



303 Veterans Airpark Lane Midland, TX 79705

**Closure Report**

October 16, 2020

Re: Payday #2 TB  
Case # NRM2005554490

On 9/21/2020 the release area was excavated to depths of 1' and 3'. On 09/23/2020 Apache Corporation began collecting final 5-point bottom and wall composites samples in accordance with the approved OCD remediation plan. All samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results indicate that all samples were below table 1 standards for releases less than or equal to 50 feet to groundwater. Approximately 168 yards of excavated material was taken to an approved OCD disposal facility. The excavation was backfilled with clean imported caliche.

Apache Corporation has completed remediation activities in accordance with NMOCD closure criteria and respectfully request closure of NRM2005554490.

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

Submitted by;

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

**Environmental Technician**

Jeffrey.Broom@apachecorp.com

**Cell# 432-664-4677**

Incident ID	NRM2005554490
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Jeffrey Broom

Title: Environmental Technician

Signature: Jeff Broom

Date: 10/16/2020

email: Jeffrey.Broom@apachecorp.com

Telephone: 432.664.4677

**OCD Only**

Received by: Cristina Eads

Date: 10/16/2020

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

Closure Approved by: Cristina Eads

Date: 12/04/2020

Printed Name: Cristina Eads

Title: Environmental Specialist





Payday #2

W3

W4

W7

W6

W5

W8

W1

W2





Payday #2

- B1
- B2
- B3
- B4
- B5
- B6
- B7
- B8
- B9
- B10
- B11
- B12
- B13
- B14

100 ft



**NEDU Injection Line**

## Complete List

Map ID	Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
<b>Wall Samples</b>													
W1	9/23/2020	W1	1'	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556669 -103.103966
W2	9/23/2020	W2	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556533 -103.104048
W3	9/23/2020	W3	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556686 -103.104068
W4	9/23/2020	W4	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556775 -103.103999
W5	9/23/2020	W5	3'	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556710 -103.103954
W6	9/23/2020	W6	3'	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556729 -103.103971
W7	9/23/2020	W7	3'	416	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556751 -103.103959
W8	9/23/2020	W8	3'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556733 -103.103944
<b>Bottom Samples</b>													
B1	9/23/2020	B1	1'	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556741 -103.103932
B2	9/23/2020	B2	1'	304	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556757 -103.104009
B3	9/23/2020	B3	3'	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556727 -103.103958
B4	9/23/2020	B4	1'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556688 -103.103975
B5	9/23/2020	B5	1'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	35.8	<10.0	32.556690 -103.104002
B6	9/23/2020	B6	1'	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556725 -103.104006
B7	9/23/2020	B7	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556725 -103.104046
B8	9/23/2020	B8	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556684 -103.104043
B9	9/23/2020	B9	1'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556644 -103.104042
B10	9/23/2020	B10	1'	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556653 -103.104010
B11	9/23/2020	B11	1'	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556613 -103.104030
B12	9/23/2020	B12	1'	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556592 -103.104056
B13	9/23/2020	B13	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556579 -103.104039
B14	9/23/2020	B14	1'	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.556552 -103.104047



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

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September 28, 2020

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: PAYDAY #2

Enclosed are the results of analyses for samples received by the laboratory on 09/23/20 16:33.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 5 (H002528-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2020	ND	2.08	104	2.00	3.68	
Toluene*	<0.050	0.050	09/24/2020	ND	2.11	105	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/24/2020	ND	2.05	102	2.00	4.72	
Total Xylenes*	<0.150	0.150	09/24/2020	ND	5.88	97.9	6.00	4.64	
Total BTX	<0.300	0.300	09/24/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/24/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	187	93.3	200	7.85	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	194	96.9	200	5.11	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.0 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 6 (H002528-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2020	ND	2.08	104	2.00	3.68	
Toluene*	<0.050	0.050	09/24/2020	ND	2.11	105	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/24/2020	ND	2.05	102	2.00	4.72	
Total Xylenes*	<0.150	0.150	09/24/2020	ND	5.88	97.9	6.00	4.64	
Total BTX	<0.300	0.300	09/24/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/24/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	187	93.3	200	7.85	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	194	96.9	200	5.11	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 90.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.2 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 3 (H002528-03)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2020	ND	2.08	104	2.00	3.68	
Toluene*	<0.050	0.050	09/24/2020	ND	2.11	105	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/24/2020	ND	2.05	102	2.00	4.72	
Total Xylenes*	<0.150	0.150	09/24/2020	ND	5.88	97.9	6.00	4.64	
Total BTX	<0.300	0.300	09/24/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/24/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	187	93.3	200	7.85	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	194	96.9	200	5.11	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.8 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 1 (H002528-04)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2020	ND	2.08	104	2.00	3.68	
Toluene*	<0.050	0.050	09/24/2020	ND	2.11	105	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/24/2020	ND	2.05	102	2.00	4.72	
Total Xylenes*	<0.150	0.150	09/24/2020	ND	5.88	97.9	6.00	4.64	
Total BTX	<0.300	0.300	09/24/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/24/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	187	93.3	200	7.85	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	194	96.9	200	5.11	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 87.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 2 (H002528-05)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2020	ND	2.08	104	2.00	3.68	
Toluene*	<0.050	0.050	09/24/2020	ND	2.11	105	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/24/2020	ND	2.05	102	2.00	4.72	
Total Xylenes*	<0.150	0.150	09/24/2020	ND	5.88	97.9	6.00	4.64	
Total BTX	<0.300	0.300	09/24/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/24/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	187	93.3	200	7.85	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	194	96.9	200	5.11	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 89.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.4 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 3 (H002528-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2020	ND	2.08	104	2.00	3.68	
Toluene*	<0.050	0.050	09/24/2020	ND	2.11	105	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/24/2020	ND	2.05	102	2.00	4.72	
Total Xylenes*	<0.150	0.150	09/24/2020	ND	5.88	97.9	6.00	4.64	
Total BTX	<0.300	0.300	09/24/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/24/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	187	93.3	200	7.85	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	194	96.9	200	5.11	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 83.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.1 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 4 (H002528-07)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2020	ND	2.08	104	2.00	3.68	
Toluene*	<0.050	0.050	09/24/2020	ND	2.11	105	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/24/2020	ND	2.05	102	2.00	4.72	
Total Xylenes*	<0.150	0.150	09/24/2020	ND	5.88	97.9	6.00	4.64	
Total BTX	<0.300	0.300	09/24/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/24/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	187	93.3	200	7.85	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	194	96.9	200	5.11	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.8 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 8 (H002528-08)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2020	ND	2.08	104	2.00	3.68	
Toluene*	<0.050	0.050	09/24/2020	ND	2.11	105	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/24/2020	ND	2.05	102	2.00	4.72	
Total Xylenes*	<0.150	0.150	09/24/2020	ND	5.88	97.9	6.00	4.64	
Total BTX	<0.300	0.300	09/24/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/24/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	187	93.3	200	7.85	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	194	96.9	200	5.11	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.8 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 7 (H002528-09)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/24/2020	ND	2.08	104	2.00	3.68		
Toluene*	<0.050	0.050	09/24/2020	ND	2.11	105	2.00	4.14		
Ethylbenzene*	<0.050	0.050	09/24/2020	ND	2.05	102	2.00	4.72		
Total Xylenes*	<0.150	0.150	09/24/2020	ND	5.88	97.9	6.00	4.64		
Total BTEx	<0.300	0.300	09/24/2020	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	09/24/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	187	93.3	200	7.85	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	194	96.9	200	5.11	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 1 (H002528-10)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2020	ND	2.08	104	2.00	3.68	
Toluene*	<0.050	0.050	09/24/2020	ND	2.11	105	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/24/2020	ND	2.05	102	2.00	4.72	
Total Xylenes*	<0.150	0.150	09/24/2020	ND	5.88	97.9	6.00	4.64	
Total BTX	<0.300	0.300	09/24/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/24/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	187	93.3	200	7.85	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	194	96.9	200	5.11	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 83.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 2 (H002528-11)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2020	ND	2.08	104	2.00	3.68	
Toluene*	<0.050	0.050	09/24/2020	ND	2.11	105	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/24/2020	ND	2.05	102	2.00	4.72	
Total Xylenes*	<0.150	0.150	09/24/2020	ND	5.88	97.9	6.00	4.64	
Total BTX	<0.300	0.300	09/24/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/24/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	187	93.3	200	7.85	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	194	96.9	200	5.11	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 4 (H002528-12)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2020	ND	2.08	104	2.00	3.68	
Toluene*	<0.050	0.050	09/24/2020	ND	2.11	105	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/24/2020	ND	2.05	102	2.00	4.72	
Total Xylenes*	<0.150	0.150	09/24/2020	ND	5.88	97.9	6.00	4.64	
Total BTX	<0.300	0.300	09/24/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/24/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	187	93.3	200	7.85	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	194	96.9	200	5.11	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 5 (H002528-13)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2020	ND	2.08	104	2.00	3.68	
Toluene*	<0.050	0.050	09/24/2020	ND	2.11	105	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/24/2020	ND	2.05	102	2.00	4.72	
Total Xylenes*	<0.150	0.150	09/24/2020	ND	5.88	97.9	6.00	4.64	
Total BTX	<0.300	0.300	09/24/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/24/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	187	93.3	200	7.85	
DRO >C10-C28*	35.8	10.0	09/24/2020	ND	194	96.9	200	5.11	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 6 (H002528-14)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2020	ND	2.08	104	2.00	3.68	
Toluene*	<0.050	0.050	09/24/2020	ND	2.11	105	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/24/2020	ND	2.05	102	2.00	4.72	
Total Xylenes*	<0.150	0.150	09/24/2020	ND	5.88	97.9	6.00	4.64	
Total BTEx	<0.300	0.300	09/24/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/24/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	187	93.3	200	7.85	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	194	96.9	200	5.11	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 7 (H002528-15)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2020	ND	2.08	104	2.00	3.68	
Toluene*	<0.050	0.050	09/24/2020	ND	2.11	105	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/24/2020	ND	2.05	102	2.00	4.72	
Total Xylenes*	<0.150	0.150	09/24/2020	ND	5.88	97.9	6.00	4.64	
Total BTX	<0.300	0.300	09/24/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/24/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	194	97.0	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	177	88.5	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 8 (H002528-16)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2020	ND	2.08	104	2.00	3.68	
Toluene*	<0.050	0.050	09/24/2020	ND	2.11	105	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/24/2020	ND	2.05	102	2.00	4.72	
Total Xylenes*	<0.150	0.150	09/24/2020	ND	5.88	97.9	6.00	4.64	
Total BTX	<0.300	0.300	09/24/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/24/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	194	97.0	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	177	88.5	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 9 (H002528-17)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTX	<0.300	0.300	09/25/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/24/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	194	97.0	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	177	88.5	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 89.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 10 (H002528-18)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTX	<0.300	0.300	09/25/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/24/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	194	97.0	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	177	88.5	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 87.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 11 (H002528-19)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTX	<0.300	0.300	09/25/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/24/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	194	97.0	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	177	88.5	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 91.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 12 (H002528-20)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTX	<0.300	0.300	09/25/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/24/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	194	97.0	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	177	88.5	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 89.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 13 (H002528-21)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTX	<0.300	0.300	09/25/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/24/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	194	97.0	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	177	88.5	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/23/2020  
 Reported: 09/28/2020  
 Project Name: PAYDAY #2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 14 (H002528-22)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTX	<0.300	0.300	09/25/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/24/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2020	ND	194	97.0	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	177	88.5	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 82.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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\*=Accredited Analyte

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

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Celey D. Keene, Lab Director/Quality Manager





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> <u>Apex</u> <b>Project Manager:</b> <u>Scott Brown</u>		<b>P.O. #:</b> <b>Company:</b> <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <u>NM</u> <b>Zip:</b> <u>88240</u> <b>Fax #:</b>	
<b>Address:</b> <u>4 Hobbs</u> <b>City:</b> <u>Hobbs</u> <b>Phone #:</b> <b>Project #:</b> <b>Project Name:</b>		<b>Project Location:</b> <u>Pay Doon No 2</u> <b>Sample Name:</b> <u>See base</u> <b>FOR LAB USE ONLY</b>	
<b>Lab I.D.</b> <u>4000538</u> <b>Sample I.D.</b>		<b>Matrix:</b> (G) RAB OR (C) OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	
<b>DATE</b> 9/23 <b>TIME</b> 10:14 AM		<b>SAMPLING</b> CI BTEX EXT PH	
<b>Received By:</b> <u>[Signature]</u> <b>Date:</b> 9/27 <b>Time:</b> 4:33		<b>Received By:</b> <u>[Signature]</u> <b>Date:</b> 9/27 <b>Time:</b> 4:33	
<b>Delivered By:</b> (Circle One) UPS - Bus - Other:		<b>Observed Temp. °C</b> <u>2.82</u> <b>Corrected Temp. °C</b>	
<b>Turnaround Time:</b> <u>Standard</u> Rush <input type="checkbox"/>		<b>Thermometer ID:</b> <u>4113</u> <b>Correction Factor:</b> <u>0.00</u>	
<b>Remarks:</b> <u>2. Na. 1/1 9/25/15</u>		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: <b>All Results are emailed. Please provide Email address:</b>	



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> <u>Apache</u> <b>Project Manager:</b> <u>SEP Brown</u>		<b>BILL TO</b>	
<b>Address:</b> <b>City:</b> <u>Hobbs</u> <b>State:</b> <u>NM</u> <b>Zip:</b> <u>88240</u> <b>Phone #:</b> <b>Fax #:</b> <b>Project #:</b> <b>Project Owner:</b> <b>Project Name:</b> <b>Project Location:</b> <u>Fort Pay Day No 2</u> <b>Sampler Name:</b> <u>SEP Brown</u>		<b>P.O. #:</b> <b>Company:</b> <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>	
<b>FOR LAB USE ONLY</b>		<b>SAMPLING</b>	
<b>Lab I.D.</b> <u>H002538</u>	<b>Sample I.D.</b> <u>11 B2</u> <u>12 B4</u> <u>13 B5</u> <u>14 B6</u> <u>15 B7</u> <u>16 B8</u> <u>17 B9</u> <u>18 B10</u> <u>19 B11</u> <u>20 B12</u>	<b>(G)RAB OR (C)OMP.</b> <b># CONTAINERS</b> <b>GROUNDWATER</b> <b>WASTEWATER</b> <b>SOIL</b> <b>OIL</b> <b>SLUDGE</b> <b>OTHER :</b> <b>ACID/BASE:</b> <b>ICE / COOL</b> <b>OTHER :</b>	<b>DATE</b> <u>9/23</u> <b>TIME</b> <u>3:35</u> <u>3:37</u> <u>3:39</u> <u>3:41</u> <u>3:43</u> <u>3:45</u> <u>3:47</u> <u>3:49</u> <u>3:51</u> <u>3:53</u>
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<b>Relinquished By:</b> <u>[Signature]</u> <b>Relinquished Date:</b> <u>9/23</u> <b>Date:</b> <u>9/23</u> <b>Time:</b> <u>4:53</u>		<b>Received By:</b> <u>[Signature]</u> <b>Date:</b> <u>9/23</u> <b>Time:</b> <u>4:53</u>	
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:		<b>Observed Temp. °C</b> <u>2.8</u> <b>Corrected Temp. °C</b>	
<b>Turnaround Time:</b> <u>Standard</u> <b>Thermometer ID #:</b> <u>413</u> <b>Correction Factor:</b> <u>+0.4°C</u>		<b>Turnaround Time:</b> <u>Standard</u> <b>Thermometer ID #:</b> <u>413</u> <b>Correction Factor:</b> <u>+0.4°C</u>	
<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>	
<b>Remarks:</b>		<b>Remarks:</b>	





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Sett B. Hoelke  
Project Manager: Sett B. Hoelke  
Address: Hobbs  
City: Hobbs State: NM Zip: 88240  
Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
Project Name: \_\_\_\_\_  
Project Location: Red Dog No 2  
Sample Name: Soil Above Road

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

ANALYSIS REQUEST

Address: 183		City: Hobbs		State: NM Zip: 88240		P.O. #:	
Phone #:		Fax #:		Attn:		Company:	
Project #:		Project Owner:		Address:		City:	
Project Name:		State:		Zip:		Phone #:	
Project Location:		Sample Name:		Fax #:		PRESERV.	
FOR LAB USE ONLY		Sample I.D.		DATE		TIME	
Lab I.D.		Sample I.D.		DATE		TIME	
H002528		21 B13		9/23		3:55	
22 B14				9/23		3:57	

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Relinquished By: [Signature] Date: 9/22 Received By: [Signature] Date: 9/23

Relinquished By: [Signature] Date: 9/23 Received By: [Signature] Date: 9/23

Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: \_\_\_\_\_  
All Results are emailed. Please provide Email address: \_\_\_\_\_

REMARKS:

E-Mail Results 1/4

Delivered By: (Circle One) Observed Temp. °C 2.8 Sample Condition: ☒ Cool ☐ Intact ☐ Preserved ☐ No ☐ No ☐ No  
Sampler - UPS - Bus - Other: Corrected Temp. °C \_\_\_\_\_ CHECKED BY: (Initials) [Signature]  
Turnaround Time: \_\_\_\_\_ Standard ☒ Rush ☐ Bacteria (only) Sample Condition: ☐ Cool ☐ Intact ☐ Preserved ☐ No ☐ No ☐ No  
Thermometer ID # 42-413 9/23/20 \_\_\_\_\_  
Correction Factor +0.4 °C \_\_\_\_\_ Corrected Temp. °C \_\_\_\_\_

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinalabnm.com](mailto:celey.keene@cardinalabnm.com)



