MARTIM YATES, III 1912-1985 FRANK W. VATES 1936-1906 S.P. YATES 1914-2005

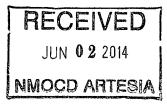


105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118 TELEPHONE 15751 748-1471 JOHN A. YATES CHAIRMAN OF THE BOARD JOHN A. YATES JR.

PRESIDENT

JOHN Ó, PÉRINI Executive va of monetization Chief financial officer

JAMES 5. BROWN



June 2, 2014

Mr. Mike Bratcher NMOCD District II 811 S. First St. Artesia, NM 88210

Re: Nix Curtis BH Battery 30-015-20070 Section 30, T18S-R26E Eddy County, New Mexico

3

Dear Mr. Bratcher,

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated March 27, 2014.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after the week of June 9, 2014.

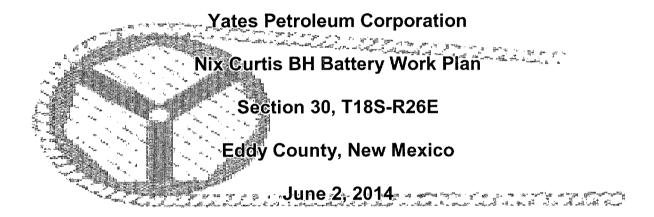
If you have any questions, feel free to call me at (575) 748-4171

Thank you.

YATES PETROLEUM CORPORATION

Chase Settle Environmental Regulatory Agent

Enclosure(s)



## I. Location

The release is located approximately 9 miles south of Artesia, 2.25 miles west on W. Kincaid Ranch Rd., and 0.5 mile northeast.

## II. Background

On March 27, 2014, Yates submitted to the NMOCD District II office a Form C-141 for the release of 200 B/PW with 0 B/PW recovered. The total affected area is approximately 687 feet by 170 feet area running east and west of the produced water line. The release was from failure of a six (6) inch produced water flow line causing produced water to impact the soil around the pipeline. Initial delineation samples were taken (04/29/2014) and sent to a NMOCD approved laboratory (05/09/2014, results enclosed). Further sampling was conducted for chlorides (05/19/2014) and sent to a NMOCD approved laboratory (05/27/2014, results enclosed).

# III. Surface and Ground Water

Area surface geology ranges from Cenozoic Quaternary to Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 30, T18S-R26E) that depth to groundwater is approximately 75' feet making the site ranking for this site a ten (10). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is ten (10) based on the as following:

Depth to ground water50' - 99'Wellhead Protection Area> 1000'Distance to surface water body> 1000'

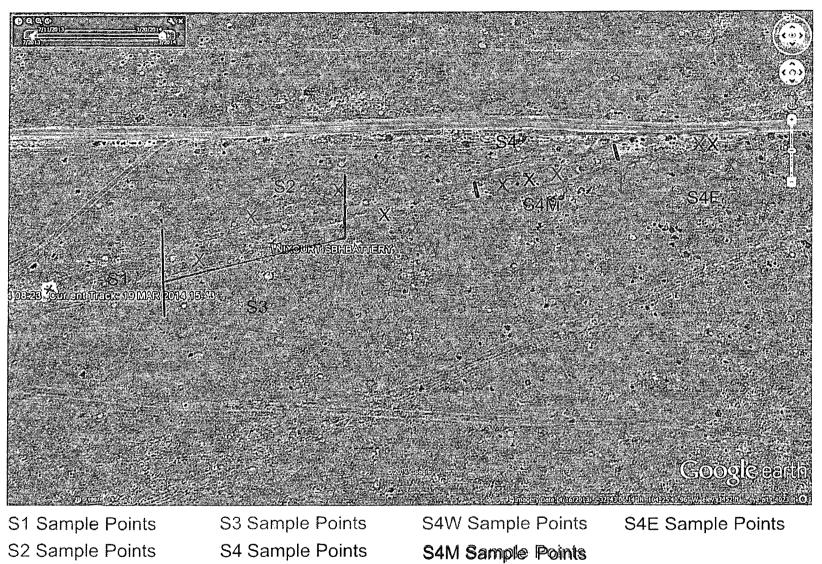
# IV. Soils

The area consists of soils that are caliche and loamy top soil and are interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

