



2350 W Marland Blvd Hobbs, NM 88240

Corrective Action Plan

APPROVED

By CHernandez at 3:53 pm, Nov 09, 2018

October 16, 2018

Re: WBDU 52
API# 30-025-38198
Case # 1RP-4588

See email
correspondence.

To: Olivia Yu
*Environmental Specialist-New Mexico Oil Conservation Division Energy, Minerals and
Natural Resources Department 1625 N. French Drive Hobbs, New Mexico 88240*

Background:

On December 19, 2016 a release occurred due to a flow line froze and ruptured. On December 21, 2016 an initial C-141 was submitted to NMOCD and BLM. The release is located north of Eunice NM (GPS Coordinates 32.4866638 -103.1641617) in unit letter O section 9 township 21S range 37E. A corrective action plan was submitted to NMOCD and BLM on May 18, 2017. During email correspondence an agreement between Apache Corporation and NMOCD that the estimated groundwater of the area was at 60 feet below ground surface.

On 12/22/2016 the release area was mapped and seven samples were collected at depths of 6" to 10" and submitted to a commercial laboratory for analysis of Cl-, TPH, and BTEX. On February 1, 2017 vertical were dug at sample points 1, 2, and 4. Samples were collected in one foot intervals and submitted to a commercial laboratory for analysis of Cl-, TPH, and BTEX.

Corrective Action:

Upon review of the laboratory data collected Apache Corporation proposes that no action is required in the vicinity of SP 1. The area in the vicinity of SP 2 be excavated to a depth of 6". The areas in the vicinity of SP 3, 4, 5, 6, and 7 be excavated to a depth of 10". The area in the vicinity of SP 4 be excavated to a depth of 2 feet. After the excavation is complete final bottom and wall samples will be collected and submitted to a commercial laboratory for analysis of Cl-, TPH, and BTEX. Approximately 300 yards of contaminated soil will be hauled to an NMOCD approved disposal facility. The excavated areas in the pasture will be backfilled with clean imported topsoil and reseeded in consultation with the fee owner. The excavated area on the lease road and pad will be backfilled with caliche. Apache Corporation will complete remediation activities within 90 days of the approval date.

Enclosed: Initial C-141, Sample Data, Sample Diagram, Laboratory Analysis

Submitted by;

Bruce Baker

Environmental Technician

larry.baker@apachecorp.com

Cell# 432-631-6982

Off# 575-393-7106

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Apache Corporation	Contact Bruce Baker
Address: 8 Ellison Lane Eunice, NM 88231	Telephone No. (432) 631-6982
Facility Name WBDU 52	Facility Type: Oil Well

Surface Owner Private	Mineral Owner Federal	API No. 30-025-38198
-----------------------	-----------------------	----------------------

LOCATION OF RELEASE

Unit Letter O	Section 9	Township 21S	Range 37E	Feet from the 190'	North/South Line FSL	Feet from the 1461'	East/West Line FEL	County Lea
------------------	--------------	-----------------	--------------	-----------------------	-------------------------	------------------------	-----------------------	---------------

Latitude 32.4866638 Longitude -103.1641617

NATURE OF RELEASE

Type of Release: oil and produced water	Volume of Release 22 barrels of water and 8 barrels of oil	Volume Recovered 14 barrels of water and 6 barrels of oil
Source of Release: Flow line	Date and Hour of Occurrence 12/19/2016	Date and Hour of Discovery 12/19/2016 at 6:30 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Shelly Tucker (BLM) Left message with Maxey Brown (NMOCD)	
By Whom? Bruce Baker	Date and Hour 12/19/2016 at 2:46 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RECEIVED

By Olivia Yu at 2:44 pm, Feb 08, 2017

Describe Cause of Problem and Remedial Action Taken.*

The flow line froze and ruptured. The well was shut in to isolate the line and a vacuum truck was dispatched to pick-up standing fluid. A gang was dispatched to repair flow line.

