



June 10, 2021

VIA EMAIL: Larry.Baker@apachecorp.com

Mr. Bruce Baker
Sr. Environmental Technician
Apache Corporation.
2350 W. Marland Blvd.
Hobbs, New Mexico

Re: Administrative Summary and Path Forward for LM Lambert, Unit B (NW/4, NE/4), Section 6, Township 20 South Range 37 East, Lea County, New Mexico

Dear Mr. Baker,

Larson & Associates, Inc. (LAI) submits this summary and path forward to Apache Corporation (Apache) for the LM Lambert (Site) located in Unit B (NW/4, NE/4), Section 6, Township 20 South Range 37 East, in Lea County, New Mexico.

Physical Setting

- The surface elevation is approximately 3,559 feet above mean sea level (msl).
- The topography slopes gently to southeast.
- No water features are located within 1,000 feet of the Site.
- Karst data provided by the USGS defines the site as "Low Risk" potential.
- Soil is designated as "Pyote and Maljamar Fine Sands", consisting of 0 to 30 inches of fine sand, underlain by 30 to 60 inches of fine sandy loam.
- The surface geology consists of windblown sand (Holocene to lower Pleistocene).
- Groundwater occurs at approximately 34.6 feet below ground surface (bgs) based on depth to groundwater measured approximately 72 hours after installing a boring (SP-2) on May 28, 2021.

Attachment A presents the boring log for SP-2.

Background

On November 4, 2020, Apache personnel collected surface samples from four (4) locations (H1 through H4). Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX), total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C10), diesel range organic (<C10-C28), and oil range organics (<C28-C36), and chloride by EPA SW-846 Methods 8021B, 8015M, SM4500, respectively. The laboratory reported concentrations of benzene, BTEX, TPH and chloride below the New Mexico Oil Conservation Division (NMOCD) closure criteria (Table 1 19.15.29 NMAC) of 10 milligrams per kilogram (mg/Kg), 50 mg/Kg, 100 mg/Kg, and 600 mg/Kg, respectively.

507 North Marienfeld, Suite 202 ♦ Midland, Texas 79701 ♦ Ph. (432) 687-0901 ♦ Fax (432) 687-0456

Mr. Larry Baker
June 10, 2021
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On November 3, 2020, Apache contracted Talon LPE, Hobbs, New Mexico, to collect soil samples from a boring (SP-1) location SP-1 near the center of the spill utilizing a truck-mounted hollow stem auger rig and split spoon sampler. Soil samples were collected at ground surface and 1-foot increments (i.e., 1, 2, 3, 4 feet, etc.) to approximately thirteen (13) feet bgs and every five (5) feet (i.e., 15, 20, 25 feet, etc.) to about 35 feet bgs. Cardinal analyzed the samples and reported benzene and BTEX below the OCD closure criteria (Table 1 19.15.29 NMAC) of 10 mg/Kg and 50 mg/Kg. TPH was reported above the NMOCD closure criteria of 100 mg/Kg in the following samples:

Sample ID	Depth (feet)	TPH (mg/Kg)
SP-1	1	737
SP-1	2	207.4
SP-1	3	178.3
SP-1	4	173.3
SP-1	5	311
SP-1	7	149.4
SP-1	8	361
SP-1	9	8,130
SP-1	10	5,093
SP-1	11	4,418
SP-1	12	2,423
SP-1	13	7,267
SP-1	15	226.6

Chloride was reported above the NMOCD closure criteria (600 mg/Kg) in the following sample:

Sample ID	Depth (feet)	Chloride (mg/Kg)
SP-1	Surface	5,120

On May 26, 2021, Scarborough Drilling, Inc. (SDI), under the supervision of LAI personnel, utilized an air rotary drilling rig to collect soil samples from two (2) locations (SP-2 and SP-3) located near the north and south end of the spill area, respectively. Samples from SP-2 and SP-3 were collected at one (1) foot and about every five (5) feet thereafter (i.e., 5, 10 feet, etc.) to approximately thirty-five (35) feet bgs. Cardinal analyzed the samples for BTEX, TPH, and chloride by EPA SW-846 Methods 8021B, 8015M, SM4500, respectively, and reported benzene and BTEX concentrations in all samples collected from SP-2 and SP-3 below the NMOCD closure criteria of 10 mg/Kg and 50 mg/Kg, respectfully. TPH was reported above the NMOCD closure criteria (100 mg/Kg) in the following samples:

Sample ID	Depth (feet)	TPH (mg/Kg)
SP-2	5	6,700
SP-2	10	1,336.3
SP-2	15	306.3
SP-2	20	413.9
SP-2	25	2,719.3
SP-2	30	865.6
SP-2	35	268.5
SP-3	1	558
SP-3	10	359

Mr. Larry Baker
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SP-3	20	232.6
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Chloride was reported above the NMOCD closure criteria (600 mg/Kg) in the following samples:

Sample ID	Depth (feet)	Chloride (mg/Kg)
SP-2	1	2,080

Table 1 presents the laboratory analytical summary. Figure 2 presents an aerial map showing the sample locations. Attachment B presents the laboratory reports.

Path Forward

LAI proposes the following:

- Drill two (2) borings (SP-4 and SP-5) with an air rotary rig to approximately thirty-five (35) feet bgs at the proposed locations presented on Figure 3 to delineate the vertical and horizontal extent of the release.
- Drill and complete three (3) groundwater monitoring wells to approximately 50 feet bgs, with one well (MW-1) located hydraulically upgradient (north) of the release and two wells (MW-2 and MW-3) located hydraulically downgradient (east and south) of the release, as shown on Figure 3.
- Complete monitor wells with 30 feet of 2-inch schedule 40 PVC casing, 20 feet 0.010-inch slotted screen, and locking steel cover.
- Survey the monitor wells for elevation (ground and top of casing) by New Mexico Licensed Professional Land Surveyor.
- Develop the monitor wells and collect quarterly (4 times per year) depth to groundwater measurements and groundwater samples for laboratory analysis, including BTEX, chloride, and total dissolved solids (TDS).
- Prepare four (4) quarterly groundwater monitoring reports for submittal to the OCD.

Please contact me or Mark Larson if you have any questions or concerns.

Respectfully,
LARSON & ASSOCIATES, INC.



Mark J. Larson, P.G.
President/Sr. Hydrogeologist



Robert Nelson
Sr. Geologist

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Larry Baker Title: Environmental Tech SR.
Signature: Larry Baker Date: 6/10/2021
email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: Chad Hensley Date: 08/11/2021

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

Signature: Chad Hensley Date: 08/11/2021

Tables

Table 1
Soil Sample Analytical Data Summary
LM Lambert
Lea County, New Mexico
32° 36' 23.49" North, 103° 17' 13.77" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100			600	
SP-1	Surface	11/3/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	5,120
	1	11/3/2020	In-Situ	<0.050	<0.300	<10.0	300	437	737	320
	2	11/4/2020	In-Situ	<0.050	<0.300	<10.0	88.4	119	207.4	--
	3	11/4/2020	In-Situ	<0.050	<0.300	<10.0	88.8	89.5	178.3	--
	4	11/18/2020	In-Situ	<0.050	<0.300	<10.0	77	96.3	173.3	--
	5	11/18/2020	In-Situ	<0.050	<0.300	<10.0	150	161	311	--
	6	11/20/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	--
	7	11/20/2020	In-Situ	<0.050	<0.300	<10.0	78.9	70.5	149.4	--
	8	11/30/2020	In-Situ	<0.050	<0.300	<10.0	202	159	361	--
	9	12/3/2020	In-Situ	<0.100	16.5	940	6,170	1,020	8,130	--
	10	12/3/2020	In-Situ	<0.050	11.9	535	3,780	778	5,093	--
	11	12/3/2020	In-Situ	<0.100	22.5	564	3,190	664	4,418	--
	12	12/3/2020	In-Situ	<0.050	2.65	144	1,830	449	2,423	--
	13	12/3/2020	In-Situ	<0.100	27.1	1,080	5,250	937	7,267	--
	15	12/15/2020	In-Situ	<0.050	0.444	<10.0	204	22.6	226.6	--
	20	12/15/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	--
	25	12/15/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	--
	30	12/15/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	--
	35	12/15/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	--
H1	Suface	11/4/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16
H2	Suface	11/4/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32

