



303 Veterans Airpark Lane Midland, TX 79705

## **Remediation Plan**

June 7, 2023

Re: NEDU Injection Line 303  
Case nAPP2307355788

### **Background:**

On 3/8/2023 a release occurred due a 6-inch cemented line corroded. The release (GPS: 32.50402, -103.14070) is located north of Eunice, New Mexico in unit letter M section 2 township 17S range 37E. Depth to groundwater was determined by a measurement obtained in 2021 of a nearby monitor well. The depth of water was gauged at 63.68 feet.

Discrete vertical and horizontal grab samples were collected to delineate the release on 4/24 and 4/25/2023. All samples collected were submitted to a commercial laboratory for analysis for Cl-, TPH, and BTEX. All samples except SP8 were below table one standards for releases 51-100 feet to groundwater. Due to excessive chloride reading in respects to all other samples in the profile SP8 was resampled at the surface and 1 foot. Both samples were submitted to a commercial laboratory for analysis of chloride. The resample results were below table one standards for chloride.

### **Remediation Plan:**

Apache Corporation proposes that the release area in the pasture be excavated in accordance with reclamation standards from 19.15.29 NMAC. Final 5-point bottom and wall composite samples will be collected not exceeding 400 square feet. Final 5-point surface composite samples will be collected on the pad and lease road not to exceed 400 square feet to confirm the entire release area not being reclaimed meet table one standards for releases 51-100 feet to groundwater. 5-point surface horizontal samples will be taken not to exceed 200 square feet to confirm the release on the lease pad and road did not enter the pasture. All samples collected will be submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All excavated material (6000 yards) will be hauled to an OCD approved disposal facility. Once analytical confirm the release area is below table one closure standards for release 51-100 feet to groundwater and reclamation standards are meet in the top four feet of the pasture area the excavations in the pasture will be backfilled with clean imported topsoil and if excavation is required on the lease pad or lease road the pad will be restored with clean imported caliche. The pasture area will be reseed in accordance with the revegetation and noxious weed plan. The remediation will be completed within 90 days of OCD approval of the plan.

Enclosed: C-141, Groundwater Data, Maps, Sample Data, Laboratory Results, and Revegetation and Noxious Weed Plan.

Submitted by.

*Larry Baker*

**Environmental Technician**

*larry.baker@apachecorp.com*

**Office # 432-818-1654**

**Cell# 432-250-8384**

Incident ID	NAPP2307355788
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>63</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	NAPP2307355788
District RP	
Facility ID	
Application ID	

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: 6/8/2023  
email: larry.baker@apachecorp.com Telephone: 432-818-1654

**OCD Only**

Received by: Jocelyn Harimon Date: 06/08/2023

Incident ID	NAPP2307355788
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: 6/8/2023  
email: larry.baker@apachecorp.com Telephone: 432-818-1654

