



303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

August 11, 2022

Re: Loco Hills Water Trunk Line
Case: nAPP2213629900

Background:

On 5/11/2022 a release occurred due to external corrosion on a steel valve. The release (GPS: 32.829464, -103.982298) was contained on a lease pad and is located north of Loco Hills, New Mexico in unit letter M section 16 township 17S range 30E. The depth to groundwater was determined by utilizing data collected from a soil bore south of the release conducted on 8/2/2021. The soil bore was advanced to a depth of 121 feet and left open for 72 hours. The bore hole was gauged for the presence water and was dry to a depth of 121 feet.

On 5/17/2022 vertical delineation was conducted in one-foot intervals to various depths. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Two surface 5-point composite samples were collected not to exceed 200 square feet to demonstrate that the release was contained to the lease pad. On 7/19/2022 another operator had a significant release that impacted are our release area and a larger portion of the lease pad.

Remediation Plan:

Apache Corporation proposes that the release area be excavated to a depth of 6 inches to one foot. All excavated soil (289 yards) will be disposed of at an OCD approved disposal facility. Final 5-point bottom composite samples will be collected not to exceed 400 square feet. Final 5-point wall composite samples will be collected not to exceed 200 square feet. All final sample composite will be submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Once laboratory analysis is below table one standard for releases greater than 100 feet to groundwater the excavation will be backfilled with clean imported caliche to restore the pad. If table one standards cannot be achieved on the wall samples because of the other operator's release than Apache will communicate that with OCD prior to backfilling. The remediation will be completed within 90 days of OCD approval of the plan.

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

Submitted by.

Larry Baker

Environmental Technician Sr. Staff

larry.baker@apachecorp.com

Cell# 432-215-2284

Incident ID	
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?	>121 (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 not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" 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.

Oil Conservation Division

Incident ID	
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: 8/11/2022
 email: larry.baker@apachecorp.com Telephone: 432-215-2284

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Larry Baker Title: Environmental Tech Sr. Staff
 Signature: Larry Baker Date: 8/11/2022
 email: larry.baker@apachecorp.com Telephone: 432-215-2284

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Line Path Polygon Circle 3D path 3D polygon

