



October 24, 2020

Mr. Bradford Billings
State of New Mexico Oil Conservation Division
1220 South St Francis Drive
Santa Fe, NM 87505

RE: 2RP-2088 Lee Federal Battery

Mr. Billings,

In compliance with 19.15.29.15(B) NMAC and the agreement submitted by Apache Corporation on November 8, 2018, Apache Corporation is submitting information related to closure for the release occurring November 19, 2013. Apache is respectfully submitting the closure report based on remediation and studies occurring in 2020 that demonstrate the site meeting the requirements of the agency. Unless further information is requested by NMOCD, Apache Corporation considers this release closed.

If there are any questions, please feel free to contact me by telephone at 432-631-6982 or by e-mail at larry.baker@apachecorp.com.

Sincerely,

A handwritten signature in black ink that reads "Larry Baker". The signature is written in a cursive, flowing style.

Larry Baker
Environmental Technician SR.
Apache Corporation

Attachment: Closure Report Dated October 24, 2020



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

October 24, 2020

Re: Lee Federal Battery
Case # 2RP-2088

On 11/19/2013 a release occurred due to during the process of repairing a dump valve all wells were switched to one FWKO which pressured up and the fluid released from the man way gasket. The release (GPS: 32.823102, -103.897526) is located east of Loco Hills, New Mexico in unit letter E section 20 township 17S range 31E. It is common knowledge that township 17S range 31E has no groundwater.

The pasture area of the release was excavated and backfilled in 2014. A new lined facility was constructed west of the original battery and over the pasture area of the release. On 9/24/2020 Apache Corporation conducted delineation activities in the area of the original battery utilizing a hand auger. 6 sample points were advanced to a depth of 2 feet and 3 horizontal 5 point surface composite samples were collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results for TPH at SP 1 were above table one standards for releases greater than 100 feet to groundwater.

On 10/8/2020 the area around SP 1 was excavated to a depth of 1 foot. Final 5 point bottom and wall samples were collected not to exceed 200 square feet. All excavated material (12 yards) was hauled to an OCD approved disposal facility. The excavation was backfilled with clean imported caliche to ground surface.

On 10/21/2020 further delineation activities were conducted due to evidence from 2014 that another area was impacted near the storage tanks. 3 sample points were advanced to a depth of 2 feet and 2 horizontal 5 point surface composite samples were collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for chloride, TPH, and BTEX.

Apache Corporation has completed remediation to below table one standards and respectfully request that event 2RP-2088 be closed.

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

Submitted by;

Bruce Baker

Environmental Technician
larry.baker@apachecorp.com
Cell# 432-631-6982

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?	<u>None</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 not 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: <i>Each of the following items must be included in the report.</i>
<input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
<input type="checkbox"/> Field data
<input checked="" type="checkbox"/> Data table of soil contaminant concentration data
<input checked="" type="checkbox"/> Depth to water determination
<input checked="" type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
<input checked="" type="checkbox"/> Boring or excavation logs
<input checked="" type="checkbox"/> Photographs including date and GIS information
<input checked="" type="checkbox"/> Topographic/Aerial maps
<input checked="" type="checkbox"/> 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	
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.
 Signature: Larry Baker Date: 10/24/2020
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

