



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

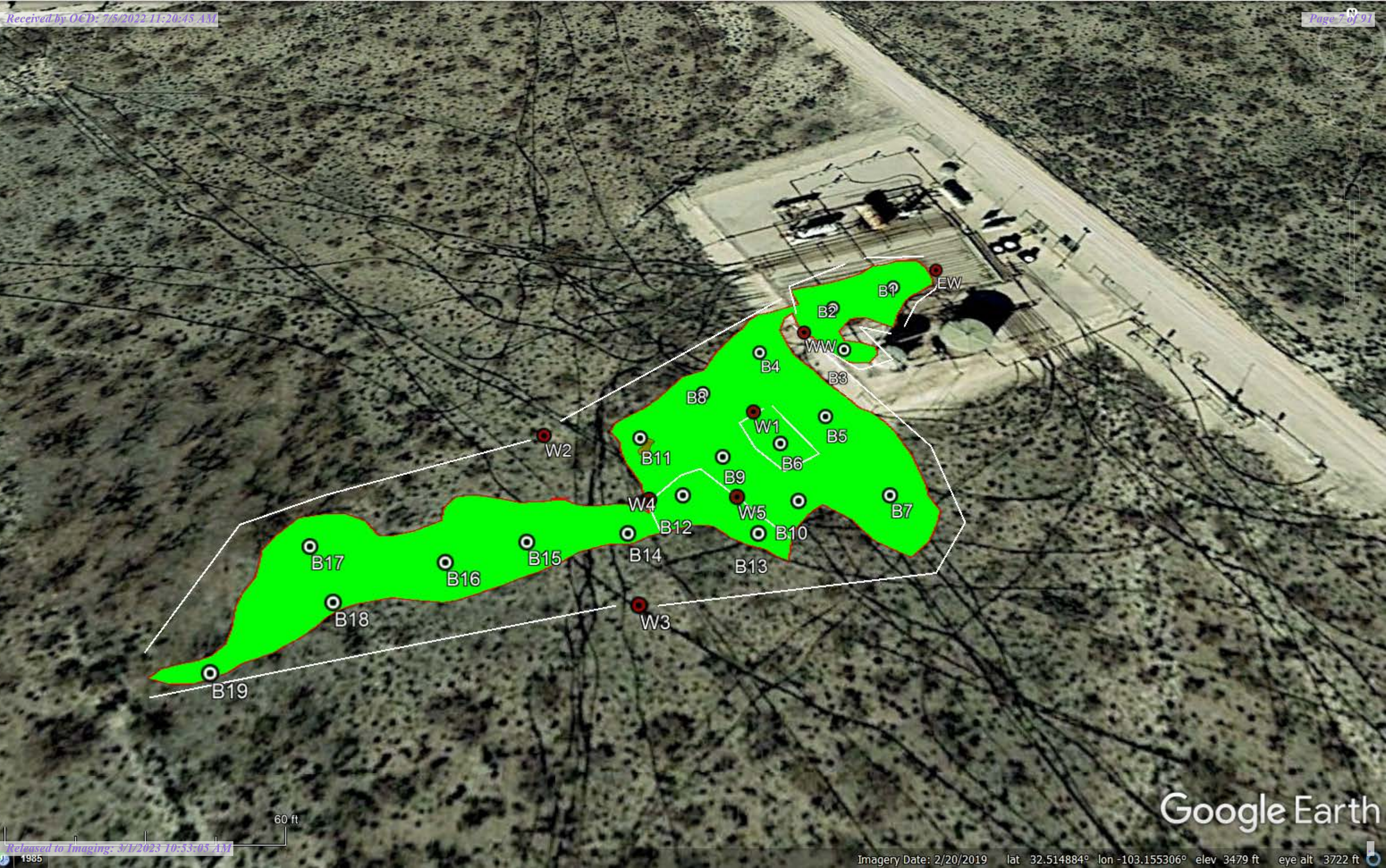
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Final Bottom Composite Samples