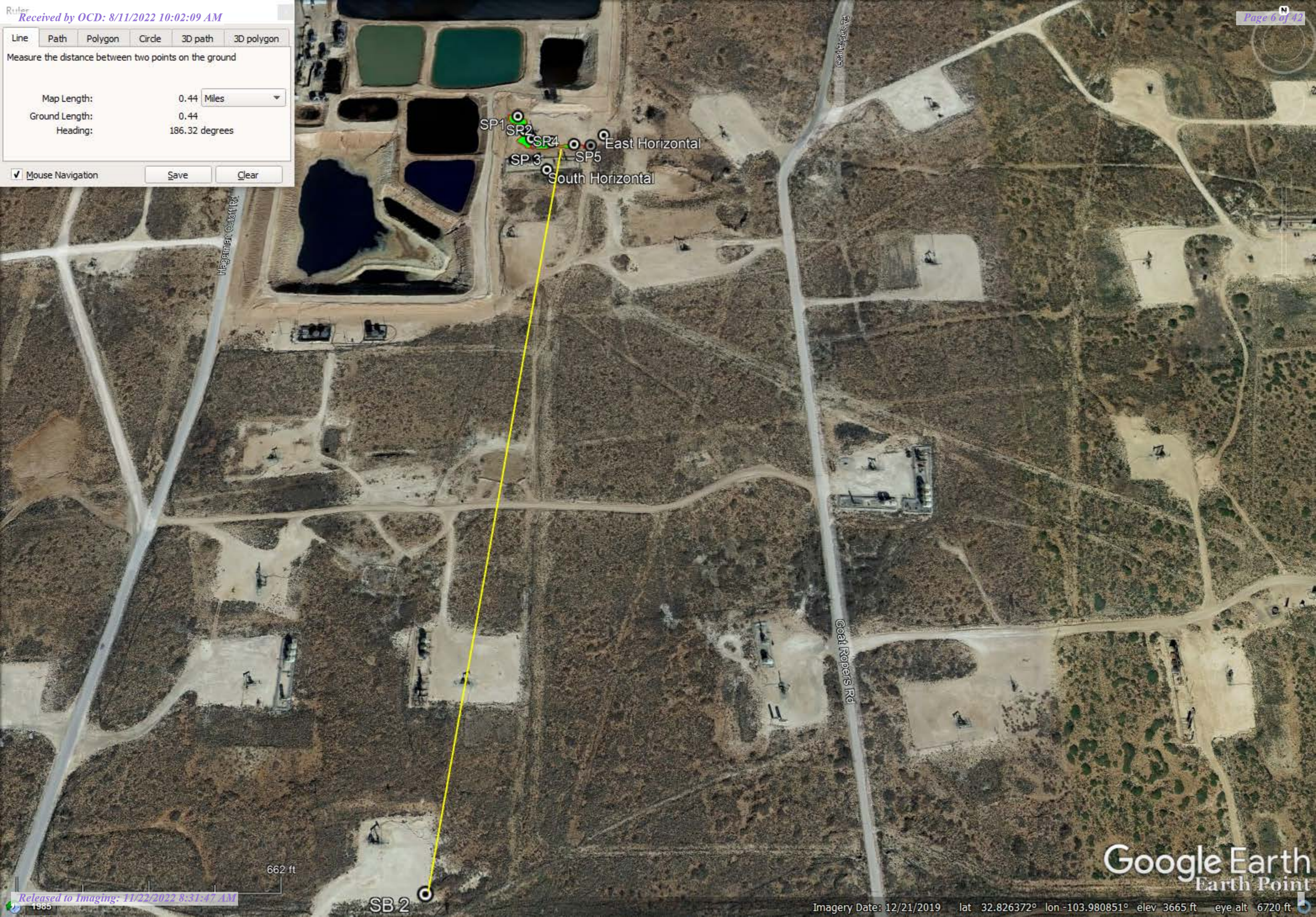
Measure the distance between two points on the ground

Map Length: 0.44 Miles

Ground Length: 0.44

Heading: 186.32 degrees

Mouse Navigation



SP1 SR2 CSP4 SP3 SP5
 East Horizontal
 South Horizontal

Hageman Ct

Goat Ropers Rd

662 ft

SB 2



100 ft

Delineation Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
5/17/2022	SP1	S	20,800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8297531, -103.9823958
		1'	5,520	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	8,720	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		3'	5,520	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		4'	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
5/17/2022	SP2	S	25600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8295878, -103.9822976
		1'	528	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
5/17/2022	SP3	S	26800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.2	<10.0	32.8294238, -103.9822416
		1'	1120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		3'	1760	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		4'	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
5/17/2022	SP 4	S	8000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8294086, -103.9820277
		1'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
5/17/2022	SP5	S	19000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8294088, -103.9817833
		1'	2140	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	512	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	370	203	
5/17/2022	SP6	S	8,080	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8293866, -103.9816002
		1'	4960	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	976	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		3'	368	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
5/17/2022	South Horizontal	S	336	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.829152, -103.982056
5/17/2022	East Horizontal	S	352	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.829521, -103.981444



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

May 23, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LOCO HILLS WATER TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 05/17/22 8:09.

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".

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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 1 (H222078-01)

BTEX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61		
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19		
Total BTEX	<0.300	0.300	05/18/2022	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	20800	16.0	05/18/2022	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	05/18/2022	ND	201	100	200	1.34		
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21		
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND						

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ 1' (H222078-02)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	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	5520	16.0	05/18/2022	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	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 84.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.7 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ 2' (H222078-03)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	8720	16.0	05/18/2022	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	05/18/2022	ND	233	117	200	11.4	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ 3' (H222078-04)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	5520	16.0	05/18/2022	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	05/18/2022	ND	233	117	200	11.4	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 122 % 66.9-136