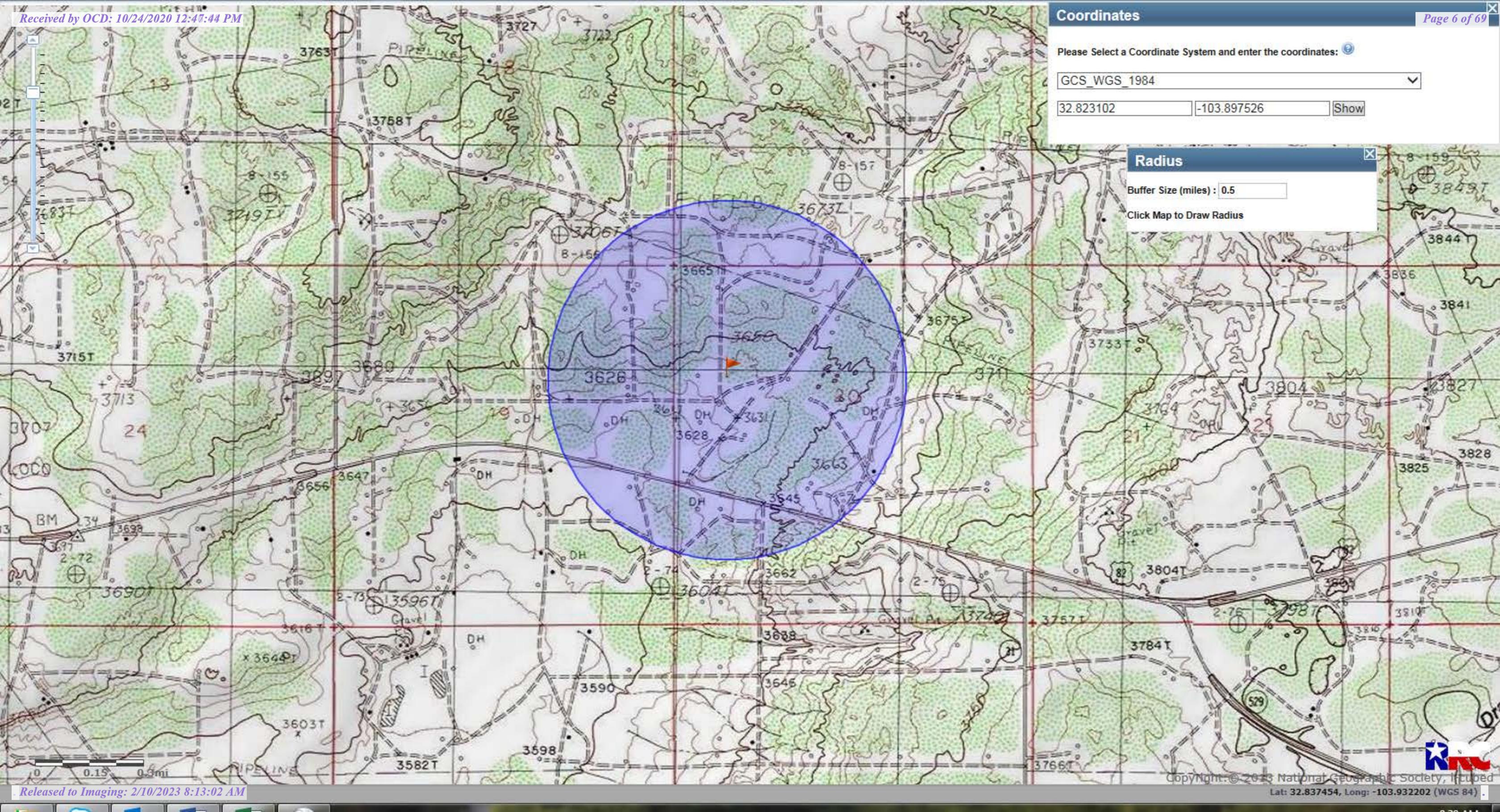
Printed Name: Larry Baker Title: Environmental Tech SR.
 Signature: Larry Baker Date: 10/24/2020
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Brittany Hall Date: 2/10/2023
 Printed Name: Brittany Hall Title: Environmental Specialist



Coordinates

Please Select a Coordinate System and enter the coordinates:

GCS_WGS_1984

32.823102 -103.897526 Show

Radius

Buffer Size (miles) : 0.5

Click Map to Draw Radius



HC 1

SP 5

SP 1

SP 3

SP 4

SP 6

HC 2

HC 3

SP 7

SP 8

HC 4

SP 9

© 2020 Google

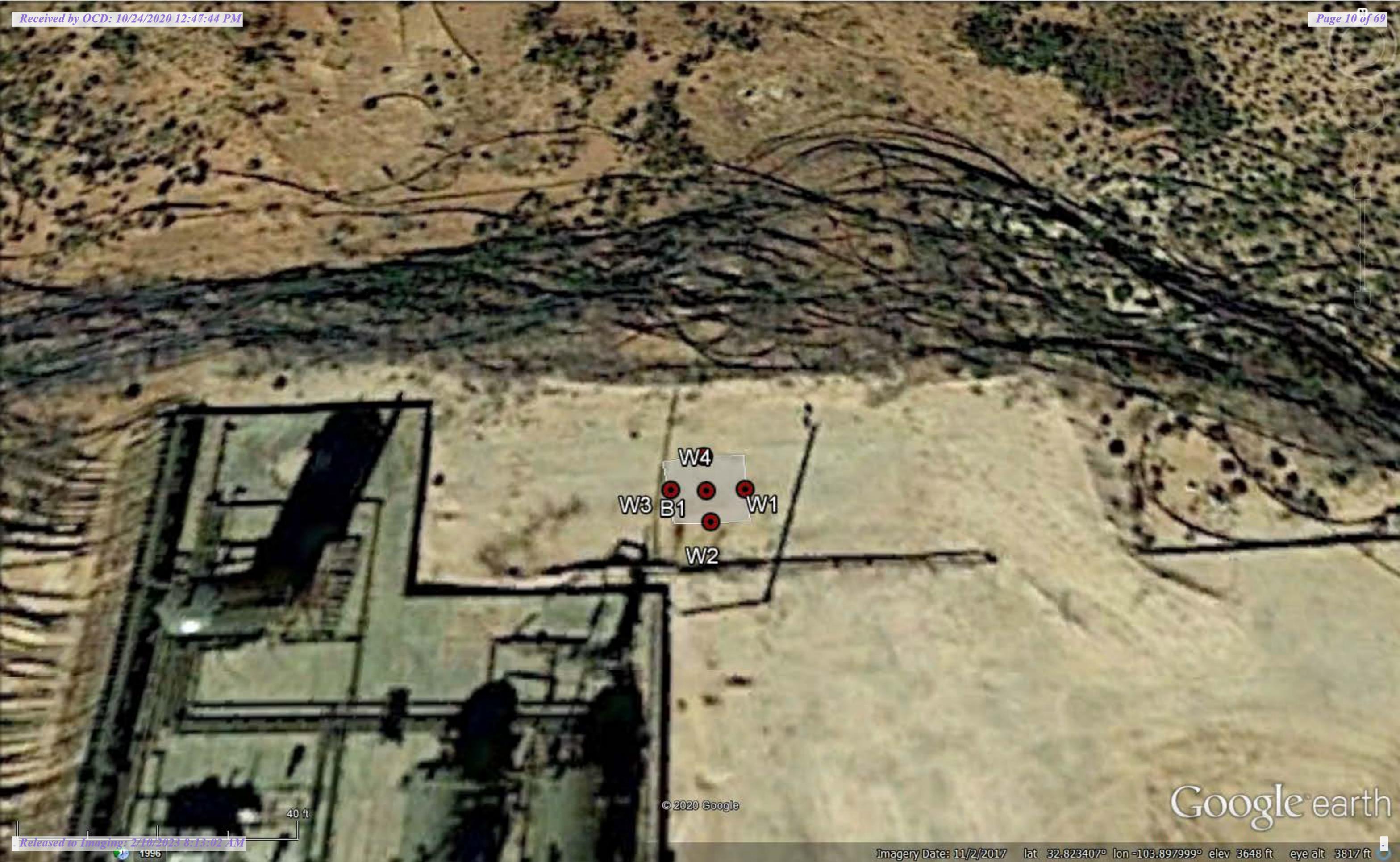
HC 5

Google earth

90 ft

2/2014





W4
W3 B1 W1
W2

40 ft

© 2020 Google

Google earth

Delineation Samples

Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
9/24/2020	SP 1	Surface	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1110	539	32.823102, -103.897526
		1'	48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/24/2020	SP 2	Surface	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.9	<10.0	32.823141, -103.897532
		1'	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21.5	11.9	
		2'	48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/24/2020	SP 3	Surface	64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	78	60.6	32.823104, -103.897406
		1'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	902	489	
		2'	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/24/2020	SP 4	Surface	368	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	38.7	34.1	32.823011, -103.897520
		1'	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	238	149	
		2'	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/24/2020	SP 5	Surface	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.5	10.2	32.823100, -103.897651
		1'	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/24/2020	SP 6	Surface	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	602	522	32.823910, -103.897479
		1'	48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	649	365	
		2'	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/21/2020	SP 7	Surface	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	26.4	<10.0	32.822734, -103.897472
		1'	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/21/2020	SP 8	Surface	560	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.822650, -103.897541
		1'	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/21/2020	SP 9	Surface	2400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.7	20.5	32.822490, -103.897535
		1'	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/24/2020	HC1	Surface	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.823167, -103.897548
9/24/2020	HC2	Surface	256	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.822892, -103.897298
9/24/2020	HC3	Surface	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	87.7	35.8	32.822794, -103.897394
10/21/2020	HC4	Surface	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.822555, -103.897268
10/21/2020	HC5	Surface	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.822397, -103.897440

Final Samples

Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
10/8/2020	B1	1'	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.823107, -103.897538
10/8/2020	W1		16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.823108, -103.897518
10/8/2020	W2		208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.823091, -103.897536
10/8/2020	W3		160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.9	<10.0	32.823107, -103.897556
10/8/2020	W4		80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21.5	11.9	32.823123, -103.897539



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

September 29, 2020

BRUCE BAKER
APACHE CORP - HOBBS
2350 W. MARLAND BLVD.
HOBBS, NM 88240

RE: LEE FEDERAL BATTERY #1

Enclosed are the results of analyses for samples received by the laboratory on 09/24/20 15:36.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 - SURFACE (H002536-01)

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	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/25/2020	ND	400	100	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	09/24/2020	ND	194	97.0	200	2.56	
DRO >C10-C28*	1110	10.0	09/24/2020	ND	177	88.5	200	11.1	
EXT DRO >C28-C36	539	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 96.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 42.2-156

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:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 - 1' (H002536-02)

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	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/25/2020	ND	400	100	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	09/24/2020	ND	194	97.0	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	177	88.5	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 120 % 44.3-144

Surrogate: 1-Chlorooctadecane 135 % 42.2-156

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:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 - 2' (H002536-03)

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	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/25/2020	ND	400	100	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 - SURFACE (H002536-04)

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	09/25/2020	ND	2.15	107	2.00	6.33		
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76		
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31		
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30		
Total BTEX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/25/2020	ND	400	100	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	09/25/2020	ND	194	97.0	200	5.85		
DRO >C10-C28*	15.9	10.0	09/25/2020	ND	197	98.4	200	7.33		
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND						

Surrogate: 1-Chlorooctane 115 % 44.3-144

Surrogate: 1-Chlorooctadecane 128 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 - 1' (H002536-05)

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	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/25/2020	ND	400	100	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	21.5	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	11.9	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 - 2' (H002536-06)

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	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 - SURFACE (H002536-07)

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	09/25/2020	ND	2.15	107	2.00	6.33		
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76		
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31		
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30		
Total BTEX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85		
DRO >C10-C28*	78.0	10.0	09/25/2020	ND	197	98.4	200	7.33		
EXT DRO >C28-C36	60.6	10.0	09/25/2020	ND						

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 - 1' (H002536-08)

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	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/25/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	194	97.0	200	5.85		
DRO >C10-C28*	902	10.0	09/28/2020	ND	197	98.4	200	7.33		
EXT DRO >C28-C36	489	10.0	09/28/2020	ND						

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 170 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 - 2' (H002536-09)

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	09/28/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/28/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/28/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/28/2020	ND	6.07	101	6.00	7.30	
Total BTEX	<0.300	0.300	09/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 - SURFACE (H002536-10)

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	09/25/2020	ND	2.15	107	2.00	6.33		
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76		
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31		
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30		
Total BTEX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85		
DRO >C10-C28*	38.7	10.0	09/25/2020	ND	197	98.4	200	7.33		
EXT DRO >C28-C36	34.1	10.0	09/25/2020	ND						

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 - 1' (H002536-11)

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	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	238	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	149	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 99.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 - 2' (H002536-12)

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	09/25/2020	ND	1.85	92.7	2.00	4.57	
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 - SURFACE (H002536-13)

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	09/25/2020	ND	1.85	92.7	2.00	4.57	
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	12.5	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	10.2	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 - 1' (H002536-14)

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	09/25/2020	ND	1.85	92.7	2.00	4.57	
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 121 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 - 2' (H002536-15)

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	09/25/2020	ND	1.85	92.7	2.00	4.57	
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 124 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 - SURFACE (H002536-16)

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	09/25/2020	ND	1.85	92.7	2.00	4.57	
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/25/2020	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	09/28/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	602	10.0	09/28/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	522	10.0	09/28/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 151 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 - 1' (H002536-17)

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	09/25/2020	ND	1.85	92.7	2.00	4.57	
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/25/2020	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	09/28/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	649	10.0	09/28/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	365	10.0	09/28/2020	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 156 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 - 2' (H002536-18)

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	09/25/2020	ND	1.85	92.7	2.00	4.57	
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/25/2020	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	09/28/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 124 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HC 1 (H002536-19)

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	09/25/2020	ND	1.85	92.7	2.00	4.57	
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/25/2020	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	09/28/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HC 2 (H002536-20)

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	09/25/2020	ND	1.85	92.7	2.00	4.57		
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17		
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02		
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80		
Total BTEX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	09/25/2020	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	09/28/2020	ND	194	97.0	200	5.85		
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	197	98.4	200	7.33		
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND						

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HC 3 (H002536-21)

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	09/25/2020	ND	1.85	92.7	2.00	4.57	
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/25/2020	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	09/28/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	87.7	10.0	09/28/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	35.8	10.0	09/28/2020	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 42.2-156

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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Apache
 Project Manager: Larry Baker
 Address:
 City: State: Zip:
 Phone #: Fax #:
 Project #:
 Project Name: Lee Federal Battery #1
 Project Location: Lee Federal Battery #1
 Sampler Name: Caleb Pipher
 P.O. #: Company: Apache
 Attn: Larry Baker
 Address: City: State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	Chlorides	Btex	Gro	Dro	EXT TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :							
<u>HD02536</u>	<u>SP1-Surf</u>	<u>G</u>	<u>1</u>			<u>X</u>							<u>9/24/2020</u>	<u>9:27</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
	<u>SP1-1'</u>		<u>1</u>			<u>X</u>							<u>9/24/2020</u>	<u>9:32</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
	<u>SP1-2'</u>		<u>1</u>			<u>X</u>							<u>9/24/2020</u>	<u>9:35</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
	<u>SP2-Surf</u>		<u>1</u>			<u>X</u>							<u>9/24/2020</u>	<u>9:40</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
	<u>SP2-4'</u>		<u>1</u>			<u>X</u>							<u>9/24/2020</u>	<u>9:42</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
	<u>SP2-2'</u>		<u>1</u>			<u>X</u>							<u>9/24/2020</u>	<u>9:45</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
	<u>SP2-Surf</u>		<u>1</u>			<u>X</u>							<u>9/24/2020</u>	<u>9:51</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
	<u>SP3-1'</u>		<u>1</u>			<u>X</u>							<u>9/24/2020</u>	<u>9:55</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
	<u>SP3-2'</u>		<u>1</u>			<u>X</u>							<u>9/24/2020</u>	<u>9:59</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
	<u>SP1-Surf</u>		<u>1</u>			<u>X</u>							<u>10:10</u>	<u>10:10</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

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Relinquished By: Caleb Pipher Date: 9/24/2020
 Received By: Jessica Adams Date: 9/24/2020
 Reinstated By: _____ Date: _____
 Delivered By: (Circle One) Observed Temp. °C: 29
 Corrected Temp. °C: _____
 Sample Condition: Cool Intact
 Yes No
 Checked By: JP
 Turnaround Time: _____ Standard Rush
 Bacteria (only) Cool Intact
 Yes No
 Sample Condition: _____ Observed Temp. °C: _____
 Corrected Temp. °C: _____
 Remarks: Hand to Larry Baker @ lpbaker@cp.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2013

