

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

JOHN A. YATES
CHAIRMAN OF THE BOARD

JOHN A. YATES JR.
PRESIDENT

JOHN D. PERINI
EXECUTIVE V.P. OF MONETIZATION
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

September 30, 2014

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

Re: Sara AHA #1 Battery
30-015-23890
Section 11, T20S-R24E
Eddy County, New Mexico

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 June 26, 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 October 14, 2014.

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

Thank you.

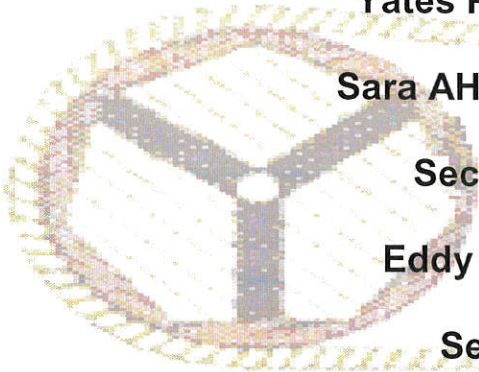
YATES PETROLEUM CORPORATION

Chase Settle
Environmental Regulatory Agent

Enclosure(s)

KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER



Yates Petroleum Corporation

Sara AHA #1 Battery Work Plan

Section 11, T20S-R24E

Eddy County, New Mexico

September 30, 2014

I. Location

The battery is located 15 miles south of Artesia on US 285, west approximately 8 miles on Rock Daisy Road, then south on Sawbuck Road 2 miles, and approximately 0.6 of a mile east on the lease road.

II. Background

On June 26, 2014, Yates submitted to the NMOCD District II office a Form C-141 for the release of 16 B/PW with 11 B/PW recovered. Excavation of visually impacted soils was undertaken within the release area. The total affected area was approximately 350 feet by 10 feet outside the bermed battery, with an additional area of 100 feet by 60 around the tanks within the battery berm and 115 feet by 5 feet down the east side of the battery berm. Initial delineation samples were taken at the S1, S2, and S3 sample points in the release area (7/11/2014) and sent to a NMOCD approved laboratory (7/21/2014, results enclosed). Based on analytical results (7/21/2014), Yates determined that further sampling was needed in the S1 and S2 release areas. Additional delineation samples were taken from the S1 and S2 release areas (7/25/2014) and sent to a NMOCD approved laboratory (8/06/2014, results enclosed). Based on analytical results (8/06/2014), Yates sampled the S2 release area again (9/11/2014) and sent samples to a NMOCD approved laboratory (9/22/2014, results enclosed).

III. Surface and Ground Water

Area surface geology is Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 11, T20S-R24E) that depth to groundwater is approximately 170 feet making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the as following:

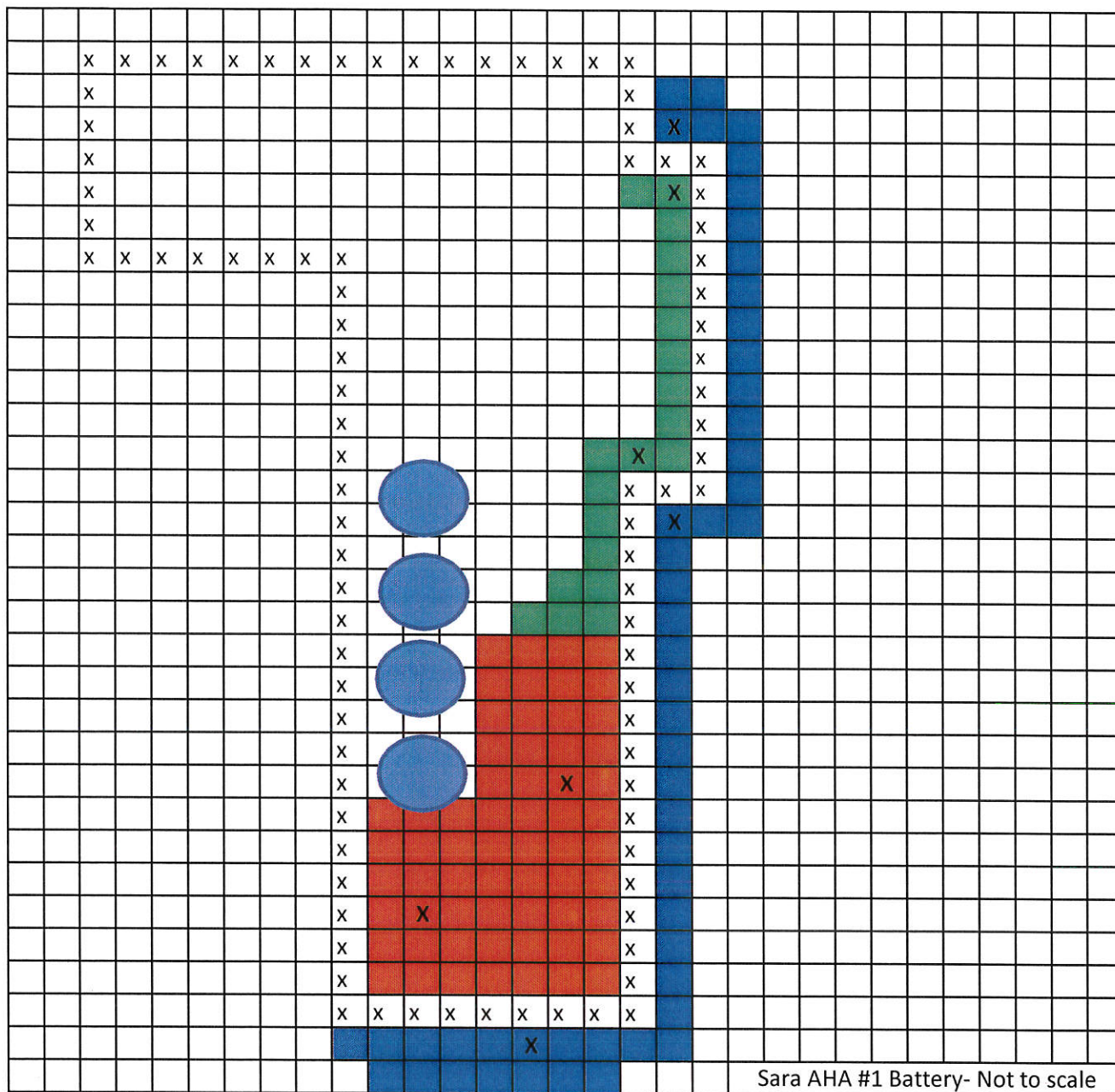
Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

IV. Soils

The area consists of soils that are caliche and loamy topsoil, which 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 (170'), and a decrease in chlorides, Yates Petroleum Corporation will excavate five (5) feet in the S1 release area and three (3) feet in the S2 release area. The S1 release area will then be backfilled with five (5) feet of caliche and the S2 release area will be backfilled with three (3) feet of caliche providing for protection from groundwater contamination. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (5000 ppm) for the Total Ranking Score of zero (0) in the release area, 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 will be submitted to the NMOCD requesting closure of the site.



Release area



S1 Sample point



S2 Sample point



S3 Sample point

H402128	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	Release Area	7/11/2014	Backhoe	1'	<0.3	<10.0	<10.0	6240
S1-2'	Release Area	7/11/2014	Backhoe	2'	<0.3	<10.0	<10.0	6080
S1-3'	Release Area	7/11/2014	Backhoe	3'	<0.3	<10.0	<10.0	5760
S1-4'	Release Area	7/11/2014	Backhoe	4'	<0.3	<10.0	<10.0	4480
	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S2-1'	Release Area	7/11/2014	Backhoe	1'	<0.3	<10.0	<10.0	6560
S2-2'	Release Area	7/11/2014	Backhoe	2'	<0.3	<10.0	<10.0	7040
S2-3'	Release Area	7/11/2014	Backhoe	3'	<0.3	<10.0	<10.0	7440
S2-4'	Release Area	7/11/2014	Backhoe	4'	<0.3	<10.0	<10.0	3800
	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S3-1'	Release Area	7/11/2014	Backhoe	1'	<0.3	<10.0	<10.0	176
S3-2'	Release Area	7/11/2014	Backhoe	2'	<0.3	<10.0	<10.0	272
S3-3'	Release Area	7/11/2014	Backhoe	3'	<0.3	<10.0	<10.0	192
H402356	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-5'	Release Area	7/25/2014	Backhoe	5'	N/A	N/A	N/A	3960
S1-6'	Release Area	7/25/2014	Backhoe	6'	N/A	N/A	N/A	1580
S1-7'	Release Area	7/25/2014	Backhoe	7'	N/A	N/A	N/A	1570
S1-8'	Release Area	7/25/2014	Backhoe	8'	N/A	N/A	N/A	1250
	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S2-5'	Release Area	7/25/2014	Backhoe	5'	N/A	N/A	N/A	4440
S2-6'	Release Area	7/25/2014	Backhoe	6'	N/A	N/A	N/A	4080
S2-7'	Release Area	7/25/2014	Backhoe	7'	N/A	N/A	N/A	4240
S2-8'	Release Area	7/25/2014	Backhoe	8'	N/A	N/A	N/A	3880
H402858	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S2-9'	Release Area	9/11/2014	Backhoe	9'	N/A	N/A	N/A	752
S2-10'	Release Area	9/11/2014	Backhoe	10'	N/A	N/A	N/A	656
S2-11'	Release Area	9/11/2014	Backhoe	11'	N/A	N/A	N/A	576
S2-12'	Release Area	9/11/2014	Backhoe	12'	N/A	N/A	N/A	576

Site Ranking is Zero (0). >100' (170', Section 11, T20S-R24E, Trend Map

All results are ppm. Chlorides for documentation

Released: 16 B/PW; Recovered: 11 B/PW Release Date: 06/16/2014

July 21, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: SARA AHA #1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/14/14 14:22.

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 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:

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

Received: 07/14/2014
Reported: 07/21/2014
Project Name: SARA AHA #1 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-1' (H402128-01)

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	07/18/2014	ND	2.36	118	2.00	2.15	
Toluene*	<0.050	0.050	07/18/2014	ND	2.17	108	2.00	1.57	
Ethylbenzene*	<0.050	0.050	07/18/2014	ND	2.24	112	2.00	1.50	
Total Xylenes*	<0.150	0.150	07/18/2014	ND	6.76	113	6.00	1.44	
Total BTEX	<0.300	0.300	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	07/17/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	184	91.9	200	0.268	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	198	98.9	200	1.29	

Surrogate: 1-Chlorooctane 125 % 65.2-140

Surrogate: 1-Chlorooctadecane 131 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/14/2014
Reported: 07/21/2014
Project Name: SARA AHA #1 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-2' (H402128-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2014	ND	2.36	118	2.00	2.15	
Toluene*	<0.050	0.050	07/18/2014	ND	2.17	108	2.00	1.57	
Ethylbenzene*	<0.050	0.050	07/18/2014	ND	2.24	112	2.00	1.50	
Total Xylenes*	<0.150	0.150	07/18/2014	ND	6.76	113	6.00	1.44	
Total BTEX	<0.300	0.300	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	07/18/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	184	91.9	200	0.268	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	198	98.9	200	1.29	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 125 % 63.6-154

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

Received: 07/14/2014
Reported: 07/21/2014
Project Name: SARA AHA #1 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-3' (H402128-03)

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	07/18/2014	ND	2.14	107	2.00	6.10	
Toluene*	<0.050	0.050	07/18/2014	ND	2.00	100	2.00	6.61	
Ethylbenzene*	<0.050	0.050	07/18/2014	ND	2.13	107	2.00	6.05	
Total Xylenes*	<0.150	0.150	07/18/2014	ND	6.89	115	6.00	5.97	
Total BTEX	<0.300	0.300	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	07/18/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	184	91.9	200	0.268	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	198	98.9	200	1.29	

Surrogate: 1-Chlorooctane 122 % 65.2-140

Surrogate: 1-Chlorooctadecane 126 % 63.6-154

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105 S 4th Street
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Fax To: (505) 748-4635

Received: 07/14/2014
Reported: 07/21/2014
Project Name: SARA AHA #1 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-4' (H402128-04)

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	07/18/2014	ND	2.14	107	2.00	6.10	
Toluene*	<0.050	0.050	07/18/2014	ND	2.00	100	2.00	6.61	
Ethylbenzene*	<0.050	0.050	07/18/2014	ND	2.13	107	2.00	6.05	
Total Xylenes*	<0.150	0.150	07/18/2014	ND	6.89	115	6.00	5.97	
Total BTEX	<0.300	0.300	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	07/18/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	184	91.9	200	0.268	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	198	98.9	200	1.29	

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 128 % 63.6-154

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105 S 4th Street
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Fax To: (505) 748-4635

Received: 07/14/2014
Reported: 07/21/2014
Project Name: SARA AHA #1 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-1' (H402128-05)

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	07/18/2014	ND	2.14	107	2.00	6.10	
Toluene*	<0.050	0.050	07/18/2014	ND	2.00	100	2.00	6.61	
Ethylbenzene*	<0.050	0.050	07/18/2014	ND	2.13	107	2.00	6.05	
Total Xylenes*	<0.150	0.150	07/18/2014	ND	6.89	115	6.00	5.97	
Total BTEX	<0.300	0.300	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	07/18/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	184	91.9	200	0.268	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	198	98.9	200	1.29	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/14/2014
Reported: 07/21/2014
Project Name: SARA AHA #1 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-2' (H402128-06)

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	07/18/2014	ND	2.14	107	2.00	6.10	
Toluene*	<0.050	0.050	07/18/2014	ND	2.00	100	2.00	6.61	
Ethylbenzene*	<0.050	0.050	07/18/2014	ND	2.13	107	2.00	6.05	
Total Xylenes*	<0.150	0.150	07/18/2014	ND	6.89	115	6.00	5.97	
Total BTEX	<0.300	0.300	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7040	16.0	07/18/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/16/2014	ND	184	91.9	200	0.268	
DRO >C10-C28	<10.0	10.0	07/16/2014	ND	198	98.9	200	1.29	

Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 126 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/14/2014
Reported: 07/21/2014
Project Name: SARA AHA #1 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-3' (H402128-07)

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	07/18/2014	ND	2.14	107	2.00	6.10	
Toluene*	<0.050	0.050	07/18/2014	ND	2.00	100	2.00	6.61	
Ethylbenzene*	<0.050	0.050	07/18/2014	ND	2.13	107	2.00	6.05	
Total Xylenes*	<0.150	0.150	07/18/2014	ND	6.89	115	6.00	5.97	
Total BTEX	<0.300	0.300	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7440	16.0	07/18/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/16/2014	ND	184	91.9	200	0.268	
DRO >C10-C28	<10.0	10.0	07/16/2014	ND	198	98.9	200	1.29	

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/14/2014
Reported: 07/21/2014
Project Name: SARA AHA #1 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-4' (H402128-08)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2014	ND	2.14	107	2.00	6.10	
Toluene*	<0.050	0.050	07/18/2014	ND	2.00	100	2.00	6.61	
Ethylbenzene*	<0.050	0.050	07/18/2014	ND	2.13	107	2.00	6.05	
Total Xylenes*	<0.150	0.150	07/18/2014	ND	6.89	115	6.00	5.97	
Total BTEX	<0.300	0.300	07/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	07/18/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/16/2014	ND	184	91.9	200	0.268	
DRO >C10-C28	<10.0	10.0	07/16/2014	ND	198	98.9	200	1.29	

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/14/2014
Reported: 07/21/2014
Project Name: SARA AHA #1 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3-1' (H402128-09)

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	07/19/2014	ND	2.14	107	2.00	6.10	
Toluene*	<0.050	0.050	07/19/2014	ND	2.00	100	2.00	6.61	
Ethylbenzene*	<0.050	0.050	07/19/2014	ND	2.13	107	2.00	6.05	
Total Xylenes*	<0.150	0.150	07/19/2014	ND	6.89	115	6.00	5.97	
Total BTEX	<0.300	0.300	07/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/18/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/16/2014	ND	184	91.9	200	0.268	
DRO >C10-C28	<10.0	10.0	07/16/2014	ND	198	98.9	200	1.29	

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/14/2014
Reported: 07/21/2014
Project Name: SARA AHA #1 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3-2' (H402128-10)

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	07/19/2014	ND	2.14	107	2.00	6.10	
Toluene*	<0.050	0.050	07/19/2014	ND	2.00	100	2.00	6.61	
Ethylbenzene*	<0.050	0.050	07/19/2014	ND	2.13	107	2.00	6.05	
Total Xylenes*	<0.150	0.150	07/19/2014	ND	6.89	115	6.00	5.97	
Total BTEX	<0.300	0.300	07/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/18/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/16/2014	ND	184	91.9	200	0.268	
DRO >C10-C28	<10.0	10.0	07/16/2014	ND	198	98.9	200	1.29	

Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/14/2014
Reported: 07/21/2014
Project Name: SARA AHA #1 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3-3' (H402128-11)

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	07/19/2014	ND	2.14	107	2.00	6.10	
Toluene*	<0.050	0.050	07/19/2014	ND	2.00	100	2.00	6.61	
Ethylbenzene*	<0.050	0.050	07/19/2014	ND	2.13	107	2.00	6.05	
Total Xylenes*	<0.150	0.150	07/19/2014	ND	6.89	115	6.00	5.97	
Total BTEX	<0.300	0.300	07/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/18/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/16/2014	ND	184	91.9	200	0.268	
DRO >C10-C28	<10.0	10.0	07/16/2014	ND	198	98.9	200	1.29	

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Project Name: Sara AHA #1 Battery

Project #:

Project Loc: Sara AHA #1 Battery

Comp: (505) 393-2326 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: csettle@yatespetroleum.com

PO #: 205750

(lab use only)

ORDER #: H402128

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	S1-1'			7/11/2014	11:30 AM		1	X								S	X														X
2	S1-2'			7/11/2014	11:30 AM		1	X								S	X														X
3	S1-3'			7/11/2014	11:30 AM		1	X								S	X														X
4	S1-4'			7/11/2014	11:30 AM		1	X								S	X														X
5	S2-1'			7/11/2014	12:30 PM		1	X								S	X														X
6	S2-2'			7/11/2014	12:30 PM		1	X								S	X														X
7	S2-3'			7/11/2014	12:30 PM		1	X								S	X														X
8	S2-4'			7/11/2014	12:30 PM		1	X								S	X														X

Special Instructions:

Reinquired by:

Date: 7-14-14

Time

Received by:

Date: 7/14/14

Time

Reinquired by:

Reinquired by:

Date

Time

Received by:

Date

Time

Reinquired by:

Reinquired by:

Date

Time

Received by:

Date

Time

Reinquired by:

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Custody seals on cooler(s)

Sample Hand Delivered

by Sampler/Client Rep.?

by Courier?

UPS

DHL

FedEx

Lone Star

Temperature Upon Receipt:

2.2 °C

#754



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

2

Project Manager: Chase Settle

Project Name: Sara AHA #1 Battery

Project #:

Project Loc: Sara AHA #1 Battery

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Fax No: 575-748-4131

Sampler Signature: [Signature] e-mail: csettle@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205750

(lab use only)

ORDER #: H402128

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) : 24, 48, 72 hrs	Standard TAT	

Preservation & # of Containers

Matrix

Analyze For:

TCLP:

TOTAL:

Special Instructions:

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers Intact?

VOOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Custody seals on cooler(s)

Sample Hand Delivered

by Sampler/Client Rep.?

by Courier?

UPS

DHL

FedEx

Lone Star

Temperature Upon Receipt:

2.2 °C

#54

August 06, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: SARA AHA #1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/30/14 15:30.

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 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:

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

Received: 07/30/2014
Reported: 08/06/2014
Project Name: SARA AHA #1 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S1- 5' (H402356-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3960	16.0	08/05/2014	ND	400	100	400	0.00	

Sample ID: S1- 6' (H402356-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	08/05/2014	ND	400	100	400	0.00	

Sample ID: S1- 7' (H402356-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	08/05/2014	ND	400	100	400	0.00	

Sample ID: S1- 8' (H402356-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	08/05/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/30/2014
Reported: 08/06/2014
Project Name: SARA AHA #1 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S2- 5' (H402356-05)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4440	16.0	08/05/2014	ND	400	100	400	0.00	

Sample ID: S2- 6' (H402356-06)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	08/05/2014	ND	400	100	400	0.00	

Sample ID: S2- 7' (H402356-07)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	08/05/2014	ND	400	100	400	0.00	

Sample ID: S2- 8' (H402356-08)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	08/05/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

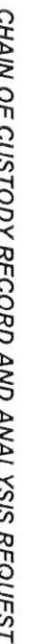
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Page 5 of 5

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September 22, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: SARA AHA #1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/12/14 15:00.

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 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:

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

Received: 09/12/2014
Reported: 09/22/2014
Project Name: SARA AHA #1 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/11/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S2- 9' (H402858-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	09/18/2014	ND	416	104	400	0.00	

Sample ID: S2- 10' (H402858-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	09/18/2014	ND	416	104	400	0.00	

Sample ID: S2- 11' (H402858-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	09/18/2014	ND	416	104	400	0.00	

Sample ID: S2- 12' (H402858-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	09/18/2014	ND	416	104	400	0.00	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Fax No: 575-748-4131

Sampler Signature: [Signature]

e-mail: csettle@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Sara AHA #1 Battery

Project #:

Project Loc: Sara AHA #1 Battery

PO #: 205750

ORDER #: 4402858

LAB # (lab use only)		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers							Matrix	Analyze For:																			
										Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT		
1	S2-9'					9/11/2014	9:00 AM		1								X		S																	X	
2	S2-10'					9/11/2014	9:00 AM		1								X		S																	X	
3	S2-11'					9/11/2014	9:00 AM		1								X		S																	X	
4	S2-12'					9/11/2014	9:00 AM		1								X		S																	X	
Special Instructions:																																					
Relinquished by: [Signature] Date: 9-12-14 Time: 3:00 PM Received by: [Signature] Date: 9/12/14 Time: 3:00 PM																																					
Relinquished by: [Signature] Date: [] Time: [] Received by: [] Date: [] Time: []																																					
Relinquished by: [Signature] Date: [] Time: [] Received by: [] Date: [] Time: []																																					
Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace? Labels on container(s) Custody seals on container(s) Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS DHL FedEx Lone Star Temperature Upon Receipt: 21.4 °C																																					