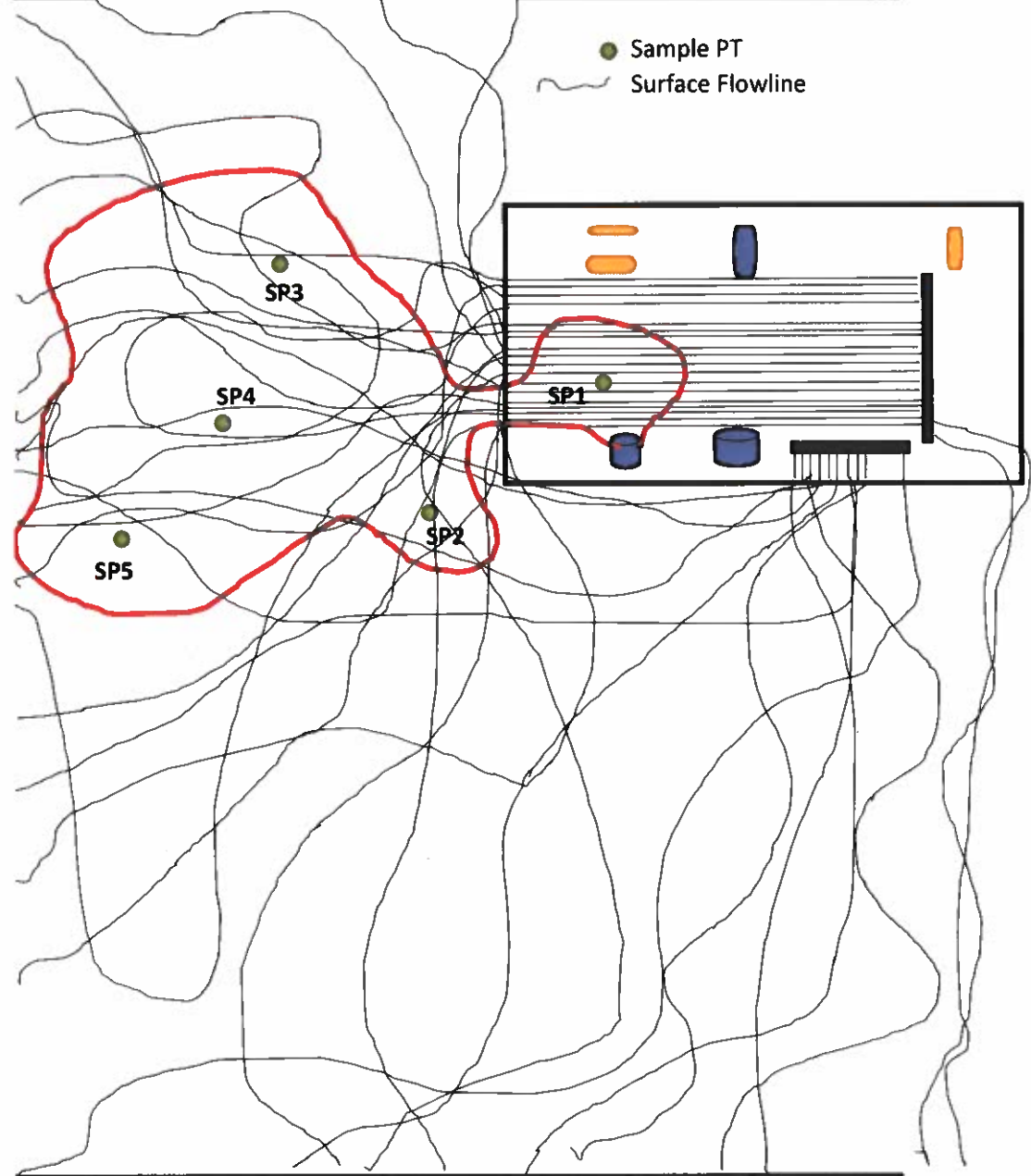
Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
8/25/2021	B1	6"	976	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1020	393
8/25/2021	B2	6"	112	<0.050	<0.050	<0.050	0.791	0.791	47.6	3760	1450
8/25/2021	B3	6"	624	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	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