Company Name: *APACHE*
 Project Manager: *Larry Baker*
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: *Lee Federal Battery #1*
 Project Location: *Lee Federal Battery #1*
 Sampler Name: *Aleeb Pickler*
 P.O. #: _____ Company: *APACHE*
 Attn: *Larry Baker*
 Address: _____ City: _____
 State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV			DATE	TIME	SAMPLING	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :				
<i>HP002536</i>																
	<i>SP4-11</i>	<i>G</i>											<i>9/24/20</i>	<i>10:12</i>		<i>Chlorides</i>
	<i>SP4-21</i>													<i>10:14</i>		<i>Btex</i>
	<i>SP5-Surf</i>													<i>10:23</i>		<i>Geo</i>
	<i>SP5-11</i>													<i>10:26</i>		<i>Dro</i>
	<i>SP5-21</i>													<i>10:29</i>		<i>Ext TPH</i>
	<i>SP6-Surf</i>													<i>10:43</i>		
	<i>SP6-11</i>													<i>10:46</i>		
	<i>SP6-21</i>													<i>10:49</i>		
	<i>HC1</i>													<i>11:41</i>		
	<i>HC2</i>													<i>12:12</i>		

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Relinquished By: *Aleeb Pickler*
 Date: *9/24/20*
 Time: *3:36*
 Received By: *Sumary Alkhatib*
 Date: _____
 Time: _____

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

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



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

306

BILL TO ANALYSIS REQUEST

Company Name: Arche
 Project Manager: Larry Baker
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: Lee Federal Battery #1
 Project Location: Lee Federal Battery #1
 Sampler Name: Caleb Pickett
 P.O. #: _____ Company: Arche
 Attn: Larry Baker
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<u>H000536</u>	<u>21 HC3</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<u>9/24/2020</u>	<u>1:32</u>	<u>X</u> <u>Merides</u>
												<u>X</u> <u>Btex</u>
												<u>X</u> <u>GrO</u>
												<u>X</u> <u>Dro</u>
												<u>X</u> <u>EXT TPH</u>

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Relinquished By: Caleb Pickett
 Date: 9/24/2020
 Time: 3:36
 Received By: Amara & Kelly
 Date: _____
 Time: _____

Delivered By: (Circle One) Observed Temp. °C 29
 Corrected Temp. °C _____
 Sampler - UPS - Bus - Other: _____
 Sample Condition: Cool Intact
 Yes No
 CHECKED BY: (Initials) TP
 Turnaround Time: Standard Rush
 Bacteria (only) Cool Intact Sample Condition
 Yes No Yes No
 Thermometer ID #113 _____
 Correction Factor None _____
 Observed Temp. °C _____
 Corrected Temp. °C _____

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

October 09, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LEE FEDERAL

Enclosed are the results of analyses for samples received by the laboratory on 10/08/20 15:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2020	Sampling Date:	10/08/2020
Reported:	10/09/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 1 @ 1' (H002685-01)

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	10/08/2020	ND	1.97	98.5	2.00	0.824	
Toluene*	<0.050	0.050	10/08/2020	ND	2.00	100	2.00	2.09	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.92	95.9	2.00	1.83	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.58	93.0	6.00	0.485	
Total BTEX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2020	ND	203	101	200	5.93	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 118 % 44.3-144

Surrogate: 1-Chlorooctadecane 130 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2020	Sampling Date:	10/08/2020
Reported:	10/09/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 1 (H002685-02)

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	10/08/2020	ND	1.97	98.5	2.00	0.824	
Toluene*	<0.050	0.050	10/08/2020	ND	2.00	100	2.00	2.09	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.92	95.9	2.00	1.83	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.58	93.0	6.00	0.485	
Total BTEX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2020	ND	203	101	200	5.93	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 118 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2020	Sampling Date:	10/08/2020
Reported:	10/09/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 2 (H002685-03)

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	10/08/2020	ND	1.97	98.5	2.00	0.824	
Toluene*	<0.050	0.050	10/08/2020	ND	2.00	100	2.00	2.09	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.92	95.9	2.00	1.83	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.58	93.0	6.00	0.485	
Total BTEX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/09/2020	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	10/09/2020	ND	203	101	200	5.93	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 127 % 44.3-144

Surrogate: 1-Chlorooctadecane 136 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2020	Sampling Date:	10/08/2020
Reported:	10/09/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 3 (H002685-04)

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	10/08/2020	ND	1.97	98.5	2.00	0.824	
Toluene*	<0.050	0.050	10/08/2020	ND	2.00	100	2.00	2.09	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.92	95.9	2.00	1.83	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.58	93.0	6.00	0.485	
Total BTEX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/09/2020	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	10/09/2020	ND	203	101	200	5.93	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 124 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2020	Sampling Date:	10/08/2020
Reported:	10/09/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 4 (H002685-05)