Surrogate: 1-Chlorooctadecane 127 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ 4' (H222078-05)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	05/18/2022	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	05/18/2022	ND	233	117	200	11.4	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 2 (H222078-06)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	25600	16.0	05/18/2022	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	05/18/2022	ND	233	117	200	11.4	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 2 @ 1' (H222078-07)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	528	16.0	05/18/2022	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	05/18/2022	ND	233	117	200	11.4	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 3 (H222078-08)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	26800	16.0	05/18/2022	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	05/20/2022	ND	233	117	200	11.4	
DRO >C10-C28*	11.2	10.0	05/20/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/20/2022	ND					

Surrogate: 1-Chlorooctane 123 % 66.9-136

Surrogate: 1-Chlorooctadecane 129 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 1' (H222078-09)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	1120	16.0	05/18/2022	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	05/18/2022	ND	233	117	200	11.4	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 2' (H222078-10)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	224	16.0	05/18/2022	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	05/18/2022	ND	233	117	200	11.4	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 3' (H222078-11)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	1760	16.0	05/18/2022	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	05/18/2022	ND	233	117	200	11.4	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 4' (H222078-12)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	272	16.0	05/18/2022	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	05/18/2022	ND	233	117	200	11.4	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 4 (H222078-13)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	8000	16.0	05/18/2022	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	05/18/2022	ND	233	117	200	11.4	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 130 % 66.9-136

Surrogate: 1-Chlorooctadecane 135 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 4 @ 1' (H222078-14)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	144	16.0	05/18/2022	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	05/18/2022	ND	233	117	200	11.4	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 125 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 5 (H222078-15)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	19000	16.0	05/18/2022	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	05/18/2022	ND	233	117	200	11.4	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 128 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 5 @ 1' (H222078-16)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	2140	16.0	05/18/2022	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	05/18/2022	ND	233	117	200	11.4	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 123 % 66.9-136

Surrogate: 1-Chlorooctadecane 127 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 5 @ 2' (H222078-17)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	512	16.0	05/18/2022	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	05/19/2022	ND	233	117	200	11.4	
DRO >C10-C28*	370	10.0	05/19/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	203	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 74.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 6 (H222078-18)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	8080	16.0	05/18/2022	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	05/18/2022	ND	233	117	200	11.4	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 6 @ 1' (H222078-19)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	4960	16.0	05/18/2022	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	05/18/2022	ND	233	117	200	11.4	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 6 @ 2' (H222078-20)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	976	16.0	05/18/2022	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	05/18/2022	ND	233	117	200	11.4	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 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:	05/17/2022	Sampling Date:	05/16/2022
Reported:	05/23/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SP 6 @ 3' (H222078-21)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.93	96.6	2.00	3.75	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.01	100	6.00	4.33	
Total BTEX	<0.300	0.300	05/18/2022	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	368	16.0	05/18/2022	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	05/18/2022	ND	233	117	200	11.4	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	222	111	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 127 % 66.9-136

Surrogate: 1-Chlorooctadecane 133 % 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

- 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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Apache
 Project Manager: Bruce R.
 Address:
 City: State: Zip:
 Phone #: Fax #:
 Project #: Project Owner:
 Project Name:
 Project Location: 1000 Hills water trunk line
 Sampler Name: Joe Quasada Jr.
 Project Name: State: Zip:
 Phone #: Fax #:

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

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CC	EXT TR	STEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
1933078	SP1	1	1						5/16	3:15	/	/	/	
	SP101'									3:16	/	/	/	
	SP102'									3:17	/	/	/	
	SP103'									3:18	/	/	/	
	SP104									3:19	/	/	/	
	SP2									3:20	/	/	/	
	SP201'									3:21	/	/	/	
	SP3									3:22	/	/	/	
	SP301'									3:23	/	/	/	
	SP302'									3:24	/	/	/	

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Relinquished By: [Signature]
 Date: 5/16
 Time: 0809
 Received By: [Signature]
 Date: [Blank]
 Time: [Blank]