Describe Area Affected and Cleanup Action Taken.*

The majority of the release was contained to the location pad and lease road except for approximately 1200 square feet southeast of well pad and south of lease road in pasture.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Bruce Baker</i>	OIL CONSERVATION DIVISION	
Printed Name: Bruce Baker	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Environmental Technician	Approval Date: <u>2/8/2017</u>	Expiration Date:
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval: <u>see attached directive</u>	Attached <input checked="" type="checkbox"/>
Date: 12/21/2016	Phone: (432) 631-6982	

1RP-4588

nOY1703953124

pOY1703953315

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 12/21/2016 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1R-4588 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 3/8/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

SP 1

Depth	Lab Cl	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO
Surface	5730	<0.050	0.163	0.829	2.59	3.59	64.6	932
8"	2640	<0.050	0.112	0.185	0.819	1.12	<10	156
1'	1200	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10
2'	384	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10
3'	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10

SP 2

Surface	3200	<0.050	6.41	16.4	46	68.9	1000	7210
6"	3280	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10
1'	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10
2'	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10

SP 3

10"	176	<0.050	0.091	0.261	1.19	1.54	49.2	702
-----	-----	--------	-------	-------	------	------	------	-----

SP 4

Surface	16	3.31	93.1	74.8	155	326	3620	8120
10"	32	9.57	157	125	282	573	5840	11600
2'	32	<0.050	0.721	0.837	2.21	3.77	59.9	466

SP 5

10"	32	<0.050	0.094	0.062	0.298	0.455	<10	58.2
-----	----	--------	-------	-------	-------	-------	-----	------

SP 6

10"	48	<0.050	0.081	0.176	0.754	1.01	15	149
-----	----	--------	-------	-------	-------	------	----	-----

SP 7

10"	32	<0.050	<0.050	<0.050	0.171	<0.300	<10	<10
-----	----	--------	--------	--------	-------	--------	-----	-----

Remediation
Plan Proposal

Apache
Corporation
Lea County, New Mexico

Table1: Soil Sample Results

Date	Sample #	Depth	Lab Data			Field Data
			BTEX	TPH	CL's	CL's
12/22/2016						
	SP 1	8"	1.12	156	2640	2240
	SP 2	6"	ND	ND	3280	2320
	SP 3	10"	1.54	751.2	176	180
	SP 4	10"	573	17,440	32	32
	SP 5	10"	0.455	58.2	32	32
	SP 6	10"	1.01	164	48	32
	SP 7	10"	0.171	ND	32	32
2/1/2017						
	SP 1	0"	3.59	996.6	5730	>4,000
		1'	ND	ND	1200	1,260
		2'	ND	ND	384	240
		3'	ND	ND	176	180
	SP 2	0'	68.9	8210	3200	2890
		1'	ND	ND	160	180
		2'	ND	ND	96	64
	SP 4	0'	326	11740	16	16
		2'	3.77	526	32	16

TPH: Gasoline range (GRO) - >C6-C12; Diesel range (DRO) - >C12-C28

Remediation Plan Proposal

Apache
Corporation
Lea County, New Mexico

Figure: 1 Sample Point Locations



3. ENVIRONMENTAL ASSESSMENT

3.1 Hydrology

Groundwater depths in the area is approximately 70 feet bgs (Waters Map).
There is no surface water near this release site or water wells within 1,000 ft.