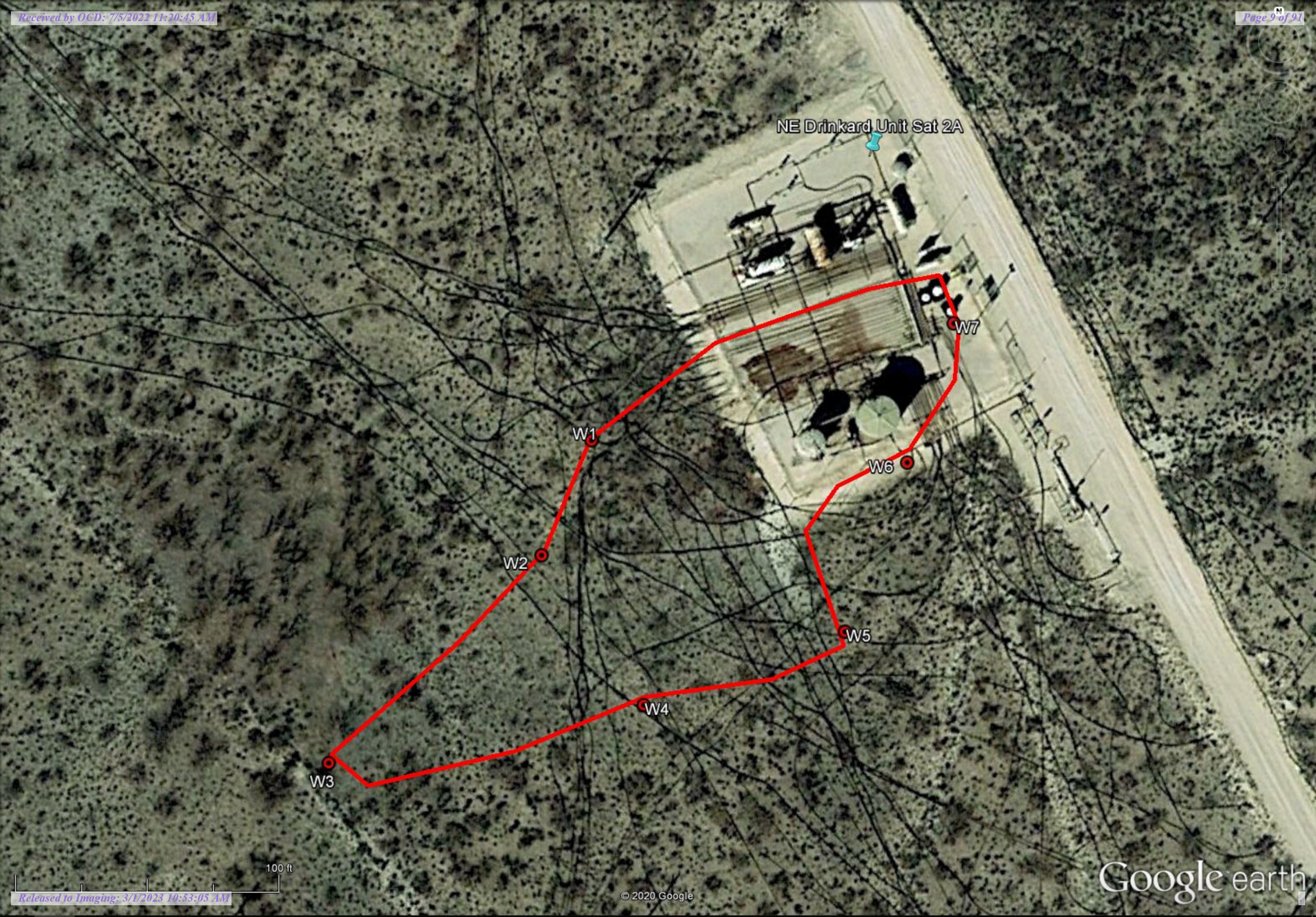
Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
8/25/2021	E Wall	0-6"	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	772	416
8/25/2021	W Wall	0-6"	2040	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1160	425
8/25/2021	W1	0-6"	224	<0.050	<0.050	<0.050	<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	RP No. 1RP-5591
Release Date: June 26, 2019	API No. 30-025-34651



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

W7

W6

W5

W4

W1

W2

W3

100 ft

Google earth

© 2020 Google

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". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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
 Reported: 10/04/2019
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 10/01/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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						
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					
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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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
 Reported: 10/04/2019
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 10/01/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 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 BTX	<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, SM4500Cl-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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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
 Reported: 10/04/2019
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 10/01/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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
 Reported: 10/04/2019
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 10/01/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 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 BTX	<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
 Reported: 10/04/2019
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 10/01/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

