

Deferment Request

November 16, 2021

Re: WP Byrd Tank Battery Case # nRM2035052334

On 11/29/2020 a release occurred due a failure on a 1 inch circulating line resulting in the loss of fluid. The release (GPS: 32.59134, -103.30750) is located south of Monument, New Mexico in unit letters B&G section 12 township 20S range 36E. A groundwater survey was conducted utilizing USGS wells of record. The nearest well of record suggest the groundwater depth below the release to be 33 feet below ground surface. The release is in an area of known groundwater impact see AP-30 for details. A remediation plan was submitted and approved by OCD.

On 10/7/2021 SP 2 was further delineated to a depth of 15 feet. All samples collected were submitted to a commercial laboratory for analysis of TPH and BTEX. Laboratory results indicated that remediation standards for release less than 50 feet to groundwater were achieved at a depth of 11 feet. The area around SP 2 was excavated to a depth of 11 feet. The area around SP 1 was hand excavated to a depth of 2 feet. Final 5 -point bottom and wall composite samples were collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory analysis were above table one standards for TPH at B9, B10, W10, W11. An attempt was made utilizing a hand auger to further delineate at B9 and B10 but refusal was encounter at 10 feet. Since in the original delineation data was to 10 feet no samples were submitted to laboratory for analysis. Due to SP 1 being near battery infrastructure and no mechanical equipment can safely be employed to achieve delineation at a depth greater than 10 feet Apache Corporation would like to ask for a variance to the rule since full delineation cannot be conducted without a major facility deconstruction. W10 was further excavated laterally and submitted to a commercial laboratory for analysis of TPH and BTEX. W11 was not further excavated due to presence of facility infrastructure.

Apache Corporation has remediated the release to the best extent possible and respectfully request that the remaining contamination be deferred until system abandonment.

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

Submitted by;

Environmental Technician larry.baker@apachecorp.com

Cell# 432-631-6982

Bruce Baker

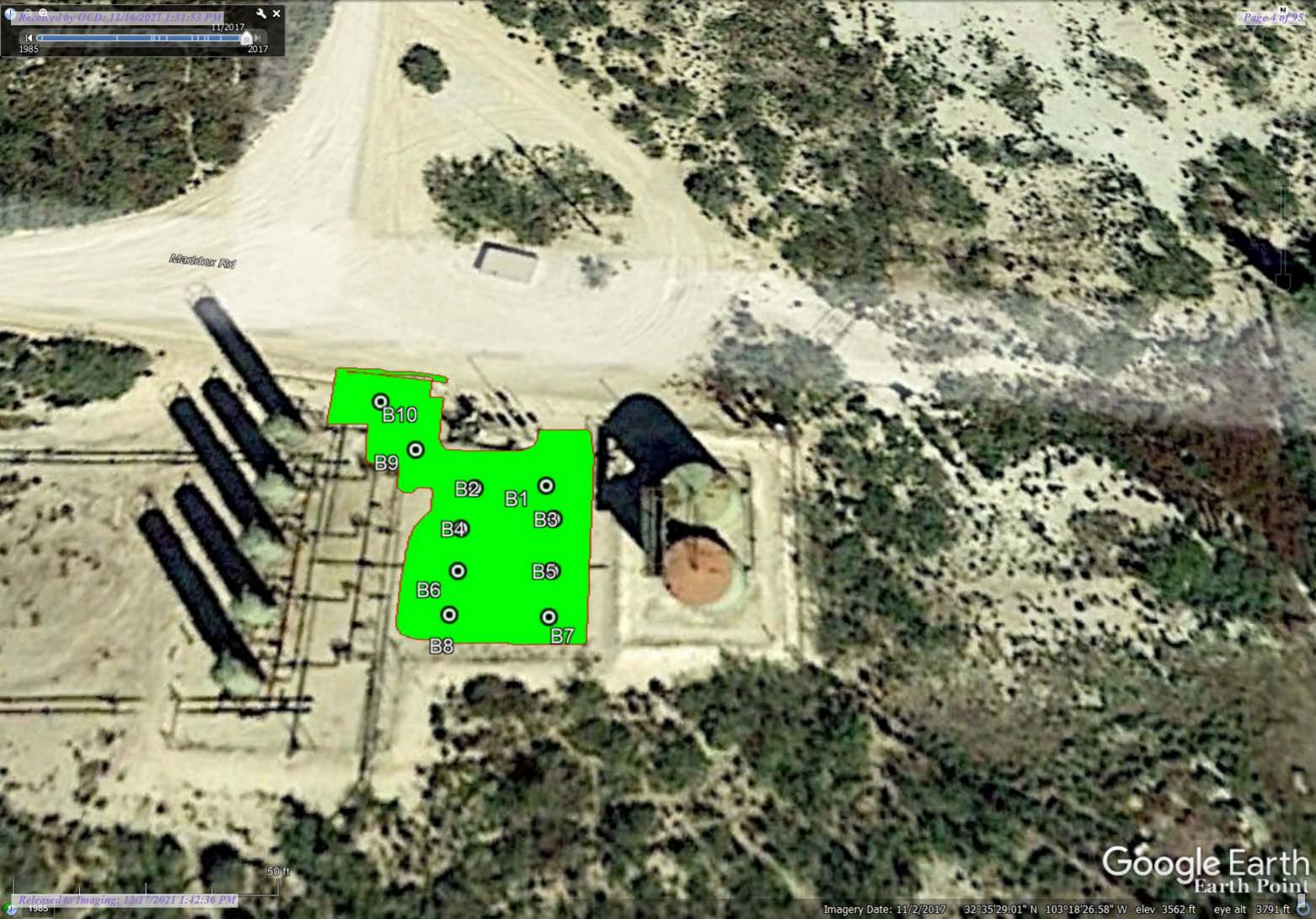
Page 2 of 95

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 19.15.29.1. ☐ Proposed schedule for remediation (note if remediation plan times)	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be conj	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around prodeconstruction.	oduction equipment where remediation could cause a major facility
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 rules and regulations all operators are required to report and/or file complete which may endanger public health or the environment. The acceptar liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local laterals.	ertain release notifications and perform corrective actions for releases ace of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, cceptance of a C-141 report does not relieve the operator of
Printed Name: Larry Baker	Title: Environmental Tech. SR.
Signature: Larry Baker	Date: 11/16/2021
email: larry.baker@apachecorp.com	Telephone: 432-631-6982
OCD Only	
Received by: Chad Hensley	Date: _12/17/2021
☐ Approved ☐ Approved with Attached Conditions of A	Approval Denied Deferral Approved
Signature:	Date: 12/17/2021







Delineation Samples

Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total	Total	GRO	DRO	EXT DRO	GPS Coordinates
Date							Xylenes	ВТЕХ				
												32.591397
2/4/2021	SP1	S	<16.0	<0.200	3.62	4.37	25.000	33	3110	32700	5690	-103.307590
2/4/2021		1'	16	<0.453	4.9	3.19	15.40	24.00	2230	11400	2440	
2/4/2021		2'	48	< 0.050	< 0.050	<0.050	<0.150	<0.300	10.2	226	41.9	
2/4/2021		3'	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	151	28.8	
2/4/2021		4'	112	<0.050	0.242	0.246	1.310	1.80	163	1390	288	
2/4/2021		5'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	187	47.9	
2/22/2021		7'		< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	138	22.4	
2/22/2021		9'		< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	247	45.3	
2/24/2021		10'		< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	341	89.5	
												32.591332
	SP2	S	32	0.219	5.93	5.06	25.800	37	2750	23600	4980	-103.307474
2/4/2021		1'	16	1.07	8.85	4.11	17.10	31.20	4160	12300	3090	
2/4/2021		2'	32	1.88	14.3	6.28	27.300	49.8	5130	13500	2860	
2/4/2021		3'	<16.0	0.711	6.67	2.21	15.100	24.7	2730	7590	1610	
2/4/2021		4'	<16.0	<0.500	5.24	2.45	18.600	26.3	5770	15500	3140	
2/4/2021		5'	32	<0.050	0.893	0.987	5.210	7.09	531	2330	503	
2/22/2021		7'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	52.9	<10.0	
2/22/2021		9'		< 0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	189	23.8	
2/24/2021		10'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	731	208	
10/7/2021		11'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/7/2021		12'		< 0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/7/2021		13'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/7/2021		14'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.5	<10.0	
10/7/2021		15'		< 0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
2/4/2021	H1	S	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	512	315	
												32.591389
2/22/2011		S		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.307522
												32.591331
2/4/2021	H2	S	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.307419
												32.591271
2/4/2021	Н3	S	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.307499
												32.591349
2/4/2021	H4	S	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.307586

Final Samples

Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total	Total	GRO	DRO	EXT DRO	GPS Coordinates
Date							Xylenes	BTEX				
												32.5913758
10/11/2021	B1	11'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.3074682
												32.5913814
10/11/2021	B2	11'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.8	<10.0	-103.3075168
												32.5913538
10/13/2021	В3	11'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	53.2	<10.0	-103.3074588
												32.5913464
10/13/2021	B4	11'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	64.8	<10.0	-103.3075279
												32.5913071
10/14/2021	B5	11'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	57	<10.0	-103.3074608
												32.5913114
10/15/2021	B6	11'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	57.2	15.2	-103.3075202
10/15/0001		441				0.070			40.0		40.0	32.5912899
10/15/2021	B7	11'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	40.8	<10.0	-103.3074551
40/45/2024	20	441	4.6		0.050	0.050	0.450	0.000	40.0	40.0	40.0	32.5912882
10/15/2021	B8	11'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.3075158
10/26/2021	DO	21	40	40.050	10.050	10.050	10.150	10.200	-10.0	E 4.7	275	32.5914052
10/26/2021	B9	2'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	547	275	-103.3075564
10/26/2021	B10	2'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	172	210	32.5914266 -103.3075919
10/20/2021	PIO	<u> </u>	10	<0.050	<0.050	<0.030	<0.150	<0.500	<10.0	1/2	210	32.5913910
10/11/2021	W1	0-11'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.3074555
10/11/2021	VVI	0-11	32	<0.030	<0.030	₹0.030	\0.130	\0.300	\10.0	\10.0	\10.0	32.5913877
10/11/2021	W2	0-11'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.3075182
10/11/2021	VV Z	011	10	10.030	10.050	٧٥.030	10.130	10.500	110.0	10.0	110.0	32.5913634
10/13/2021	W3	0-11'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.3074253
20, 20, 2022		V			10.000	101000	70.200	10.000		120.0	120.0	32.5913447
10/14/2021	W4	0-11'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.3075463
						0,000	0.000					32.5913046
10/15/2021	W5	0-11'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.3074260
												32.5912925
10/15/2021	W6	0-11'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.3075467
												32.5912730
10/15/2021	W7	0-11'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.3075121
												32.5912701
10/15/2021	W8	0-11'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.3074511
												32.5913958
10/26/2021	W9	0-2'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	25.5	34.1	-103.3075832

10/26/2021	W10	0-2'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	206	144	
												32.5914490
10/29/2021	W10	0-2'		<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	-103.3075752
												32.5914111
10/26/2021	W11	0-2'	80	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	429	445	-103.3075416



February 08, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WP BYRD #2

Enclosed are the results of analyses for samples received by the laboratory on 02/04/21 16:35.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

 Received:
 02/04/2021

 Reported:
 02/08/2021

 Project Name:
 WP BYRD #2

Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 02/04/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H210291-01)

BTEX 8021B	mg,	/kg	Analyze	ed By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	02/08/2021	ND	2.07	104	2.00	1.15	GC-NC1
Toluene*	3.62	0.200	02/08/2021	ND	2.18	109	2.00	2.27	GC-NC1
Ethylbenzene*	4.37	0.200	02/08/2021	ND	2.18	109	2.00	2.96	GC-NC1
Total Xylenes*	25.0	0.600	02/08/2021	ND	6.93	116	6.00	3.78	
Total BTEX	33.0	1.20	02/08/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	311	% 73.3-12	9						
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	02/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3110	100	02/05/2021	ND	215	108	200	7.12	
DRO >C10-C28*	32700	100	02/05/2021	ND	214	107	200	3.53	
EXT DRO >C28-C36	5690	100	02/05/2021	ND					
Surrogate: 1-Chlorooctane	754	% 44.3-14	'4						
Surrogate: 1-Chlorooctadecane	1320	% 42.2-15	6						

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Celeg & Freene



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: 02/04/2021 Sampling Date: 02/04/2021 Reported: 02/08/2021 Sampling Type: Soil

Project Name: WP BYRD #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: NONE GIVEN

Sample ID: SP 1 @ 1' (H210291-02)

BTEX 8021B	mg	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.453	0.200	02/08/2021	ND	2.07	104	2.00	1.15	GC-NC1
Toluene*	4.90	0.200	02/08/2021	ND	2.18	109	2.00	2.27	GC-NC1
Ethylbenzene*	3.19	0.200	02/08/2021	ND	2.18	109	2.00	2.96	GC-NC1
Total Xylenes*	15.4	0.600	02/08/2021	ND	6.93	116	6.00	3.78	
Total BTEX	24.0	1.20	02/08/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	198	% 73.3-12	9						
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	02/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2230	100	02/05/2021	ND	215	108	200	7.12	
DRO >C10-C28*	11400	100	02/05/2021	ND	214	107	200	3.53	
EXT DRO >C28-C36	2440	100	02/05/2021	ND					
Surrogate: 1-Chlorooctane	356	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	472	% 42.2-15	6						

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Celey D. Keine



02/04/2021

Analytical Results For:

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

Received: 02/04/2021 Sampling Date:

Reported:02/08/2021Sampling Type:SoilProject Name:WP BYRD #2Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

Project Location: NONE GIVEN

Sample ID: SP 1 @ 2' (H210291-03)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.07	104	2.00	1.15	
Toluene*	<0.050	0.050	02/05/2021	ND	2.18	109	2.00	2.27	
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.18	109	2.00	2.96	
Total Xylenes*	<0.150	0.150	02/05/2021	ND	6.93	116	6.00	3.78	
Total BTEX	<0.300	0.300	02/05/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 73.3-12	19						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.2	10.0	02/05/2021	ND	215	108	200	7.12	
DRO >C10-C28*	226	10.0	02/05/2021	ND	214	107	200	3.53	
EXT DRO >C28-C36	41.9	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	80.6	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	94.5	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

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

Received: 02/04/2021 Reported: 02/08/2021

Project Name: WP BYRD #2
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 02/04/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 3' (H210291-04)

BTEX 8021B	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.07	104	2.00	1.15	
Toluene*	<0.050	0.050	02/05/2021	ND	2.18	109	2.00	2.27	
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.18	109	2.00	2.96	
Total Xylenes*	<0.150	0.150	02/05/2021	ND	6.93	116	6.00	3.78	
Total BTEX	<0.300	0.300	02/05/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	215	108	200	7.12	
DRO >C10-C28*	151	10.0	02/05/2021	ND	214	107	200	3.53	
EXT DRO >C28-C36	28.8	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	78.6	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	90.5	% 42.2-15	6						

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Celeg D. Freene

S-04



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:
 02/04/2021
 Sampling Date:
 02/04/2021

 Reported:
 02/08/2021
 Sampling Type:
 Soil

Project Name: WP BYRD #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: me

Project Location: NONE GIVEN

ma/ka

Sample ID: SP 1 @ 4' (H210291-05)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	ea By: ms					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2021	ND	2.07	104	2.00	1.15	
Toluene*	0.242	0.050	02/08/2021	ND	2.18	109	2.00	2.27	GC-NC1
Ethylbenzene*	0.246	0.050	02/08/2021	ND	2.18	109	2.00	2.96	GC-NC1
Total Xylenes*	1.31	0.150	02/08/2021	ND	6.93	116	6.00	3.78	
Total BTEX	1.80	0.300	02/08/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	178	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	163	10.0	02/05/2021	ND	215	108	200	7.12	
DRO >C10-C28*	1390	10.0	02/05/2021	ND	214	107	200	3.53	
EXT DRO >C28-C36	288	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	114	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	164	% 42.2-15	6						

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Celeg & Freene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 02/04/2021 Sampling Date: 02/04/2021 Reported: 02/08/2021 Sampling Type: Soil

Project Name: WP BYRD #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: NONE GIVEN

Sample ID: SP 1 @ 5' (H210291-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.07	104	2.00	1.15	
Toluene*	<0.050	0.050	02/05/2021	ND	2.18	109	2.00	2.27	
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.18	109	2.00	2.96	
Total Xylenes*	<0.150	0.150	02/05/2021	ND	6.93	116	6.00	3.78	
Total BTEX	<0.300	0.300	02/05/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	215	108	200	7.12	
DRO >C10-C28*	187	10.0	02/05/2021	ND	214	107	200	3.53	
EXT DRO >C28-C36	47.9	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	81.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.8	% 42.2-15	6						

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Celey D. Keine



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: 02/04/2021 Sampling Date: 02/04/2021 Reported: 02/08/2021 Sampling Type: Soil

Project Name: WP BYRD #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: NONE GIVEN

Sample ID: SP 2 @ SURFACE (H210291-07)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.219	0.100	02/06/2021	ND	2.07	104	2.00	1.15	GC-NC1
Toluene*	5.93	0.100	02/06/2021	ND	2.18	109	2.00	2.27	GC-NC1
Ethylbenzene*	5.06	0.100	02/06/2021	ND	2.18	109	2.00	2.96	GC-NC1
Total Xylenes*	25.8	0.300	02/06/2021	ND	6.93	116	6.00	3.78	
Total BTEX	37.0	0.600	02/06/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	189 9	% 73.3-12	9						
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	02/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2750	100	02/05/2021	ND	216	108	200	6.41	QM-07
DRO >C10-C28*	23600	100	02/05/2021	ND	231	116	200	3.31	QM-07
EXT DRO >C28-C36	4980	100	02/05/2021	ND					
Surrogate: 1-Chlorooctane	349 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	383	% 42.2-15	6						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 02/04/2021 Sampling Date: 02/04/2021 Reported: 02/08/2021 Sampling Type: Soil

Project Name: WP BYRD #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: NONE GIVEN

Sample ID: SP 2 @ 1' (H210291-08)

BTEX 8021B	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.07	0.100	02/06/2021	ND	2.07	104	2.00	1.15	GC-NC1
Toluene*	8.85	0.100	02/06/2021	ND	2.18	109	2.00	2.27	GC-NC1
Ethylbenzene*	4.11	0.100	02/06/2021	ND	2.18	109	2.00	2.96	GC-NC1
Total Xylenes*	17.1	0.300	02/06/2021	ND	6.93	116	6.00	3.78	
Total BTEX	31.2	0.600	02/06/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4160	100	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	12300	100	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	3090	100	02/05/2021	ND					
Surrogate: 1-Chlorooctane	272	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	242	% 42.2-15	6						

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Celey D. Keine



02/04/2021

Analytical Results For:

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

Received: 02/04/2021 Sampling Date:

Reported: 02/08/2021 Sampling Type: Soil
Project Name: WP BYRD #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson
Project Location: NONE GIVEN

Sample ID: SP 2 @ 2' (H210291-09)

BTEX 8021B	mg	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.88	0.200	02/08/2021	ND	2.07	104	2.00	1.15	GC-NC1
Toluene*	14.3	0.200	02/08/2021	ND	2.18	109	2.00	2.27	GC-NC1
Ethylbenzene*	6.28	0.200	02/08/2021	ND	2.18	109	2.00	2.96	GC-NC1
Total Xylenes*	27.3	0.600	02/08/2021	ND	6.93	116	6.00	3.78	
Total BTEX	49.8	1.20	02/08/2021	ND					
-									

Surrogate: 4-Bromofluorobenzene (PID 207 % 73.3-129

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5130	50.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	13500	50.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	2860	50.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 287 % 44.3-144
Surrogate: 1-Chlorooctadecane 239 % 42.2-156

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Celey D. Keene



Analytical Results For:

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

Received: 02/04/2021

Reported: 02/08/2021
Project Name: WP BYRD #2
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 02/04/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 2 @ 3' (H210291-10)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.711	0.100	02/06/2021	ND	2.07	104	2.00	1.15	GC-NC1
Toluene*	6.67	0.100	02/06/2021	ND	2.18	109	2.00	2.27	GC-NC1
Ethylbenzene*	2.21	0.100	02/06/2021	ND	2.18	109	2.00	2.96	GC-NC1
Total Xylenes*	15.1	0.300	02/06/2021	ND	6.93	116	6.00	3.78	
Total BTEX	24.7	0.600	02/06/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2730	50.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	7590	50.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	1610	50.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	187	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	161	% 42.2-15	6						

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Celey & Keine



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: 02/04/2021 Sampling Date: 02/04/2021 Reported: 02/08/2021 Sampling Type: Soil

Project Name: WP BYRD #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: NONE GIVEN

Sample ID: SP 2 @ 4' (H210291-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/08/2021	ND	2.13	107	2.00	0.822	GC-NC1
Toluene*	5.24	0.500	02/08/2021	ND	2.09	104	2.00	1.10	GC-NC1
Ethylbenzene*	2.45	0.500	02/08/2021	ND	2.03	102	2.00	1.55	GC-NC1
Total Xylenes*	18.6	1.50	02/08/2021	ND	5.95	99.2	6.00	1.52	
Total BTEX	26.3	3.00	02/08/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	136	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5770	50.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	15500	50.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	3140	50.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	311 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	254	% 42.2-15	6						

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Celey D. Keine



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: 02/04/2021 Sampling Date: 02/04/2021

Reported: 02/08/2021 Sampling Type: Soil Project Name: WP BYRD #2 Sampling Condition: Cool & Intact

Project Number: Sample Received By: NONE GIVEN Jodi Henson Project Location: NONE GIVEN

Sample ID: SP 2 @ 5' (H210291-12)

127 %

42.2-156

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2021	ND	2.13	107	2.00	0.822	
Toluene*	0.893	0.050	02/08/2021	ND	2.09	104	2.00	1.10	GC-NC1
Ethylbenzene*	0.987	0.050	02/08/2021	ND	2.03	102	2.00	1.55	GC-NC1
Total Xylenes*	5.21	0.150	02/08/2021	ND	5.95	99.2	6.00	1.52	
Total BTEX	7.09	0.300	02/08/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	315 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	531	10.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	2330	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	503	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	122 9	% 44.3-14	4						

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Celey D. Keine

Surrogate: 1-Chlorooctadecane



Analytical Results For:

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

 Received:
 02/04/2021
 Sampling Date:
 02/04/2021

 Reported:
 02/08/2021
 Sampling Type:
 Soil

Project Name: WP BYRD #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NONE GIVEN

Sample ID: H 1 (H210291-13)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.13	107	2.00	0.822	
Toluene*	<0.050	0.050	02/05/2021	ND	2.09	104	2.00	1.10	
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.03	102	2.00	1.55	
Total Xylenes*	<0.150	0.150	02/05/2021	ND	5.95	99.2	6.00	1.52	
Total BTEX	<0.300	0.300	02/05/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	512	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	315	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	87.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	117	% 42.2-15	6						

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Celeg D. Freene



Analytical Results For:

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

Received: 02/04/2021 Sampling Date: 02/04/2021

Reported: 02/08/2021 Sampling Type: Soil

Project Name: WP BYRD #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NONE GIVEN

Sample ID: H 2 (H210291-14)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.13	107	2.00	0.822	
Toluene*	<0.050	0.050	02/05/2021	ND	2.09	104	2.00	1.10	
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.03	102	2.00	1.55	
Total Xylenes*	<0.150	0.150	02/05/2021	ND	5.95	99.2	6.00	1.52	
Total BTEX	<0.300	0.300	02/05/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	<10.0	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	82.6	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	84.3	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 393-2432

 Received:
 02/04/2021
 Sampling Date:
 02/04/2021

 Reported:
 02/08/2021
 Sampling Type:
 Soil

Project Name: WP BYRD #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: NONE GIVEN

ma/ka

Sample ID: H 3 (H210291-15)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.13	107	2.00	0.822	
Toluene*	<0.050	0.050	02/05/2021	ND	2.09	104	2.00	1.10	
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.03	102	2.00	1.55	
Total Xylenes*	<0.150	0.150	02/05/2021	ND	5.95	99.2	6.00	1.52	
Total BTEX	<0.300	0.300	02/05/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	<10.0	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	74.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	76.3	% 42.2-15	6						

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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: 02/04/2021 Sampling Date: 02/04/2021 Reported: 02/08/2021 Sampling Type: Soil

Project Name: WP BYRD #2 Sampling Condition: Cool & Intact NONE GIVEN Sample Received By: Project Number: Jodi Henson

Project Location: NONE GIVEN

Sample ID: H 4 (H210291-16)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.13	107	2.00	0.822	
Toluene*	<0.050	0.050	02/05/2021	ND	2.09	104	2.00	1.10	
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.03	102	2.00	1.55	
Total Xylenes*	<0.150	0.150	02/05/2021	ND	5.95	99.2	6.00	1.52	
Total BTEX	<0.300	0.300	02/05/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/05/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	<10.0	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	82.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.5	% 42.2-15	6						

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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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Celeg D. Freene

Sampler - UPS - Bus - Other:

Cardinal cannot account worked changes Dlance for written

man to (575) 202 2226

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	water	BILL TO		ANALYSIS REQUEST	
Project Manager: Black Sky	Car	P.O. #:			
Address:		Company:			
City:	State: Zip:	Attn:			
Phone #:	Fax #:	Address:			
	Project Owner:	City:			
Project Name: LUP BYRO # 2		State: Zip:			
Project Location: WP BYRD #2	\	Phone #:			
Sampler Name: JETT Swow		Fax #:			
	MATRIX	PRESERV. SAMPLING			
Lab I.D. Sample I.D.	AB OR (C)OMP INTAINERS DUNDWATER STEWATER	ER: // COOL ER:	L TEX XT. TPH		
HZ10291 SP1 @ Surface	(G)F # CC GRC WA SOI OIL	ACI ICE OTH DATE			
50200 11			1 1 1 2hB		
3 501021	6		A44 11		
4 562 6 31	0		11/1/1/1		
5 361 @ 41	1		1 1 848		
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8 10201	0 0		1 1 1 15/		
J 60 83% B	2		1 1 958		
	6 /	2/4/21/1	1468 111		
	Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the afmount paid by the client for the ris including those for negligence and any other cause whatsoever shall be deemed welved unless made in writing and received by Cardinal writin 30 days after completion of the risk including those for negligence and any other cause whatsoever shall be deemed welved unless made in writing and received by Cardinal writin 30 days after completion of the state of the cardinal cause of the cardinal cardinal be liable for incidential or consequential days, including without limitation, usually extend to use, or loss of profits incurrent by client, its subsidiaries, and cardinal be liable for incidential or consequential cardinal by the cardinal resource to the cardinal cardinal by the client of the cardinal ca	ny claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the seemed waked unless made in writing and received by Cardinal within 30 days after completion of the without imitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiarie without immatican, business interruptions, loss of use, or loss of profils incurred by client, its subsidiarie actinal moverates of whether such claim is hased unon any of the above stated reasons or otherwise.	y the client for the ornpletion of the applicable nt, its subsidiaries, are or otherwise.		
700	1635	Jenson -	Phone Result:	No Add'I Phone #: No Add'I Fax #:	
Relinquished by:	Time: Meceived By:	7.			8
Delivered By: (Circle One)	Sample Condition	ition CHECKED BY:			a

Page 19 of 20

Relinquished By

Time: Date:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Pardinal cannot account worked channes Bloom for written

hanne to (ETE) 201-2226

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

CONTRACTOR DESCRIPTION OF THE PERSON OF THE							
Company Name:	" alluche Corporation		BILL TO			ANALYSIS REQUEST	3
Project Manager:	Brece &		P.O. #:				
Address:			Company:				
City:	State:	Zip:	Attn:				
Phone #:	Fax #:		Address:				
Project #:	Project Owner:	ler:	City:				
Project Name:	WE BYRO #2		State: Zip:				
Project Location:	1: WP BYPD #2		Phone #:				
Sampler Name:	left Brum		Fax #:	,			
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	LING			
ah I	Sample I D	WATER			TPH		
HZIDEGI		# CONT	OTHER ACID/BA ICE / CO OTHER	TIME	BTE		
=	5620041	-		1 cast	11		
12	13 6 605	2		12051	1		
Z	1420	0		1804 /	1		
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عاا	HY	0	3/4/8	1 1510	2		
+					*		
PLEASE NOTE: Liability as analyses. All claims includi service. In no event shall C	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 negligance 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 he liable for incidental or consequential demogos, including whole limited to be beginned by client, its subsidiaries, service. In no event shall Cardinal he liable for incidental or consequential demogos, including whole limited by beginned to use, or loss of profits incrured by client, its subsidiaries,	for any claim arising whether based in contra be deemed walved unless made in writing a ding without limitation, business interruption	act or tort, shall be limited to the amount and received by Cardinal within 30 days is, loss of use, or loss of profits incurred to	paid by the dient for the after completion of the applic by client, its subsidiaries,	able		
affiliates or successors arising Relinguished By:	affiliaties or successors arising out of or related to the performance of services hereunder by Cardinal Relinquished By: Date: 7	by Cardinal, regardless of whether such claim is base Received By:	m is based upon any of the above stated reasons or otherwise Phone Res	Phone Result:	Yes	Add'l Phone #:	
/)	1	14	Fax Result:		Add'l Fax #:	

Page 20 of 20



February 23, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WP BYRD #2

Enclosed are the results of analyses for samples received by the laboratory on 02/22/21 11:53.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 02/22/2021
Reported: 02/23/2021
Project Name: WP BYRD #2

Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 02/22/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 7' (H210406-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.82	QR-03
Toluene*	< 0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.36	
Ethylbenzene*	<0.050	0.050	02/22/2021	ND	1.99	99.5	2.00	2.95	
Total Xylenes*	< 0.150	0.150	02/22/2021	ND	5.78	96.3	6.00	2.49	
Total BTEX	<0.300	0.300	02/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2021	ND	218	109	200	4.26	
DRO >C10-C28*	138	10.0	02/22/2021	ND	216	108	200	7.52	
EXT DRO >C28-C36	22.4	10.0	02/22/2021	ND					
Surrogate: 1-Chlorooctane	106 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	109 9	42.2-15	6						

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Celey & Keene



Analytical Results For:

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

Fax To: (575) 393-2432

 Received:
 02/22/2021
 Sampling Date:
 02/22/2021

 Reported:
 02/23/2021
 Sampling Type:
 Soil

Project Name: WP BYRD #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 1 @ 9' (H210406-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.82	
Toluene*	<0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.36	
Ethylbenzene*	<0.050	0.050	02/22/2021	ND	1.99	99.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	02/22/2021	ND	5.78	96.3	6.00	2.49	
Total BTEX	<0.300	0.300	02/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2021	ND	218	109	200	4.26	
DRO >C10-C28*	247	10.0	02/22/2021	ND	216	108	200	7.52	
EXT DRO >C28-C36	45.3	10.0	02/22/2021	ND					
Surrogate: 1-Chlorooctane	114 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	126 9	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 02/22/2021 Sampling Date: 02/22/2021

Reported: 02/23/2021 Sampling Type: Soil
Project Name: WP BYRD #2 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 2 @ 7' (H210406-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.82	
Toluene*	<0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.36	
Ethylbenzene*	<0.050	0.050	02/22/2021	ND	1.99	99.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	02/22/2021	ND	5.78	96.3	6.00	2.49	
Total BTEX	<0.300	0.300	02/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2021	ND	218	109	200	4.26	
DRO >C10-C28*	52.9	10.0	02/22/2021	ND	216	108	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	02/22/2021	ND					
Surrogate: 1-Chlorooctane	106 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	108 9	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 393-2432

 Received:
 02/22/2021
 Sampling Date:
 02/22/2021

 Reported:
 02/23/2021
 Sampling Type:
 Soil

Project Name: WP BYRD #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 2 @ 9' (H210406-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.82	
Toluene*	<0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.36	
Ethylbenzene*	<0.050	0.050	02/22/2021	ND	1.99	99.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	02/22/2021	ND	5.78	96.3	6.00	2.49	
Total BTEX	<0.300	0.300	02/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2021	ND	218	109	200	4.26	
DRO >C10-C28*	189	10.0	02/22/2021	ND	216	108	200	7.52	
EXT DRO >C28-C36	23.8	10.0	02/22/2021	ND					
Surrogate: 1-Chlorooctane	107 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	112 9	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 393-2432

 Received:
 02/22/2021
 Sampling Date:
 02/22/2021

 Reported:
 02/23/2021
 Sampling Type:
 Soil

Project Name: WP BYRD #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: H 1 (H210406-05)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.82	
Toluene*	<0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.36	
Ethylbenzene*	<0.050	0.050	02/22/2021	ND	1.99	99.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	02/22/2021	ND	5.78	96.3	6.00	2.49	
Total BTEX	<0.300	0.300	02/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/22/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2021	ND	218	109	200	4.26	
DRO >C10-C28*	<10.0	10.0	02/22/2021	ND	216	108	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	02/22/2021	ND					
Surrogate: 1-Chlorooctane	107	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	109	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Freene



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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

2	I	age 36 of 95
Company Name:	_	
Danil.	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	CARDINAL Laboratories
1	d, Hobbs, NM FAX (575) 39	atorio
	88240 }-2476	S

	EAY (575) 393-2476		
ompany Name: A A A A A A A A A A A A A A A A A A A		BILL TO	ANALYSIS REGUES!
roject Manager: Rau Su	ckel	P.O. #:	
ddress:		Company:	
ity:	State: Zip:	Attn:	
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roject #:	Project Owner:	City:	
roject Name: LUP Byrd	#2	State: Zip:	
Project I ocation: INP Byld	#2	Phone #:	
roject Location. We Office		Fax #:	
Sampler Name: JEFF Krum		PRESERV SAMPLING	6
FOR LAB USE ONLY	P. MATRIX	PRESERV.	
Lab I.D. Sample I.D.	CONTAINERS ROUNDWATER WASTEWATER OIL SILUDGE	OTHER: CCID/BASE: CCE / COOL OTHER:	BIEX EXI. TPT
1 St 1 @ 5' 1 St 1 @ 7'	# C	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 7 7
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247		3/03/21	1 88
The source is below and Damanes Cardinal's liability and	The section of flamence. 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	ract or tort, shall be limited to the amount paid	y the client for the opplicable
analyses. All claims including those for negligence and any of service. In no event shall Cardinal be liable for incidental or of service.	analyses. All claims including those for negligence and any other cause whatsoever island to receive your business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequential damages, including whose the control repart of the profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequential damages, including under the control repart of the profits incurred by client, its subsidiaries, and it is a service. In no event shall Cardinal be liable for incidental or consequential damages, including under the control repart of the profits incurred by client, its subsidiaries, and it is a service of the control repart of the contro	ins, loss of use, or loss of profits incurred by cli aim is based upon any of the above stated rea	4
affiliates or successors arising out of or related to the perior Relinquished By:	Received By: Time:	Makes	re emailed. Please prov
Relinquished By:	Date: Received By:	The state of the s	REMARKS:
Delivered By: (Circle One)	3.7	dition CHECKED BY:	Standard Bacteria (only) S Rush Cool Intact Yes Yes
Sampler - IIPS - Bus - Other:	Corrected Temp. °C	Tes To	Correction Factor None Nc Nc No Corrected Temp. °C



February 25, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WP BYRD #2

Enclosed are the results of analyses for samples received by the laboratory on 02/24/21 14:32.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 02/24/2021 Reported: 02/25/2021

Project Name: WP BYRD #2
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 02/24/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 10' (H210453-01)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/24/2021	ND	2.17	108	2.00	5.57	
Toluene*	<0.050	0.050	02/24/2021	ND	2.14	107	2.00	5.94	
Ethylbenzene*	<0.050	0.050	02/24/2021	ND	2.08	104	2.00	6.13	
Total Xylenes*	<0.150	0.150	02/24/2021	ND	6.06	101	6.00	5.53	
Total BTEX	<0.300	0.300	02/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2021	ND	209	104	200	3.29	
DRO >C10-C28*	341	10.0	02/24/2021	ND	215	107	200	2.37	
EXT DRO >C28-C36	89.5	10.0	02/24/2021	ND					
Surrogate: 1-Chlorooctane	105 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	119 %	6 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 02/24/2021 Sampling Date: 02/24/2021

Reported: 02/25/2021 Sampling Type: Soil

Project Name: WP BYRD #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NONE GIVEN

Sample ID: SP 2 @ 10' (H210453-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2021	ND	2.17	108	2.00	5.57	
Toluene*	<0.050	0.050	02/24/2021	ND	2.14	107	2.00	5.94	
Ethylbenzene*	<0.050	0.050	02/24/2021	ND	2.08	104	2.00	6.13	
Total Xylenes*	<0.150	0.150	02/24/2021	ND	6.06	101	6.00	5.53	
Total BTEX	<0.300	0.300	02/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 73.3-12	9						
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2021	ND	209	104	200	3.29	
DRO >C10-C28*	731	10.0	02/24/2021	ND	215	107	200	2.37	
EXT DRO >C28-C36	208	10.0	02/24/2021	ND					
Surrogate: 1-Chlorooctane	105 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	116 9	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celey & Keene



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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 Ea (575)	CA
101 East Marland, Hobbs, NM 8824((575) 393-2326 FAX (575) 393-2470	CARDINAL Laboratories
Hobbs, NN FAX (575) 3	tori
93-247	es

(575) 393-2326 FA	FAX (575) 393-2476	ANALYSIS REQUEST
Company Name: Rouche	Corporation	
Project Manager: Sruck	r. baker	
Address:	Company:	
City:	State: Zip: Attn:	
Phone #:	Fax #: Address:	
Project #:	Project Owner: City:	
Project Name: MP By	d #2 State: Zip:	
rioject mation: 1/10 By	Phone #:	
Project Location.	Fax #:	
Sampler Name: JEFF D	PRESERV.	SAMPLING
FOR LAB USE ONLY	MATRIX	
Lab I.D. Sam	G)RAB OR (C)OME # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TIME BTCX EXT. TPM
SP1 @ 1	# # G G VV S S C C S S C C S S C C S S C C S S C C S S C C S S C C S S C C S S C C S S C C S S C C S S C C S S C C S S C C S S S C C S S S C C S	History A A Mill
PLEASE NOTE: Liability and Damages. Cardinal's li	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 application of the a	id by the client for the applicable client, its subsidiaries.
service. In no event shall Cardinal be liable for incide affiliates or successors arising out of or related to the	service. In no event shall Cardinal be liable for incidental or consequental damages, including willow immediate the such claim is based upon any of the above stated reasons or otherwise. 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. Verbal Resu	verbal Result: ☐ Yes ☐ No Add'I Phone #:
Relinquished By:	Time: 1971 Received By: MMDDM	All Results are emailed. Please provide Email address:
Relinquished By:	Date: Received By:	REMARKS: Rush Somples
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Sampler - UPS - Bus - Other:	Corrected Temp. °C HYes FYes	Thermometer ID #113 Correction Factor None No Corrected Temp. °C



October 08, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WP BYRD

Enclosed are the results of analyses for samples received by the laboratory on 10/07/21 16:02.

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

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (575) 393-2432

 Received:
 10/07/2021
 Sampling Date:
 10/07/2021

 Reported:
 10/08/2021
 Sampling Type:
 Soil

Project Name: WP BYRD Sampling Condition: ** (See Notes)

Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 2 @ 11' (H212810-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2021	ND	2.17	109	2.00	5.65	
Toluene*	<0.050	0.050	10/08/2021	ND	2.12	106	2.00	5.85	
Ethylbenzene*	<0.050	0.050	10/08/2021	ND	2.07	104	2.00	5.06	
Total Xylenes*	<0.150	0.150	10/08/2021	ND	6.26	104	6.00	4.73	
Total BTEX	<0.300	0.300	10/08/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	215	107	200	7.96	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	213	107	200	0.584	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					
Surrogate: 1-Chlorooctane	88.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	84.7	% 38.9-14	_						

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Celey D. Keine



Analytical Results For:

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

Fax To: (575) 393-2432

 Received:
 10/07/2021
 Sampling Date:
 10/07/2021

 Reported:
 10/08/2021
 Sampling Type:
 Soil

Project Name: WP BYRD Sampling Condition: ** (See Notes)
Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 2 @ 12' (H212810-02)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2021	ND	2.17	109	2.00	5.65	
Toluene*	<0.050	0.050	10/08/2021	ND	2.12	106	2.00	5.85	
Ethylbenzene*	<0.050	0.050	10/08/2021	ND	2.07	104	2.00	5.06	
Total Xylenes*	<0.150	0.150	10/08/2021	ND	6.26	104	6.00	4.73	
Total BTEX	<0.300	0.300	10/08/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	215	107	200	7.96	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	213	107	200	0.584	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					
Surrogate: 1-Chlorooctane	102 5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	98.8	% 38.9-14	2						

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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: 10/07/2021 Sampling Date: 10/07/2021

Reported: 10/08/2021 Sampling Type: Soil

Project Name: WP BYRD Sampling Condition: ** (See Notes)

Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 2 @ 13' (H212810-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2021	ND	2.17	109	2.00	5.65	
Toluene*	<0.050	0.050	10/08/2021	ND	2.12	106	2.00	5.85	
Ethylbenzene*	<0.050	0.050	10/08/2021	ND	2.07	104	2.00	5.06	
Total Xylenes*	<0.150	0.150	10/08/2021	ND	6.26	104	6.00	4.73	
Total BTEX	<0.300	0.300	10/08/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	69.9-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	215	107	200	7.96	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	213	107	200	0.584	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					
Surrogate: 1-Chlorooctane	94.5 %	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	91.0 %	38.9-14	2						

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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: 10/07/2021 Sampling Date: 10/07/2021

Reported: 10/08/2021 Sampling Type: Soil

Project Name: WP BYRD Sampling Condition: ** (See Notes)
Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 2 @ 14' (H212810-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2021	ND	2.17	109	2.00	5.65	
Toluene*	<0.050	0.050	10/08/2021	ND	2.12	106	2.00	5.85	
Ethylbenzene*	<0.050	0.050	10/08/2021	ND	2.07	104	2.00	5.06	
Total Xylenes*	<0.150	0.150	10/08/2021	ND	6.26	104	6.00	4.73	
Total BTEX	<0.300	0.300	10/08/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	215	107	200	7.96	
DRO >C10-C28*	14.5	10.0	10/08/2021	ND	213	107	200	0.584	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					
Surrogate: 1-Chlorooctane	96.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	92.3	% 38.9-14	2						

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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: 10/07/2021 Sampling Date: 10/07/2021

Reported: 10/08/2021 Sampling Type: Soil Project Name: WP BYRD Sampling Condition: **(

Project Name: WP BYRD Sampling Condition: ** (See Notes)
Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 2 @ 15' (H212810-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2021	ND	2.17	109	2.00	5.65	
Toluene*	<0.050	0.050	10/08/2021	ND	2.12	106	2.00	5.85	
Ethylbenzene*	<0.050	0.050	10/08/2021	ND	2.07	104	2.00	5.06	
Total Xylenes*	<0.150	0.150	10/08/2021	ND	6.26	104	6.00	4.73	
Total BTEX	<0.300	0.300	10/08/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 69.9-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	215	107	200	7.96	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	213	107	200	0.584	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					
Surrogate: 1-Chlorooctane	101 5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	96.4	% 38.9-14	2						

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S-06



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

Notes and Definitions

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

3-00	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.
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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Celeg D. Freene

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

Corrected Temp. °C

101 East Marland, Hobbs, NM 88240 aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler - UPS - Bus - Other: Relinduished By Delivered By: (Circle One) Relinquished B service. In no event shall Cardinal be liable analyses. All claims including those PLEASE NOTE: Liability H21 2810 Project Location: (Sampier Name: Project Name: city: Holds Project #: Phone #: Project Manager: Lab I.D. Company Name: 1.0000 Spa Spa Brun Buler (575) 393-2326 FAX (575) 393-2476 Sample I.D. , h10 8/5 0 Observed Temp. °C Q.O Corrected Temp. °C 8.5 Project Owner: Fax #: 20:91 State: WYZip: 88340 Series Received By: Received By: (G)RAB OR (C)OMP # CONTAINERS Sample Condition
Cool Intact
Yes 1 Yes
No 1 No WASTEWATER SOIL MATRIX OIL SLUDGE OTHER Fax #: State: Phone #: City: Address: Attn: Company: P.O. #: ACIQ/BASE CHECKED BY: PRESERV CE COOL BILL 10-7 Zip: DATE 70 SAMPLING Turnaround Time: All Results are emailed. Please provide Email address 3:107 REMARKS Wee Scieline 13 @gment. Com tion of the applicable -0.5c Standard Rush ONO Add'l Phone #: ANALYSIS Bacteria (only) Sample Condition
Cool Intact Observed Temp.

Yes Yes
No Corrected Temp. REQUEST Observed Temp. °C



October 12, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WP BYRD

Enclosed are the results of analyses for samples received by the laboratory on 10/11/21 16:40.

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

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 10/11/2021 Sampling Date: 10/11/2021

Reported: 10/12/2021 Sampling Type: Soil

Project Name: WP BYRD Sampling Condition: Cool & Intact
Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Analyzed By: CK

Project Location: NONE GIVEN

mg/kg

Sample ID: W 1 BGS 1'-11' (H212842-01)

BTEX 8021B

DILX 6021D	ilig	/ Ng	Allalyze	u by. CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2021	ND	2.01	101	2.00	1.84	
Toluene*	<0.050	0.050	10/11/2021	ND	1.95	97.5	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/11/2021	ND	1.91	95.7	2.00	2.04	
Total Xylenes*	<0.150	0.150	10/11/2021	ND	5.82	96.9	6.00	1.85	
Total BTEX	<0.300	0.300	10/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/12/2021	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2021	ND	194	96.9	200	2.81	
DRO >C10-C28*	<10.0	10.0	10/12/2021	ND	227	114	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	10/12/2021	ND					
Surrogate: 1-Chlorooctane	110	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	104	% 38.9-14	2						

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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: 10/11/2021 Sampling Date: 10/11/2021

Reported: 10/12/2021 Sampling Type: Soil

Project Name: WP BYRD Sampling Condition: Cool & Intact
Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: B 1 @ 11' (H212842-02)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2021	ND	2.01	101	2.00	1.84	
Toluene*	<0.050	0.050	10/11/2021	ND	1.95	97.5	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/11/2021	ND	1.91	95.7	2.00	2.04	
Total Xylenes*	<0.150	0.150	10/11/2021	ND	5.82	96.9	6.00	1.85	
Total BTEX	<0.300	0.300	10/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/12/2021	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2021	ND	194	96.9	200	2.81	
DRO >C10-C28*	<10.0	10.0	10/12/2021	ND	227	114	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	10/12/2021	ND					
Surrogate: 1-Chlorooctane	106	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	101	% 38.9-14	2						

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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: 10/11/2021 Sampling Date: 10/11/2021

Reported: Sampling Type: Soil 10/12/2021

Project Name: WP BYRD Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: W.P. BYRD LEASE

Project Location: NONE GIVEN

Sample ID: W 2 BGS 1'-11' (H212842-03)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2021	ND	2.01	101	2.00	1.84	
Toluene*	<0.050	0.050	10/11/2021	ND	1.95	97.5	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/11/2021	ND	1.91	95.7	2.00	2.04	
Total Xylenes*	<0.150	0.150	10/11/2021	ND	5.82	96.9	6.00	1.85	
Total BTEX	<0.300	0.300	10/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/12/2021	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2021	ND	194	96.9	200	2.81	
DRO >C10-C28*	<10.0	10.0	10/12/2021	ND	227	114	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	10/12/2021	ND					
Surrogate: 1-Chlorooctane	106 9	26 44.3-13	3						
Surrogate: 1-Chlorooctadecane	102 9	% 38.9-14	2						

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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: 10/11/2021 Sampling Date: 10/11/2021

Reported: Sampling Type: Soil 10/12/2021

Project Name: WP BYRD Sampling Condition: Cool & Intact Sample Received By: Project Number: W.P. BYRD LEASE Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: B 2 @ 11' (H212842-04)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2021	ND	2.01	101	2.00	1.84	
Toluene*	<0.050	0.050	10/11/2021	ND	1.95	97.5	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/11/2021	ND	1.91	95.7	2.00	2.04	
Total Xylenes*	<0.150	0.150	10/11/2021	ND	5.82	96.9	6.00	1.85	
Total BTEX	<0.300	0.300	10/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/12/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2021	ND	194	96.9	200	2.81	
DRO >C10-C28*	10.8	10.0	10/12/2021	ND	227	114	200	0.922	
EXT DRO >C28-C36	<10.0	10.0	10/12/2021	ND					
Surrogate: 1-Chlorooctane	101 5	44.3-13	3						
Surrogate: 1-Chlorooctadecane	99.6	% 38.9-14	2						

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Laboratories

101 East Marland, Hobbs, NM 8824

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

Project Manager (P)	ANAI YSIS	1704
Address;	P.O. #:	JEST
City: Holdos State: NN Zip: 883um	Company:	
Fax #:	Address:	
Project Name: Project Name:	City:	
Project Location: (1) 2 0	State: Zip:	
Sampler Name: A Colored Lease	Phone #:	
Mich Clar See Ver Oc.	Fax #:	
	PRESERV. SAMPLING	
(C)ON ERS	PH	
B OF	ASE: OOL	
*	TIME CALLED	
201011	9:46 XXX	-
\$ 1211	10-11 11:03 X X X X	
	18 ×	
ASS 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	tort, shall be limited to the amount paid by the client for the	
tes or successorts ariding out of or related to the performance of services hereunder by Cardinal, regardless of wheether such original to a loss of profits incurred by Cardinal, regardless of wheether such original profits on a 7 of the above stated reasons or otherwise.	To use the state of profits incurred by client, its subsidiaries, or loss of profits incurred by client, its subsidiaries, essed upon a "y of the above stated reasons or otherwise."	
10-11	Verbal Result: ☐ Yes	
industried Brunch 16:40 Musta		
Time	REMARKS:	
or of	Emui) dec/Bruce	
ner: Corrected Temp. °C	CHECKED BY: Turnaround Time: Standard Bacteria (only) S	le Condition
FORM-000 R 3.1 00/04/20 + Cardinal Canada	Yes Yes	Corrected Temp. C
		conceased fellipt. C

Page 7 of 7



October 14, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WP BYRD

Enclosed are the results of analyses for samples received by the laboratory on 10/13/21 16:45.

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

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 10/13/2021 Sampling Date: 10/13/2021

Reported: 10/14/2021 Sampling Type: Soil

Project Name: WP BYRD Sampling Condition: Cool & Intact
Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: NONE GIVEN

mg/kg

Sample ID: W 3 BGS 1'-11' (H212879-01)

BTEX 8021B

	****91	9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2021	ND	2.03	102	2.00	5.82	
Toluene*	<0.050	0.050	10/14/2021	ND	2.05	102	2.00	4.29	
Ethylbenzene*	<0.050	0.050	10/14/2021	ND	2.08	104	2.00	4.56	
Total Xylenes*	<0.150	0.150	10/14/2021	ND	6.23	104	6.00	5.18	
Total BTEX	<0.300	0.300	10/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2021	ND	207	104	200	5.94	
DRO >C10-C28*	<10.0	10.0	10/14/2021	ND	215	108	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	10/14/2021	ND					
Surrogate: 1-Chlorooctane	139	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	148	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received: 10/13/2021 Sampling Date: 10/13/2021

Reported: Sampling Type: Soil 10/14/2021

Project Name: WP BYRD Sampling Condition: Cool & Intact Sample Received By: Project Number: W.P. BYRD LEASE Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: B 3 @ 11' (H212879-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2021	ND	2.03	102	2.00	5.82	
Toluene*	<0.050	0.050	10/14/2021	ND	2.05	102	2.00	4.29	
Ethylbenzene*	<0.050	0.050	10/14/2021	ND	2.08	104	2.00	4.56	
Total Xylenes*	<0.150	0.150	10/14/2021	ND	6.23	104	6.00	5.18	
Total BTEX	<0.300	0.300	10/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2021	ND	207	104	200	5.94	
DRO >C10-C28*	53.2	10.0	10/14/2021	ND	215	108	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	10/14/2021	ND					
Surrogate: 1-Chlorooctane	130 9	44.3-13	3						
Surrogate: 1-Chlorooctadecane	136 9	38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

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

Received: 10/13/2021 Sampling Date: 10/13/2021

Reported: 10/14/2021 Sampling Type: Soil

Project Name: WP BYRD Sampling Condition: Cool & Intact
Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: B 4 @ 11' (H212879-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2021	ND	2.03	102	2.00	5.82	
Toluene*	<0.050	0.050	10/14/2021	ND	2.05	102	2.00	4.29	
Ethylbenzene*	<0.050	0.050	10/14/2021	ND	2.08	104	2.00	4.56	
Total Xylenes*	<0.150	0.150	10/14/2021	ND	6.23	104	6.00	5.18	
Total BTEX	<0.300	0.300	10/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/14/2021	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2021	ND	207	104	200	5.94	
DRO >C10-C28*	64.8	10.0	10/14/2021	ND	215	108	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	10/14/2021	ND					
Surrogate: 1-Chlorooctane	133	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	141	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Relinquished By: Well

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp. °C Corrected Temp. °C

6,3

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

Cool Intact

Corrected Temp. °C Observed Temp. °C

Bacteria (only) Sample Condition

Thermometer ID #113
Correction Factor None - O.S.C.

Cool Intact
Ares Ares
No No Sample Condition Time:

Received By

REMARKS:

All Results are emailed. Please provide Email address:

ONO

Relinquished By

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(5/5) 393-2320 FAA (3/3) 333-24/0		
Company Name: ()	BILL TO	ANALYSIS REQUEST
Project Manager: Richard	P.O. #:	
Address:	Company:	
City: Halas State: VIX zip: 44240	Attn:	
	Address:	
Project #: Project Owner:	City:	
Project Name:	State: Zip:	
Project Location: INP	Phone #:	
O SARA	Fax #:	
4	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D.	CONTAINERS GROUNDWATER WASTEWATER GOIL DIL GRUDGE DTHER: ACID/BASE: CE/COOL DTHER:	CL EXT TPL BTEX
\$ 1-11	\ (No. No.
2 2301.	1 X Y 10-13 2:32	* ?
PLEASE NOTE: Liability and Damages. Cardinal's liability and olient sections removely or any carm arrange unless made in writing and exceeded very carminative or consideration of the analysis of the carminative or carmin	y and Damages. Cardinal's liability and client's sociousne temedy for any cuairn airasing winner or consequence of the applicable.	of the applicable



October 15, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WP BYRD

Enclosed are the results of analyses for samples received by the laboratory on 10/14/21 16:15.

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

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 10/14/2021 Sampling Date: 10/14/2021

Reported: 10/15/2021 Sampling Type: Soil

Project Name: WP BYRD Sampling Condition: Cool & Intact
Project Number: WP BYRD BATTERY Sample Received By: Brandi Oldaker

Project Location: NONE GIVEN

Sample ID: W 4 @ 11' (H212898-01)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2021	ND	2.11	105	2.00	3.39	
Toluene*	<0.050	0.050	10/14/2021	ND	2.10	105	2.00	6.43	
Ethylbenzene*	<0.050	0.050	10/14/2021	ND	2.11	106	2.00	7.96	
Total Xylenes*	<0.150	0.150	10/14/2021	ND	6.40	107	6.00	6.51	
Total BTEX	<0.300	0.300	10/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/15/2021	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	10/14/2021	ND	218	109	200	0.0890	
DRO >C10-C28*	<10.0	10.0	10/14/2021	ND	216	108	200	0.0814	
EXT DRO >C28-C36	<10.0	10.0	10/14/2021	ND					
Surrogate: 1-Chlorooctane	87.9	% 44.3-13.	3						
Surrogate: 1-Chlorooctadecane	86.3	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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Celeg & Frence



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 10/14/2021 Sampling Date: 10/14/2021

Reported: 10/15/2021 Sampling Type: Soil

Project Name: WP BYRD Sampling Condition: Cool & Intact
Project Number: WP BYRD BATTERY Sample Received By: Brandi Oldaker

Project Location: NONE GIVEN

Sample ID: B 5 @ 11' (H212898-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2021	ND	2.11	105	2.00	3.39	
Toluene*	<0.050	0.050	10/14/2021	ND	2.10	105	2.00	6.43	
Ethylbenzene*	<0.050	0.050	10/14/2021	ND	2.11	106	2.00	7.96	
Total Xylenes*	<0.150	0.150	10/14/2021	ND	6.40	107	6.00	6.51	
Total BTEX	<0.300	0.300	10/14/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/15/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2021	ND	218	109	200	0.0890	
DRO >C10-C28*	57.0	10.0	10/14/2021	ND	216	108	200	0.0814	
EXT DRO >C28-C36	<10.0	10.0	10/14/2021	ND					
Surrogate: 1-Chlorooctane	81.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	80.7	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



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.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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

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 whistoever 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 is 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.

Celeg D. Freene

2590

Relinquished By:

Time: 15 pm 15 langer

Time:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Corrected Temp. °C Observed Temp. °C

2.0 +

Cool Intact

Yes Yes

No No Sample Condition

> 1.40 (Initials) CHECKED BY:

(Rw

Thermometer ID #113
Correction Factor Nene

-0.50

Cool Intact

Corrected Temp. °C

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Turnaround Time:

Standard Rush

Relinquished By:

service. In no event shall Cardinal be liable for incidental or con 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 limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

All Results are emailed. Please provide Email address:

Verbal Result:

☐ Yes

□ No

Add'l Phone #:

REMARKS:

ENail Results

Received By:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

7		511.40	
Company Name: /- Occh (BILL 10	ANALTSIS REGUEST
Project Manager: Bruce Bake		P.O. #:	
Address:		Company:	
City: Mobs State: NM	State: NM Zip: 87240	Attn:	
Phone #: Fax #:		Address:	
Project #: Project Owner:		City:	
Project Name:		State: Zip:	
Project Location: W. P. BPRD BAKE		Phone #:	
Jos A	7	Fax #:	
	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	CONTAINERS ROUNDWATER VASTEWATER OIL LUDGE	THER: CID/BASE: EE / COOL THER:	C/ BTEX EXTPH
	_		
2BS @11'	C ,	55:38 myor	
		•	
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	any claim arising whether based in contract o	or tort, shall be limited to the amount paid by the client for	or the



October 18, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WP BYRD

Enclosed are the results of analyses for samples received by the laboratory on 10/15/21 16:58.

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

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 10/15/2021 Sampling Date: 10/15/2021

Reported: 10/18/2021 Sampling Type: Soil

WP BYRD Project Name: Sampling Condition: Cool & Intact Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: W 5 BGS 1'-11' (H212913-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2021	ND	2.05	102	2.00	5.30	
Toluene*	<0.050	0.050	10/18/2021	ND	1.99	99.3	2.00	5.38	
Ethylbenzene*	<0.050	0.050	10/18/2021	ND	1.94	97.0	2.00	5.52	
Total Xylenes*	<0.150	0.150	10/18/2021	ND	5.82	97.0	6.00	5.58	
Total BTEX	<0.300	0.300	10/18/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/18/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	226	113	200	4.47	
DRO >C10-C28*	<10.0	10.0	10/18/2021	ND	221	111	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	78.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	74.2	% 38.9-14	2						

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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: 10/15/2021 Sampling Date: 10/15/2021

Reported: 10/18/2021 Sampling Type: Soil

Project Name: WP BYRD Sampling Condition: Cool & Intact
Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: B 6 @ 11' (H212913-02)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2021	ND	2.05	102	2.00	5.30	
Toluene*	<0.050	0.050	10/18/2021	ND	1.99	99.3	2.00	5.38	
Ethylbenzene*	<0.050	0.050	10/18/2021	ND	1.94	97.0	2.00	5.52	
Total Xylenes*	<0.150	0.150	10/18/2021	ND	5.82	97.0	6.00	5.58	
Total BTEX	<0.300	0.300	10/18/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
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	10/18/2021	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	226	113	200	4.47	
DRO >C10-C28*	57.2	10.0	10/18/2021	ND	221	111	200	4.29	
EXT DRO >C28-C36	15.2	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	79.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	77.4	% 38.9-14	2						

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10/15/2021

Analytical Results For:

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

Received: 10/15/2021 Sampling Date:

Reported: 10/18/2021 Sampling Type: Soil

Project Name: WP BYRD Sampling Condition: Cool & Intact
Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: W 6 BGS 1'-11' (H212913-03)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2021	ND	2.05	102	2.00	5.30	
Toluene*	<0.050	0.050	10/18/2021	ND	1.99	99.3	2.00	5.38	
Ethylbenzene*	<0.050	0.050	10/18/2021	ND	1.94	97.0	2.00	5.52	
Total Xylenes*	<0.150	0.150	10/18/2021	ND	5.82	97.0	6.00	5.58	
Total BTEX	<0.300	0.300	10/18/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
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	10/18/2021	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	226	113	200	4.47	
DRO >C10-C28*	<10.0	10.0	10/18/2021	ND	221	111	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	87.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	83.7	% 38.9-14	2						

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10/15/2021

Analytical Results For:

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

Received: 10/15/2021 Sampling Date:

Reported: Sampling Type: Soil 10/18/2021

Project Name: WP BYRD Sampling Condition: Cool & Intact Sample Received By: Project Number: W.P. BYRD LEASE Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: B 7 @ 11' (H212913-04)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2021	ND	2.05	102	2.00	5.30	
Toluene*	<0.050	0.050	10/18/2021	ND	1.99	99.3	2.00	5.38	
Ethylbenzene*	<0.050	0.050	10/18/2021	ND	1.94	97.0	2.00	5.52	
Total Xylenes*	<0.150	0.150	10/18/2021	ND	5.82	97.0	6.00	5.58	
Total BTEX	<0.300	0.300	10/18/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
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	10/18/2021	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	226	113	200	4.47	
DRO >C10-C28*	40.8	10.0	10/18/2021	ND	221	111	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	85.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.7	% 38.9-14	2						

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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: 10/15/2021 Sampling Date: 10/15/2021

Reported: 10/18/2021 Sampling Type: Soil

Project Name: WP BYRD Sampling Condition: Cool & Intact
Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: W 7 BGS 1'-11' (H212913-05)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2021	ND	2.05	102	2.00	5.30	
Toluene*	<0.050	0.050	10/18/2021	ND	1.99	99.3	2.00	5.38	
Ethylbenzene*	<0.050	0.050	10/18/2021	ND	1.94	97.0	2.00	5.52	
Total Xylenes*	<0.150	0.150	10/18/2021	ND	5.82	97.0	6.00	5.58	
Total BTEX	<0.300	0.300	10/18/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/18/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	226	113	200	4.47	
DRO >C10-C28*	<10.0	10.0	10/18/2021	ND	221	111	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	79.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	75.0	% 38.9-14	2						

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Celey D. Keene



Analytical Results For:

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

Received: 10/15/2021 Sampling Date: 10/15/2021

Reported: Sampling Type: Soil 10/18/2021

Project Name: WP BYRD Sampling Condition: Cool & Intact Sample Received By: Project Number: W.P. BYRD LEASE Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: W 8 BGS 1'-11' (H212913-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2021	ND	2.05	102	2.00	5.30	
Toluene*	<0.050	0.050	10/18/2021	ND	1.99	99.3	2.00	5.38	
Ethylbenzene*	<0.050	0.050	10/18/2021	ND	1.94	97.0	2.00	5.52	
Total Xylenes*	<0.150	0.150	10/18/2021	ND	5.82	97.0	6.00	5.58	
Total BTEX	<0.300	0.300	10/18/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/18/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	226	113	200	4.47	
DRO >C10-C28*	<10.0	10.0	10/18/2021	ND	221	111	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	80.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	76.5	% 38.9-14	2						

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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: 10/15/2021 Sampling Date: 10/15/2021

Reported: 10/18/2021 Sampling Type: Soil

Project Name: WP BYRD Sampling Condition: Cool & Intact
Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: B 8 @ 11' (H212913-07)

Benzene* <0.050 0.050 10/18/2021 ND 2.05 102 2.00 5.30	BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Toluene* < 0.050	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene* < 0.050 0.050 10/18/2021 ND 1.94 97.0 2.00 5.52 Total Xylenes* < 0.150 0.150 10/18/2021 ND 5.82 97.0 6.00 5.58 Total BTEX < 0.300 0.300 10/18/2021 ND 5.82 97.0 6.00 5.58 Surrogate: 4-Bromofluorobenzene (PID 102 % 69.9-140 Chloride, SM4500Cl-B mg/kg Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride 16.0 16.0 10/18/2021 ND 400 100 400 3.92 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* < 10.0 10.0 10/18/2021 ND 226 113 200 4.47 DRO >C10-C28* < 10.0 10.0 10/18/2021 ND 221 111 200 4.25 EXT DRO >C28-C36 < 10.0 10.0 10/18/2021 ND Surrogate: 1-Chlorooctane 84.1 % 44.3-133	Benzene*	<0.050	0.050	10/18/2021	ND	2.05	102	2.00	5.30	
Total Xylenes*	Toluene*	<0.050	0.050	10/18/2021	ND	1.99	99.3	2.00	5.38	
Total BTEX	Ethylbenzene*	<0.050	0.050	10/18/2021	ND	1.94	97.0	2.00	5.52	
Surrogate: 4-Bromofluorobenzene (PID 102 % 69.9-140 Chloride, SM4500Cl-B mg/kg Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPD Chloride 16.0 16.0 10/18/2021 ND 400 100 400 3.92 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 10/18/2021 ND 226 113 200 4.47	Total Xylenes*	<0.150	0.150	10/18/2021	ND	5.82	97.0	6.00	5.58	
Chloride, SM4500Cl-B mg/kg Analyzed By: GM Analyte Result Reporting Limit Analyzed Diametral Di	Total BTEX	<0.300	0.300	10/18/2021	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride 16.0 16.0 10/18/2021 ND 400 100 400 3.92 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 10/18/2021 ND 226 113 200 4.47 DRO >C10-C28* <10.0 10.0 10/18/2021 ND 221 111 200 4.29 EXT DRO >C28-C36 <10.0 10.0 10/18/2021 ND Surrogate: 1-Chlorooctane 84.1 % 44.3-133	Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride 16.0 16.0 10/18/2021 ND 400 100 400 3.92 TPH 8015M mg/kg Analyzed By: MS MS Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: GM					
TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 10/18/2021 ND 226 113 200 4.47 DRO >C10-C28* <10.0 10.0 10/18/2021 ND 221 111 200 4.29 EXT DRO >C28-C36 <10.0 10.0 10/18/2021 ND Surrogate: 1-Chlorooctane 84.1 % 44.3-133	Chloride	16.0	16.0	10/18/2021	ND	400	100	400	3.92	
GRO C6-C10* <10.0 10.0 10/18/2021 ND 226 113 200 4.47 DRO >C10-C28* <10.0 10.0 10/18/2021 ND 221 111 200 4.29 EXT DRO >C28-C36 <10.0 10.0 10/18/2021 ND Surrogate: 1-Chlorooctane 84.1 % 44.3-133	TPH 8015M	mg,	/kg	Analyze	ed By: MS					
DRO >C10-C28* < 10.0 10.0 10/18/2021 ND 221 111 200 4.29 EXT DRO >C28-C36 <10.0 10.0 10/18/2021 ND Surrogate: 1-Chlorooctane 84.1 % 44.3-133	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 <10.0 10.0 10/18/2021 ND Surrogate: 1-Chlorooctane 84.1 % 44.3-133	GRO C6-C10*	<10.0	10.0	10/18/2021	ND	226	113	200	4.47	
Surrogate: 1-Chlorooctane 84.1 % 44.3-133	DRO >C10-C28*	<10.0	10.0	10/18/2021	ND	221	111	200	4.29	
	EXT DRO >C28-C36	<10.0	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctadecane 79.9 % 38.9-142	Surrogate: 1-Chlorooctane	84.1	% 44.3-13	3						
-	Surrogate: 1-Chlorooctadecane	79.9	% 38.9-14	2						

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Celey D. Keene



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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: \(\)		BILL TO		AN	ANALYSIS REQUEST	IEST	
Project Manager: Bout Colon &	٥	P.O. #:					
Address:	C	Company:					
City: 40005 State: ()() Zip:8	A OHCES:diz	Attn:					-
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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.	rising whether based in contract or trained unless made in writing and re	ort, shall be limited to the amount paid ceived by Cardinal within 30 days after	d by the client for the completion of the applica	ble.			E
affiliates or successors arising out of or related to the performance of services F-creunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Received By: Received By:	dinal, regardless of whether such claim is b Received By:	Date: Received By:	Verbal Result:	☐ Yes ☐ No A	Add'I Phone #:	2	7
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Delivered By: (Circle One) Observed Temp. °C 4.3 Sampler LIPS - Rus - Other Corrected Temp. °C 3.0	Sample Condition Cool Intact Yes Yes	(Initials)	Turnaround Time: Thermometer ID #1	ne: Standard	_	Bacteria (only) sample Condition Cool Intact Observed Temp. °C Yes Yes	67



October 27, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WP BYRD

Enclosed are the results of analyses for samples received by the laboratory on 10/26/21 13:05.

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

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

 Received:
 10/26/2021
 Sampling Date:
 10/26/2021

 Reported:
 10/27/2021
 Sampling Type:
 Soil

Project Name: WP BYRD Sampling Condition: Cool & Intact
Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

A ... - L ... - - - I D. .. MC

Project Location: NONE GIVEN

Sample ID: B 9 @ 2' (H213009-01)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/26/2021	ND	1.98	99.1	2.00	9.01	
Toluene*	<0.050	0.050	10/26/2021	ND	1.89	94.7	2.00	8.26	
Ethylbenzene*	<0.050	0.050	10/26/2021	ND	1.90	94.9	2.00	8.39	
Total Xylenes*	<0.150	0.150	10/26/2021	ND	5.81	96.9	6.00	7.11	
Total BTEX	<0.300	0.300	10/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/26/2021	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2021	ND	226	113	200	2.01	
DRO >C10-C28*	547	10.0	10/27/2021	ND	223	112	200	3.10	
EXT DRO >C28-C36	275	10.0	10/27/2021	ND					
Surrogate: 1-Chlorooctane	77.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	88.3	% 38.9-14	2						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 10/26/2021 Sampling Date: 10/26/2021

Reported: 10/27/2021 Sampling Type: Soil

Project Name: WP BYRD Sampling Condition: Cool & Intact
Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: B 10 @ 2' (H213009-02)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/26/2021	ND	1.98	99.1	2.00	9.01	
Toluene*	<0.050	0.050	10/26/2021	ND	1.89	94.7	2.00	8.26	
Ethylbenzene*	<0.050	0.050	10/26/2021	ND	1.90	94.9	2.00	8.39	
Total Xylenes*	<0.150	0.150	10/26/2021	ND	5.81	96.9	6.00	7.11	
Total BTEX	<0.300	0.300	10/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/26/2021	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2021	ND	226	113	200	2.01	
DRO >C10-C28*	172	10.0	10/27/2021	ND	223	112	200	3.10	
EXT DRO >C28-C36	210	10.0	10/27/2021	ND					
Surrogate: 1-Chlorooctane	85.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	89.3	% 38.9-14	2						

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Celey D. Keine



10/26/2021

Analytical Results For:

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

Received: 10/26/2021 Sampling Date:

Reported: 10/27/2021 Sampling Type: Soil

Project Name: WP BYRD Sampling Condition: Cool & Intact
Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: W 9 BGS 1-2' (H213009-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/26/2021	ND	1.98	99.1	2.00	9.01	
Toluene*	<0.050	0.050	10/26/2021	ND	1.89	94.7	2.00	8.26	
Ethylbenzene*	<0.050	0.050	10/26/2021	ND	1.90	94.9	2.00	8.39	
Total Xylenes*	<0.150	0.150	10/26/2021	ND	5.81	96.9	6.00	7.11	
Total BTEX	<0.300	0.300	10/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/26/2021	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2021	ND	226	113	200	2.01	
DRO >C10-C28*	25.5	10.0	10/27/2021	ND	223	112	200	3.10	
EXT DRO >C28-C36	34.1	10.0	10/27/2021	ND					
Surrogate: 1-Chlorooctane	75.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	78.0	% 38.9-14	22						

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Celey D. Kune



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 10/26/2021 Sampling Date: 10/26/2021

Reported: 10/27/2021 Sampling Type: Soil

Project Name: WP BYRD Sampling Condition: Cool & Intact
Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: W 10 BGS 1-2' (H213009-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/26/2021	ND	1.98	99.1	2.00	9.01	
Toluene*	<0.050	0.050	10/26/2021	ND	1.89	94.7	2.00	8.26	
Ethylbenzene*	<0.050	0.050	10/26/2021	ND	1.90	94.9	2.00	8.39	
Total Xylenes*	<0.150	0.150	10/26/2021	ND	5.81	96.9	6.00	7.11	
Total BTEX	<0.300	0.300	10/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/26/2021	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2021	ND	226	113	200	2.01	
DRO >C10-C28*	206	10.0	10/27/2021	ND	223	112	200	3.10	
EXT DRO >C28-C36	144	10.0	10/27/2021	ND					
Surrogate: 1-Chlorooctane	76.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	84.4	% 38.9-14	2						

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Celey D. Keene



Analytical Results For:

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

,

 Received:
 10/26/2021
 Sampling Date:
 10/26/2021

 Reported:
 10/27/2021
 Sampling Type:
 Soil

Project Name: WP BYRD Sampling Condition: Cool & Intact
Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: W 11 BGS 1-2' (H213009-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/26/2021	ND	1.98	99.1	2.00	9.01	
Toluene*	<0.050	0.050	10/26/2021	ND	1.89	94.7	2.00	8.26	
Ethylbenzene*	<0.050	0.050	10/26/2021	ND	1.90	94.9	2.00	8.39	
Total Xylenes*	<0.150	0.150	10/26/2021	ND	5.81	96.9	6.00	7.11	
Total BTEX	<0.300	0.300	10/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/26/2021	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2021	ND	226	113	200	2.01	
DRO >C10-C28*	429	10.0	10/27/2021	ND	223	112	200	3.10	
EXT DRO >C28-C36	445	10.0	10/27/2021	ND					
Surrogate: 1-Chlorooctane	76.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	87.6	% 38.9-14	2						

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Celey D. Keine



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.
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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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: A par Ma	BILL TO			A	NAI VS	-	TODI		
Project Manager: Bruce Bulgar	100		-	١,	AIMAL I OIO		עבעטבטו		1
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City: Holdos State: ULL Zip: \$8040	Attn:		-						
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usimages. Cardinat's lability and client's exclusive remedy for any those for negligence and any other cause whatsoever shall be de final be lable for incidental or consequental damages, including would of or related to the performance of services hereunds: by Cardinat of or related to the performance of services hereunds: by Cardinated to the performance of services hereunds:	claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the erned waived unless made in writing and received by Coordinal within 30 days after completion of the lithou. Ilmitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiate fifted i repair/less of whether such claim is based more area of the polymeration.	ient for the on of the applicable ubsidiaries,						-	į
	// Verba	Verbal Result: ☐ Yes ☐ No Add'i Phone #: All Results are emailed. Please provide Email address:	Yes 🗆	□ No Ad	Add'l Phone #: ide Email addre	ess:			
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† Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com

Page 8 of 8



November 01, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WP BYRD

Enclosed are the results of analyses for samples received by the laboratory on 10/29/21 14:00.

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

Cardinal Laboratories is accreditated 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.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 10/29/2021 Sampling Date: 10/29/2021

Reported: 11/01/2021 Sampling Type: Soil

Project Name: WP BYRD Sampling Condition: Cool & Intact
Project Number: W.P. BYRD LEASE Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: W 10 BGS 1-2' (H213057-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2021	ND	2.14	107	2.00	2.68	
Toluene*	<0.050	0.050	10/29/2021	ND	2.03	102	2.00	2.80	
Ethylbenzene*	<0.050	0.050	10/29/2021	ND	2.05	102	2.00	3.25	
Total Xylenes*	<0.150	0.150	10/29/2021	ND	6.21	104	6.00	3.95	
Total BTEX	<0.300	0.300	10/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2021	ND	223	111	200	2.77	
DRO >C10-C28*	<10.0	10.0	10/29/2021	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	10/29/2021	ND					
Surrogate: 1-Chlorooctane	82.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	85.2	% 38.9-14	2						

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Mile Sough

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



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

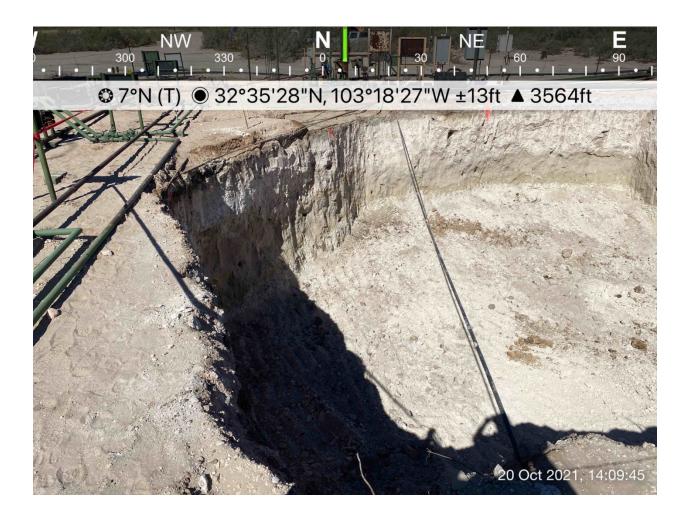
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

oratories

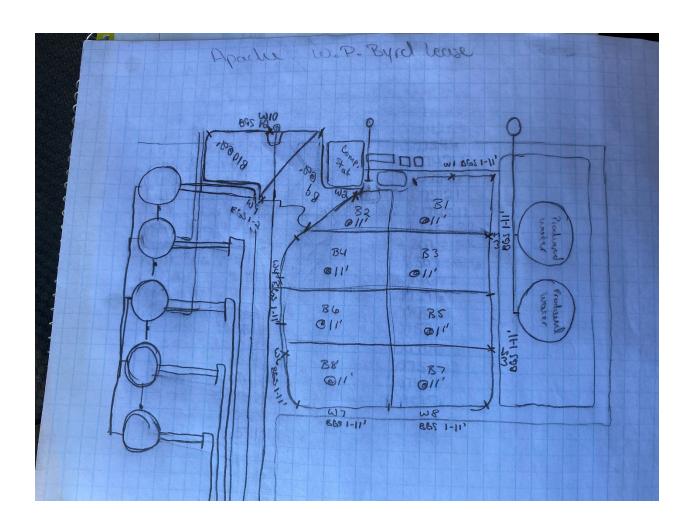
101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

lanager: Bruce Balent P.O.#	OILL TO	ANALYSIS R	REQUEST
Company			
City: Hobbos State: N. M. Zip: 88200 Attn:	2		
Fax #:			
Project #: Project Owner: City:	***		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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	SAMPLING		1
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PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive compete for our dis-			
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.	the amount paid by the client for the notice ble in 30 days after completion of the applicable		
affiliates or successors arisargula of or related to the performance of services hereunder by Cerdinal, regardle a of whether such claim is based upon any of the above stated reasons or otherwise.	ts incurred by client, its subsidiaries, above stated reasons or otherwise.		
10 Date: Re	Verbal Result: ☐ Yes ☐ No	No Add'I Phone #:	
1:00	All Results are emailed. Please provide Email address:	provide Email address:	
,	REMARKS:		
Time:			
Samp	Turnaround Time:		Sample Condition
Gool Intact Yes Yes	Thermometer ID #113	N RI	Cool Intact Observed Temp. °C
t annu	Correction Factor None - 0, 5 e	No No	Corrected Temp. °C









Apache			
BUILDING STATE		_	
WP Byrd	Cease	final Sumples	
w1 BGS 1-11'	32.5913910	-103.3074555	
W2 BGS 1-11'	32.5913877	-103.3075182	
W3 BGS 1-11'	32.5913634	-103.3074253	
104 365 1-11'	32.5913447	-103.3075463	
105 BGS 1-11'	32.5913096	-103.3074260	
	32.5912925	-103.3075467	
W7 BGS 1-11'	32.5912730	-103.3075121	
W8 B651-11	32.5912701	103.3074511	
w9 BGS 1-2'	32 7413408	-103. 30 15 8 5 4	
W10 BGS 1-21	32 0414440	-103.3075832 -103.3075752 -103.3075416	
WII 18GS 1-2'	32.5914111	-103,3074682	
BI OII 32.5	0915178	-103.3075168	
B2 011' 32.5	9413814	-103,30742.88	
B3 @11' 32.5	413228	-103,3075279	
Bu o11' 3250		-103.3074608	
B5 @11' 32.50		-103,3075202	
Ble 11', 3259	13/19	-103, 3074551	
	12899		
B8 @11' 32.59	THE RESIDENCE OF THE PARTY OF T	-103.3075158	
B9 02' 32 50	CONTRACTOR OF THE PARTY OF THE	403.3075564	
B10@21 32.5	914266	-103.3075919	
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		THE SECOND SECON	

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

CONDITIONS

Action 62105

CONDITIONS

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	62105
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensle	Apache's deferral requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first is approved. The deferred C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	12/17/2021