# V. Scope of Work

Based on enclosed analytical results, the depth to groundwater (75'), and a decrease in chlorides, Yates Petroleum Corporation will excavate three (3) feet of impacted soil within the S1. S3, S4W, and S4E release area. Yates Petroleum Corporation will also excavate five (5) feet of impacted soil within the S4M release area. All excavated impacted soil will be hauled to a NMOCD approved facility. Yates Petroleum Corporation will not excavate any further in the S2 release area based on analytical data from sampling. The excavated area will be backfilled with like, similar topsoil to the natural curvature (depth) of the non-disturbed landscape around the release area, allowing for vegetative repopulation of the disturbed area and protection from groundwater contamination. The release area will be reseeded according to landowner preference, which through discussion was determined to be 3 lbs. Blue grama and 10 lbs. Little bluestem per acre. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (1000 ppm) for the Total Ranking Score of ten (10), no further analytical testing of TPH and/or BTEX will be conducted (all chloride analytical results are for documentation). When remediation work is completed a C-141, Final Report, analytical results and a site sample diagram will be submitted to the NMOCD and request closure of the site.

# Nix Curtis BH Battery Sample Map



• H401316	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
<u>\$1-1</u> 1	Release Area	4/29/2014	Backhoe	<u>1</u> '	≪0.3	<10.0	<10.0	2400
S1-3'	Release Area	4/29/2014	Backhoe	3	<0.3	<10.0	<10)0	1040
<u>\$1-5</u>	Release Area	4/29/2014	Backhoe	5	<0.3	<10.0	<10.0	320
\$1-7 <sup>1</sup>	Release Area	4/29/2014	Backhoe	7	≷0.3	< 10.0	<10.0	432
\$2-1 <sup>1</sup>	Release/Area	4/29/2014	Backhoe	1'.	≷0.3	$<\!\!10.0$	<10.0	768
S2-3 <sup>1</sup>	Release Area	4/29/2014	Backhoe	3'	≷0.3	<10!0	<10.0	176
\$2-5 <sup>1</sup>	Release Area	4/29/2014	Backhoe	5 <sup>1</sup>	<0.3	< 10.0	<10.0	192
\$2-7 <sup>1</sup>	Release Area	4/29/2014	Backhoe	7 <sup>1</sup>	<0.3	<10.0	<10.0	304
\$3-1 <sup>0</sup>	Release Area	4/29/2014	Backhoe	1'	<0.3	<10.0	<10.0	7600
\$3-3 <sup>1</sup>	Release Area	4/29/2014	Backhoe	3'	<0.3	<10.0	<10.0	608
\$3-5 <sup>!</sup>	Release Area	4/29/2014	Backhoe	5'	<0.3	< 10.0	<10.0	368
\$3-7 <sup>1</sup>	Release Area	-4/29/2014	Backhoe	7	<0.3	<10.0	<10.0	288
\$4-1°	Release Area	4/29/2014	Backhoe	1'	<0.3	<10.0	<10.0	12200
\$4-3 <sup>1</sup>	Release Area	4/29/2014	Backhoe	3,	≷0.3	<10.0	<10.0	6400
\$4-5°	Release Area	4/29/2014	Backhoe	5'	<0.3	<10.0	<10.0	144
\$4-7'	Release Area	4/29/2014	Backhoe	7'	<0.3	<10.0	<10.0	112
H401532								
\$3-2 <sup>1</sup>	Release Area	5/19/2014	Hand Auger	- 2 <sup>1</sup>	N/A	N/A	N/A	1070
S4W-1'	Release Area	5/19/2014	Hand Auger	1	N/A	N/A	N/A	7900
\$4W-2 <sup>1</sup>	Release Area	5/19/2014	Hand Auger	2'	N/A	N/A	N/A	1520
\$4W-3°	Release Area	5/19/2014	Hand Auger	3!	N/A	N/A	N/A	336
\$4W-4 <sup>1</sup>	Release Area	5/19/2014	Hand Auger	<u>4</u> !	N/A	_N//A	N/A	512
S4M-1	Release Area	5/19/2014	Hand Auger	1'	N/A	N/A	N/A	12000
\$4M-2°	Release Area	5/19/2014	Hand Auger	2'	N/A	• N//A	N/A	10600
\$4M-31	Release Area	5/19/2014	Hand Auger	3'.	N/A	N/A	N/A	3120
S4M-4"	• Release'Area	5/19/2014	Hand Auger	4'	N/A	N//A	N/A	1230
S4E-1 <sup>i</sup>	Release/Area	5/19/2014	Hand Auger	1'	N/A	N/A	N/A	7040
S4.E-21	Release Area	5/19/2014.	Hand Auger	2'	N/A	N/A	N/A	1620
S4E-31	Release Area	5/19/2014	Hand Auger	3'.	N/A	N//A	N/A	336
S4E-4	Release Area	5/19/2014	Hand Auger	4'	N/A	N//A.	N/A	192

Site Ranking is ten (10). DTGW 50-99' (approx 75', Section 30, T18S-R26E, Trend Map) All results are ppm. Chlorides for documentation Released: 200 B/PW; Recovered: 0 B/PW Release Date: 03/17/2014



May 27, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: NIX CURTIS BH BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/20/14 9:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	05/20/2014	Sampling Date:	05/19/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

## Sample ID: S3-2' (H401532-01)

Chloride, SM4500CI-B mg/kg			Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	05/23/2014	ND	416	104	400	0.00	

## Sample ID: S4W-1' (H401532-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7900	16.0	05/23/2014	ND	416	104	400	0.00	

## Sample ID: S4W-2' (H401532-03)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	05/23/2014	ND	416	104	400	0.00	

## Sample ID: S4W-3' (H401532-04)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/23/2014	ND	416	104	400	0.00	

#### **Cardinal Laboratories**

### \*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	05/20/2014	Sampling Date:	05/19/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

#### Sample ID: S4W-4' (H401532-05)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	05/23/2014	ND	416	104	400	0.00	

## Sample ID: S4M-1' (H401532-06)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	05/23/2014	ND	416	104	400	0.00	

## Sample ID: S4M-2' (H401532-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	05/23/2014	ND	416	104	400	0.00	

# Sample ID: S4M-3' (H401532-08)

Chloride, SM4500CI-B	mg/kg Analyzed By: AP								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	05/23/2014	ND	416	104	400	0.00	

## Sample ID: S4M-4' (H401532-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	05/23/2014	ND	416	104	400	0.00	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	05/20/2014	Sampling Date:	05/19/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

## Sample ID: S4E-1' (H401532-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7040	16.0	05/23/2014	ND	416	104	400	0.00	

#### Sample ID: S4E-2' (H401532-11)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	05/23/2014	ND	416	104	400	0.00	

## Sample ID: S4E-3' (H401532-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/23/2014	ND	416	104	400	0.00	

## Sample ID: S4E-4' (H401532-13)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/23/2014	ND	416	104	400	0.00	

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

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	\$3-2'			<u> </u>	5/19/2014	10:00 AM	<u>ц.</u>	1			+			x	1	s		+	Ť				1	1	1-		x	+		x
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ČAB # (làb use only)			Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Fillered	Total #. of Containers	¢;	HNO3	HCI HCI	jaU <sub>4</sub>	Na.S.O.	None	Other ( Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=SolfSolid		TPH: 418.1 8015M 80158	PH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K) Anions (Cl. SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Serrivolatites	BTEX 8021B/5030 of BTEX 8260 RCI	N.O.R.M.	Chlorides	AR	RUSH TAT (Pro-Schodula) 24, 48, 72 hrs	andard TAT
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May 09, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

**RE: NIX CURTIS BH BATTERY** 

Enclosed are the results of analyses for samples received by the laboratory on 04/30/14 5:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

# Sample ID: S1-1' (H401316-01)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09	
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	98.2	% 61.3-14	12	4494 (K. L K K.					
Surrogate: Toluene-d8	105	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	144	% 65.7-14	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	05/07/2014	ND	400	100	400	0.00	
ТРН 8015М	mg	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/07/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	202	101	200	1.64	
Surrogate: 1-Chlorooctane	106 :	65.2-14	0						
Surrogate: 1-Chlorooctadecane	105 9	63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

## Sample ID: S1-3' (H401316-02)

mg/	/kg	Analyze	d By: ms				_	
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
< 0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09	
<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54	
<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31	
<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16	
<0.300	0.300	05/08/2014	ND					
100	% 61.3-14	2						
102 :	% 71.3-12	9						
114 9	65.7-14	1						
mg/	/kg	Analyze	d By: AP					
Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1040	16.0	05/07/2014	ND	400	100	400	0.00	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
<10.0	10.0	05/08/2014	ND	202	101	200	1.64	
103 9	% 65.2-14	0						
107	636-15	4						
	Result <0.050 <0.050 <0.150 <0.300 //00 //14 Result 1040 mg/ Result <10.0 <10.0	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300 100 % 61.3-14 102 % 71.3-12 114 % 65.7-14 mg/kg Result Reporting Limit 1040 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.3 % 65.2-14	Result         Reporting Limit         Analyzed           <0.050	Result         Reporting Limit         Analyzed         Method Blank           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.050

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Celuz D. Kune

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

# Sample ID: S1-5' (H401316-03)

mg/	kg	Analyze	d By: ms					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09	
<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54	
<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31	
<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16	
<0.300	0.300	05/08/2014	ND					
100 9	61.3-14	2						
103 9	71.3-12	9						
108 9	65.7-14	1						
mg/	kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
320	16.0	05/07/2014	ND	400	100	400	0.00	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
<10.0	10.0	05/08/2014	ND	202	101	200	1.64	
103 9	65.2-14	0						
102 0	636-15	1						
	Result <0.050 <0.050 <0.150 <0.300 100 9 103 9 108 9 mg/ Result 320 mg/ Result <10.0 <10.0	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300 100 % 61.3-14 103 % 71.3-12 108 % 65.7-14 mg/kg Result Reporting Limit 320 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.3 € 65.2-14	Result         Reporting Limit         Analyzed           <0.050	Result         Reporting Limit         Analyzed         Method Blank           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.050

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

## Sample ID: S1-7' (H401316-04)

BTEX 8260B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09	
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	98. <i>3</i>	% 61.3-14	2						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	108	65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	05/07/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	
Surrogate: 1-Chlorooctane	102 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	101 9	63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

## Sample ID: S2-1' (H401316-05)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09	
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16	
Total BTEX	<0.300	0.300	05/08/2014	ND ·					
Surrogate: Dibromofluoromethane	96.3	% 61.3-14	2						
Surrogate: Toluene-d8	102	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 65.7-14	I						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	05/07/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	
Surrogate: 1-Chlorooctane	98.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.0	% 63.6-15	4						

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

## Sample ID: S2-3' (H401316-06)

BTEX 8260B	mg,	/kg	Analyze	d By: ms	.0.4				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	102	% 61.3-14	2						
Surrogate: Toluene-d8	104	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 65.7-14	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/07/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS			1.04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	
Surrogate: 1-Chlorooctane	98.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101	% 63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

## Sample ID: S2-5' (H401316-07)

BTEX 8260B	mg,	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	·ND	2.07	104	2.00	6.95	
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	98.4	% 61.3-14	2						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101	% 65.7-14	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/07/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS		-			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	
Surrogate: 1-Chlorooctane	<i>99.3</i>	% 65.2-14	0				-		
Surrogate: 1-Chlorooctadecane	104	% 63.6-15	4						

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

## Sample ID: S2-7' (H401316-08)

BTEX 8260B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	93.5	% 61.3-14	2						
Surrogate: Toluene-d8	104 \$	71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102 \$	65.7-14	1						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/07/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	
Surrogate: 1-Chlorooctane	103	65.2-14	0						
Surrogate: 1-Chlorooctadecane	106 :	63.6-15	4						

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Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

## Sample ID: S3-1' (H401316-09)

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BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	97.3	% 61.3-14	2						
Surrogate: Toluene-d8	104	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	98.6	% 65.7-14	I						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	05/07/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS			155		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	
Surrogate: 1-Chlorooctane	105	% 65.2-14	0				· · · · ·		
Surrogate: 1-Chlorooctadecane	106	% 63.6-15	4						

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Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

# Sample ID: S3-3' (H401316-10)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	94.8	% 61.3-14	2			,	(ma))		
Surrogate: Toluene-d8	102	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101	65.7-14	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	05/08/2014	ND	400	100	400	0.00	
ТРН 8015М	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	
Surrogate: 1-Chlorooctane	106	% 65.2-14	0	·					· · · · · · · · · · · · · · · · · · ·
Surrogate: 1-Chlorooctadecane	106 :	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

## Sample ID: S3-5' (H401316-11)

BTEX 8260B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	94.6	% 61.3-14	2						
Surrogate: Toluene-d8	105 9	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	99.8	% 65.7-14	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/08/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	
Surrogate: 1-Chlorooctane	104 5	65.2-14	0						
Surrogate: 1-Chlorooctadecane	108 9	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