Table 1
Soil Sample Analytical Data Summary
LM Lambert
Lea County, New Mexico
32° 36' 23.49" North, 103° 17' 13.77" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100			600	
H3	Surface	11/4/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32
H4	Surface	11/4/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	96
SP-2	1	5/26/2021	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	2,080
	5	5/26/2021	In-Situ	<0.050	<0.300	<50.0	4,720	1,980	6,700	448
	10	5/26/2021	In-Situ	<0.050	7.50	70.3	998	268	1,336.3	512
	15	5/26/2021	In-Situ	<0.050	<0.300	<10.0	243	63.3	306.3	64.0
	20	5/26/2021	In-Situ	<0.050	2.18	19.2	326	68.7	413.9	48.0
	25	5/26/2021	In-Situ	<0.050	2.00	70.3	2,160	489	2,719.3	64.0
	30	5/26/2021	In-Situ	<0.050	0.634	27.6	668	170	865.6	80.0
	35	5/26/2021	In-Situ	<0.050	0.533	10.4	198	60.1	268.5	80.0
SP-3	1	5/26/2021	In-Situ	<0.050	<0.300	<10.0	373	185	558	96.0
	5	5/26/2021	In-Situ	<0.050	<0.300	<10.0	47.7	36.5	84.2	80.0
	10	5/26/2021	In-Situ	<0.050	<0.300	<10.0	173	186	359	496
	15	5/26/2021	In-Situ	<0.050	<0.300	<10.0	51.0	27.5	78.5	48.0
	20	5/26/2021	In-Situ	<0.050	<0.300	<10.0	161	71.6	232.6	32.0
	25	5/26/2021	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	30	5/26/2021	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
	35	5/26/2021	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0

Notes: Analysis performed by Cardinal Laboratories (Cardinal) in Hobbs, New Mexico by EPA SW-846 8021B (BTEX), 8015M (TPH), and SM4500 (Chloride)

Depth in feet below ground surface (bgs)

mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)

--: Denotes analyte not analyzed

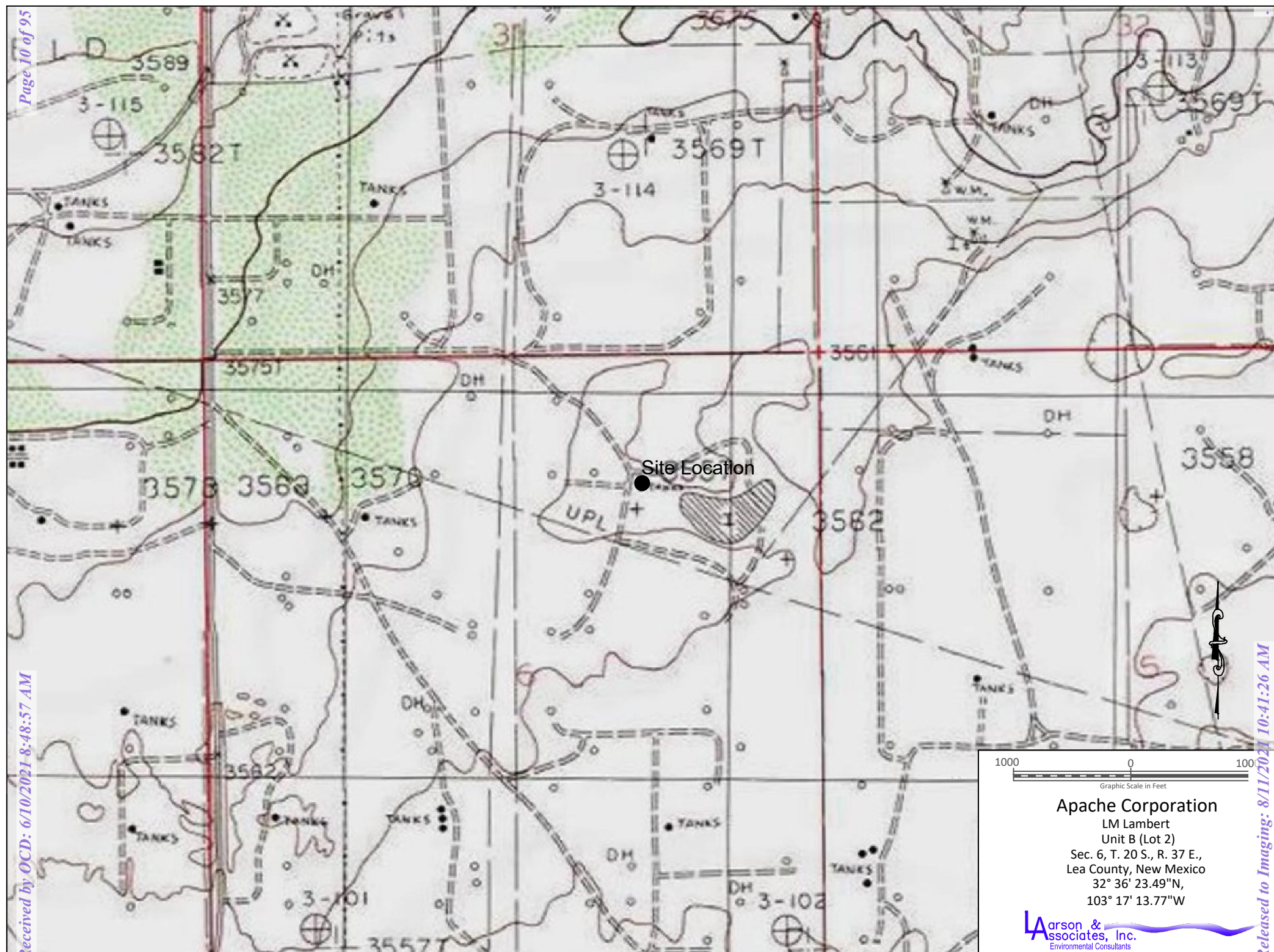
Table 1
Soil Sample Analytical Data Summary
LM Lambert
Lea County, New Mexico
32° 36' 23.49" North, 103° 17' 13.77" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50				100	600

<: denotes concentration less than analytical method reporting limit

Bold and Highlighted exceeds OCD remediation action limits

Figures



Apache Corporation
LM Lambert
Unit B (Lot 2)
Sec. 6, T. 20 S., R. 37 E.,
Lea County, New Mexico
32° 36' 23.49"N,
103° 17' 13.77"W