The site ranking for this site is a 10 based on the following:

Depth to ground water	>70' = 10
Wellhead Protection Area	>1000' = 0
Distance to surface water body	>1000' = 0



Google earth

Latitude: 32.4866638, Longitude: -103.1641617, Altitude: 4079.4 m

January 05, 2017

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WBDU FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 12/22/16 9:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



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: 12/22/2016
Reported: 01/05/2017
Project Name: WBDU FLOWLINE
Project Number: NONE GIVEN
Project Location: 9-21-37

Sampling Date: 12/22/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP 1 (H602858-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2016	ND	1.91	95.7	2.00	2.70	
Toluene*	0.112	0.050	12/28/2016	ND	2.02	101	2.00	2.11	
Ethylbenzene*	0.185	0.050	12/28/2016	ND	1.98	98.9	2.00	2.63	
Total Xylenes*	0.819	0.150	12/28/2016	ND	5.95	99.1	6.00	2.49	
Total BTEX	1.12	0.300	12/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 131 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	12/28/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/27/2016	ND	186	93.0	200	6.66	
DRO >C10-C28	156	10.0	12/27/2016	ND	189	94.4	200	6.77	


Surrogate: 1-Chlorooctane 86.1 % 35-147

Surrogate: 1-Chlorooctadecane 92.5 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.


Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/22/2016
Reported: 01/05/2017
Project Name: WBDU FLOWLINE
Project Number: NONE GIVEN
Project Location: 9-21-37

Sampling Date: 12/22/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP 2 (H602858-02)

BTEX 80218		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2016	ND	1.91	95.7	2.00	2.70	
Toluene*	<0.050	0.050	12/28/2016	ND	2.02	101	2.00	2.11	
Ethylbenzene*	<0.050	0.050	12/28/2016	ND	1.98	98.9	2.00	2.63	
Total Xylenes*	<0.150	0.150	12/28/2016	ND	5.95	99.1	6.00	2.49	
Total BTEX	<0.300	0.300	12/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 128 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	01/03/2017	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/27/2016	ND	186	93.0	200	6.66	
DRO >C10-C28	<10.0	10.0	12/27/2016	ND	189	94.4	200	6.77	

Surrogate: 1-Chlorooctane 96.7 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/22/2016
Reported: 01/05/2017
Project Name: WBDU FLOWLINE
Project Number: NONE GIVEN
Project Location: 9-21-37

Sampling Date: 12/22/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP 3 (H602858-03)

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	12/28/2016	ND	1.91	95.7	2.00	2.70	
Toluene*	0.091	0.050	12/28/2016	ND	2.02	101	2.00	2.11	
Ethylbenzene*	0.261	0.050	12/28/2016	ND	1.98	98.9	2.00	2.63	
Total Xylenes*	1.19	0.150	12/28/2016	ND	5.95	99.1	6.00	2.49	
Total BTEX	1.54	0.300	12/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 134 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/28/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	49.2	10.0	12/27/2016	ND	186	93.0	200	6.66	
DRO >C10-C28	702	10.0	12/27/2016	ND	189	94.4	200	6.77	

Surrogate: 1-Chlorooctane 108 % 35-147

Surrogate: 1-Chlorooctadecane 115 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/22/2016
Reported: 01/05/2017
Project Name: WBDU FLOWLINE
Project Number: NONE GIVEN
Project Location: 9-21-37

Sampling Date: 12/22/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP 4 (H602858-04)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.57	5.00	12/28/2016	ND	2.06	103	2.00	1.01	QM-07
Toluene*	157	5.00	12/28/2016	ND	2.16	108	2.00	0.806	QM-07
Ethylbenzene*	125	5.00	12/28/2016	ND	2.12	106	2.00	0.955	QM-07
Total Xylenes*	282	15.0	12/28/2016	ND	6.36	106	6.00	0.865	QM-07
Total BTEX	573	30.0	12/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 135 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	5840	100	12/27/2016	ND	186	93.0	200	6.66	
DRO >C10-C28	11600	100	12/27/2016	ND	189	94.4	200	6.77	

Surrogate: 1-Chlorooctane 242 % 35-147

Surrogate: 1-Chlorooctadecane 258 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/22/2016
Reported: 01/05/2017
Project Name: WBDU FLOWLINE
Project Number: NONE GIVEN
Project Location: 9-21-37

Sampling Date: 12/22/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP 5 (H602858-05)