**OCD Only**

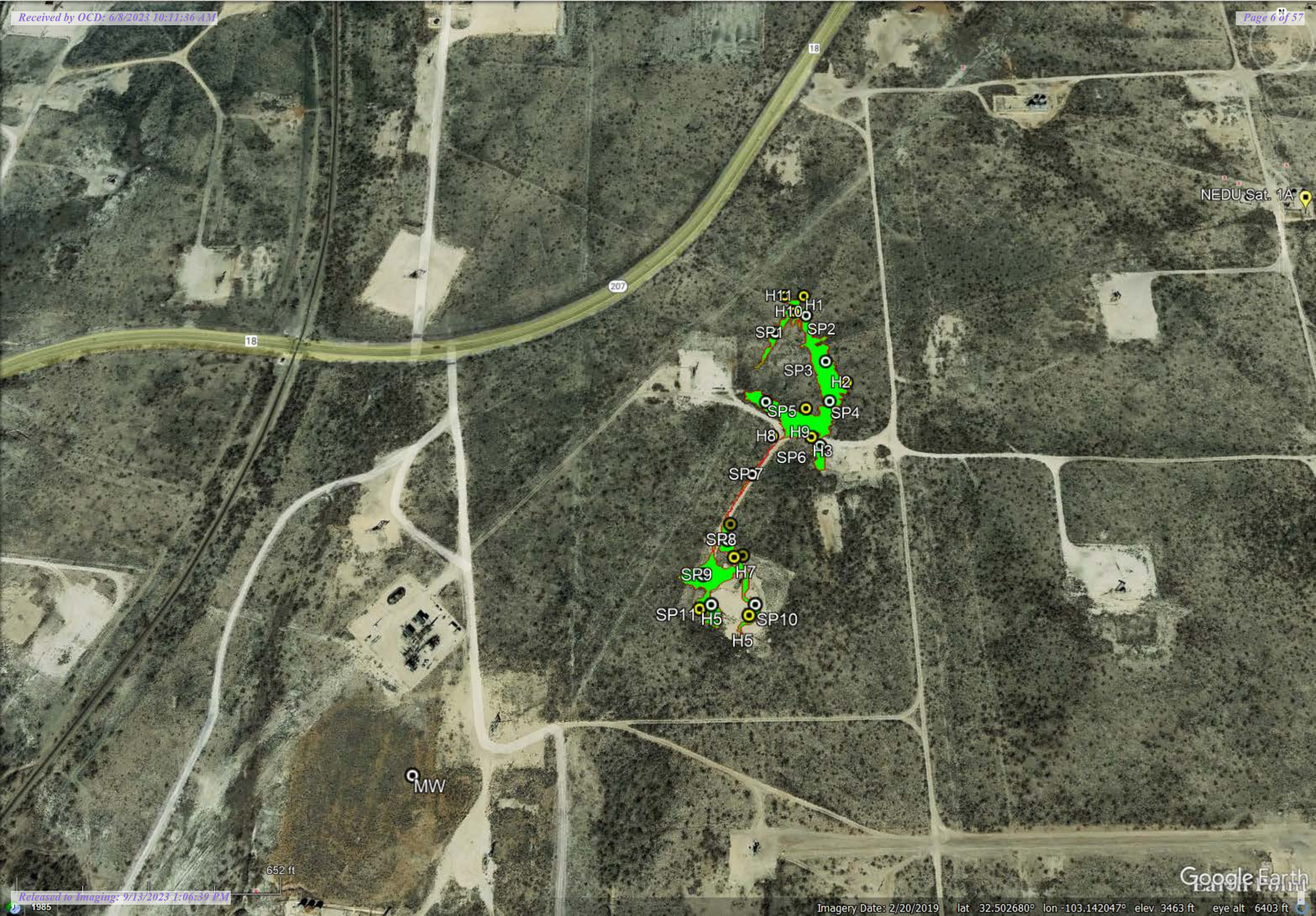
Received by: Jocelyn Harimon Date: 06/08/2023

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

Signature: Nelson Velez Date: 09/13/2023

Apache has 90-days (December 12, 2023) to complete and submit the appropriate or final closure report.





NEDU Sat. 1A

MW

652 ft



December 21, 2021



Apache Corporation  
303 Veterans Airpark Lane  
Midland, Texas 79705

Attn: Mr. Bruce Baker  
P: 432-818-1000  
E: [larry.baker@apachecorp.com](mailto:larry.baker@apachecorp.com)


**RE: Release Investigation and Remedial Action Plan**  
NEDU Injection Line  
Unit C, Section 10, Township 21 South, Range 37 East  
Lea County, New Mexico

Dear Mr. Baker,

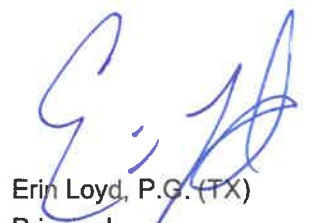
Terracon Consultants, Inc. (Terracon) is pleased to submit our well gauging data for the site referenced above. Based on field observations during the well gauging event on December 14, 2021. The depth of water within the well located at GPS: 32.5002963, -103.1440734, was observed to be 63.68 feet below top of casing.

Terracon appreciates this opportunity to provide environmental services to Apache Corporation (Apache). Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,  
**Terracon Consultants, Inc.**



Joseph Guesnier  
Staff Scientist  
Lubbock



Erin Loyd, P.G. (TX)  
Principal  
Office Manager – Lubbock



Coordinates

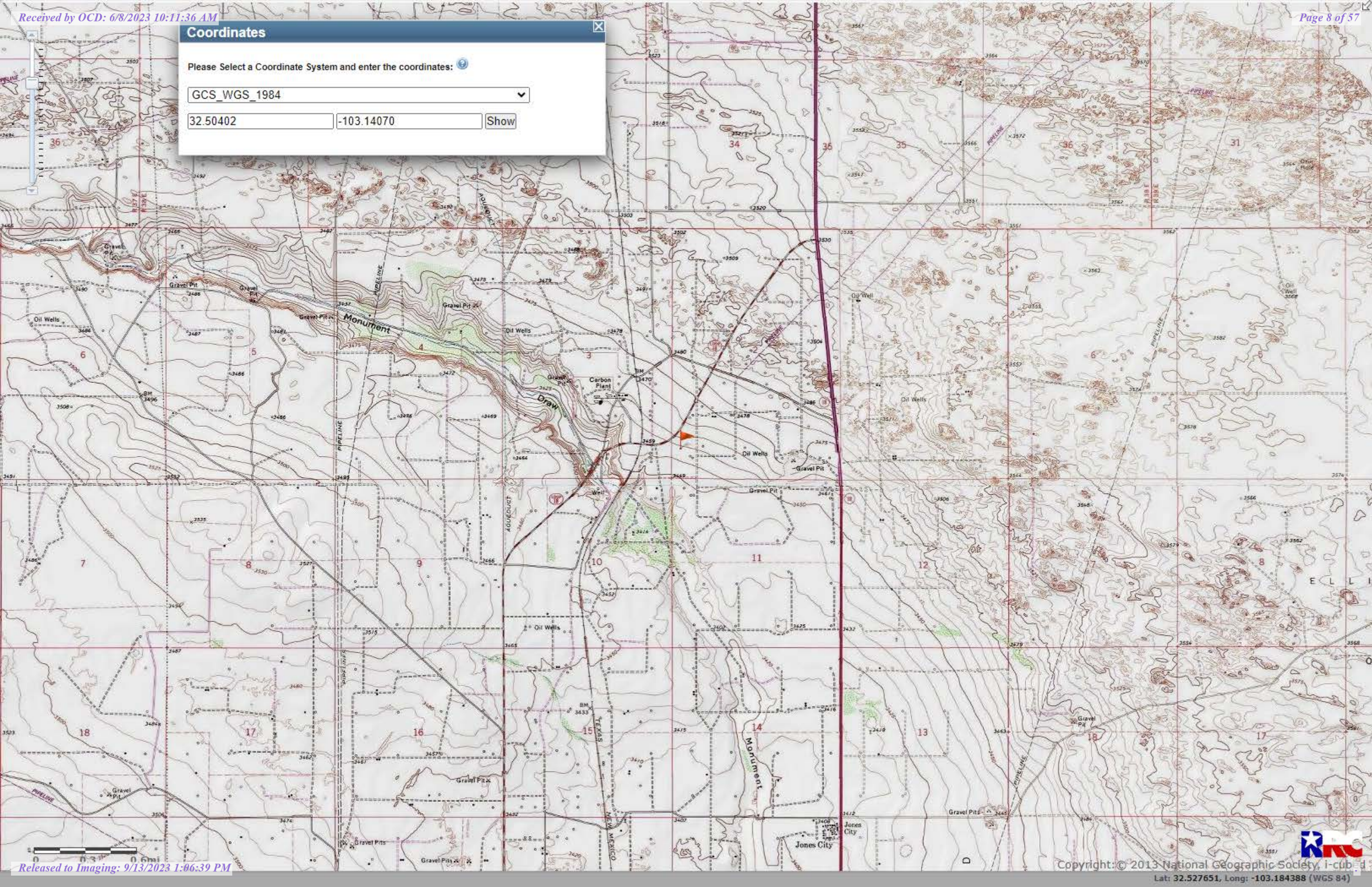
Please Select a Coordinate System and enter the coordinates:

GCS\_WGS\_1984

32.50402

-103.14070

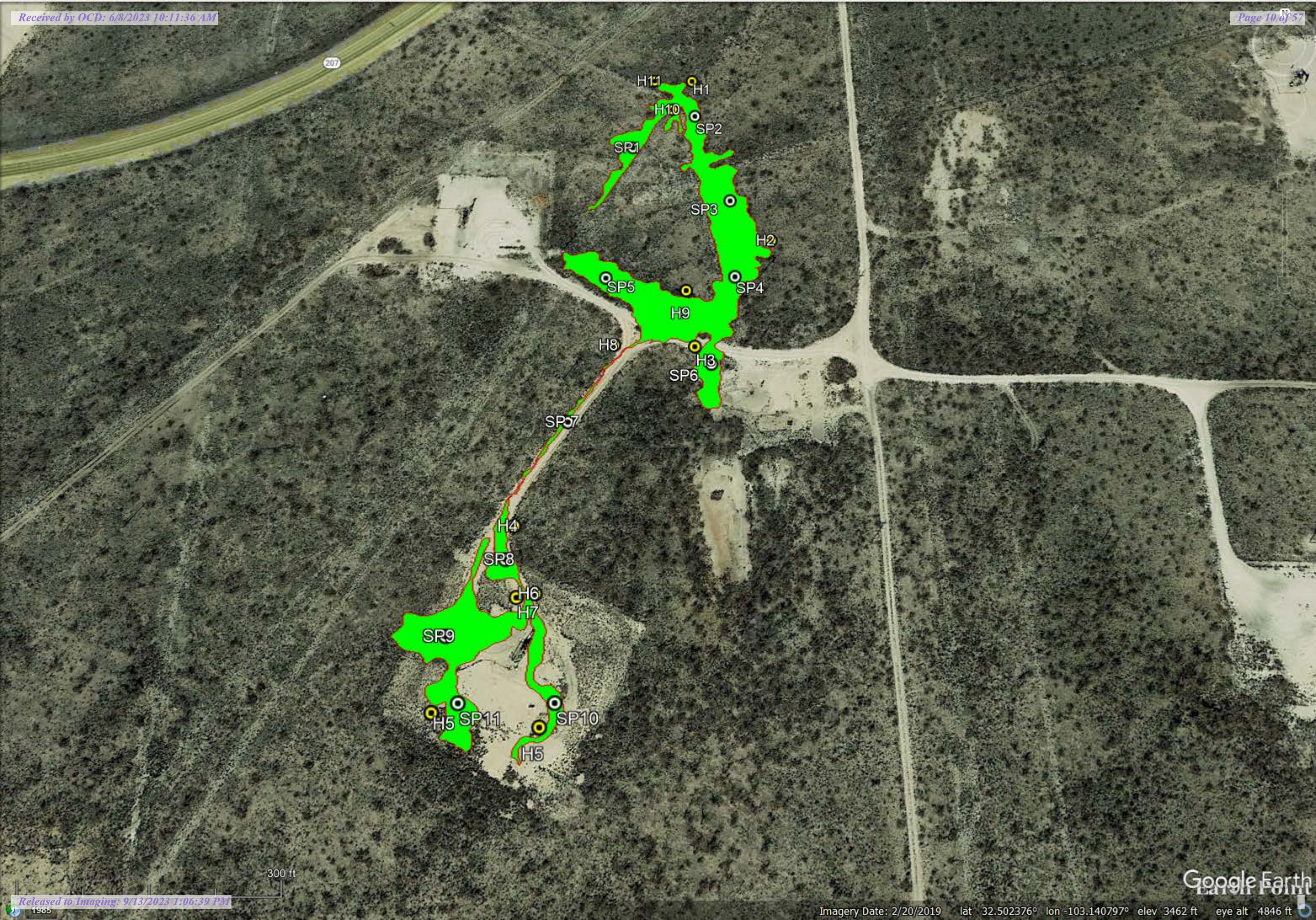
Show





Delineation Samples												
Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
4/25/2023	SP1	Surface	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5037457, -103.1409346
4/25/2023		2'	336	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/25/2023	SP2	Surface	1800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	107	29	32.5039100, -103.1406050
4/25/2023		2'	816	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/25/2023		4'	1220	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/25/2023	SP3	Surface	2400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	81.8	23	32.5034984, -103.1404642
4/25/2023		2'	384	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/25/2023		4'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/24/2023	SP4	Surface	4,000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21	<10.0	32.5031570, -103.1404508
4/24/2023		2'	928	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/24/2023		4'	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/24/2023	SP5	Surface	5040	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5031146, -103.141087
4/24/2023		2'	1360	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/24/2023		4'	1630	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/24/2023	SP6	Surface	2880	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24.1	11.4	32.5027583, -103.1405188
4/24/2023	SP7	Surface	7600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5024922, -103.1412021
4/24/2023	SP8	Surface	19600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5019906, -103.1414402
6/7/2023	SP8	Surface	1570									
6/7/2023	SP8	1'	224									
4/24/2023	SP9	Surface	6880	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5017211, -103.1416665
4/24/2023	SP10	Surface	3000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5014969, -103.1411977
4/24/2023	SP11	Surface	2600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5015074, -103.1415967
4/25/2023	H1	6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5041034, -103.1406509
4/25/2023	H2	6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5032905, -103.1402959
4/25/2023	H3	6"	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5028338, -103.1406130
4/25/2023	H4	6"	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5021136, -103.1414167
4/25/2023	H5	6"	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5014180, -103.1412802
4/25/2023	H6	6"	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5015034, -103.1416822
4/25/2023	H7	6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5018504, -103.1413915
4/25/2023	H8	6"	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5028352, -103.1409962
4/25/2023	H9	6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5030821, -103.1406878
4/25/2023	H10	6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5039383, -103.1407324
4/25/2023	H11	6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5040932, -103.1406814



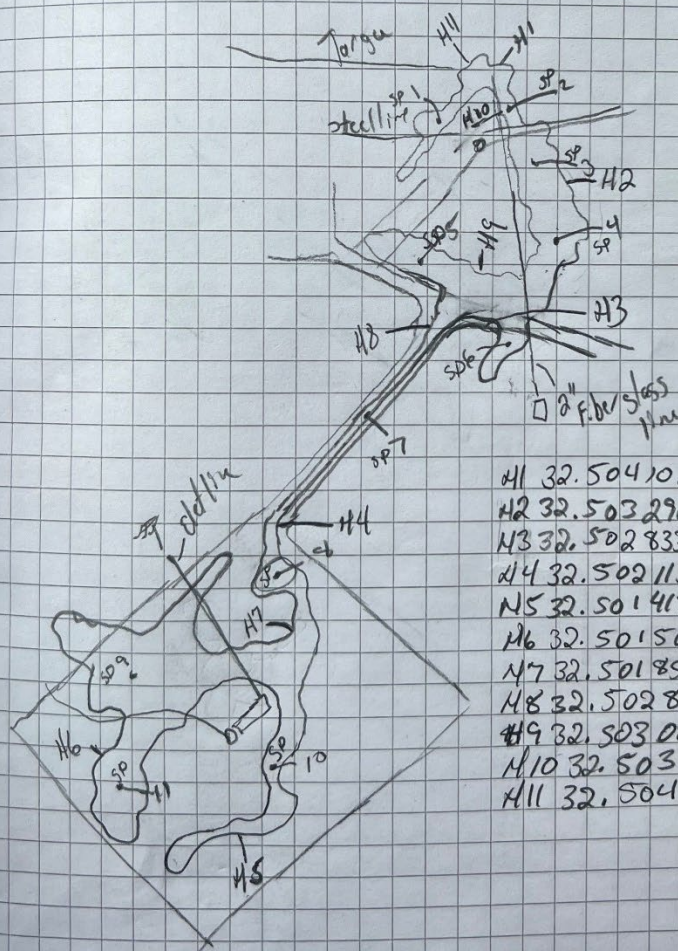




Apr 125 2023 NEDU Trunk Line 303

SP1 32.5037457 - 103.1409346  
 SP2 32.5039100 - 103.1406050  
 SP3 32.5034994 - 103.1404642  
 SP4 32.5031570 - 103.1404508  
 SP5 32.5031146 - 103.1410807  
 SP6 32.5027583 - 103.1405188  
 SP7 32.5024922 - 103.1412021  
 SP8 32.5019906 - 103.1414402

SP9 32.5017211 - 103.1416665  
 SP10 32.5014969 - 103.1411977  
 SP11 32.5015674 - 103.1415967



H1 32.5041034 - 103.1406509  
 H2 32.5032905 - 103.1462959  
 H3 32.5028338 - 103.1406130  
 H4 32.5021136 - 103.1414167  
 H5 32.5014180 - 103.1412802  
 H6 32.5015034 - 103.1416822  
 H7 32.5018504 - 103.1413915  
 H8 32.5028352 - 103.1409962  
 H9 32.5030821 - 103.1466878  
 H10 32.5039383 - 103.1467324  
 H11 32.5040932 - 103.1406814





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

April 27, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU TRUNKLINE 303

Enclosed are the results of analyses for samples received by the laboratory on 04/24/23 16:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive 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:	04/24/2023	Sampling Date:	04/24/2023
Reported:	04/27/2023	Sampling Type:	Soil
Project Name:	NEDU TRUNKLINE 303	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 6 SURFACE (H231992-01)**

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	04/26/2023	ND	2.14	107	2.00	4.38	
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15	
Total BTX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	205	103	200	0.769	
DRO >C10-C28*	24.1	10.0	04/25/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	11.4	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.1 % 49.1-148

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: 04/24/2023  
 Reported: 04/27/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 SURFACE (H231992-02)**

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	04/26/2023	ND	2.14	107	2.00	4.38		
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7600	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 69.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 49.1-148

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: 04/24/2023  
 Reported: 04/27/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 8 SURFACE (H231992-03)**

BTEx 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	04/26/2023	ND	2.14	107	2.00	4.38		
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15		
Total BTEx	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	19600	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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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: 04/24/2023  
 Reported: 04/27/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 9 SURFACE (H231992-04)**

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	04/26/2023	ND	2.14	107	2.00	4.38	
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15	
Total BTX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6880	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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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: 04/24/2023  
 Reported: 04/27/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 10 SURFACE (H231992-05)**

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	04/26/2023	ND	2.14	107	2.00	4.38	
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15	
Total BTX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 70.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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: 04/24/2023  
 Reported: 04/27/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 11 SURFACE (H231992-06)**

BTEx 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	04/26/2023	ND	2.14	107	2.00	4.38		
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15		
Total BTEx	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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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: 04/24/2023  
 Reported: 04/27/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 SURFACE (H231992-07)**

BTEx 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	04/26/2023	ND	2.14	107	2.00	4.38	
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15	
Total BTEx	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	20.7	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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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: 04/24/2023  
 Reported: 04/27/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 2' (H231992-08)**

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	04/26/2023	ND	2.14	107	2.00	4.38	
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15	
Total BTX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 75.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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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: 04/24/2023  
 Reported: 04/27/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 4' (H231992-09)**

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	04/26/2023	ND	2.14	107	2.00	4.38	
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15	
Total BTX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/26/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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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: 04/24/2023  
 Reported: 04/27/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 SURFACE (H231992-10)**

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	04/26/2023	ND	2.02	101	2.00	0.0950	
Toluene*	<0.050	0.050	04/26/2023	ND	2.04	102	2.00	0.0897	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.08	104	2.00	0.255	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.36	106	6.00	0.479	
Total BTX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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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: 04/24/2023  
 Reported: 04/27/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 2' (H231992-11)**

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	04/26/2023	ND	2.02	101	2.00	0.0950	
Toluene*	<0.050	0.050	04/26/2023	ND	2.04	102	2.00	0.0897	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.08	104	2.00	0.255	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.36	106	6.00	0.479	
Total BTX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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: 04/24/2023  
 Reported: 04/27/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 4' (H231992-12)**

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	04/26/2023	ND	2.02	101	2.00	0.0950	
Toluene*	<0.050	0.050	04/26/2023	ND	2.04	102	2.00	0.0897	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.08	104	2.00	0.255	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.36	106	6.00	0.479	
Total BTX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1630	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Apache <b>Project Manager:</b> B. Baker <b>Address:</b> <b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240 <b>Phone #:</b> <b>Fax #:</b> <b>Project #:</b> <b>Project Owner:</b> <b>Project Name:</b> <b>Project Location:</b> NEED U Tank Line 303 <b>Sample Name:</b> Jose Baker				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>				<b>ANALYSIS REQUEST</b>			
<b>FOR LAB USE ONLY</b>		<b>(G)RAB OR (C)OMP.</b> <b># CONTAINERS</b> <b>GROUNDWATER</b> <b>WASTEWATER</b> <b>SOIL</b> <b>OIL</b> <b>SLUDGE</b> <b>OTHER :</b> <b>ACID/BASE:</b> <b>ICE / COOL</b> <b>OTHER :</b>		<b>MATRIX</b> <b>PRESERV.</b> <b>SAMPLING</b>		<b>DATE</b> <b>TIME</b>		<b>CI</b> <b>BTEX</b> <b>EXT TPH</b>			
<b>Lab I.D.</b> <b>Sample I.D.</b>		<b>SP 6 Surface</b> <b>SP 7 Surface</b> <b>SP 8 Surface</b> <b>SP 9 Surface</b> <b>SP 10 Surface</b> <b>SP 11 Surface</b> <b>SP 4 Surface</b> <b>SP 5 Surface</b>		<b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>		<b>4/24</b> <b>2:24</b> <b>2:26</b> <b>2:28</b> <b>2:30</b> <b>2:32</b> <b>2:34</b> <b>2:50</b> <b>3:52</b> <b>3:54</b>		<b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>			
<b>PLEASE NOTE:</b> Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.											
<b>Relinquished By:</b> Jose Baker <b>Date:</b> 4/24/23 <b>Received By:</b> J. Keene <b>Date:</b> 4/24/23 <b>Time:</b> 4:30 pm <b>Received By:</b> J. Keene				<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>All Results are emailed. Please provide Email address:</b>				<b>REMARKS:</b> <b>E-Mail Results</b>			
<b>Relinquished By:</b> Jose Baker <b>Date:</b> 4/24/23 <b>Received By:</b> J. Keene <b>Date:</b> 4/24/23 <b>Time:</b> 4:30 pm <b>Received By:</b> J. Keene				<b>Observed Temp. °C</b> 3.2 <b>Corrected Temp. °C</b> 2.6 <b>Sample Condition</b> <b>Cool Intact</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>Checked By:</b> (Initials) J. Keene <b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> <b>Thermometer ID #113</b> <b>Correction Factor -0.6°C</b> <b>Bacteria (only) Sample Condition</b> <b>Cool Intact</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Observed Temp. °C</b> <b>Corrected Temp. °C</b>				<b>Delivered By: (Circle One)</b> <b>Sampler - UPS - Bus - Other:</b>			

FORM-000 6/3/07/11/02Z

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





### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 16 of 16



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

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April 28, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU TRUNKLINE 303

Enclosed are the results of analyses for samples received by the laboratory on 04/25/23 15:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 SURFACE (H232017-01)**

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	04/26/2023	ND	1.94	97.1	2.00	2.57	
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44	
Total BTX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 2' (H232017-02)**

BTEx 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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTEx	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 SURFACE (H232017-03)**

BTEx 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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTEx	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	107	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	28.5	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 2' (H232017-04)**

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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 4' (H232017-05)**

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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	04/26/2023	ND	416	104	400	3.77	QM-07	

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	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 SURFACE (H232017-06)**

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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	04/26/2023	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	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	81.8	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	22.5	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 2' (H232017-07)**

BTEx 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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTEx	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	04/26/2023	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	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 4' (H232017-08)**

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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/26/2023	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	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 1 (H232017-09)**

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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/26/2023	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	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 2 (H232017-10)**

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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	04/26/2023	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	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 3 (H232017-11)**

BTEx 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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTEX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/26/2023	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	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 4 (H232017-12)**

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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

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	04/26/2023	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	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 5 (H232017-13)**

BTEx 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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTEX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/26/2023	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	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 6 (H232017-14)**

BTEx 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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTEx	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

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	04/26/2023	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	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 7 (H232017-15)**

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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

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	04/26/2023	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	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 8 (H232017-16)**

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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

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	04/26/2023	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	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 9 (H232017-17)**

BTEx 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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTEX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/26/2023	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	04/26/2023	ND	187	93.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	207	104	200	0.724	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 10 (H232017-18)**

BTEx 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	04/26/2023	ND	1.97	98.4	2.00	2.08	
Toluene*	<0.050	0.050	04/26/2023	ND	2.00	100	2.00	0.436	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.21	111	2.00	0.840	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.80	113	6.00	1.19	
Total BTEX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/26/2023	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	04/26/2023	ND	187	93.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	207	104	200	0.724	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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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: 04/25/2023  
 Reported: 04/28/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 11 (H232017-19)**

BTX 8021B			mg/kg					Analyzed By: JH		S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	04/26/2023	ND	1.97	98.4	2.00	2.08			
Toluene*	<0.050	0.050	04/26/2023	ND	2.00	100	2.00	0.436			
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.21	111	2.00	0.840			
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.80	113	6.00	1.19			
Total BTX	<0.300	0.300	04/26/2023	ND							

Surrogate: 4-Bromofluorobenzene (PID) 137 % 71.5-134

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	04/26/2023	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	04/26/2023	ND	187	93.4	200	1.33			
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	207	104	200	0.724			
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND							

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>		
<b>Project Manager:</b>	<b>P.O. #:</b>					
<b>Address:</b>	<b>Company:</b>					
<b>City:</b>	<b>Attn:</b>					
<b>State:</b>	<b>Zip:</b>					
<b>Phone #:</b>	<b>Fax #:</b>					
<b>Project #:</b>	<b>City:</b>					
<b>Project Owner:</b>	<b>State:</b>					
<b>Project Location:</b>	<b>Phone #:</b>					
<b>Sample Name:</b>	<b>Fax #:</b>					
<b>FOR LAB USE ONLY</b>		<b>MATRIX</b>		<b>PRESERV.</b>	<b>SAMPLING</b>	
<b>Lab I.D.</b>	<b>Sample I.D.</b>	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	DATE	TIME
				WASTEWATER		
				SOIL		
				OIL		
				SLUDGE		
				OTHER :		
				ACID/BASE:		
				ICE / COOL		
				OTHER :		
H333017	SP1 Surface	G	1		4/35	10:14
	2 SP1 @ 2'	G	1			10:20
	3 SP3 Surface	G	1			10:22
	4 SP2 @ 2'	G	1			10:24
	5 SP2 @ 4'	G	1			10:26
	6 SP3 Surface	G	1			10:28
	7 SP3 @ 2'	G	1			10:30
	8 SP3 @ 4'	G	1			10:32
	9 A1	G	1			2:24
	D 42	G	1			2:26
<b>PLEASE NOTE:</b> Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		<b>Verbal Result:</b>		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<b>Add'l Phone #:</b>
<b>Relinquished By:</b>		<b>Date:</b>		<b>All Results are emailed. Please provide Email address:</b>		
<b>Relinquished By:</b>		<b>Date:</b>		<b>REMARKS:</b>		
<b>Delivered By:</b>		<b>Observed Temp. °C</b>		<b>Turnaround Time:</b>		
<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>Standard</b>		
<b>Cool Intact</b>		<b>Yes</b>		<b>Rush</b>		
<b>No</b>		<b>No</b>		<b>Bacteria (only)</b>		
<b>Yes</b>		<b>Yes</b>		<b>Cool Intact</b>		
<b>No</b>		<b>No</b>		<b>Observed Temp. °C</b>		
<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>Corrected Temp. °C</b>		
<b>Yes</b>		<b>Yes</b>		<b>Yes</b>		
<b>No</b>		<b>No</b>		<b>No</b>		