Larson & Associates, Inc.
Environmental Consultants

Figure 1 - Topographic Map

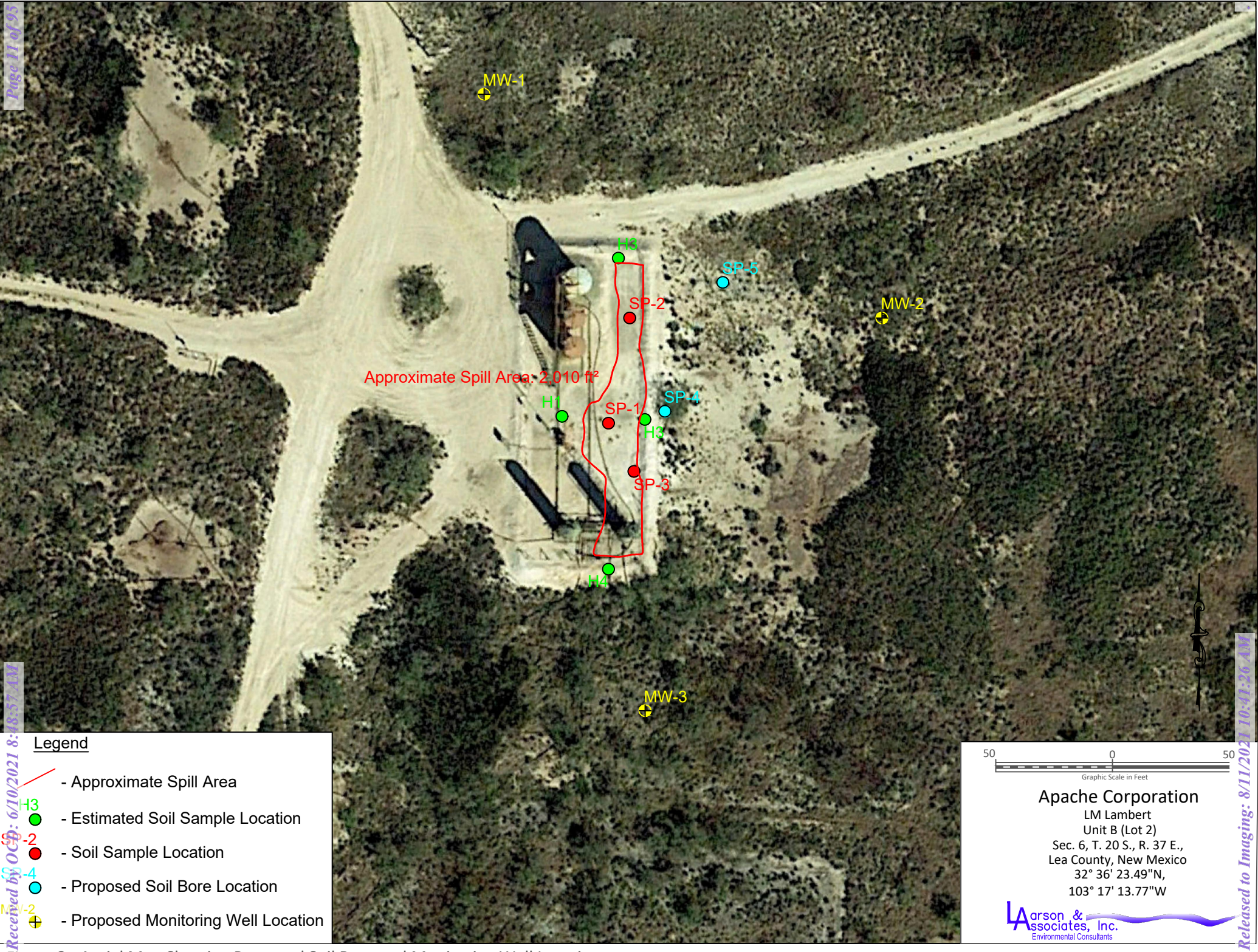


Figure 2 - Aerial Map Showing Proposed Soil Bore and Monitoring Well Locations

Appendix A

Boring Log

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 10:15 MST Finish: 10:50 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING										SAMPLE			REMARKS		
					PPM X <u>1</u>										NUMBER	PID READING	RECOVERY	DEPTH	BACKGROUND PID READING	
					2	4	6	8	10	12	14	16	18							
	0	Top Soil with Some Caliche Clasts, 5 YR 4/3, Reddish Brown																		
	5	Caliche, 7.5YR 6/3, Light Brown, Moderately Cemented																		
	10	Fine to Medium Sand, 2.5YR 7/4, Light Reddish Brown, Sub Angular to Sub Rounded, Moderately Sorted																		
	15	Caliche, 7.5 YR 6/3, Light Brown, Moderately Cemented, with Very Small Amount of Quartz Sand, Very Fine Angular Sand																		
	20	Medium to Fine Sand, 2.5 YR 7/3, Light Reddish Brown, Angular to Sub Angular, Poorly Sorted, with Some Caliche Clasts																		
	25																			
	30	Caliche, 7.5 YR 8/1, White, Moderately, Cemented, Contains a Small Amount of Very Fine Quartz Sand, Angular																		
	35	TD: 35'																		
	40																			

Depth to Water: 34.6'

JOB NUMBER : Apache/ 21-0119-02
HOLE DIAMETER : 3"
LOCATION : LM Lambert, Lea County
LAI GEOLOGIST : D. St.Germain
DRILLING CONTRACTOR : SDI
DRILLING METHOD : Air Rotary

ONE CONTINUOUS AUGER SAMPLER WATER TABLE (TIME OF BORING)
STANDARD PENETRATION TEST LABORATORY TEST LOCATION
UNDISTURBED SAMPLE PENETROMETER (TONS/ SQ. FT)
WATER TABLE (24 HRS) NR NO RECOVERY

DRILL DATE : 5/26/2021 BORING NUMBER : SP-2

Appendix B

Lab Data Collected on May 26, 2021



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

May 28, 2021

BRUCE BAKER

LARSON & ASSOCIATES, INC.

507 N. MARIENFELD, SUITE 200

MIDLAND, TX 79701

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 05/26/21 14:05.

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:

LARSON & ASSOCIATES, INC.
 BRUCE BAKER
 507 N. MARIENFELD, SUITE 200
 MIDLAND TX, 79701
 Fax To: ?

Received: 05/26/2021
 Reported: 05/28/2021
 Project Name: LM LAMBERT
 Project Number: 21-0119-02
 Project Location: APACHE CORP

Sampling Date: 05/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 2 1' (H211351-01)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76		
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71		
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21		
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40		
Total BTX	<0.300	0.300	05/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	05/27/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	<10.0	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 93.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.8 % 38.9-142

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:

LARSON & ASSOCIATES, INC.
 BRUCE BAKER
 507 N. MARIENFELD, SUITE 200
 MIDLAND TX, 79701
 Fax To: ?

Received: 05/26/2021
 Reported: 05/28/2021
 Project Name: LM LAMBERT
 Project Number: 21-0119-02
 Project Location: APACHE CORP

Sampling Date: 05/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 2 5' (H211351-02)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	0.152	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTEx	<0.300	0.300	05/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 153 % 69.9-140

Chloride, SM4500CI-B			mg/kg					Analyzed By: GM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/27/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	4720	50.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	1980	50.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 210 % 38.9-142

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:

LARSON & ASSOCIATES, INC.
 BRUCE BAKER
 507 N. MARIENFELD, SUITE 200
 MIDLAND TX, 79701
 Fax To: ?

Received: 05/26/2021
 Reported: 05/28/2021
 Project Name: LM LAMBERT
 Project Number: 21-0119-02
 Project Location: APACHE CORP

Sampling Date: 05/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 2 10' (H211351-03)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	0.336	0.050	05/27/2021	ND	2.02	101	2.00	6.71	GC-NC1
Ethylbenzene*	1.87	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	5.29	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	GC-NC1
Total BTX	7.50	0.300	05/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 141 % 69.9-140

Chloride, SM4500CI-B			mg/kg					Analyzed By: GM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	05/27/2021	ND	416	104	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	70.3	50.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	998	50.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	268	50.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 92.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 124 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

LARSON & ASSOCIATES, INC.
 BRUCE BAKER
 507 N. MARIENFELD, SUITE 200
 MIDLAND TX, 79701
 Fax To: ?

Received: 05/26/2021
 Reported: 05/28/2021
 Project Name: LM LAMBERT
 Project Number: 21-0119-02
 Project Location: APACHE CORP

Sampling Date: 05/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 2 15' (H211351-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	GC-NC1	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71		
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21		
Total Xylenes*	0.232	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40		
Total BTEX	<0.300	0.300	05/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	243	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	63.3	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 96.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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Analytical Results For:

LARSON & ASSOCIATES, INC.
 BRUCE BAKER
 507 N. MARIENFELD, SUITE 200
 MIDLAND TX, 79701
 Fax To: ?

Received: 05/26/2021
 Reported: 05/28/2021
 Project Name: LM LAMBERT
 Project Number: 21-0119-02
 Project Location: APACHE CORP

Sampling Date: 05/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 2 20' (H211351-05)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	0.089	0.050	05/27/2021	ND	2.02	101	2.00	6.71	GC-NC1
Ethylbenzene*	0.533	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	1.56	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	GC-NC1
Total BTX	2.18	0.300	05/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 149 % 69.9-140

Chloride, SM4500CI-B			mg/kg					Analyzed By: GM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/27/2021	ND	416	104	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19.2	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	326	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	68.7	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 116 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

LARSON & ASSOCIATES, INC.
 BRUCE BAKER
 507 N. MARIENFELD, SUITE 200
 MIDLAND TX, 79701
 Fax To: ?

Received: 05/26/2021
 Reported: 05/28/2021
 Project Name: LM LAMBERT
 Project Number: 21-0119-02
 Project Location: APACHE CORP

Sampling Date: 05/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 2 25' (H211351-06)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	0.075	0.050	05/27/2021	ND	2.02	101	2.00	6.71	GC-NC1
Ethylbenzene*	0.393	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	1.53	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	GC-NC1
Total BTEX	2.00	0.300	05/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 161 % 69.9-140

Chloride, SM4500Cl-B			mg/kg					Analyzed By: GM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/27/2021	ND	416	104	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	70.3	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	2160	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	489	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 139 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

LARSON & ASSOCIATES, INC.
 BRUCE BAKER
 507 N. MARIENFELD, SUITE 200
 MIDLAND TX, 79701
 Fax To: ?