BTEX 80218		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2016	ND	2.06	103	2.00	1.01	
Toluene*	0.094	0.050	12/28/2016	ND	2.16	108	2.00	0.806	
Ethylbenzene*	0.062	0.050	12/28/2016	ND	2.12	106	2.00	0.955	
Total Xylenes*	0.298	0.150	12/28/2016	ND	6.36	106	6.00	0.865	
Total BTEX	0.455	0.300	12/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 131 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/27/2016	ND	186	93.0	200	6.66	
DRO >C10-C28	58.2	10.0	12/27/2016	ND	189	94.4	200	6.77	

Surrogate: 1-Chlorooctane 95.6 % 35-147

Surrogate: 1-Chlorooctadecane 85.1 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/22/2016
Reported: 01/05/2017
Project Name: WBDU FLOWLINE
Project Number: NONE GIVEN
Project Location: 9-21-37

Sampling Date: 12/22/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP 6 (H602858-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2016	ND	2.06	103	2.00	1.01	
Toluene*	0.081	0.050	12/28/2016	ND	2.16	108	2.00	0.806	
Ethylbenzene*	0.176	0.050	12/28/2016	ND	2.12	106	2.00	0.955	
Total Xylenes*	0.754	0.150	12/28/2016	ND	6.36	106	6.00	0.865	
Total BTEX	1.01	0.300	12/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 132 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/28/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	15.0	10.0	12/27/2016	ND	186	93.0	200	6.66	
DRO >C10-C28	149	10.0	12/27/2016	ND	189	94.4	200	6.77	

Surrogate: 1-Chlorooctane 89.1 % 35-147

Surrogate: 1-Chlorooctadecane 89.7 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/22/2016
 Reported: 01/05/2017
 Project Name: WBDU FLOWLINE
 Project Number: NONE GIVEN
 Project Location: 9-21-37

 Sampling Date: 12/22/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 7 (H602858-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2016	ND	2.06	103	2.00	1.01	
Toluene*	<0.050	0.050	12/29/2016	ND	2.16	108	2.00	0.806	
Ethylbenzene*	<0.050	0.050	12/29/2016	ND	2.12	106	2.00	0.955	
Total Xylenes*	0.171	0.150	12/29/2016	ND	6.36	106	6.00	0.865	
Total BTEX	<0.300	0.300	12/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 130 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/27/2016	ND	186	93.0	200	6.66	
DRO >C10-C28	<10.0	10.0	12/27/2016	ND	189	94.4	200	6.77	


Surrogate: 1-Chlorooctane 95.3 % 35-147

Surrogate: 1-Chlorooctadecane 88.6 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.


 Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/22/2016
Reported: 01/05/2017
Project Name: WBDU FLOWLINE
Project Number: NONE GIVEN
Project Location: 9-21-37

Sampling Date: 12/22/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: DUP (H602858-08)

BTEX 80218		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.06	5.00	12/29/2016	ND	2.06	103	2.00	1.01	
Toluene*	157	5.00	12/29/2016	ND	2.16	108	2.00	0.806	
Ethylbenzene*	128	5.00	12/29/2016	ND	2.12	106	2.00	0.955	
Total Xylenes*	285	15.0	12/29/2016	ND	6.36	106	6.00	0.865	
Total BTEX	577	30.0	12/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 135 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/28/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	6100	100	12/27/2016	ND	186	93.0	200	6.66	
DRO >C10-C28	12900	100	12/27/2016	ND	189	94.4	200	6.77	

Surrogate: 1-Chlorooctane 263 % 35-147

Surrogate: 1-Chlorooctadecane 291 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

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.
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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Maryland, Hobbs, NM 88240

