



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

November 9, 2022

Re: NEDU High Pressure Injection Line
Case # NRM2026942891

On 9/17/2020 a release was discovered due to a 2-inch steel transition corroded resulting in the loss of produced water. The release (GPS: 32.498780, -103.152781) is located north of Eunice, New Mexico in unit letter C section 10 township 21S range 37E. The release area is in an area with the potential of a raised aquifer. On 8/18/2020 a soil bore was conducted up gradient of the release to determine the depth of ground water below the release. The bore hole was advanced to a depth of 70 feet and the bore hole was left open for 72 hours and water was gauged at a depth of 60.1 feet. A deferment request was submitted and denied by OCD.

The release area was excavated to depths of 3.5 to 4 feet. All excavated material was hauled to an OCD approved disposal facility. 5 -point bottom and side wall composite samples were collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Once laboratory analysis was below table one standards for release 51-100 feet to groundwater and reclamation standards. The excavation was backfilled with clean imported topsoil to ground surface and contoured to the surrounding area. The disturbed area was reseeded in accordance with the private surface owner guidelines.

Apache Corporation has completed the remediation to below table one standards and reclamation standards and respectfully request closure of event NRM2026942891.

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

Submitted by.

Larry Baker

Environmental Technician

larry.baker@apachecorp.com

Cell# 432-215-2284

Off# 432-818-1654

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Larry Baker Title: Environmental Tech Sr. Staff
Signature: Larry Baker Date: 11/9/2022
email: larry.baker@apachecorp.com Telephone: 432-215-2284

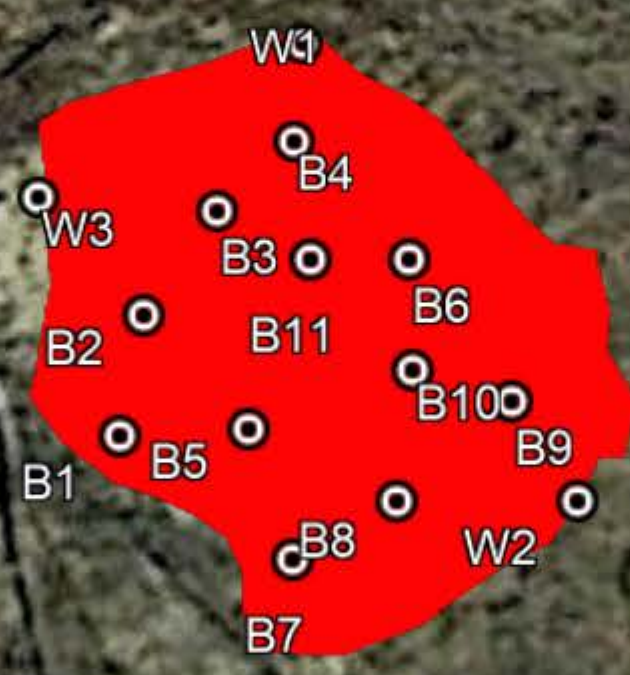
OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Jennifer Nobui Date: 12/08/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A

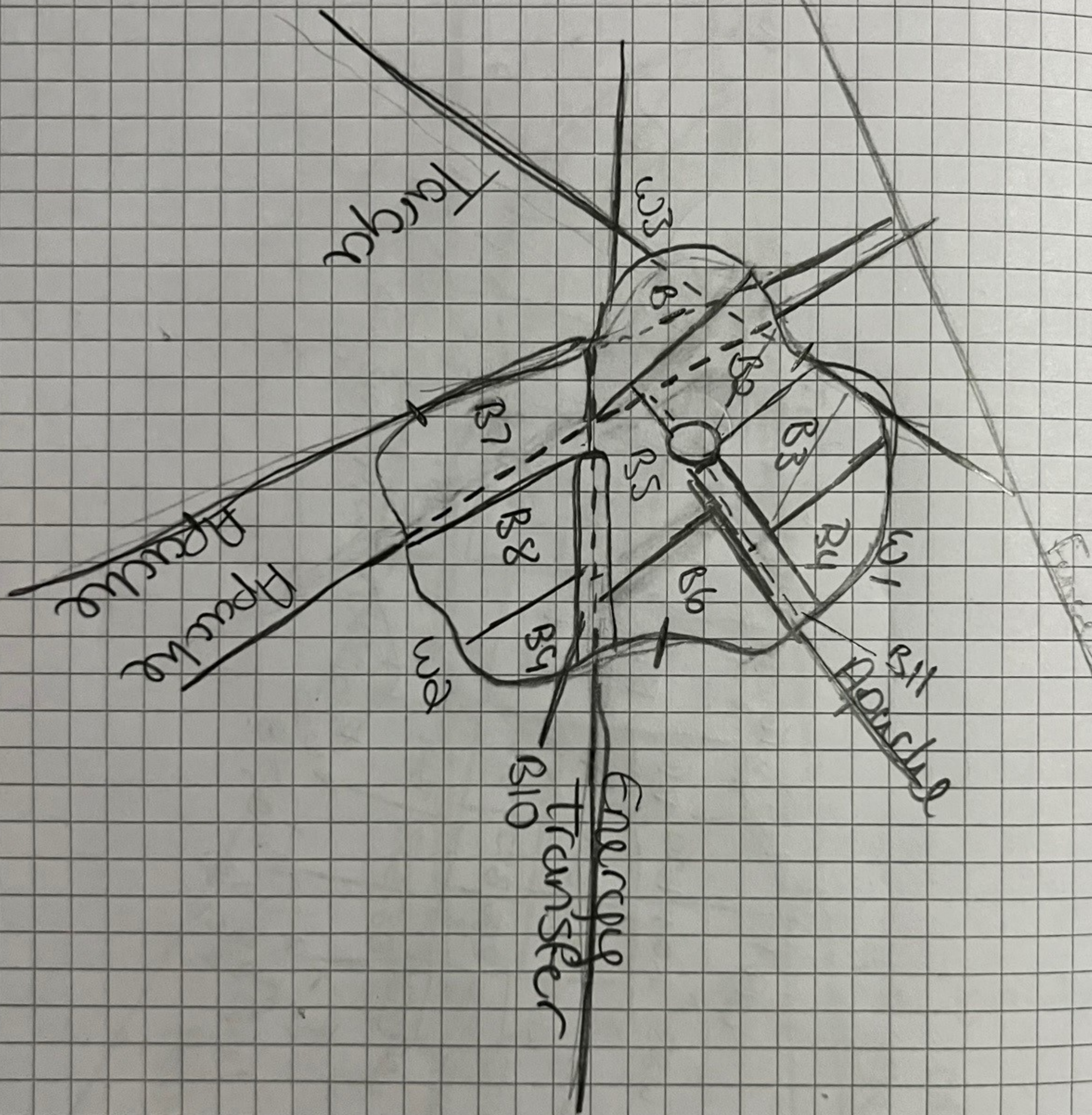
Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
5/26/2022	B1	4'	2440	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4987795, -103.1527681
5/26/2022	B2	4'	2440	<0.050	0.088	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4987614, -103.1527631
5/26/2022	B3	4'	1040	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4987419, -103.1527336
5/26/2022	B4	4'	912	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4988064, -103.1527111
5/27/2022	B5	4'	1250	<0.050	0.099	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4987967, -103.1527091
5/27/2022	B6	4'	1460	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4987541, -103.1526773
5/27/2022	B7	4'	1980	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4987232, -103.1526773
5/27/2022	B8	4'	1010	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4987402, -103.1527125
5/27/2022	B9	4'	1180	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4987911, -103.1526746
5/31/2022	B10	3.5	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4987303, -103.1525717
6/22/2022	B11	4'	1280	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4987798, -103.1526981
5/26/2022	W1	0-4'	288	<0.050	0.070	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4987198, -103.1527279
5/27/2022	W2	0-4'	320	<0.050	0.090	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4987198, -103.1527279
5/27/2022	W3	0-4'	128	<0.050	0.058	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4987368, -103.1526669



50 ft

Bedu Injection um #2

2E
3S





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

June 03, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU INJECTION LINE S #2

Enclosed are the results of analyses for samples received by the laboratory on 05/26/22 16:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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:	05/26/2022	Sampling Date:	05/26/2022
Reported:	06/03/2022	Sampling Type:	Soil
Project Name:	NEDU INJECTION LINE S #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	EUNICE NM		

Sample ID: B 1 @ 4' (H222264-01)

BTX 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	06/01/2022	ND	1.96	98.2	2.00	1.68	
Toluene*	<0.050	0.050	06/01/2022	ND	1.98	99.2	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.93	96.6	2.00	2.01	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.76	96.1	6.00	2.79	
Total BTX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	05/31/2022	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	05/28/2022	ND	190	94.9	200	0.799	
DRO >C10-C28*	<10.0	10.0	05/28/2022	ND	193	96.5	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	05/28/2022	ND					

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 138 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/26/2022	Sampling Date:	05/26/2022
Reported:	06/03/2022	Sampling Type:	Soil
Project Name:	NEDU INJECTION LINE S #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	EUNICE NM		

Sample ID: B 2 @ 4' (H222264-02)

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	06/01/2022	ND	1.96	98.2	2.00	1.68	
Toluene*	0.088	0.050	06/01/2022	ND	1.98	99.2	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.93	96.6	2.00	2.01	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.76	96.1	6.00	2.79	
Total BTEx	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	05/31/2022	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	05/28/2022	ND	199	99.7	200	0.268	
DRO >C10-C28*	<10.0	10.0	05/28/2022	ND	183	91.6	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	05/28/2022	ND					

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/26/2022	Sampling Date:	05/26/2022
Reported:	06/03/2022	Sampling Type:	Soil
Project Name:	NEDU INJECTION LINE S #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	EUNICE NM		

Sample ID: B 3 @ 4' (H222264-03)

BTX 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	06/01/2022	ND	1.96	98.2	2.00	1.68		
Toluene*	<0.050	0.050	06/01/2022	ND	1.98	99.2	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.93	96.6	2.00	2.01		
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.76	96.1	6.00	2.79		
Total BTX	<0.300	0.300	06/01/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	05/31/2022	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	05/28/2022	ND	199	99.7	200	0.268	
DRO >C10-C28*	<10.0	10.0	05/28/2022	ND	183	91.6	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	05/28/2022	ND					

Surrogate: 1-Chlorooctane 132 % 66.9-136

Surrogate: 1-Chlorooctadecane 135 % 59.5-142

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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:	05/26/2022	Sampling Date:	05/26/2022
Reported:	06/03/2022	Sampling Type:	Soil
Project Name:	NEDU INJECTION LINE S #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	EUNICE NM		

Sample ID: W 1 BGS 0-4' (H222264-04)

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	06/01/2022	ND	1.96	98.2	2.00	1.68	
Toluene*	0.070	0.050	06/01/2022	ND	1.98	99.2	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.93	96.6	2.00	2.01	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.76	96.1	6.00	2.79	
Total BTEX	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	05/31/2022	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	05/28/2022	ND	199	99.7	200	0.268	
DRO >C10-C28*	<10.0	10.0	05/28/2022	ND	183	91.6	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	05/28/2022	ND					

Surrogate: 1-Chlorooctane 169 % 66.9-136

Surrogate: 1-Chlorooctadecane 177 % 59.5-142

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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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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 "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: Apache Project Manager: Bruce R. Address: City: Hobbs State: NM Zip: 88240 Phone #: Fax #: Project #: Project Owner: Project Name: Project Location: Reddy Injection Line S#2 Sampler Name: Joe C. Cusack, Jr. FOR LAB USE ONLY		BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST	
Lab I.D. H02224 Sample I.D. B1 @ 4' B2 @ 4' B3 @ 4' W1 BGS 0-4'		MATRIX (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		PRESERV SAMPLING DATE TIME	
1 3 4		C C C C		1 1 1 1	
5/26 11:40 5/26 11:42 5/26 11:44 5/26 11:46		CL Ext TPH BTEX			
Relinquished By: [Signature] Date: 5/26/20 Received By: [Signature] Date: 5/26/20		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: Remarks: All Results are emailed. Please provide Email address: Bruce / du			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 27.0 Corrected Temp. °C: 28.22 Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: [Signature] (Initials)		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C	



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

June 03, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU INJECTION LINE S #2

Enclosed are the results of analyses for samples received by the laboratory on 05/27/22 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/03/2022	Sampling Type:	Soil
Project Name:	NEDU INJECTION LINE S #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE NM		

Sample ID: B 4 @ 4' (H222274-01)

BTX 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	06/01/2022	ND	1.96	98.2	2.00	1.68	
Toluene*	<0.050	0.050	06/01/2022	ND	1.98	99.2	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.93	96.6	2.00	2.01	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.76	96.1	6.00	2.79	
Total BTX	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	05/31/2022	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	181	90.6	200	6.72	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	187	93.7	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 68.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 68.9 % 59.5-142

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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:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/03/2022	Sampling Type:	Soil
Project Name:	NEDU INJECTION LINE S #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE NM		

Sample ID: B 5 @ 4' (H222274-02)

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	06/01/2022	ND	1.96	98.2	2.00	1.68	
Toluene*	0.099	0.050	06/01/2022	ND	1.98	99.2	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.93	96.6	2.00	2.01	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.76	96.1	6.00	2.79	
Total BTEx	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	05/31/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	181	90.6	200	6.72	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	187	93.7	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 74.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.8 % 59.5-142

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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:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/03/2022	Sampling Type:	Soil
Project Name:	NEDU INJECTION LINE S #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE NM		

Sample ID: B 6 @ 4' (H222274-03)

BTX 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	06/01/2022	ND	1.96	98.2	2.00	1.68	
Toluene*	<0.050	0.050	06/01/2022	ND	1.98	99.2	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.93	96.6	2.00	2.01	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.76	96.1	6.00	2.79	
Total BTX	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	05/31/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	181	90.6	200	6.72	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	187	93.7	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 76.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.4 % 59.5-142

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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:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/03/2022	Sampling Type:	Soil
Project Name:	NEDU INJECTION LINE S #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE NM		

Sample ID: B 7 @ 4' (H222274-04)

BTX 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	06/01/2022	ND	1.96	98.2	2.00	1.68	
Toluene*	<0.050	0.050	06/01/2022	ND	1.98	99.2	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.93	96.6	2.00	2.01	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.76	96.1	6.00	2.79	
Total BTX	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1980	16.0	05/31/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	181	90.6	200	6.72	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	187	93.7	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 76.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.8 % 59.5-142

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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:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/03/2022	Sampling Type:	Soil
Project Name:	NEDU INJECTION LINE S #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE NM		

Sample ID: B 8 @ 4' (H222274-05)

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	06/01/2022	ND	2.02	101	2.00	4.72		
Toluene*	<0.050	0.050	06/01/2022	ND	2.04	102	2.00	3.87		
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.99	99.4	2.00	4.64		
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.14	102	6.00	4.31		
Total BTEX	<0.300	0.300	06/01/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	05/31/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	181	90.6	200	6.72	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	187	93.7	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 69.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 69.0 % 59.5-142

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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:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/03/2022	Sampling Type:	Soil
Project Name:	NEDU INJECTION LINE S #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE NM		

Sample ID: B 9 @ 4' (H222274-06)

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	06/01/2022	ND	2.02	101	2.00	4.72		
Toluene*	<0.050	0.050	06/01/2022	ND	2.04	102	2.00	3.87		
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.99	99.4	2.00	4.64		
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.14	102	6.00	4.31		
Total BTEx	<0.300	0.300	06/01/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1180	16.0	05/31/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	181	90.6	200	6.72	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	187	93.7	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.8 % 59.5-142

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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:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/03/2022	Sampling Type:	Soil
Project Name:	NEDU INJECTION LINE S #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE NM		

Sample ID: W 2 BGS 0-4' (H222274-07)

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	06/01/2022	ND	2.02	101	2.00	4.72		
Toluene*	0.090	0.050	06/01/2022	ND	2.04	102	2.00	3.87		
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.99	99.4	2.00	4.64		
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.14	102	6.00	4.31		
Total BTEx	<0.300	0.300	06/01/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	05/31/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	205	103	200	7.63	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 95.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.9 % 59.5-142

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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:	05/27/2022	Sampling Date:	05/27/2022
Reported:	06/03/2022	Sampling Type:	Soil
Project Name:	NEDU INJECTION LINE S #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE NM		

Sample ID: W 3 BGS 0-4' (H222274-08)

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	06/01/2022	ND	2.02	101	2.00	4.72	
Toluene*	0.058	0.050	06/01/2022	ND	2.04	102	2.00	3.87	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.99	99.4	2.00	4.64	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.14	102	6.00	4.31	
Total BTEx	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/31/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	205	103	200	7.63	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	204	102	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					