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	10/08/2020	ND	1.97	98.5	2.00	0.824	
Toluene*	<0.050	0.050	10/08/2020	ND	2.00	100	2.00	2.09	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.92	95.9	2.00	1.83	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.58	93.0	6.00	0.485	
Total BTEX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/09/2020	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	10/09/2020	ND	203	101	200	5.93	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 125 % 44.3-144

Surrogate: 1-Chlorooctadecane 138 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Apache Corporation</u> Project Manager: <u>Russ Baker</u>		P.O. #: Company: Attn: Address: City: State: Zip:	
Address: City: State: Zip:		Phone #: Fax #: Project Owner:	
Project Name: <u>Lee FEDERAL</u> Project Location: <u>Lee FEDERAL</u>		State: Zip:	
Sampler Name: <u>Jeff Brun</u>		Phone #: Fax #:	
FOR LAB USE ONLY			
Lab I.D. <u>AD021685</u>	Sample I.D.	(G)RAB OR (C)OMP.	
		# CONTAINERS	
1 2 3 4 5	B1 W1 W2 W3 W4	GROUNDWATER	
		WASTEWATER	
		SOIL	
		OIL	
		SLUDGE	
		OTHER:	
		ACID/BASE: ICE / COOL OTHER:	
DATE		TIME	
10/8/20		1008	
10/12		1012	
10/14		1014	
10/16		1016	
CL		BTEX	
EXT. TPH		Yes <input type="checkbox"/> No <input type="checkbox"/>	
Add'l Phone #: Add'l Fax #:		REMARKS: <u>Rush Samples Please</u>	

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Relinquished By: Jeff Brun
 Date: 10/8/20
 Time: 3:15
 Received By: Jamara Delatorre
 Date: _____
 Time: _____

Delivered By: (Circle One) 21c #113
 Sampler - UPS - Bus - Other:
 Sample Condition: Cool Intact
 Checked By: JD



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

October 22, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LEE FEDERAL

Enclosed are the results of analyses for samples received by the laboratory on 10/21/20 16:27.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/21/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ SURFACE (H002812-01)

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	10/22/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26	
Total BTEX	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/22/2020	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	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	26.4	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 131 % 44.3-144

Surrogate: 1-Chlorooctadecane 130 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/21/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 1' (H002812-02)

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	10/22/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26	
Total BTEX	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/22/2020	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	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 137 % 44.3-144

Surrogate: 1-Chlorooctadecane 136 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/21/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 2' (H002812-03)

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	10/22/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26	
Total BTEX	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/22/2020	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	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 123 % 44.3-144

Surrogate: 1-Chlorooctadecane 121 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/21/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ SURFACE (H002812-04)

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	10/22/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26	
Total BTEX	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/22/2020	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	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 135 % 44.3-144

Surrogate: 1-Chlorooctadecane 133 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/21/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ 1' (H002812-05)

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	10/22/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26	
Total BTEX	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/22/2020	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	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 138 % 44.3-144

Surrogate: 1-Chlorooctadecane 136 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/21/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ 2' (H002812-06)

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	10/22/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26	
Total BTEX	<0.300	0.300	10/22/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/22/2020	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	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 131 % 44.3-144

Surrogate: 1-Chlorooctadecane 132 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/21/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 9 @ SURFACE (H002812-07)

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	10/22/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26	
Total BTEX	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	10/22/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	193	96.6	200	2.58		
DRO >C10-C28*	30.7	10.0	10/22/2020	ND	198	99.0	200	3.47		
EXT DRO >C28-C36	20.5	10.0	10/22/2020	ND						

Surrogate: 1-Chlorooctane 145 % 44.3-144

Surrogate: 1-Chlorooctadecane 163 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/21/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 9 @ 1' (H002812-08)

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	10/22/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26	
Total BTEX	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/22/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	193	96.6	200	2.58		
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	198	99.0	200	3.47		
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND						

Surrogate: 1-Chlorooctane 144 % 44.3-144

Surrogate: 1-Chlorooctadecane 162 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/21/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 9 @ 2' (H002812-09)

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	10/22/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26	
Total BTEX	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/22/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	193	96.6	200	2.58		
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	198	99.0	200	3.47		
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND						

Surrogate: 1-Chlorooctane 143 % 44.3-144

Surrogate: 1-Chlorooctadecane 159 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/21/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HC 4 (H002812-10)

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	10/22/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26	
Total BTEX	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/22/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	193	96.6	200	2.58	
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	198	99.0	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 139 % 44.3-144

Surrogate: 1-Chlorooctadecane 156 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/21/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HC 5 (H002812-11)

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	10/22/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26	
Total BTEX	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/22/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	193	96.6	200	2.58		
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	198	99.0	200	3.47		
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND						

Surrogate: 1-Chlorooctane 145 % 44.3-144

Surrogate: 1-Chlorooctadecane 162 % 42.2-156

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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