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

BILL TO

ANALYSIS REQUEST

Company Name: <u>WYBOLV</u>		P.O. #:	
Project Manager: <u>Summer Karlsson</u>		Company: <u>Boatco</u>	
Address:		Attn: <u>Bruce</u>	
City:	State: Zip:	Address:	
Phone #:	Fax #:	City:	
Project #:	Project Owner:	State: Zip:	
Project Name: <u>WYBOLV Floodline</u>		Phone #:	
Project Location: <u>9-21-57</u>		Fax #:	
Sampler Name: <u>Summer Karlsson</u>		SAMPLING	
FOR LAB USE ONLY			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS
<u>H602858</u>	<u>SP1</u>	GROUNDWATER	
	<u>SP2</u>	WASTEWATER	
	<u>SP3</u>	SOIL	
	<u>SP4</u>	OIL	
	<u>SP5</u>	SLUDGE	
	<u>SP6</u>	OTHER	
	<u>SP7</u>	ACID/BASE	
	<u>SP8</u>	ICE / COOL	
	<u>SP9</u>	OTHER	
		DATE	TIME
		<u>08/24/00</u>	<u>0830</u>
		<u>0838</u>	<u>0846</u>
		<u>0851</u>	<u>0854</u>
		<u>0900</u>	<u>0910</u>
		<u>0920</u>	
		<u>Chlorides</u>	<u>TPH</u>
		<u>BTEX</u>	
Relinquished By: <u>Summer Karlsson</u>		Received By: <u>Boatco</u>	
Time: <u>9:50</u>		Time: <u>9:50</u>	
Date: <u>08/24/00</u>		Date: <u>08/24/00</u>	
Time: <u>9:50</u>		Time: <u>9:50</u>	
Delivered By: (Circle One) <u>UPS</u>		Sample Condition	
Sampler - UPS - Bus - Other: <u>#75 13.6c</u>		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
		Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
CHECKED BY: <u>[Signature]</u>			
REMARKS: <u>Samples taken & brought directly to lab.</u>			

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

February 08, 2017

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WBDU #52

Enclosed are the results of analyses for samples received by the laboratory on 02/01/17 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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: 02/01/2017
 Reported: 02/08/2017
 Project Name: WBDU #52
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 02/01/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H700243-01)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2017	ND	2.14	107	2.00	0.0867	
Toluene*	0.163	0.050	02/02/2017	ND	2.10	105	2.00	0.136	
Ethylbenzene*	0.829	0.050	02/02/2017	ND	2.11	106	2.00	0.0711	
Total Xylenes*	2.59	0.150	02/02/2017	ND	5.99	99.8	6.00	0.215	
Total BTEX	3.59	0.300	02/02/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 117 % 73 6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5730	16.0	02/03/2017	ND	432	108	400	0.00	QM-07

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	64.6	10.0	02/02/2017	ND	194	97.1	200	4.66	
DRO >C10-C28	932	10.0	02/02/2017	ND	213	107	200	9.16	QM-07

Surrogate: 1-Chlorooctane 94.4 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/01/2017
Reported: 02/08/2017
Project Name: WBDU #52
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 02/01/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H700243-02)

BTEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2017	ND	2.14	107	2.00	0.0867	
Toluene*	<0.050	0.050	02/02/2017	ND	2.10	105	2.00	0.136	
Ethylbenzene*	<0.050	0.050	02/02/2017	ND	2.11	106	2.00	0.0711	
Total Xylenes*	<0.150	0.150	02/02/2017	ND	5.99	99.8	6.00	0.215	
Total BTEX	<0.300	0.300	02/02/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	02/03/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/02/2017	ND	194	97.1	200	4.66	
DRO >C10-C28	<10.0	10.0	02/02/2017	ND	213	107	200	9.16	


Surrogate: 1-Chlorooctane 81.4 % 35-147

Surrogate: 1-Chlorooctadecane 85.8 % 28-171

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/01/2017
Reported: 02/08/2017
Project Name: WBDU #52
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 02/01/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 2' (H700243-03)