# Sample ID: S3-7' (H401316-12)

mg,	/kg	Analyze	d By: ms					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4,32	
<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
<0.300	0.300	05/08/2014	ND					
95.1	% 61.3-14	2						
106	% 71.3-12	9						
104	% 65.7-14	1						
mg,	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
288	16.0	05/08/2014	ND	400	100	400	0.00	
mg,	/kg	Anaiyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
<10.0	10.0	05/08/2014	ND	202	101	200	1.64	
96.1	% 65.2-14	0						
98. I	% 63.6-15							
	Result <0.050 <0.050 <0.150 <0.300 95.1 106 104 mg, Result 288 mg, Result <10.0 <10.0	<0.050 0.050 0.050 0.050 0.050 0.050 0.150 0.150 0.150 0.300	Result         Reporting Limit         Analyzed           <0.050	Result         Reporting Limit         Analyzed         Method Blank $<0.050$ $0.050$ $05/08/2014$ ND $<0.050$ $0.050$ $05/08/2014$ ND $<0.050$ $0.050$ $05/08/2014$ ND $<0.050$ $0.050$ $05/08/2014$ ND $<0.050$ $0.150$ $05/08/2014$ ND $<0.150$ $0.150$ $05/08/2014$ ND $<0.300$ $0.300$ $05/08/2014$ ND $<0.300$ $0.300$ $05/08/2014$ ND $95.1\%$ $61.3-142$ $106\%$ $71.3-129$ $104\%$ $65.7-141$ MEthod Blank $8esult$ Reporting Limit         Analyzed         Method Blank $288$ $16.0$ $05/08/2014$ ND $mg/kg$ Analyzed         Method Blank $<10.0$ $10.0$ $05/08/2014$ ND $<10.0$ $10.0$ $05/08/2014$ ND $96.1\%$ $65.2-140$ ND	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.050

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Celey D. Keene, Lab Director/Quality Manager



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Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

## Sample ID: S4-1' (H401316-13)

BTEX 8260B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	* <0.050 0.050 05/08/2014 ND		2.07	104	2.00	6.95			
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	96.7	% 61.3-14	2						
Surrogate: Toluene-d8	104 \$	71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103 9	65.7-14	1						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	05/08/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	
Surrogate: 1-Chlorooctane	101 9	65.2-14	0		,			u.a	
Surrogate: 1-Chlorooctadecane	100 9	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

## Sample ID: S4-3' (H401316-14)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050 0.050 05/08/2014 ND		2.06	103	2.00	4.32			
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	95.5	% 61.3-14	2						
Surrogate: Toluene-d8	105	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	05/08/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS				1 101	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	
Surrogate: 1-Chlorooctane	109	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	4						

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

# Sample ID: S4-5' (H401316-15)

BTEX 8260B	mg/	kg	Analyze	d By: ms	· · · · · · · · · ·				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050 0.050 05/08/2014 ND		2.07	104	2.00	6.95			
Toluene*	<0.050	0.050	05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	98.1	% 61.3-14	12						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101 5	65.7-14	1						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/08/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	mg/kg Analyzed By: MS		d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	
Surrogate: 1-Chlorooctane	97.5	65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.8	63.6-15	4						

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#### \*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/09/2014	Sampling Type:	Soil
Project Name:	NIX CURTIS BH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY		

## Sample ID: S4-7' (H401316-16)

BTEX 8260B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	05/08/2014	ND	2.07	104	2.00	6.95	
Toluene*	<0.050 0.050		05/08/2014	ND	2.06	103	2.00	4.32	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	1.94	96.9	2.00	4.66	
Total Xylenes*	<0.150 0.150		05/08/2014	ND	5.91	98.4	6.00	4.76	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	95.8	% 61.3-14	2						
Surrogate: Toluene-d8	103 9	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101 5	65.7-14	1						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	112	16.0	05/08/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	05/08/2014	ND	183	91.4	200	3.09	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	202	101	200	1.64	
Surrogate: 1-Chlorooctane	103	65.2-14	0						
Surrogate: 1-Chlorooctadecane	102	63.6-15	4						

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
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 SM4500CI-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

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LAB # (lat	FIE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	lce	HNO, HCI	H <sub>3</sub> SO,	NaOH	Na <sub>z</sub> S <sub>z</sub> O <sub>3</sub>	None Other / Scooled	Outer ( specify)	GW = Groun	TPH: 418.1	TPH: TX 1005	Cations (Ca	Anions (Cl,	SAR / ESP / CEC	Metals: As /	Volatiles	Semivolatiles	BTEX 8021	RCI	N.U.K.M. Chlorides	SAR		RUSH TAT (Pr Standard TAT
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