BILL TO

ANALYSIS REQUEST

Company Name: **APACHE COLLABORATION**
 Project Manager: **Bruce Baker**
 Address:
 City: State: Zip:
 Phone #: Fax #:
 Project #: Project Owner:
 Project Name: **LEE FEDERAL**
 Project Location: **LEE FEDERAL**
 Sampler Name: **LEE Brown**
 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	CL-	BTEX	EXT. TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H002812	1 SP7 @ Surface	6	6								10/21/20	1500			
	2 SP7 @ 1'	6	6								10/21/20	1502			
	3 SP7 @ 2'	6	6								10/21/20	1504			
	4 SP8 @ Surface	6	6								10/21/20	1506			
	5 SP8 @ 1'	6	6								10/21/20	1508			
	6 SP8 @ 2'	6	6								10/21/20	1510			
	7 SP9 @ Surface	6	6								10/21/20	1512			
	8 SP9 @ 1'	6	6								10/21/20	1514			
	9 SP9 @ 2'	6	6								10/21/20	1516			
	10 AIC 4	6	6								10/21/20	1518			

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Relinquished By: **LEE Brown**
 Date: **10/21/20**
 Received By: **Jamara White**
 Date: **10/27**
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS:

Delivered By: (Circle One) Observed Temp. °C **4.8**
 Sampler - UPS - Bus - Other: Corrected Temp. °C
 Sample Condition: Cool Intact
 Checked By: (Initials) **TD**
 Turnaround Time: Standard Rush
 Thermometer ID # **TD 11/24/20**
 Correction Factor **0.00** # **113**
 Bacteria (only) Sample Condition: Cool Intact
 Corrected Temp. °C

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Apache Corporation</i>		P.O. #:		BILL TO		ANALYSIS REQUEST					
Project Manager: <i>Raul Ratu</i>		Company:									
Address:		Attn:									
City:		State:		Zip:							
Phone #:		Fax #:		Address:							
Project #:		Project Owner:		City:							
Project Name: <i>LEE FEDERAL</i>		State:		Zip:							
Project Location: <i>LEE FEDERAL</i>		Phone #:		Fax #:							
Sampler Name: <i>Jeff Brun</i>		FOR LAB USE ONLY									
Lab I.D. <i>H400 2812</i>		Sample I.D.									
II <i>HCS</i>		(G)RAB OR (C)OMP.		<i>G</i>							
		# CONTAINERS									
		GROUNDWATER									
		WASTEWATER									
		SOIL		<input checked="" type="checkbox"/>							
		OIL									
		SLUDGE									
		OTHER :									
		ACID/BASE:									
		ICE / COOL									
		OTHER :									
		DATE		<i>10/21/20</i>							
		TIME		<i>1520</i>							
		✓		<i>CL</i>							
		✓		<i>BTEX</i>							
		✓		<i>EXT. TPH</i>							

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Relinquished By: *Jeff Brun* Date: *10/21/20* Received By: *Jawara Alabazyr* Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS:

Delivered By: (Circle One) Observed Temp. °C *4.8* Sample Condition Cool Intact Bacteria (only) Sample Condition Cool Intact Yes No Yes No No No Corrected Temp. °C
 Sampler - UPS - Bus - Other: Corrected Temp. °C

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



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

March 07, 2014

BRUCE BAKER
APACHE - EUNICE
P. O. BOX 1849
EUNICE, NM 88231

RE: LEE FEDERAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/06/14 10:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 "Mike Snyder".

Mike Snyder
Organic Supervisor



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

Analytical Results For:

APACHE - EUNICE
 BRUCE BAKER
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

Received:	03/06/2014	Sampling Date:	03/05/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	LEE FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T17S R31E		

Sample ID: NORTH WALL (H400686-01)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2014	ND	2.09	105	2.00	1.05	
Toluene*	<0.050	0.050	03/07/2014	ND	2.10	105	2.00	4.70	
Ethylbenzene*	<0.050	0.050	03/07/2014	ND	2.00	99.8	2.00	4.92	
Total Xylenes*	<0.150	0.150	03/07/2014	ND	6.05	101	6.00	5.87	
Total BTEX	<0.300	0.300	03/07/2014	ND					

Surrogate: Dibromofluoromethane 93.3 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	03/07/2014	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	03/07/2014	ND	194	97.1	200	8.76	
DRO >C10-C28	<10.0	10.0	03/07/2014	ND	232	116	200	7.85	

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Mike Snyder, Organic Supervisor



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Analytical Results For:

APACHE - EUNICE
 BRUCE BAKER
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

Received:	03/06/2014	Sampling Date:	03/05/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	LEE FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T17S R31E		

Sample ID: EAST WALL (H400686-02)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2014	ND	2.09	105	2.00	1.05		
Toluene*	<0.050	0.050	03/07/2014	ND	2.10	105	2.00	4.70		
Ethylbenzene*	<0.050	0.050	03/07/2014	ND	2.00	99.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	03/07/2014	ND	6.05	101	6.00	5.87		
Total BTEX	<0.300	0.300	03/07/2014	ND						

Surrogate: Dibromofluoromethane 97.8 % 61.3-142
 Surrogate: Toluene-d8 106 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	03/07/2014	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	03/07/2014	ND	194	97.1	200	8.76		
DRO >C10-C28	<10.0	10.0	03/07/2014	ND	232	116	200	7.85		