ANALYSIS REQUEST

Released to Imaging: 3/1/2023 10:53:05 AM



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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/26/2020
 Reported: 03/02/2020
 Project Name: NEDU 2A
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 02/25/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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
 Reported: 03/02/2020
 Project Name: NEDU 2A
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 02/25/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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, SM4500Cl-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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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
 Reported: 03/02/2020
 Project Name: NEDU 2A
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 02/25/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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, SM4500Cl-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

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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
 Reported: 03/02/2020
 Project Name: NEDU 2A
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 02/25/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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, SM4500Cl-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

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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
 Reported: 03/02/2020
 Project Name: NEDU 2A
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 02/25/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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, SM4500Cl-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

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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: 02/26/2020
 Reported: 03/02/2020
 Project Name: NEDU 2A
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 02/25/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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, SM4500Cl-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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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
 Reported: 03/02/2020
 Project Name: NEDU 2A
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 02/25/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	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

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

Celey D. Keene, Lab Director/Quality Manager

11 jo 01 ege



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Agate Cold</u>		P.O. #:		BILL TO												ANALYSIS REQUEST																					
Project Manager: <u>Bruce Baker</u>		Company:																																			
Address:		Attn:																																			
City:		Address:																																			
Phone #:		Fax #:																																			
Project #:		City:																																			
Project Name: <u>NEU 2A</u>		State:																																			
Project Location: <u>NEU 2A</u>		Zip:																																			
Sampler Name: <u>J. Brown</u>		Phone #:																																			
FOR LAB USE ONLY		Fax #:																																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		CL -		BTX		EXT. TPH			
1		H1 @ Surface																								2/25/20		1445		✓		✓		✓			
2		H2 @ Surface																										1447		✓		✓		✓			
3		H3 @ Surface																										1445		✓		✓		✓			
4		H4 @ Surface																										1451		✓		✓		✓			
5		H5 @ Surface																										2/25/20		1453		✓		✓		✓	

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Relinquished By: <u>Jeff Brown</u>		Date: <u>2/26/20</u>		Received By: <u>Jeff Brown</u>		Date: <u>2/26/20</u>		Time: <u>1453</u>		Time: <u>1453</u>		Time: <u>1453</u>		Time: <u>1453</u>		Time: <u>1453</u>		Time: <u>1453</u>		Time: <u>1453</u>		Time: <u>1453</u>		Time: <u>1453</u>		Time: <u>1453</u>		Time: <u>1453</u>		Time: <u>1453</u>		Time: <u>1453</u>		Time: <u>1453</u>	
Relinquished By:		Date:		Received By:		Date:		Time:		Time:		Time:		Time:		Time:		Time:		Time:		Time:		Time:		Time:		Time:		Time:		Time:		Time:	
Delivered By: (Circle One)		Observed Temp. °C		Corrected Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:		Standard		Bacteria (only)		Sample Condition		Observed Temp. °C		Corrected Temp. °C		Observed Temp. °C		Corrected Temp. °C		Observed Temp. °C		Corrected Temp. °C		Observed Temp. °C		Corrected Temp. °C		Observed Temp. °C	
Sampler - UPS - Bus - Other:		5.4		5.4		Cool Intact		Y		Standard		Rush		Cool Intact		Observed Temp. °C		Corrected Temp. °C		Observed Temp. °C		Corrected Temp. °C		Observed Temp. °C		Corrected Temp. °C		Observed Temp. °C		Corrected Temp. °C		Observed Temp. °C			

† 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

[illegible]



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". 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:	08/25/2021	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)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: E WALL (H212294-04)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W WALL (H212294-05)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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, SM4500CI-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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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, 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	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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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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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, SM4500Cl-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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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, 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	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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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, 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	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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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, 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*	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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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, 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*	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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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: 08/25/2021
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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, SM4500Cl-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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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	<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

Cardinal Laboratories

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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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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
 Reported: 08/26/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/25/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache		P.O. #:		BILL TO										ANALYSIS REQUEST									
Project Manager: Bruce Baker		Company:																					
Address:		Attn:																					
City: Hobbs		Address:																					
State: NM		City:																					
Zip: 88240		State:																					
Phone #:		Phone #:																					
Fax #:		Fax #:																					
Project #:		Project Owner:																					
Project Name:		Project Location:																					
Sample Name:		Sample Location:																					
FOR LAB USE ONLY		FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.																					
H212294		H212294																					
1		1																					
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

BILL TO

ANALYSIS REQUEST

Company Name: Apache		P.O. #:		
Project Manager: Barbara Baker		Company:		
Address:		Attn:		
City: Hobbs	State: NM Zip: 88240	Address:		
Phone #:	Fax #:	City:		
Project #:	Project Owner:	State:	Zip:	
Project Location: DEEP Satellite 2A		Phone #:		
Sampler Name: Joe Chesebrough		Fax #:		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME					
H212244																			
21	816 06"	C	1			1							8/25	0:52	X	X	X		
22	817 06"	C	1			1							8/25	0:54	X	X	X		
23	818 06"	C	1			1							8/25	0:56	X	X	X		
24	819 06"	C	1			1							8/25	0:58	X	X	X		
															</				

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Relinquished By: [Signature]	Date: 8/25	Received By: [Signature]	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Retrieved By: [Signature]	Date: 8/25	Received By: [Signature]	All Results are emailed. Please provide Email address:	
REMARKS:				

Delivered By: (Circle One)	Observed Temp. °C	Corrected Temp. °C	Sample Condition	CHECKED BY: [Signature]	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	2.4		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>			<input checked="" type="checkbox"/> Rush	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	Observed Temp. °C
			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Yes <input type="checkbox"/> No <input type="checkbox"/>	Corrected Temp. °C

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



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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/27/2021
 Reported: 08/30/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

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
 Reported: 08/30/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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
 Reported: 08/30/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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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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
 Reported: 08/30/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W WALL (H212334-04)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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
 Reported: 08/30/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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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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
 Reported: 08/30/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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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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: 08/27/2021
 Reported: 08/30/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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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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
 Reported: 08/30/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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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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
 Reported: 08/30/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

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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
 Reported: 08/30/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u>		P.O. #:		BILL TO											
Project Manager: <u>Bruce Baker</u>		Company:		ANALYSIS REQUEST											
Address:		Attn:													
City: <u>Hobbs</u>		Address:													
State: <u>NM</u> Zip: <u>88240</u>		City:													
Phone #:		State:													
Fax #:		Zip:													
Project #:		Project Owner:													
Project Name:		Project Location: <u>REDU Satellite</u>													
Sampler Name: <u>Joe Ouseph Jr.</u>		Phone #:													
FOR LAB USE ONLY		Fax #:													
Lab I.D. <u>HA12334</u>		Sample I.D.													
		(G)RAB OR (C)OMP.													
		# CONTAINERS													
		GROUNDWATER													
		WASTEWATER													
		SOIL													
		OIL													
		SLUDGE													
		OTHER :													
		ACID/BASE:													
		ICE / COOL													
		OTHER :													
		DATE													
		TIME													
		EXT TPH													
		BTEX													

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

Relinquished By: Joe Ouseph Jr. Date: 8/27 Time: 9:44 Received By: Samuel Rush Date: 8/27 Time: 1:45

Delivered By: (Circle One) Observed Temp. °C 5.8 Sample Condition Cool Intact CHECKED BY: (Initials) T.D.

Sampler - UPS - Bus - Other: Corrected Temp. °C 5.8 ☒ Yes ☐ No ☐ No ☐ No

Turnaround Time: 24 hours Bacteria (only) ☒ Sample Condition Cool Intact Observed Temp. °C 5.8

Thermometer ID #113 Correction Factor None ☐ Yes ☐ No ☐ No

REMARKS:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:



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". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/27/2021
 Reported: 08/30/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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
 Reported: 08/30/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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
 Reported: 08/30/2021
 Project Name: NEDU SATELLITE 2A
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WALL 5 (H212333-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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

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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

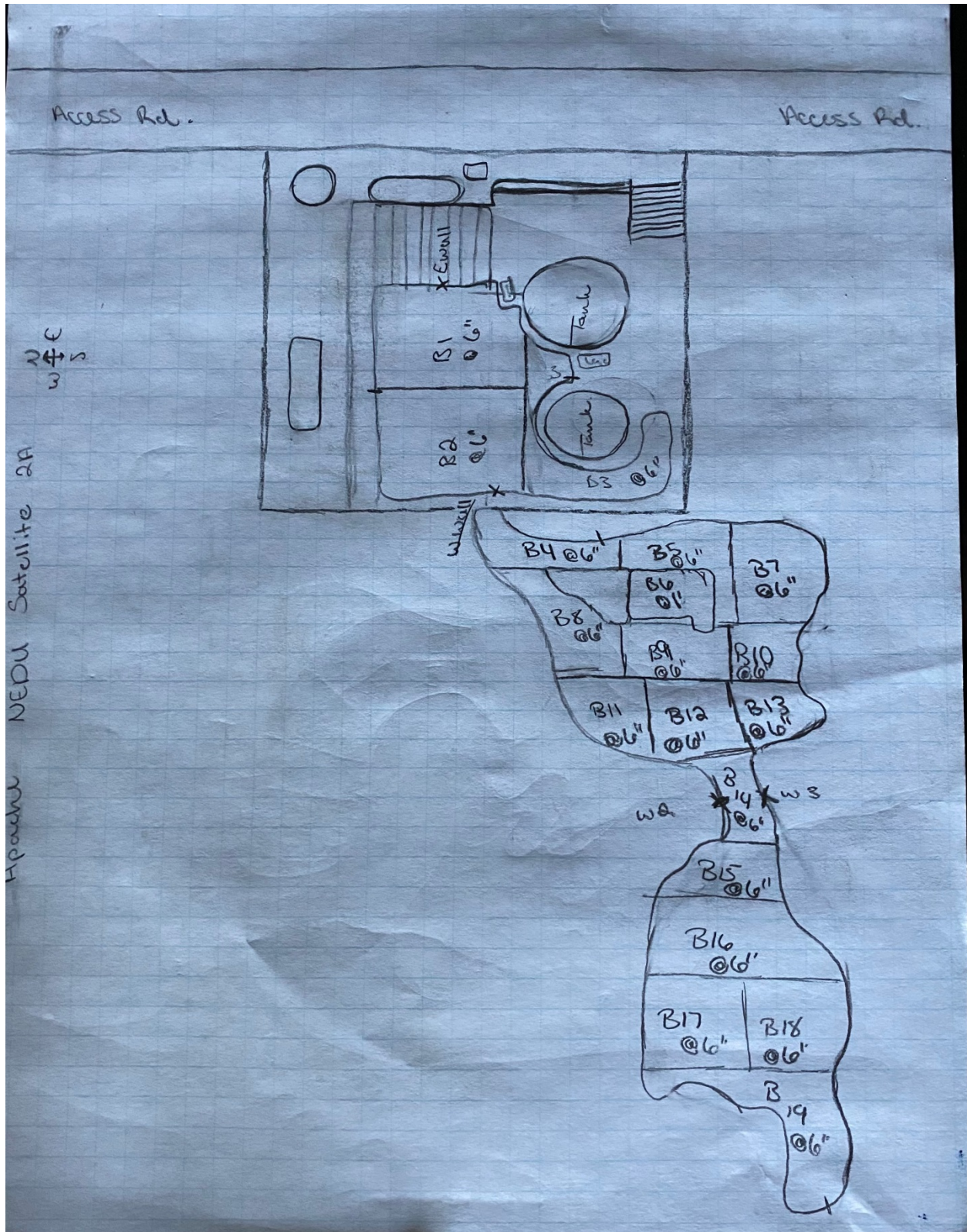
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Positive</u>		P.O. #:		BILL TO												ANALYSIS REQUEST											
Project Manager: <u>Bruce Baker</u>		Company:																									
Address:		Attn:																									
City: <u>Hobbs</u>		Address:																									
Phone #: <u>575 393-2326</u>		City:																									
Fax #: <u>575 393-2476</u>		State:																									
Project #: <u>214</u>		Zip:																									
Project Location: <u>Under Sattling</u>		Phone #:																									
Sample Name: <u>due to under of</u>		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D. <u>HA12333</u>		(G)RAB OR (C)OMP.																									
Sample I.D. <u>311 etc</u>		# CONTAINERS																									
<u>2 311 etc</u>		GROUNDWATER																									
<u>3 10225</u>		WASTEWATER																									
		SOIL																									
		OIL																									
		SLUDGE																									
		OTHER:																									
		ACID/BASE:																									
		ICE/COOL																									
		OTHER:																									
		DATE																									
		TIME																									
		EXT PH																									
		BTEX																									
		CL																									

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Relinquished By: <u>Don Lundberg</u>	Date: <u>8-27</u>	Received By: <u>Shirley Baker</u>	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>Don Lundberg</u>	Date: <u>8-27</u>	Received By: <u>Shirley Baker</u>	All Results are emailed. Please provide Email address:	
Delivered By: (Circle One)	Observed Temp. °C <u>5.8</u>	Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	CHECKED BY: (Initials) <u>AB</u>	Turnaround Time: <u>Standard</u>
Sampler - UPS - Bus - Other:	Corrected Temp. °C	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Thermometer ID #113 <u>Rush</u>
FORM 0008 R-3-1-06/04/20				Bacteria (only) <input checked="" type="checkbox"/> Sample Condition <input type="checkbox"/>
				Cool Intact <input type="checkbox"/>
				Observed Temp. °C <input type="checkbox"/>
				Corrected Temp. °C <input type="checkbox"/>

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



Apache NEDu Satellite 2-A Gps Points

Walls

EWall	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

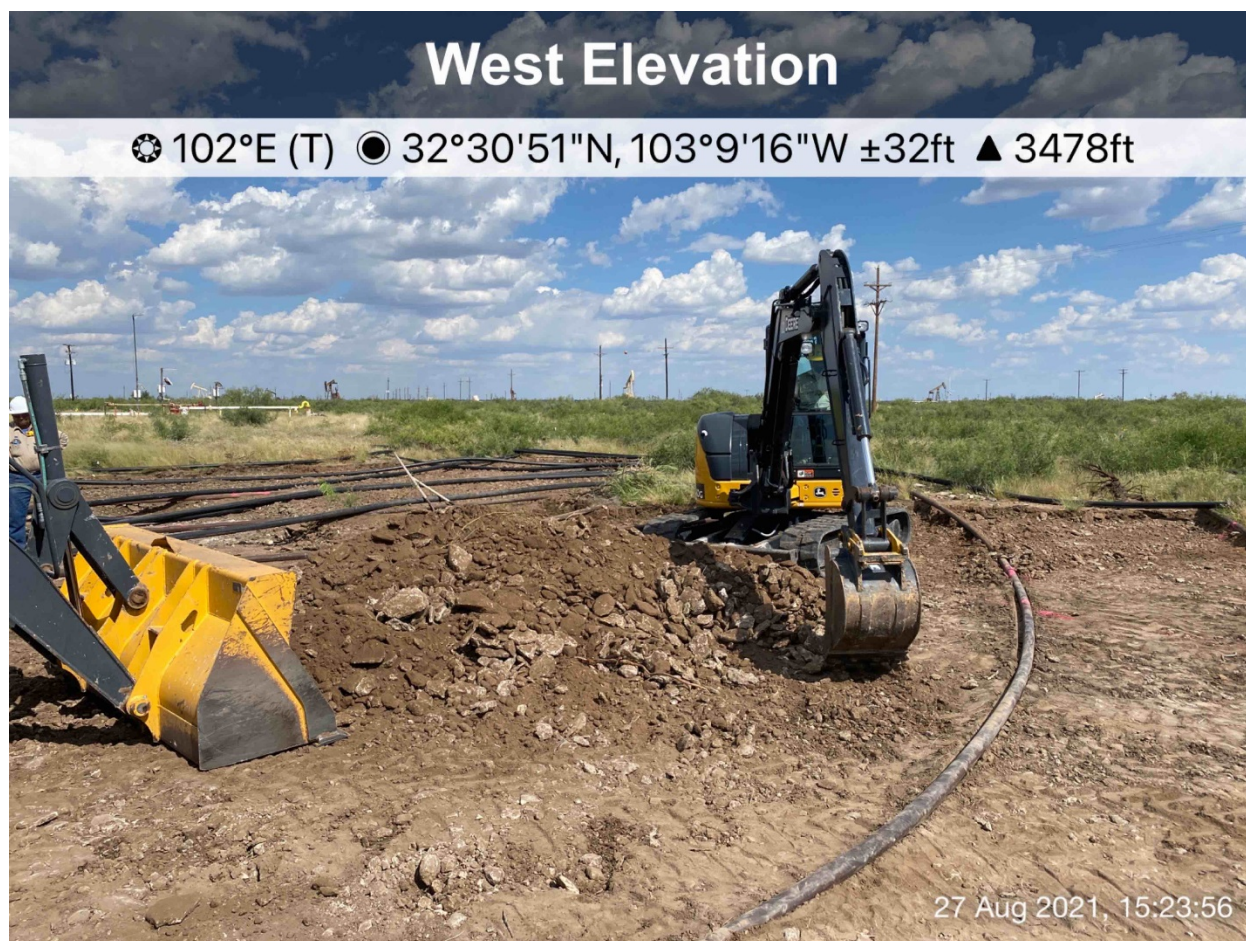
☀ 164°S (T) ● 32°30'51"N, 103°9'16"W ±45ft ▲ 3480ft



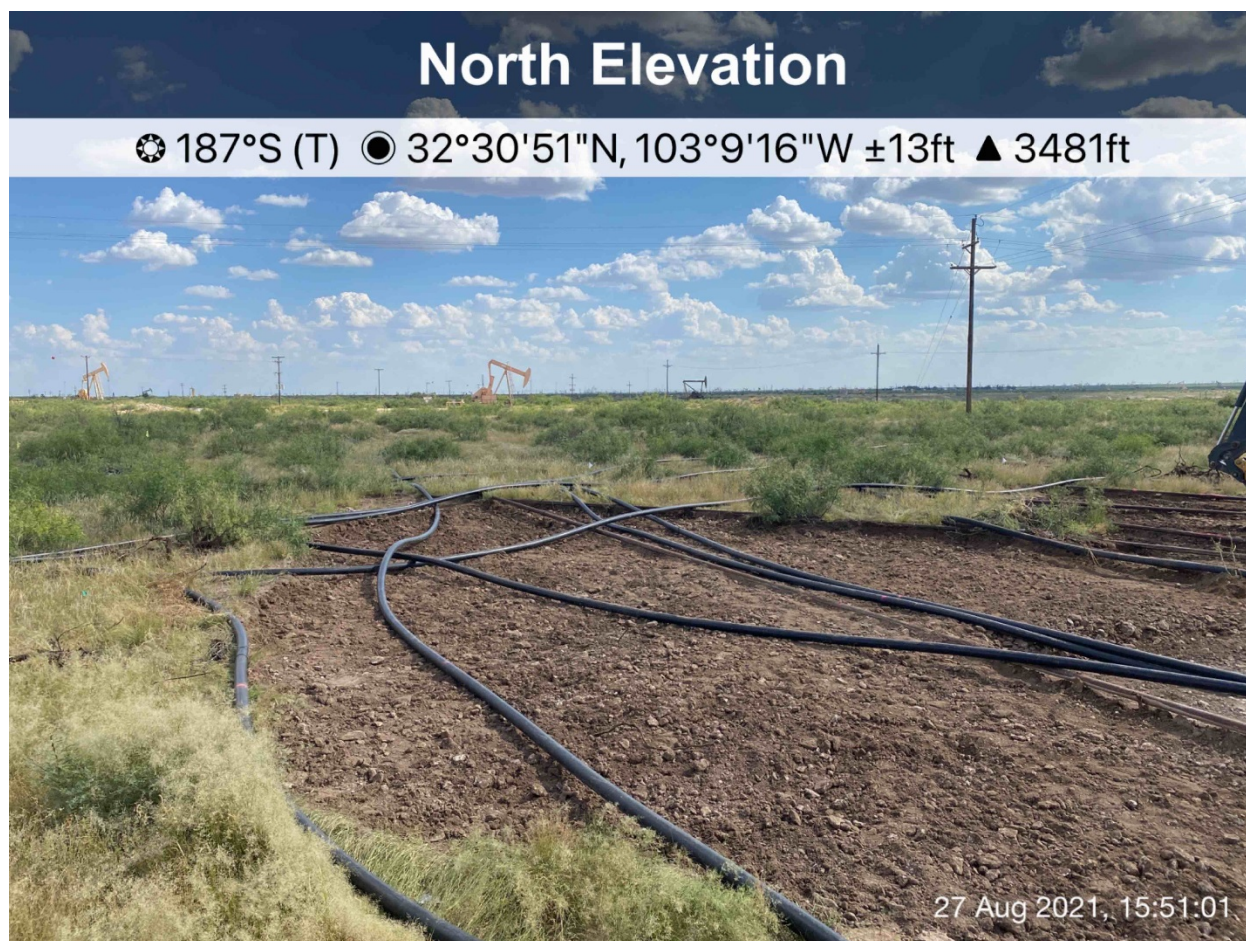
South East Elevation

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













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 ½ 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