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache					
Project Manager: B. Baker					
Address:					
City: Hobbs State P.O. Zip: 88240					
Phone #: Fax #:					
Project #: Project Owner:					
Project Name:					
Project Location: AEDC Truck Line 303					
Sample Name: Sore Cement					
FOR LAB USE ONLY					
Lab I.D.		Sample I.D.			
A033017	H3	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV
11 H3	G	GROUNDWATER	SOIL	OIL	SLUDGE
12 H4	G	WASTEWATER	OTHER :	ACID/BASE:	ICE / COOL
13 H5	G	DATE	TIME	C1	BTEX
14 H6	G	2:30	2:30	SOP TPH	
15 H7	G	2:34	2:34		
16 H8	G	2:38	2:38		
17 H9	G	2:40	2:40		
18 H10	G	2:42	2:42		
19 H11	G	2:44	2:44		
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. In no event shall Cardinal be liable 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:		Date: 4/25/13	Received By:	Verbal Result: Yes No Add'l Phone #:	
Sore Cement		Time: 3:21 pm	Signature	All Results are emailed. Please provide Email address:	
Reinquinshed By:		Date:	Received By:	REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C	Corrected Temp. °C	Turnaround Time: Standard Rush	
Sampler - UPS - Bus - Other:		279	23	Bacteria (only) Sample Condition Cool Intact Yes No Corrected Temp. °C	





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

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June 07, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU TRUNKLINE 303

Enclosed are the results of analyses for samples received by the laboratory on 06/07/23 9:19.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/07/2023  
 Reported: 06/07/2023  
 Project Name: NEDU TRUNKLINE 303  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 06/07/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 8 SURFACE (H232880-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	06/07/2023	ND	416	104	400	7.41	

**Sample ID: SP 8 @ 1' (H232880-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/07/2023	ND	416	104	400	7.41	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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

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Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Spache

Project Manager: Bruce Baker

Address: \_\_\_\_\_

City: Hobbs State: NM Zip: 88240

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_

Project Name: \_\_\_\_\_

Project Location: DEDA Truck line 303

Sampler Name: Jose Quavea

FOR LAB USE ONLY

Lab I.D. \_\_\_\_\_ Sample I.D. \_\_\_\_\_

H333880

1 SP8 surface  
250801

(G)RAB OR (C)OMP.  
# CONTAINERS  
GROUNDWATER  
WASTEWATER  
SOIL  
OIL  
SLUDGE  
OTHER :  
ACID/BASE:  
ICE / COOL  
OTHER :

DATE  
TIME

6/7  
8:55  
8:57

1

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Relinquished By: \_\_\_\_\_

Date: 6/7/23 Received By: \_\_\_\_\_

Time: 9:10 PM Received By: \_\_\_\_\_

Date: \_\_\_\_\_ Received By: \_\_\_\_\_

Time: \_\_\_\_\_ Received By: \_\_\_\_\_

Delivered By: (Circle One) Observed Temp. °C 4.5 Sample Condition

Sampler - UPS - Bus - Other: Corrected Temp. °C 5.9 Cool ☒ Intact ☒

CHECKED BY: \_\_\_\_\_

(Initials) VB

Turnaround Time: \_\_\_\_\_

Thermometer ID #113

REMARKS: E-Mail Results

Standard ☒ Rush ☒

Bacteria (only) Sample Condition

Cool Intact ☒ Observed Temp. °C

Corrected Temp. °C

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



***NEDU Injection Line 303***  
***nAPP2307355788***  
**Revegetation**  
**And**  
**Noxious Weed Plan**

**Revegetation Plan:**

All the disturbed area in the pasture will be properly prepared and reseeded with NMSLO shallow seed mixture. The disturbed area will be monitored to ensure successful revegetation is achieved. If revegetation is not successful after a couple of growing seasons the site will be reseeded.

**Noxious Weed Plan:**

Apache Corporation will treat noxious weeds if they become established within the area of remediation. Weed control will be maintained on the disturbed land where noxious weeds exist both prior to remediation and restoration. Apache Corporation will consult with the Authorized Officer for acceptable weed control methods.

**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 225429

CONDITIONS

Operator:  APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID:  873
	Action Number:  225429
	Action Type:  [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Apache has 90-days (December 12, 2023) to complete and submit the appropriate or final closure report.	9/13/2023