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	02/02/2017	ND	2.14	107	2.00	0.0867	
Toluene*	<0.050	0.050	02/02/2017	ND	2.10	105	2.00	0.136	
Ethylbenzene*	<0.050	0.050	02/02/2017	ND	2.11	106	2.00	0.0711	
Total Xylenes*	<0.150	0.150	02/02/2017	ND	5.99	99.8	6.00	0.215	
Total BTEX	<0.300	0.300	02/02/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/03/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/02/2017	ND	194	97.1	200	4.66	
DRO >C10-C28	<10.0	10.0	02/02/2017	ND	213	107	200	9.16	

Surrogate: 1-Chlorooctane 94.4 % 35-147

Surrogate: 1-Chlorooctadecane 92.9 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/01/2017
Reported: 02/08/2017
Project Name: WBDU #52
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 02/01/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 3' (H700243-04)

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	02/03/2017	ND	2.14	107	2.00	0.0867	
Toluene*	<0.050	0.050	02/03/2017	ND	2.10	105	2.00	0.136	
Ethylbenzene*	<0.050	0.050	02/03/2017	ND	2.11	106	2.00	0.0711	
Total Xylenes*	<0.150	0.150	02/03/2017	ND	5.99	99.8	6.00	0.215	
Total BTEX	<0.300	0.300	02/03/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/03/2017	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/02/2017	ND	194	97.1	200	4.66	
DRO >C10-C28	<10.0	10.0	02/02/2017	ND	213	107	200	9.16	

Surrogate: 1-Chlorooctane 94.5 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/01/2017
Reported: 02/08/2017
Project Name: WBDU #52
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 02/01/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ SURFACE (H700243-05)

BTX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/03/2017	ND	2.14	107	2.00	0.0867	
Toluene*	6.41	0.500	02/03/2017	ND	2.10	105	2.00	0.136	
Ethylbenzene*	16.4	0.500	02/03/2017	ND	2.11	106	2.00	0.0711	
Total Xylenes*	46.0	1.50	02/03/2017	ND	5.99	99.8	6.00	0.215	
Total BTX	68.9	3.00	02/03/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 120 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	02/03/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1000	50.0	02/02/2017	ND	194	97.1	200	4.66	
DRO >C10-C28	7210	50.0	02/02/2017	ND	213	107	200	9.16	

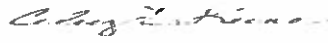
Surrogate: 1-Chlorooctane 147 % 35-147

Surrogate: 1-Chlorooctadecane 184 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.


Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/01/2017
Reported: 02/08/2017
Project Name: WBDU #52
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 02/01/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H700243-06)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2017	ND	2.14	107	2.00	0.0867	
Toluene*	<0.050	0.050	02/03/2017	ND	2.10	105	2.00	0.136	
Ethylbenzene*	<0.050	0.050	02/03/2017	ND	2.11	106	2.00	0.0711	
Total Xylenes*	<0.150	0.150	02/03/2017	ND	5.99	99.8	6.00	0.215	
Total BTEX	<0.300	0.300	02/03/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.6-140

Chloride, SM4500Cl-8		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/03/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/02/2017	ND	194	97.1	200	4.66	
DRO >C10-C28	<10.0	10.0	02/02/2017	ND	213	107	200	9.16	

Surrogate: 1-Chlorooctane 87.8 % 35-147

Surrogate: 1-Chlorooctadecane 86.9 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/01/2017
Reported: 02/08/2017
Project Name: WBDU #52
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 02/01/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 2' (H700243-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2017	ND	2.14	107	2.00	0.0867	
Toluene*	<0.050	0.050	02/03/2017	ND	2.10	105	2.00	0.136	
Ethylbenzene*	<0.050	0.050	02/03/2017	ND	2.11	106	2.00	0.0711	
Total Xylenes*	<0.150	0.150	02/03/2017	ND	5.99	99.8	6.00	0.215	
Total BTEX	<0.300	0.300	02/03/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/03/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/02/2017	ND	194	97.1	200	4.66	
DRO >C10-C28	<10.0	10.0	02/02/2017	ND	213	107	200	9.16	


Surrogate: 1-Chlorooctane 91.0 % 35-147

Surrogate: 1-Chlorooctadecane 96.6 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.


Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/01/2017
Reported: 02/08/2017
Project Name: WBDU #52
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 02/01/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ SURFACE (H700243-08)

BTEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.31	2.00	02/03/2017	ND	2.14	107	2.00	0.0867	
Toluene*	93.1	2.00	02/03/2017	ND	2.10	105	2.00	0.136	
Ethylbenzene*	74.8	2.00	02/03/2017	ND	2.11	106	2.00	0.0711	
Total Xylenes*	155	6.00	02/03/2017	ND	5.99	99.8	6.00	0.215	
Total BTEX	326	12.0	02/03/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/03/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3620	50.0	02/02/2017	ND	194	97.1	200	4.66		
DRO >C10-C28	8120	50.0	02/02/2017	ND	213	107	200	9.16		

Surrogate: 1-Chlorooctane 177 % 35-147

Surrogate: 1-Chlorooctadecane 200 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 02/01/2017
 Reported: 02/08/2017
 Project Name: WBDU #52
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 02/01/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 2' (H700243-09)

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	02/03/2017	ND	2.14	107	2.00	0.0867	
Toluene*	0.721	0.050	02/03/2017	ND	2.10	105	2.00	0.136	
Ethylbenzene*	0.837	0.050	02/03/2017	ND	2.11	106	2.00	0.0711	
Total Xylenes*	2.21	0.150	02/03/2017	ND	5.99	99.8	6.00	0.215	
Total BTEX	3.77	0.300	02/03/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/03/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	59.9	10.0	02/02/2017	ND	194	97.1	200	4.66	
DRO >C10-C28	466	10.0	02/02/2017	ND	213	107	200	9.16	


Surrogate: 1-Chlorooctane 107 % 35-147

Surrogate: 1-Chlorooctadecane 122 % 28-171

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.


 Celey D. Keene, Lab Director/Quality Manager

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.
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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>WCAAS</u>		Bill To		ANALYSIS REQUEST																									
Project Manager: <u>Samuel Paulsen</u>		P.O. #:																											
Address:		Company: <u>Apex</u>																											
City:		Attn: <u>Butte</u>																											
State:		Address:																											
Phone #:		City:																											
Fax #:		State:																											
Project #:		Zip:																											
Project Name: <u>1060452</u>		Phone #:																											
Project Location: <u>San Juan County</u>		Fax #:																											
Sample Name: <u>San Juan County</u>																													
FOR LAB USE ONLY																													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	Chloride	TPH	BTEX												
#100243	SP1 Surface	X	1	X						X			2/17	1030	X	X	X												
	SP01 1'	X	1	X						X			1031	1032	X	X	X												
	SP01 2'	X	1	X						X			1033	1034	X	X	X												
	SP01 3'	X	1	X						X			1035	1036	X	X	X												
	SP2 Surface	X	1	X						X			1037	1038	X	X	X												
	SP2 1'	X	1	X						X			1039	1040	X	X	X												
	SP2 2'	X	1	X						X			1041	1042	X	X	X												
	SP4 Surface	X	1	X						X			1043	1044	X	X	X												
	SP4 2'	X	1	X						X			1045	1046	X	X	X												

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

Relinquished By: [Signature] **Date:** 2-17 **Received By:** [Signature] **Time:** 1:50

Relinquished By: [Signature] **Date:** 2-17 **Received By:** [Signature] **Time:** 1:50

Delivered By: (Circle One) #175 **Sample Condition:** Intact **CHECKED BY:** [Signature]

Sampler - UPS - Bus - Other: Bus **Sample Condition:** Intact **CHECKED BY:** [Signature]

REMARKS: