	ND	2.10	105	2.00	9.48	
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.03	101	2.00	9.44	
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.12	102	6.00	9.22	
Total BTEX	<0.300	0.300	08/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2021	ND	204	102	200	7.63	
DRO >C10-C28*	<10.0	10.0	08/29/2021	ND	206	103	200	9.53	
EXT DRO >C28-C36	<10.0	10.0	08/29/2021	ND					

Surrogate: 1-Chlorooctane 73.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.9 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/27/2021	Sampling Date:	08/27/2021
Reported:	08/30/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: B 10 @ 6" (H212334-10)

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	08/28/2021	ND	1.94	97.1	2.00	9.31		
Toluene*	<0.050	0.050	08/28/2021	ND	2.10	105	2.00	9.48		
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.03	101	2.00	9.44		
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.12	102	6.00	9.22		
Total BTEX	<0.300	0.300	08/28/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2021	ND	204	102	200	7.63		
DRO >C10-C28*	11.7	10.0	08/29/2021	ND	206	103	200	9.53		
EXT DRO >C28-C36	<10.0	10.0	08/29/2021	ND						

Surrogate: 1-Chlorooctane 67.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 63.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Apache
 Project Manager: Bruce Baker
 Address: _____
 City: Hobbs State: NM Zip: 88240
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: _____
 Project Location: REDU Satellite
 Sampler Name: Joe Ouseph Jr.

P.O. #: _____ Company: _____
 Attn: _____ Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<u>H212334</u>	<u>B18 old</u>	<u>C</u>	<u>1</u>								<u>8-27</u>	<u>9:42</u>	<u>Ext TPH</u>	
	<u>B16 old</u>	<u>C</u>	<u>1</u>								<u>8-27</u>	<u>9:44</u>	<u>BTEX</u>	
	<u>B14 old</u>	<u>C</u>	<u>1</u>								<u>8-27</u>	<u>10:15</u>		
	<u>4 W well</u>	<u>C</u>	<u>1</u>								<u>8-27</u>	<u>11:27</u>		
	<u>5 B4 old</u>	<u>C</u>	<u>1</u>								<u>8-27</u>	<u>12:15</u>		
	<u>6 B5 old</u>	<u>C</u>	<u>1</u>								<u>8-27</u>	<u>12:32</u>		
	<u>7 B7 old</u>	<u>C</u>	<u>1</u>								<u>8-27</u>	<u>12:48</u>		
	<u>8 B8 old</u>	<u>C</u>	<u>1</u>								<u>8-27</u>	<u>1:45</u>		
	<u>9 B9 old</u>	<u>C</u>	<u>1</u>								<u>8-27</u>	<u>2:30</u>		
	<u>10 B10 old</u>	<u>C</u>	<u>1</u>								<u>8-27</u>	<u>2:45</u>		

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Reinquisitioned By: _____ Date: 8/27
 Relinquished By: Joe Ouseph Jr. Date: 9/11
 Received By: Amara Chakraborty

Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____
 REMARKS: _____

Delivered By: (Circle One) _____ Observed Temp. °C: 5.8
 Sampler - UPS - Bus - Other: _____ Corrected Temp. °C: _____
 Sample Condition: Cool Intact
 Checked By: (Initials) TD

Turnaround Time: _____
 Thermometer ID #113 Correction Factor None
 Bacteria (only) Sample Condition: Cool Intact
 Corrected Temp. °C: _____



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

August 30, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU SATELLITE 2A

Enclosed are the results of analyses for samples received by the laboratory on 08/27/21 16:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/27/2021	Sampling Date:	08/27/2021
Reported:	08/30/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: B 11 @ 6" (H212333-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/28/2021	ND	1.94	97.1	2.00	9.31		
Toluene*	<0.050	0.050	08/28/2021	ND	2.10	105	2.00	9.48		
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.03	101	2.00	9.44		
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.12	102	6.00	9.22		
Total BTEX	<0.300	0.300	08/28/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	204	102	200	7.63		
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	206	103	200	9.53		
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND						

Surrogate: 1-Chlorooctane 59.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 56.2 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/27/2021	Sampling Date:	08/27/2021
Reported:	08/30/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: W 4 (H212333-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2021	ND	1.94	97.1	2.00	9.31	
Toluene*	<0.050	0.050	08/28/2021	ND	2.10	105	2.00	9.48	
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.03	101	2.00	9.44	
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.12	102	6.00	9.22	
Total BTEX	<0.300	0.300	08/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	204	102	200	7.63	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	206	103	200	9.53	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					

Surrogate: 1-Chlorooctane 62.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 58.9 % 38.9-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/27/2021	Sampling Date:	08/27/2021
Reported:	08/30/2021	Sampling Type:	Soil
Project Name:	NEDU SATELLITE 2A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: WALL 5 (H212333-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2021	ND	1.94	97.1	2.00	9.31	
Toluene*	<0.050	0.050	08/28/2021	ND	2.10	105	2.00	9.48	
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.03	101	2.00	9.44	
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.12	102	6.00	9.22	
Total BTEX	<0.300	0.300	08/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2021	ND	204	102	200	7.63	
DRO >C10-C28*	<10.0	10.0	08/29/2021	ND	206	103	200	9.53	
EXT DRO >C28-C36	<10.0	10.0	08/29/2021	ND					

Surrogate: 1-Chlorooctane 67.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 63.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

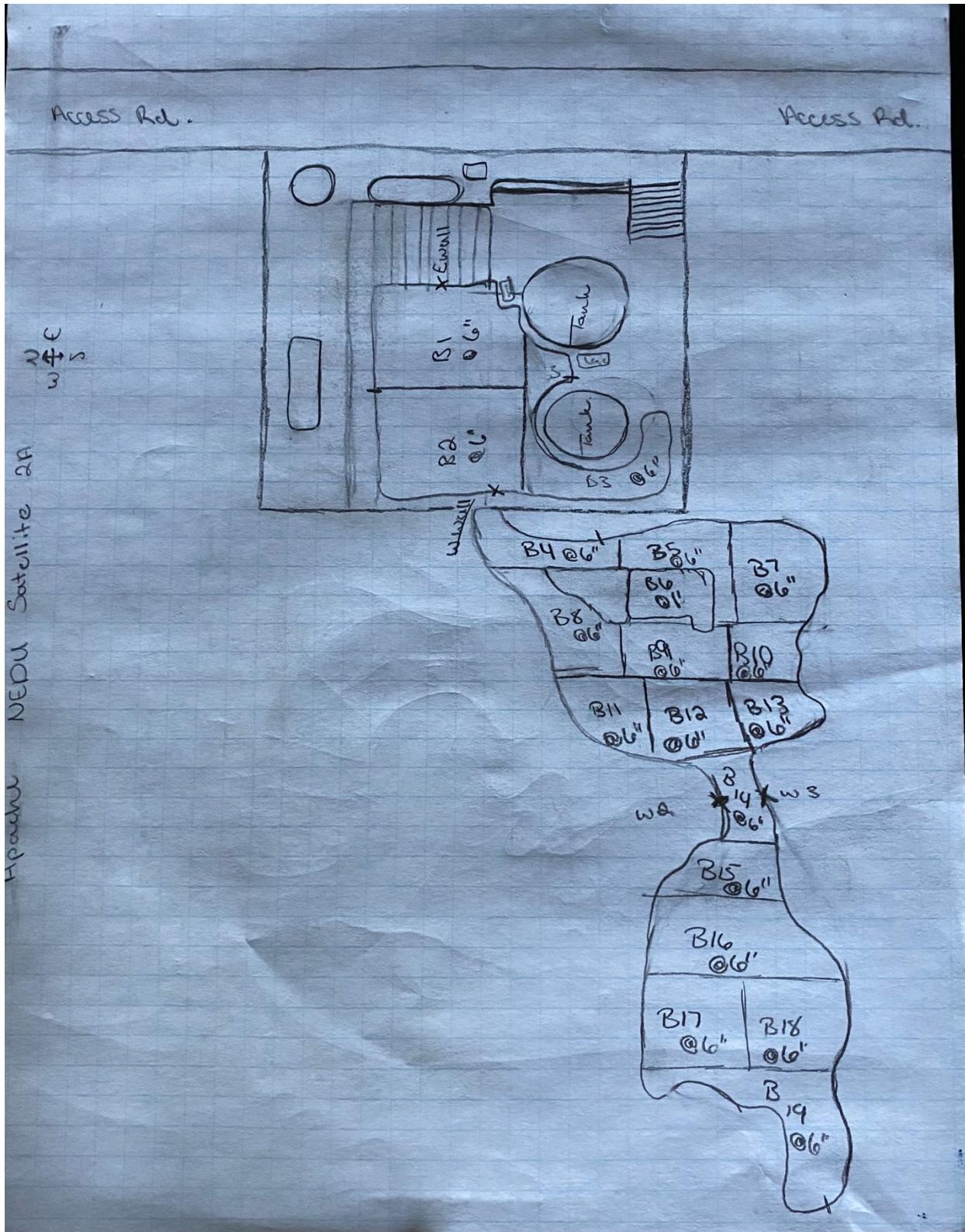
Company Name: Spencer
 Project Manager: Bruce Baker
 Address: _____
 City: Hobbs State: NM Zip: 88240
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: _____
 Project Location: Under Sattler's DAs
 Sampler Name: Donna Sattler
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	DATE	TIME	EXT PH	BTEX	CL
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						
H012333	311 etc	CI	1								8-27	3:15	X	X	X	
	2 W4	CI	1								8-27	4:12	X	X		
	3 W2a&5	CI	1								8-27	4:14	X	X	X	

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Relinquished By: Donna Sattler Date: 8-27 Received By: Shirley Sattler
 Reinstated By: _____ Date: _____
 Date: 8-27 Time: 4:40 Received By: Shirley Sattler

Delivered By: (Circle One) Observed Temp. °C 5.8 Sample Condition: Cool Intact
 Sampler - UPS - Bus - Other: Corrected Temp. °C _____
 Checked By: (Initials) DS
 Turnaround Time: _____ Standard Rush
 Thermometer ID #113 Bacteria (only) Sample Condition
 Correction Factor None Yes No Yes No No No



Apache NEDU Satellite 2-A Gps Points

Walls

E-wall	32.5144723	-103.1545397
W-wall	32.5145382	-103.1543959
w1 @ 1'	32.5143191	-103.1545441
w2 @ 6"	32.5142642	-103.1547704
w3 @ 6"	32.5141910	-103.1547667

Bottoms

b1 @ 6"	32.5145229	-103.1544231
b2 @ 6"	32.5144918	-103.1545153
b3 @ 6"	32.5144364	-103.1544898
b4 @ 6"	32.5143852	-103.1545948
b5 @ 6"	32.5143310	-103.1545122
b6 @ 1'	32.5143109	-103.1545602
b7 @ 6"	32.5142637	-103.1544857
b8 @ 6"	32.5143824	-103.1546158
b9 @ 6"	32.5143095	-103.1546276
b10 @ 6"	32.5142402	-103.1545927
b11 @ 6"	32.5143925	-103.1546919
b12 @ 6"	32.5142911	-103.1546762
b13 @ 6"	32.5142408	-103.1546474
b14 @ 6"	32.5142150	-103.1547412
b15 @ 6"	32.5141992	-103.1548053
b16 @ 6"	32.5141955	-103.1548891
b17 @ 6"	32.5141633	-103.1549692
b18 @ 6"	32.5142051	-103.1549823
b19 @ 6"	32.5141415	-103.1550165

South East Elevation

☉ 318°NW (T) ☉ 32°30'51"N, 103°9'15"W ±52ft ▲ 3479ft



North Elevation

☉ 164°S (T) ● 32°30'51"N, 103°9'16"W ±45ft ▲ 3480ft



South East Elevation

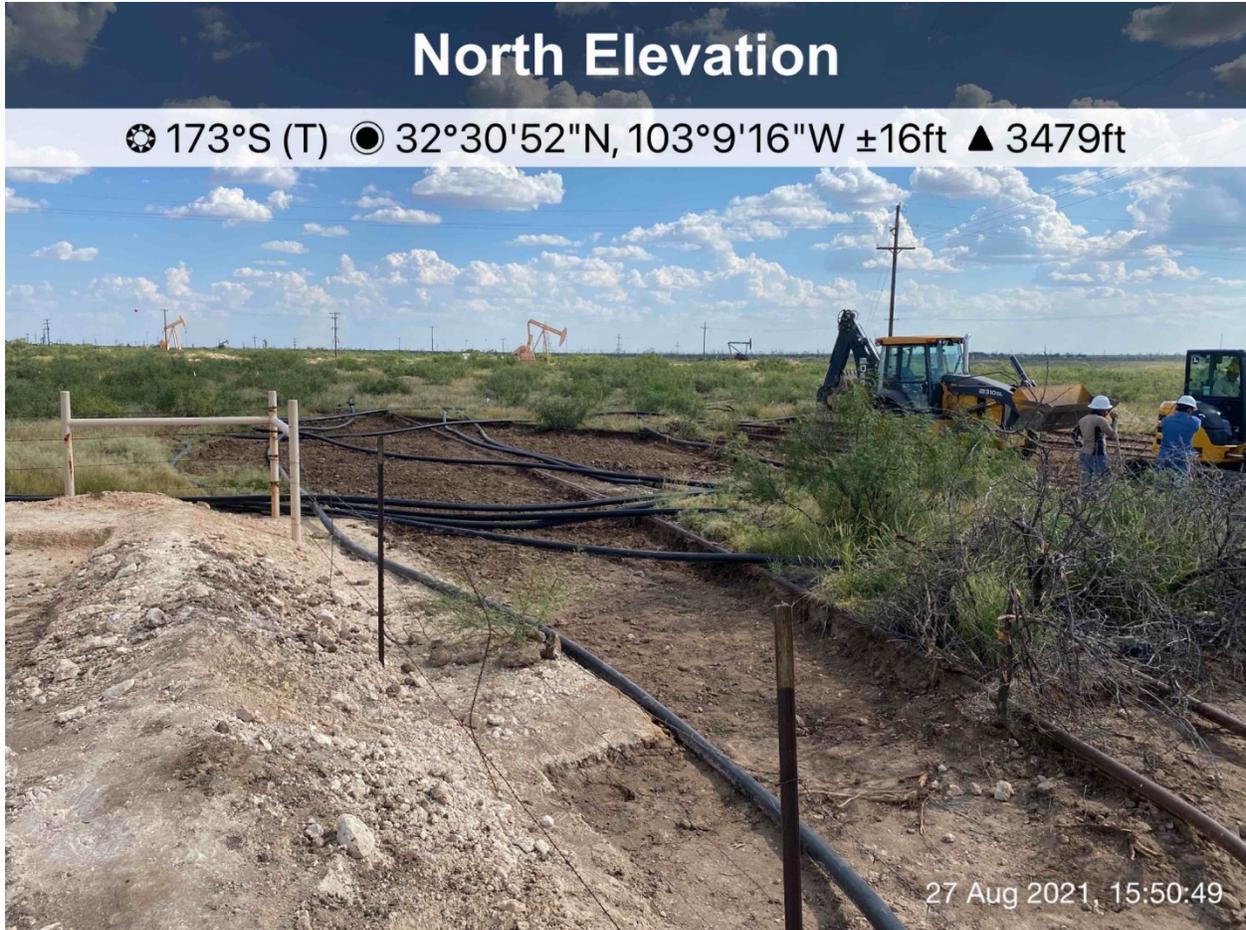
☉ 320°NW (T) ☉ 32°30'51"N, 103°9'15"W ±19ft ▲ 3479ft

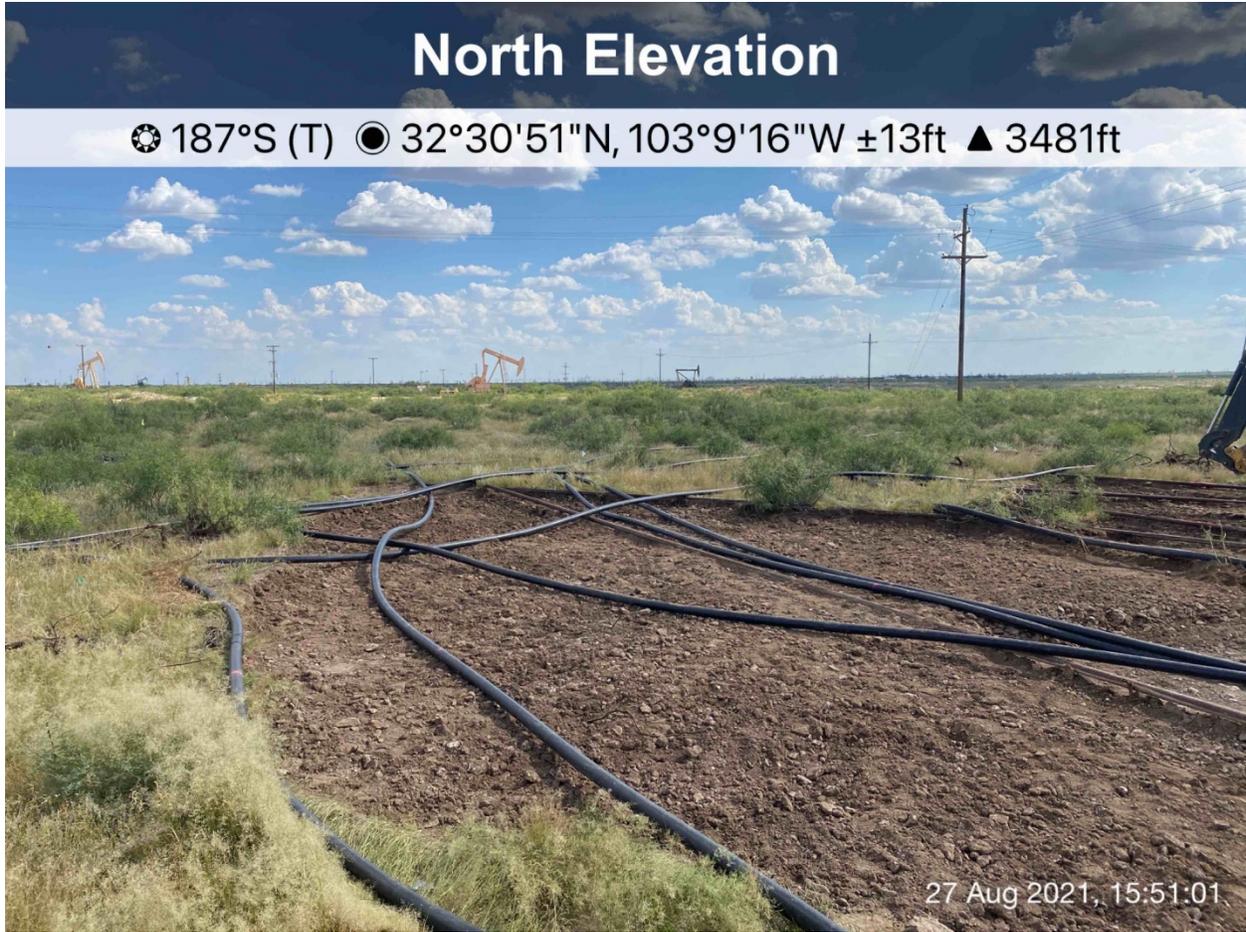


West Elevation

☀ 102°E (T) ● 32°30'51"N, 103°9'16"W ±32ft ▲ 3478ft











South West Elevation

☉ 53°NE (T) ☉ 32°30'51"N, 103°9'17"W ±13ft ▲ 3478ft



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

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

CONDITIONS

Action 122649

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 122649
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Deferral Request Approved. In addition to points B1 and B2 on pad, please add points B3, W Wall and E Wall to the deferral. Please note that the depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than 1/2 mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. The OCD will not close a release, where contaminants are left in place, due to close proximity to equipment. The incident will only be closed after all contaminated soil has been remediated to meet OCD Spill Rule Standards.	3/1/2023