Received: 05/26/2021
 Reported: 05/28/2021
 Project Name: LM LAMBERT
 Project Number: 21-0119-02
 Project Location: APACHE CORP

Sampling Date: 05/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 2 30' (H211351-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	GC-NC1
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	0.634	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTX	0.634	0.300	05/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/27/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	27.6	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	668	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	170	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 117 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

LARSON & ASSOCIATES, INC.
 BRUCE BAKER
 507 N. MARIENFELD, SUITE 200
 MIDLAND TX, 79701
 Fax To: ?

Received: 05/26/2021
 Reported: 05/28/2021
 Project Name: LM LAMBERT
 Project Number: 21-0119-02
 Project Location: APACHE CORP

Sampling Date: 05/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 2 35' (H211351-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	GC-NC1
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	0.533	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTEX	0.533	0.300	05/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/27/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.4	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	198	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	60.1	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-133

Surrogate: 1-Chlorooctadecane 108 % 38.9-142

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Analytical Results For:

LARSON & ASSOCIATES, INC.
 BRUCE BAKER
 507 N. MARIENFELD, SUITE 200
 MIDLAND TX, 79701
 Fax To: ?

Received: 05/26/2021
 Reported: 05/28/2021
 Project Name: LM LAMBERT
 Project Number: 21-0119-02
 Project Location: APACHE CORP

Sampling Date: 05/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 3 1' (H211351-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76		
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71		
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21		
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40		
Total BTEx	<0.300	0.300	05/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	373	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	185	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 117 % 38.9-142

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Analytical Results For:

LARSON & ASSOCIATES, INC.
 BRUCE BAKER
 507 N. MARIENFELD, SUITE 200
 MIDLAND TX, 79701
 Fax To: ?

Received: 05/26/2021
 Reported: 05/28/2021
 Project Name: LM LAMBERT
 Project Number: 21-0119-02
 Project Location: APACHE CORP

Sampling Date: 05/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 3 5' (H211351-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTX	<0.300	0.300	05/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	47.7	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	36.5	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 98.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

LARSON & ASSOCIATES, INC.
 BRUCE BAKER
 507 N. MARIENFELD, SUITE 200
 MIDLAND TX, 79701
 Fax To: ?

Received: 05/26/2021
 Reported: 05/28/2021
 Project Name: LM LAMBERT
 Project Number: 21-0119-02
 Project Location: APACHE CORP

Sampling Date: 05/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 3 10' (H211351-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTX	<0.300	0.300	05/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	05/27/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	173	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	186	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 96.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

LARSON & ASSOCIATES, INC.
 BRUCE BAKER
 507 N. MARIENFELD, SUITE 200
 MIDLAND TX, 79701
 Fax To: ?

Received: 05/26/2021
 Reported: 05/28/2021
 Project Name: LM LAMBERT
 Project Number: 21-0119-02
 Project Location: APACHE CORP

Sampling Date: 05/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 3 15' (H211351-12)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTX	<0.300	0.300	05/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/27/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2021	ND	208	104	200	1.61	
DRO >C10-C28*	51.0	10.0	05/27/2021	ND	221	110	200	6.11	
EXT DRO >C28-C36	27.5	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-133

Surrogate: 1-Chlorooctadecane 117 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

LARSON & ASSOCIATES, INC.
 BRUCE BAKER
 507 N. MARIENFELD, SUITE 200
 MIDLAND TX, 79701
 Fax To: ?

Received: 05/26/2021
 Reported: 05/28/2021
 Project Name: LM LAMBERT
 Project Number: 21-0119-02
 Project Location: APACHE CORP

Sampling Date: 05/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 3 20' (H211351-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTEX	<0.300	0.300	05/27/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/27/2021	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	05/27/2021	ND	208	104	200	1.61	
DRO >C10-C28*	161	10.0	05/27/2021	ND	221	110	200	6.11	
EXT DRO >C28-C36	71.6	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-133

Surrogate: 1-Chlorooctadecane 122 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

LARSON & ASSOCIATES, INC.
 BRUCE BAKER
 507 N. MARIENFELD, SUITE 200
 MIDLAND TX, 79701
 Fax To: ?

Received: 05/26/2021
 Reported: 05/28/2021
 Project Name: LM LAMBERT
 Project Number: 21-0119-02
 Project Location: APACHE CORP

Sampling Date: 05/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 3 25' (H211351-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTX	<0.300	0.300	05/27/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/27/2021	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	05/27/2021	ND	208	104	200	1.61	
DRO >C10-C28*	<10.0	10.0	05/27/2021	ND	221	110	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-133

Surrogate: 1-Chlorooctadecane 116 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

LARSON & ASSOCIATES, INC.
 BRUCE BAKER
 507 N. MARIENFELD, SUITE 200
 MIDLAND TX, 79701
 Fax To: ?

Received: 05/26/2021
 Reported: 05/28/2021
 Project Name: LM LAMBERT
 Project Number: 21-0119-02
 Project Location: APACHE CORP

Sampling Date: 05/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 3 30' (H211351-15)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76		
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71		
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21		
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40		
Total BTEX	<0.300	0.300	05/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/27/2021	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	05/27/2021	ND	208	104	200	1.61	
DRO >C10-C28*	<10.0	10.0	05/27/2021	ND	221	110	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-133

Surrogate: 1-Chlorooctadecane 113 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

LARSON & ASSOCIATES, INC.
 BRUCE BAKER
 507 N. MARIENFELD, SUITE 200
 MIDLAND TX, 79701
 Fax To: ?

Received: 05/26/2021
 Reported: 05/28/2021
 Project Name: LM LAMBERT
 Project Number: 21-0119-02
 Project Location: APACHE CORP

Sampling Date: 05/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 3 35' (H211351-16)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTEx	<0.300	0.300	05/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/27/2021	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	05/27/2021	ND	208	104	200	1.61	
DRO >C10-C28*	<10.0	10.0	05/27/2021	ND	221	110	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-133

Surrogate: 1-Chlorooctadecane 116 % 38.9-142

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

Appendix C
Apache Remediation Plan



303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

December 21, 2020

Re: LM Lambert

Case #: NRM2024463389

Background:

On 08/24/2020 a release occurred at the LM Lambert Battery due to a line failure resulting in the loss of fluid. The release (GPS: 32.60642, -103.28715) is located south of Monument, NM in unit letter B section 6 township 20S range 37E. A groundwater survey was conducted utilizing the NMOSE wells of record. The 2 nearest wells of record suggest groundwater is less than 50 feet with the shallowest well 20 feet to groundwater but water was not encountered during the soil bore to a depth of 35 feet. This suggests that groundwater is at minimum 37 feet indicated by data from the second well of record.

Beginning on 11/3/2020 through 12/3/2020 vertical delineation was conducted utilizing a backhoe to a depth of 13 feet. The surface and 1 foot samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX on 11/3/2020. Laboratory chloride results were below table one standards for release less than or equal to 50 feet to groundwater. The 2 feet to 13 feet samples were collected and submitted to a commercial laboratory for analysis of TPH and BTEX. Horizontal 5 point composite surface samples were collected not to exceed 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

On 12/15/2020 a soil bore was conducted at SP 1 was advanced in regular intervals beginning at 15 feet and advanced to a total depth of 35 feet below ground surface. All samples were collected utilizing a split spoon and submitted to a commercial laboratory for analysis for TPH and BTEX. Laboratory results were below table one standards for TPH and BTEX at a depth of 20 feet.

Remediation Plan:

Apache Corporation purposes that the top foot be excavated to a depth of 1 foot to remove the chloride contamination to below table one standards. Once the excavation is complete final 5 point bottom and wall samples will be collected not to exceed 200 square feet. Due to the release is inside an active facility within close proximity to processing equipment and the depth of contamination Apache Corporation will submit the final sample data and ask for deferment until system abandonment in the final report. All excavated soil (75 yards) will be hauled to a OCD approved disposal facility. The excavation will be backfilled with clean imported caliche. The remediation will be completed within 90 days of OCD approval of the plan.