Surrogate: 1-Chlorooctane 102 % 65.2-140
 Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Analytical Results For:

APACHE - EUNICE
 BRUCE BAKER
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

Received:	03/06/2014	Sampling Date:	03/05/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	LEE FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T17S R31E		

Sample ID: SOUTH WALL (H400686-03)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2014	ND	2.09	105	2.00	1.05		
Toluene*	<0.050	0.050	03/07/2014	ND	2.10	105	2.00	4.70		
Ethylbenzene*	<0.050	0.050	03/07/2014	ND	2.00	99.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	03/07/2014	ND	6.05	101	6.00	5.87		
Total BTEX	<0.300	0.300	03/07/2014	ND						

Surrogate: Dibromofluoromethane 94.4 % 61.3-142
 Surrogate: Toluene-d8 107 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	03/07/2014	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	03/07/2014	ND	194	97.1	200	8.76		
DRO >C10-C28	<10.0	10.0	03/07/2014	ND	232	116	200	7.85		

Surrogate: 1-Chlorooctane 105 % 65.2-140
 Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Analytical Results For:

APACHE - EUNICE
 BRUCE BAKER
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

Received:	03/06/2014	Sampling Date:	03/05/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	LEE FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T17S R31E		

Sample ID: BOTTOM (H400686-04)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2014	ND	2.09	105	2.00	1.05		
Toluene*	<0.050	0.050	03/07/2014	ND	2.10	105	2.00	4.70		
Ethylbenzene*	<0.050	0.050	03/07/2014	ND	2.00	99.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	03/07/2014	ND	6.05	101	6.00	5.87		
Total BTEX	<0.300	0.300	03/07/2014	ND						

Surrogate: Dibromofluoromethane 95.6 % 61.3-142
 Surrogate: Toluene-d8 104 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	03/07/2014	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	03/07/2014	ND	194	97.1	200	8.76		
DRO >C10-C28	<10.0	10.0	03/07/2014	ND	232	116	200	7.85		

Surrogate: 1-Chlorooctane 99.8 % 65.2-140
 Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Notes and Definitions

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

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CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

* DUST *

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache **BILL TO** ANALYSIS REQUEST

Project Manager: Bruce Baker P.O. #:

Address: Larry Baker@apachecorp.com Company:

City: Hobbs State: NM Zip: 88240 Attn:

Phone #: Fax #: Address:

Project #: Project Owner: City: Zip:

Project Name: Lee Edward TANK Battery State: Phone #:

Project Location: TNS 231E Phone #:

Sampler Name: AMMOX GROVES Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:										
1400666	N WALL		1			✓						8-5-14	2:30	✓	✓	✓				
	2 WOOD		2			✓						8-5-14	2:45	✓	✓	✓				
	3 WOOD		3			✓						8-5-14	2:40	✓	✓	✓				
	4 BOTTOM		4			✓						8-5-14	2:35	✓	✓	✓				

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Relinquished By: Larry Baker Date: 8/6/14 Received By: Joel Mendon

Relinquished By: _____ Date: _____ Received By: _____

Delivered By: (Circle One) UPS Bus Other: _____

Sample Condition: Cool Intact Yes No Yes No No

CHECKED BY: _____ (Initials)

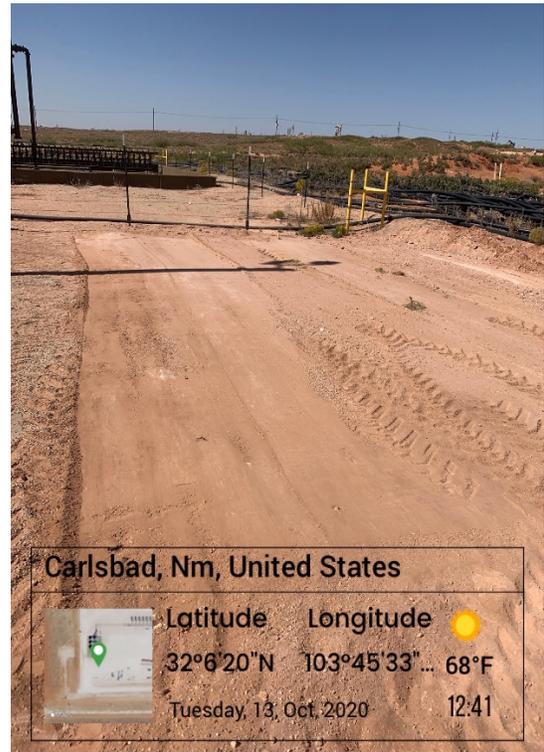
Phone Result: Yes No No Yes No

Adit'l Phone #: _____ Adit'l Fax #: _____

REMARKS: email results knorman@rice-ecs.com hconder@rice-ecs.com; Lweihheimer@rice-ecs.com; kiones@riceswd.com; Lpena@riceswd.com; sedwards@rice-ecs.com; agroves@rice-ecs.com

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54



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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 10835

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 10835
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Site will need to meet the requirements of 19.15.29.13 NMAC upon plugging and abandonment.	2/10/2023