Surrogate: 1-Chlorooctane 96.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Bruce R.</u>		Company:					
Address:		Attn:					
City: <u>Hobbs</u>		Address:					
State: <u>NM</u> Zip: <u>88240</u>		City:					
Phone #:		State:					
Fax #:		Zip:					
Project #:		Phone #:					
Project Owner:		Fax #:					
Project Location: <u>Nadu Injection line #2</u>							
Sampler Name: <u>Joe Quisada</u>							
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	
<u>H222074</u>							
1	B4 04'						
2	B5 04'						
3	B6 04'						
4	B7 04'						
5	B8 04'						
6	B9 04'						
7	W2 B50-4'						
8	B3 B50-4'						
DATE		TIME					
<u>5/27</u>		<u>10:34</u>					
		<u>10:36</u>					
		<u>10:38</u>					
		<u>10:40</u>					
		<u>10:42</u>					
		<u>10:44</u>					
		<u>10:46</u>					
		<u>10:48</u>					
REMARKS:							
Relinquished By: <u>Joe Quisada</u>		Received By: <u>Bruce R.</u>					
Date: <u>5/27</u>		Time: <u>1:30</u>					
Relinquished By: <u>Joe Quisada</u>		Received By: <u>Bruce R.</u>					
Date: <u>5/27</u>		Time: <u>1:30</u>					
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		<u>1.3</u>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		<u>Joe</u>	
		<u>0.8</u>		Cool <input type="checkbox"/> Intact <input type="checkbox"/>			
				No <input type="checkbox"/> Yes <input type="checkbox"/>			
				No <input type="checkbox"/> Yes <input type="checkbox"/>			
Turnaround Time:		Standard		Bacteria (only) Sample Condition			
		<u>RUSH</u>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>			
				Cool <input type="checkbox"/> Intact <input type="checkbox"/>			
				No <input type="checkbox"/> Yes <input type="checkbox"/>			
				No <input type="checkbox"/> Yes <input type="checkbox"/>			
				Corrected Temp. °C			



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

June 23, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU INJECTION LINE #2

Enclosed are the results of analyses for samples received by the laboratory on 06/22/22 10:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/22/2022	Sampling Date:	06/22/2022
Reported:	06/23/2022	Sampling Type:	Soil
Project Name:	NEDU INJECTION LINE #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE NM		

Sample ID: B 11 @ 4' (H222654-01)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2022	ND	2.20	110	2.00	2.03	
Toluene*	<0.050	0.050	06/22/2022	ND	2.19	109	2.00	1.63	
Ethylbenzene*	<0.050	0.050	06/22/2022	ND	2.07	104	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/22/2022	ND	6.40	107	6.00	0.782	
Total BTX	<0.300	0.300	06/22/2022	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	06/22/2022	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2022	ND	172	86.1	200	7.41	
DRO >C10-C28*	<10.0	10.0	06/22/2022	ND	190	95.1	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	06/22/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.7 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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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: Apache Project Manager: Bruce B.		P.O. #: Company: Attn: Address: City: State: Zip:		BILL TO		ANALYSIS REQUEST																	
Address: City: Hobbs State: Zip: Phone #: Fax #:		Project #: Project Owner: Project Location: Nelly Injection Line #2 Sample Name: See Analysis		City: State: Zip: Phone #: Fax #:																			
FOR LAB USE ONLY		Lab I.D. H222654 R11 @ 4'		Sample I.D.		(G)RAB OR (C)OMP. <input checked="" type="checkbox"/>		# CONTAINERS 1		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV. ACID/BASE: ICE / COOL OTHER:		SAMPLING DATE TIME		CL EXT TRH BTEX							
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Relinquished By: [Signature] Date: 11/22/22 Time: 1810		Received By: [Signature] Date: 11/22/22 Time: 1810		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: Bruce, Lee, Cesar		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #113 Correction Factor -0.5°C		Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C Yes <input type="checkbox"/> No <input type="checkbox"/>		Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 4.8 Corrected Temp. °C 4.3		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Checked By: (Initials) [Signature]		REMARKS:					

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



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

June 07, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU INJECTION LINE S #2

Enclosed are the results of analyses for samples received by the laboratory on 05/31/22 16:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/07/2022	Sampling Type:	Soil
Project Name:	NEDU INJECTION LINE S #2	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	EUNICE NM		

Sample ID: B 10 @ 3' 6" (H222303-01)

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	06/01/2022	ND	2.04	102	2.00	0.0351	
Toluene*	<0.050	0.050	06/01/2022	ND	2.05	103	2.00	0.572	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.91	95.6	2.00	0.138	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.94	98.9	6.00	0.457	
Total BTEX	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/02/2022	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	06/01/2022	ND	206	103	200	0.938	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	204	102	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.7 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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RPD	Relative Percent Difference
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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

[illegible]











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 157433

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 157433
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	12/8/2022