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

Submitted by;

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>37</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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Larry Baker Title: Environmental Tech SR.
Signature: Larry Baker Date: 12/21/2020
email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Larry Baker Title: Environmental Tech SR.
Signature: *Larry Baker* Date: 12/21/2020
email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____



32.606524 -103.287159 X Q

Show search results for 32.606...

1:4513


300'

-103.280 32.603 Degrees



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 03810	4	4	1	06	20S	37E	660286	3608580* 

Driller License:	111	Driller Company:	BURKE, EDWARD B.		
Driller Name:					
Drill Start Date:	03/09/1958	Drill Finish Date:	03/09/1958	Plug Date:	
Log File Date:	03/19/1958	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	7.00	Depth Well:	86 feet	Depth Water:	37 feet

Water Bearing Stratifications:	Top	Bottom	Description
	40	68	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	42	82

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/19/20 12:04 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)						X	Y
		Q64	Q16	Q4	Sec	Tw	Rng		
L	01450	3	1	05	20S	37E		661393	3608698*

Driller License:	46	Driller Company:	ABBOTT BROTHERS COMPANY		
Driller Name:					
Drill Start Date:	05/19/1952	Drill Finish Date:	05/20/1952	Plug Date:	
Log File Date:	05/26/1952	PCW Rcv Date:	10/22/1953	Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	7.00	Depth Well:	80 feet	Depth Water:	20 feet

Water Bearing Stratifications:	Top	Bottom	Description
	50	80	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	50	80

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/19/20 11:57 AM

POINT OF DIVERSION SUMMARY

Coordinates

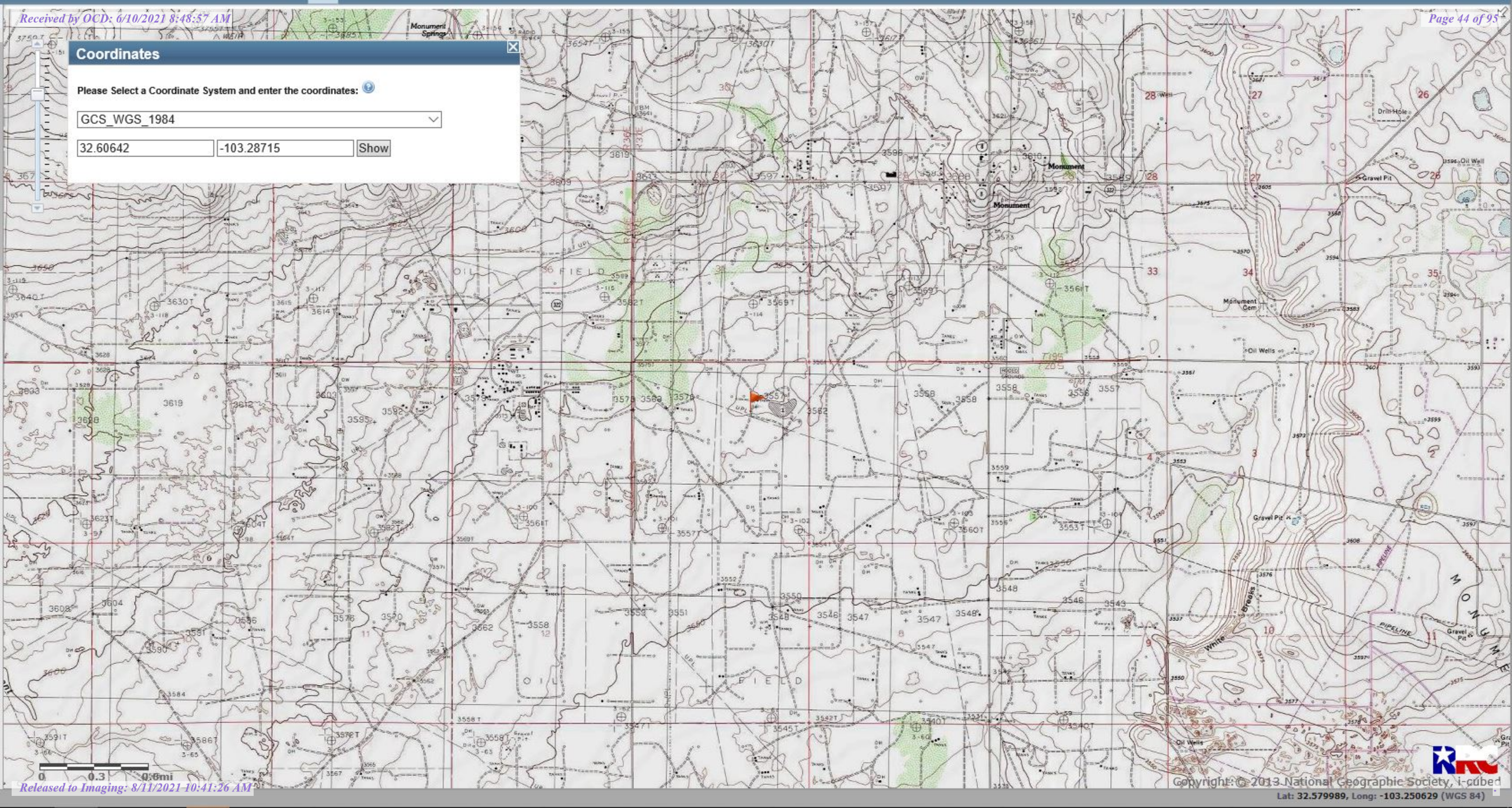
Please Select a Coordinate System and enter the coordinates:

GCS_WGS_1984

32.60642

-103.28715

Show





Google earth

NEDU Injection Line

Complete List

Sample Date	Sample ID	Depth	Field Chloride	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
Delineation and Horizontal Sampling													
11/3/2020	SP1	Surface	4,423	5120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.606524 -103.287159
11/3/2020		1'	356	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	300	437	
11/4/2020		2'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	88.4	119	
11/4/2020		3'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	88.8	89.5	
11/18/2020		4'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	77	96.3	
11/18/2020		5'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	150	161	
11/20/2020		6'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
11/20/2020		7'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	78.9	70.5	
11/30/2020		8'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	202	159	
12/3/2020		9'			<0.100	0.407	5.94	10.100	16.5	940	6170	1020	
12/3/2020		10'			<0.050	0.583	5.64	5.720	11.9	535	3780	778	
12/3/2020		11'			<0.100	0.979	9.36	12.200	22.5	564	3190	664	
12/3/2020		12'			<0.050	0.126	1.41	1.120	2.65	144	1830	449	
12/3/2020		13'			<0.100	1.68	11.5	13.900	27.1	1080	5250	937	
12/15/2020		15'			<0.050	<0.050	0.189	0.232	0.444	<10.0	204	22.6	
12/15/2020		20'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
12/15/2020		25'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
12/15/2020		30'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
12/15/2020		35'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
11/4/2020	H1	Surface	143	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.606530 -103.287230
11/4/2020	H2	Surface	149	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.606718 -103.287150
11/4/2020	H3	Surface	147	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.606526 -103.287113
11/4/2020	H4	Surface	144	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.606350 -103.287164



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

November 04, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/03/20 15:52.

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:	11/03/2020	Sampling Date:	11/03/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ SURFACE (H002909-01)

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	11/03/2020	ND	2.07	103	2.00	1.27		
Toluene*	<0.050	0.050	11/03/2020	ND	2.01	101	2.00	1.23		
Ethylbenzene*	<0.050	0.050	11/03/2020	ND	2.02	101	2.00	0.408		
Total Xylenes*	<0.150	0.150	11/03/2020	ND	5.85	97.6	6.00	0.240		
Total BTEX	<0.300	0.300	11/03/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	5120	16.0	11/04/2020	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	11/03/2020	ND	208	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	11/03/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/03/2020	ND					

Surrogate: 1-Chlorooctane 81.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.8 % 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: 11/03/2020
 Reported: 11/04/2020
 Project Name: LM LAMBERT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 11/03/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 1' (H002909-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2020	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	11/03/2020	ND	2.01	101	2.00	1.23	
Ethylbenzene*	<0.050	0.050	11/03/2020	ND	2.02	101	2.00	0.408	
Total Xylenes*	<0.150	0.150	11/03/2020	ND	5.85	97.6	6.00	0.240	
Total BTX	<0.300	0.300	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	320	16.0	11/04/2020	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	11/04/2020	ND	208	104	200	0.804	
DRO >C10-C28*	300	10.0	11/04/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	437	10.0	11/04/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 140 % 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

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

November 09, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/04/20 14:06.