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

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other:
 Observed Temp. °C: 0.42
 Corrected Temp. °C: 0.12
 Sample Condition: Cool Intact Yes No
 CHECKED BY: [Signature]
 Turndown Time: Standard Rush
 Thermometer ID #113
 Correction Factor -0.5°C
 Bacteria (only) Sample Condition: Cool Intact Yes No
 Corrected Temp. °C

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache Project Manager: Bruce B. Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Name: Project Location: Loco Hill water trunk line Sampler Name: Joe Quisenberry FOR LAB USE ONLY		P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:	
Lab I.D. H000078 Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: (C) COOL OTHER :	
Date: 8/16 Time: 5:16 Date: 8/16 Time:		RECEIVED BY: Medaigary RECEIVED BY:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 0.4 Corrected Temp. °C: -0.12 Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: SKC (Initials)	
Relinquished By: Joe Quisenberry Relinquished By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS: Joe Q / Bruce	
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.		Turndown Time: Thermometer ID #113 Correction Factor -0.5°C Standard <input checked="" type="checkbox"/> RUSH Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	



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: Apacur
 Project Manager: BRUCE B.
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: _____
 Project Location: Loxo Hills water trunk line
 Sampler Name: See Dusselder Jr
 P.O. #: _____ Company: _____
 Attn: _____ Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING	DATE	TIME	CL	EXT TPH	BTEX
		(G)RAP	OR (C)OMP.								
<u>H330078</u>	<u>SP6031</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GROUNDWATER			<u>8/11/22</u>	<u>3:35</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				WASTEWATER							
				SOIL							
				OIL							
				SLUDGE							
				OTHER :							
				ACID/BASE:							
				ICE / COOL							
				OTHER :							

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Relinquished By: [Signature] Date: 8/11/22 Time: 0809
 Received By: [Signature] Date: _____ Time: _____
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS: You / Bruce

Delivered By: (Circle One) Observed Temp. °C: 0.42 Sample Condition: Intact Cool Yes No
 Corrected Temp. °C: -0.12 Checked By: [Signature] (Initials)
 Turnaround Time: _____ Standard Rush
 Thermometer ID #13 Bacteria (only) Sample Condition: Intact Cool Yes No
 Correction Factor -0.5°C Corrected Temp. °C: _____

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

May 19, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LOCO HILLS WATER TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 05/17/22 16:12.

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".

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:	05/17/2022	Sampling Date:	05/17/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SOUTH HORIZONTAL (H222098-01)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	3.84	
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85	
Total BTEX	<0.300	0.300	05/18/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	234	117	200	6.50	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	215	108	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 126 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/17/2022	Sampling Date:	05/17/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: EAST HORIZONTAL (H222098-02)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	3.84	
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85	
Total BTEX	<0.300	0.300	05/18/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	214	107	200	4.44	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	223	111	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 128 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache Project Manager: Bruce R.		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: NM Zip: 88240 Project #: _____ Project Owner: _____ Project Location: Low Hills water trench line Project Name: _____ Sampler Name: Joe Quisenberry	
Address: _____ City: Hobbs State: NM Zip: 88240 Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____		BILL TO ANALYSIS REQUEST	
Lab I.D. H22008 Sample I.D. South Horizontal East Horizontal		MATRIX (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE TIME 5/17 3:04 5/17 3:06 CF EX-TRH BTEX	
PLEASE NOTE: Liability and Damages, Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		RECEIVED BY: Spot Riquery DATE: 5/17 TIME: 11:12 RECEIVED BY: _____ DATE: _____ TIME: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C 14.0 Corrected Temp. °C 0.92		CHECKED BY: (Initials) SR Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C _____	
Reinstigated By: _____ Reinstigated Date: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: Joe @ Bruce	

Incident ID	NAPP2213629900
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: 8/11/2022
 email: larry.baker@apachecorp.com Telephone: 432-215-2284

OCD Only

Received by: Robert Hamlet Date: 11/22/2022

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: Robert Hamlet Date: 11/22/2022

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 133087

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 133087
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance for 400 ft2 floor confirmation samples is approved. 5-point confirmation wall samples need to be collected every 200 ft2. The work will need to occur in 90 days after the work plan has been approved.	11/22/2022