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:	11/04/2020	Sampling Date:	11/04/2020
Reported:	11/09/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 1 (H002924-01)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	1.93	96.3	2.00	5.05	
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74	
Total BTX	<0.300	0.300	11/05/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/05/2020	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	11/05/2020	ND	241	120	200	1.93	
DRO >C10-C28*	<10.0	10.0	11/05/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	11/05/2020	ND					

Surrogate: 1-Chlorooctane 98.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.8 % 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: 11/04/2020
 Reported: 11/09/2020
 Project Name: LM LAMBERT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 11/04/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 2 (H002924-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	1.93	96.3	2.00	5.05	
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74	
Total BTX	<0.300	0.300	11/05/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	32.0	16.0	11/05/2020	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	11/05/2020	ND	241	120	200	1.93	
DRO >C10-C28*	<10.0	10.0	11/05/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	11/05/2020	ND					

Surrogate: 1-Chlorooctane 87.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.7 % 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: 11/04/2020
 Reported: 11/09/2020
 Project Name: LM LAMBERT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 11/04/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 3 (H002924-03)

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	11/05/2020	ND	1.93	96.3	2.00	5.05		
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48		
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69		
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74		
Total BTEx	<0.300	0.300	11/05/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 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	11/05/2020	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	11/05/2020	ND	241	120	200	1.93	
DRO >C10-C28*	<10.0	10.0	11/05/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	11/05/2020	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.5 % 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: 11/04/2020
 Reported: 11/09/2020
 Project Name: LM LAMBERT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 11/04/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 4 (H002924-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	1.93	96.3	2.00	5.05	
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74	
Total BTX	<0.300	0.300	11/05/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	96.0	16.0	11/05/2020	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	11/06/2020	ND	241	120	200	1.93	
DRO >C10-C28*	<10.0	10.0	11/06/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	11/06/2020	ND					

Surrogate: 1-Chlorooctane 89.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.7 % 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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

+ Cardinal cannot accept verbal changes. Please email changes to celey.keefe@cardinalarchdiocese.com



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

November 09, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/04/20 14:06.

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:	11/04/2020	Sampling Date:	11/04/2020
Reported:	11/09/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 2' (H002925-01)

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	11/05/2020	ND	1.93	96.3	2.00	5.05	
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74	
Total BTEX	<0.300	0.300	11/05/2020	ND					

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

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	11/06/2020	ND	241	120	200	1.93	
DRO >C10-C28*	88.4	10.0	11/06/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	119	10.0	11/06/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 121 % 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: 11/04/2020
 Reported: 11/09/2020
 Project Name: LM LAMBERT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 11/04/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 3' (H002925-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	1.93	96.3	2.00	5.05	
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74	
Total BTX	<0.300	0.300	11/05/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

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	11/06/2020	ND	241	120	200	1.93	
DRO >C10-C28*	88.8	10.0	11/06/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	89.5	10.0	11/06/2020	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 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

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

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache Corporation</u>		P.O. #:		ANALYSIS REQUEST	
Project Manager: <u>Bruce Baker</u>		Company:			
Address:		Attn:			
City:		Address:			
Phone #:		City:			
Fax #:		State:			
Project #:		Zip:			
Project Name: <u>LM LAMBERT</u>		Phone #:			
Project Location: <u>LM LAMBERT</u>		Fax #:			
Sampler Name: <u>Jeff Baum</u>					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	EXT. TPH	BTEX	ANALYSIS REQUEST			
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					ACID/BASE:	ICE / COOL	OTHER :	
<u>H002925</u>	<u>SP1 @ 2'</u>	<u>6</u>	<u>6</u>	<u>✓</u>						<u>11/4/20</u>	<u>1312</u>	<u>✓</u>	<u>✓</u>				
	<u>2SP1 @ 3'</u>	<u>6</u>								<u>11/4/20</u>	<u>1313</u>	<u>✓</u>	<u>✓</u>				

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

Relinquished By: <u>Jeff Baum</u>	Date: <u>11/4/20</u>	Received By: <u>Shawna W. Keene</u>	Date: <u>11/4/20</u>
Relinquished By:	Date:	Received By:	Date:

Delivered By: (Circle One)	Observed Temp. °C <u>4.4</u>	Sample Condition	CHECKED BY: (Initials) <u>TS</u>	Turnaround Time:	Standard <u>TS #413</u>	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Thermometer ID <u>#97</u>	<u>TS #413</u>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	Observed Temp. °C
		No <input type="checkbox"/> Yes <input type="checkbox"/>		Correction Factor <u>+0.0</u>	<u>11/4/20</u>	No <input type="checkbox"/> Yes <input type="checkbox"/>	Corrected Temp. °C

REMARKS:

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

All Results are emailed. Please provide Email address:



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

November 19, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/18/20 14:25.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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:	11/18/2020	Sampling Date:	11/18/2020
Reported:	11/19/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 4' (H003059-01)

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	11/18/2020	ND	1.99	99.4	2.00	4.48	
Toluene*	<0.050	0.050	11/18/2020	ND	1.90	95.0	2.00	5.18	
Ethylbenzene*	<0.050	0.050	11/18/2020	ND	2.01	100	2.00	5.23	
Total Xylenes*	<0.150	0.150	11/18/2020	ND	5.75	95.8	6.00	5.01	
Total BTEX	<0.300	0.300	11/18/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	11/18/2020	ND	196	97.8	200	11.8	
DRO >C10-C28*	77.0	10.0	11/18/2020	ND	211	106	200	18.1	
EXT DRO >C28-C36	96.3	10.0	11/18/2020	ND					

Surrogate: 1-Chlorooctane 83.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.3 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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: 11/18/2020
 Reported: 11/19/2020
 Project Name: LM LAMBERT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 11/18/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 5' (H003059-02)

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	11/18/2020	ND	1.99	99.4	2.00	4.48	
Toluene*	<0.050	0.050	11/18/2020	ND	1.90	95.0	2.00	5.18	
Ethylbenzene*	<0.050	0.050	11/18/2020	ND	2.01	100	2.00	5.23	
Total Xylenes*	<0.150	0.150	11/18/2020	ND	5.75	95.8	6.00	5.01	
Total BTEX	<0.300	0.300	11/18/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	11/18/2020	ND	196	97.8	200	11.8	
DRO >C10-C28*	150	10.0	11/18/2020	ND	211	106	200	18.1	
EXT DRO >C28-C36	161	10.0	11/18/2020	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

November 23, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/20/20 9:55.

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, appearing to read "Mike Snyder".

Mike Snyder For 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:	11/20/2020	Sampling Date:	11/20/2020
Reported:	11/23/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 6' (H003078-01)

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	11/20/2020	ND	1.89	94.4	2.00	7.75		
Toluene*	<0.050	0.050	11/20/2020	ND	1.82	91.1	2.00	8.19		
Ethylbenzene*	<0.050	0.050	11/20/2020	ND	1.89	94.3	2.00	9.22		
Total Xylenes*	<0.150	0.150	11/20/2020	ND	5.42	90.3	6.00	8.77		
Total BTEX	<0.300	0.300	11/20/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	11/20/2020	ND	251	125	200	0.615	
DRO >C10-C28*	<10.0	10.0	11/20/2020	ND	236	118	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	11/20/2020	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.5 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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: 11/20/2020
 Reported: 11/23/2020
 Project Name: LM LAMBERT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 11/20/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 7' (H003078-02)

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	11/20/2020	ND	1.89	94.4	2.00	7.75		
Toluene*	<0.050	0.050	11/20/2020	ND	1.82	91.1	2.00	8.19		
Ethylbenzene*	<0.050	0.050	11/20/2020	ND	1.89	94.3	2.00	9.22		
Total Xylenes*	<0.150	0.150	11/20/2020	ND	5.42	90.3	6.00	8.77		
Total BTEX	<0.300	0.300	11/20/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	11/20/2020	ND	251	125	200	0.615	
DRO >C10-C28*	78.9	10.0	11/20/2020	ND	236	118	200	1.33	
EXT DRO >C28-C36	70.5	10.0	11/20/2020	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.0 % 42.2-156

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Company Name: Apache Corporation
Project Manager: Barry Baker

Company Name: <i>Apache Corporation</i>		P.O. #:		BILL TO										ANALYSIS REQUEST													
Project Manager: <i>Bruce Baker</i>		Company:																									
Address:		Attn:																									
City:		State:		Zip:																							
Phone #:		Fax #:		Address:																							
Project #:		City:		State:		Zip:																					
Project Name: <i>LM Lambert</i>		State:		Zip:																							
Project Location: <i>LM Lambert</i>		Phone #:																									
Sample Name: <i>Tomay Stakias</i>		Fax #:																									
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING																					

		(G)F	# C	GR	WA	SO	OIL	SLU	OT	AC	ICE	OT	DATE	TIME
HO3078														
1	SP @ 6'	G											11-20-20	9:11
2	SP @ 7'	G											11-20-20	9:13

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. 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, service. In no event shall Cardinal be liable for the performance of services provided by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Johnny Perkins</i>									
Date: <i>11-20-20</i>		Received By: <i>Janet Schatz</i>							
Time: <i>0955</i>		Date: <i>11-20-20</i>							
Relinquished By: <i>Johnny Perkins</i>		Received By: <i>Janet Schatz</i>							
Delivered By: (Circle One)		Observed Temp. °C: <i>5.9</i>		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials) <i>JS</i>		Turnaround Time:	
Corrected Temp. °C		Corrected Temp. °C		Thermometer ID: #113		Correction Factor: None		Standard <i>Rush</i> <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>		Corrected Temp. °C		Corrected Temp. °C	

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



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

December 02, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/30/20 15:49.

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: 11/30/2020
 Reported: 12/02/2020
 Project Name: LM LAMBERT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 11/30/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 1 @ 8' (H003130-01)

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	12/01/2020	ND	2.10	105	2.00	3.68	
Toluene*	<0.050	0.050	12/01/2020	ND	2.02	101	2.00	3.56	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	2.09	104	2.00	3.60	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.96	99.4	6.00	3.43	
Total BTEX	<0.300	0.300	12/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	12/02/2020	ND	211	105	200	4.03	
DRO >C10-C28*	202	10.0	12/02/2020	ND	211	106	200	1.88	
EXT DRO >C28-C36	159	10.0	12/02/2020	ND					

Surrogate: 1-Chlorooctane 82.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.3 % 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

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

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



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

December 04, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 12/03/20 9:25.

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:	12/03/2020	Sampling Date:	12/03/2020
Reported:	12/04/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 9' (H003167-01)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	12/03/2020	ND	2.09	104	2.00	1.50	
Toluene*	0.407	0.100	12/03/2020	ND	2.00	100	2.00	1.69	GC-NC1
Ethylbenzene*	5.94	0.100	12/03/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	10.1	0.300	12/03/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	16.5	0.600	12/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 327 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	940	50.0	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	6170	50.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	1020	50.0	12/03/2020	ND					

Surrogate: 1-Chlorooctane 211 % 44.3-144

Surrogate: 1-Chlorooctadecane 170 % 42.2-156

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/03/2020
 Reported: 12/04/2020
 Project Name: LM LAMBERT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 10' (H003167-02)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2020	ND	2.09	104	2.00	1.50	
Toluene*	0.583	0.050	12/04/2020	ND	2.00	100	2.00	1.69	GC-NC1
Ethylbenzene*	5.64	0.050	12/04/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	5.72	0.150	12/04/2020	ND	5.88	98.1	6.00	1.08	
Total BTX	11.9	0.300	12/04/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 395 % 73.3-129

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	535	50.0	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	3780	50.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	778	50.0	12/03/2020	ND					

Surrogate: 1-Chlorooctane 159 % 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: 12/03/2020
 Reported: 12/04/2020
 Project Name: LM LAMBERT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 11' (H003167-03)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	12/04/2020	ND	2.09	104	2.00	1.50	
Toluene*	0.979	0.100	12/04/2020	ND	2.00	100	2.00	1.69	GC-NC1
Ethylbenzene*	9.36	0.100	12/04/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	12.2	0.300	12/04/2020	ND	5.88	98.1	6.00	1.08	
Total BTX	22.5	0.600	12/04/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 292 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	564	50.0	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	3190	50.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	664	50.0	12/03/2020	ND					

Surrogate: 1-Chlorooctane 138 % 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: 12/03/2020
 Reported: 12/04/2020
 Project Name: LM LAMBERT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 12' (H003167-04)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2020	ND	2.09	104	2.00	1.50	
Toluene*	0.126	0.050	12/04/2020	ND	2.00	100	2.00	1.69	GC-NC1
Ethylbenzene*	1.41	0.050	12/04/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	1.12	0.150	12/04/2020	ND	5.88	98.1	6.00	1.08	
Total BTX	2.65	0.300	12/04/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 232 % 73.3-129

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	144	50.0	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	1830	50.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	449	50.0	12/03/2020	ND					

Surrogate: 1-Chlorooctane 118 % 44.3-144

Surrogate: 1-Chlorooctadecane 170 % 42.2-156

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/03/2020
 Reported: 12/04/2020
 Project Name: LM LAMBERT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/03/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 13' (H003167-05)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	12/04/2020	ND	2.09	104	2.00	1.50	
Toluene*	1.68	0.100	12/04/2020	ND	2.00	100	2.00	1.69	GC-NC1
Ethylbenzene*	11.5	0.100	12/04/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	13.9	0.300	12/04/2020	ND	5.88	98.1	6.00	1.08	
Total BTX	27.1	0.600	12/04/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 343 % 73.3-129

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1080	50.0	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	5250	50.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	937	50.0	12/03/2020	ND					

Surrogate: 1-Chlorooctane 189 % 44.3-144

Surrogate: 1-Chlorooctadecane 213 % 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

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <i>Apache Corporation</i>		P.O. #:		BILL TO																																	
Project Manager: <i>Grace Baker</i>		Company:		ANALYSIS REQUEST																																	
Address:		Attn:																																			
City:		Address:																																			
Phone #:		City:																																			
Project #:		State:																																			
Project Name: <i>LM CAMPBELL</i>		Zip:																																			
Project Location: <i>LM CAMPBELL</i>		Phone #:																																			
Sample Name: <i>Jeff Brown</i>		Fax #:																																			
FOR LAB USE ONLY		PRESERV		SAMPLING																																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE	TIME														
<i>HO03167</i>	<i>SP10 9'</i>																					<i>6/3/20</i>	<i>0830</i>	<i>✓</i>	<i>✓</i>												
	<i>SP10 10'</i>																					<i>6/3/20</i>	<i>0832</i>	<i>✓</i>	<i>✓</i>												
	<i>SP10 11'</i>																					<i>6/3/20</i>	<i>0834</i>	<i>✓</i>	<i>✓</i>												
	<i>SP10 12'</i>																					<i>6/3/20</i>	<i>0836</i>	<i>✓</i>	<i>✓</i>												
	<i>SP10 13'</i>																					<i>6/3/20</i>	<i>0838</i>	<i>✓</i>	<i>✓</i>												

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Relinquished By: *Jeff Brown* Date: *6/3/20* Time: *0835* Received By: *Patricia A. Clark*

Delivered By: (Circle One) *4.2c #1/3* Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No CHECKED BY: *Y.P.*

Sampler - UPS - Bus - Other: *4.2c #1/3*

REMARKS: *Risk Samples Placed.*

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



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

December 16, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 12/15/20 14:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/15/2020	Sampling Date:	12/15/2020
Reported:	12/16/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 15' (H003265-01)

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	12/16/2020	ND	2.09	105	2.00	0.600	
Toluene*	<0.050	0.050	12/16/2020	ND	1.97	98.5	2.00	1.57	
Ethylbenzene*	0.189	0.050	12/16/2020	ND	2.08	104	2.00	1.09	
Total Xylenes*	0.232	0.150	12/16/2020	ND	5.94	99.0	6.00	0.719	
Total BTEX	0.444	0.300	12/16/2020	ND					

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

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	12/16/2020	ND	194	97.1	200	2.46	
DRO >C10-C28*	204	10.0	12/16/2020	ND	204	102	200	2.34	
EXT DRO >C28-C36	22.6	10.0	12/16/2020	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.8 % 42.2-156

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Analytical Results For:

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

Received: 12/15/2020
 Reported: 12/16/2020
 Project Name: LM LAMBERT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/15/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 20' (H003265-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2020	ND	2.09	105	2.00	0.600	
Toluene*	<0.050	0.050	12/16/2020	ND	1.97	98.5	2.00	1.57	
Ethylbenzene*	<0.050	0.050	12/16/2020	ND	2.08	104	2.00	1.09	
Total Xylenes*	<0.150	0.150	12/16/2020	ND	5.94	99.0	6.00	0.719	
Total BTX	<0.300	0.300	12/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	12/16/2020	ND	194	97.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	12/16/2020	ND	204	102	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/16/2020	ND					

Surrogate: 1-Chlorooctane 94.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.6 % 42.2-156

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Analytical Results For:

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

Received: 12/15/2020
 Reported: 12/16/2020
 Project Name: LM LAMBERT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/15/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 25' (H003265-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2020	ND	2.09	105	2.00	0.600	
Toluene*	<0.050	0.050	12/16/2020	ND	1.97	98.5	2.00	1.57	
Ethylbenzene*	<0.050	0.050	12/16/2020	ND	2.08	104	2.00	1.09	
Total Xylenes*	<0.150	0.150	12/16/2020	ND	5.94	99.0	6.00	0.719	
Total BTX	<0.300	0.300	12/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	12/16/2020	ND	194	97.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	12/16/2020	ND	204	102	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/16/2020	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.9 % 42.2-156

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Analytical Results For:

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

Received: 12/15/2020
 Reported: 12/16/2020
 Project Name: LM LAMBERT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/15/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 30' (H003265-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2020	ND	2.09	105	2.00	0.600	
Toluene*	<0.050	0.050	12/16/2020	ND	1.97	98.5	2.00	1.57	
Ethylbenzene*	<0.050	0.050	12/16/2020	ND	2.08	104	2.00	1.09	
Total Xylenes*	<0.150	0.150	12/16/2020	ND	5.94	99.0	6.00	0.719	
Total BTX	<0.300	0.300	12/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	12/16/2020	ND	194	97.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	12/16/2020	ND	204	102	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/16/2020	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.3 % 42.2-156

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Analytical Results For:

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

Received: 12/15/2020
 Reported: 12/16/2020
 Project Name: LM LAMBERT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/15/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 35' (H003265-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2020	ND	2.09	105	2.00	0.600	
Toluene*	<0.050	0.050	12/16/2020	ND	1.97	98.5	2.00	1.57	
Ethylbenzene*	<0.050	0.050	12/16/2020	ND	2.08	104	2.00	1.09	
Total Xylenes*	<0.150	0.150	12/16/2020	ND	5.94	99.0	6.00	0.719	
Total BTX	<0.300	0.300	12/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	12/16/2020	ND	194	97.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	12/16/2020	ND	204	102	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/16/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache Corp Project Manager: Bruce Baker Address: City: State: Zip: Phone #: Fax #: Project #: Project Name: LM Lambert Project Location: LM Lambert Sampler Name: Terry Jenkins		BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #: Project #:		ANALYSIS REQUEST	
FOR LAB USE ONLY Lab I.D.: H003365 Sample I.D.: 1 SP 1 GP 15-1 2 SP 1 GP 20-1 3 SP 1 GP 25-1 4 SP 1 GP 30 5 SP 1 GP 35		(G)RAB OR (C)OMP. # CONTAINERS MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: PRESERV. ACID/BASE: ICE / COOL OTHER:		SAMPLING DATE TIME 12:15 12:15 12:15 12:30 12:15 12:35 12:15 12:30 12:15 12:35	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Relinquished By: Terry Jenkins Date: 12-15-20 Time: 12:40 Received By: Lawrence Delaney Date: 12-15-20 Time: 12:40 Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: REMARKS: Brought straight to lab from field.			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 15.3 Corrected Temp. °C		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> CHECKED BY: (Initials) Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #113 Correction Factor None <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Sample Condition <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C	

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

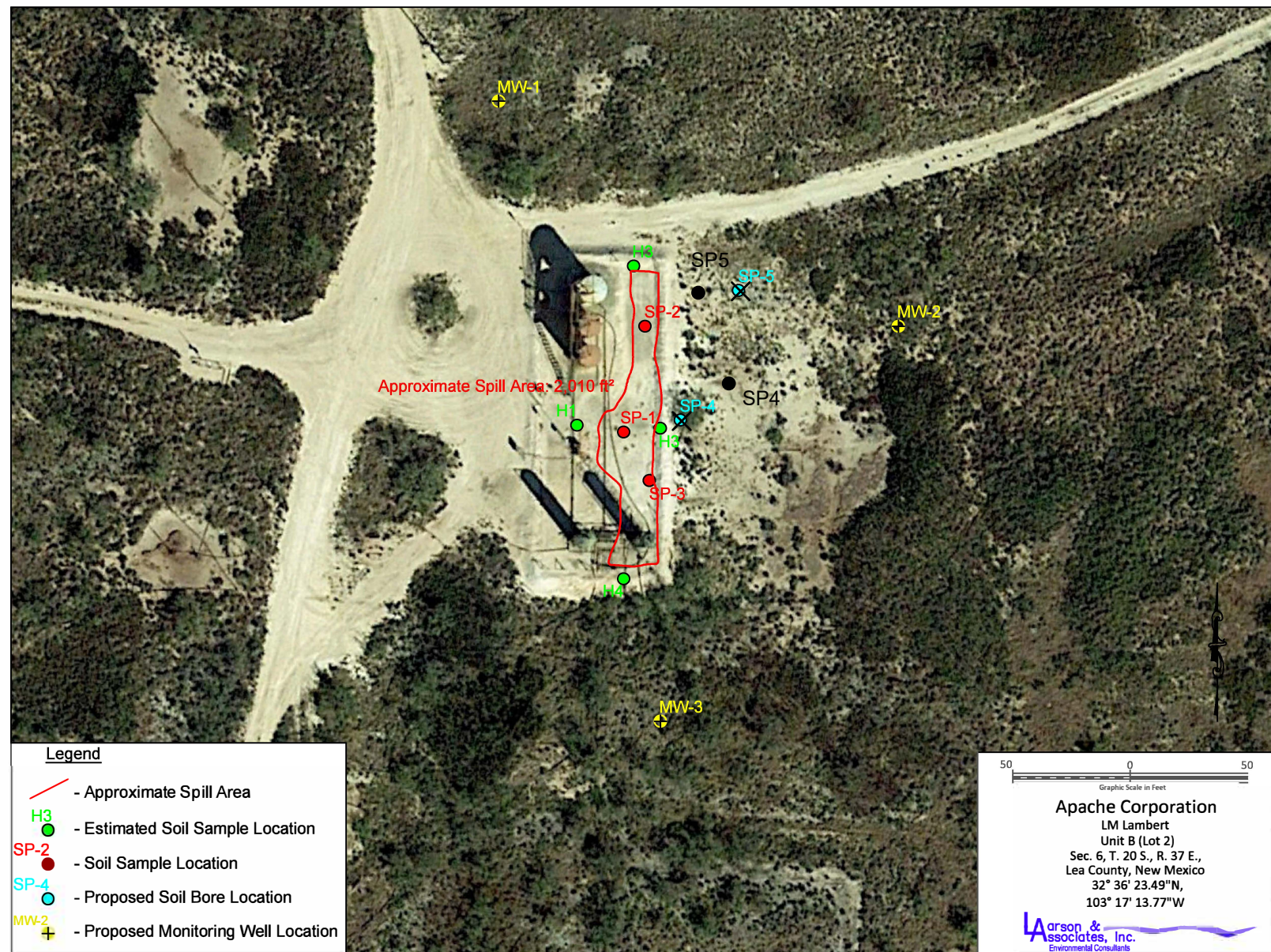


Figure 2 - Aerial Map Showing Proposed Soil Bore and Monitoring Well Locations

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 31282

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 31282
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Sample points SP4 and SP5 moved. Site map included for locations.	8/11/2021