

Release Area



S1 Sample Location

Analytical Report- H400297 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	Release Area	5/1/2014	Hand Auger	1'	<0.3	<10.0	<10.0	352
S1-2 <sup>1</sup>	Release Area	5/1/2014	Hand Auger	2'	<0.3	<10.0	<10.0	160
S1-3'	Release Area	5/1/2014	Hand Auger	3'	<0.3	<10.0	<10.0	208

Site Ranking is Zero (20). DTGW <50' (approx 48', Section 11, T25S-R27E, Trend Map) All results are ppm, Chlorides for documentation.

Released: 3 B/O, 22 B/PW Recovered: 2 B/O, 18 B/PW Release Date: 4/23/2014



May 13, 2014

**CHASE SETTLE** 

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: TORPEDO "BOW" ST. COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 05/07/14 13:30.

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 <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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

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

Received: Reported: 05/07/2014

05/13/2014

Project Name: Project Number: TORPEDO "BOW" ST. COM #1H

Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

Sampling Type:

05/01/2014

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S1-1' (H401391-01)

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	05/12/2014	ND	2.32	116	2.00	5.07	
Toluene*	<0.050 0.050		05/12/2014	ND	2.22	111	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/12/2014	ND	ND 2.07		2.00	5.42	
Total Xylenes*	<0.150	0.150	05/12/2014	ND	6.37	106	6.00	5.59	
Total BTEX	<0.300	0.300	05/12/2014	ND					
Surrogate: Dibromofluoromethane	96.4% 61.3-		2						
Surrogate: Toluene-d8	8 104 % 71		9						
Surrogate: 4-Bromofluorobenzene	98.2 % 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	<b>352</b> 16.0		05/13/2014	ND	400	100	400	3.92	
TPH 8015M	mg	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/12/2014	ND	195	97.3	200	0.174	
DRO >C10-C28	<10.0 10.0		05/12/2014	ND	205	102	200	0.686	
Surrogate: 1-Chlorooctane	100	% 65.2-14	0	MIN.					
Surrogate: 1-Chlorooctadecane	102 % 63.6-15		4						

### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



# Analytical Results For:

YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

05/07/2014

Sampling Date:

05/01/2014

Reported:

05/13/2014

Sampling Type:

Soil

Project Name:

TORPEDO "BOW" ST. COM #1H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

#### Sample ID: S1-2' (H401391-02)

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	05/13/2014	ND	2.32	116	2.00	5.07	
Toluene*	<0.050	0.050	05/13/2014	ND	2.22	111	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/13/2014	ND	2.07	103	2.00	5.42	
Total Xylenes*	<0.150	0.150	05/13/2014	ND	6.37	106	6.00	5.59	
Total BTEX	<0.300 0.300		05/13/2014	ND					
Surrogate: Dibromofluoromethane	97.0 % 61.3-14.		2						
Surrogate: Toluene-d8	101 % 71.3-12		9						
Surrogate: 4-Bromofluorobenzene	101 % 65.7-14		I						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>160</b> 16,0		05/13/2014	ND	400	100	400	3.92	
TPH 8015M	mg	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/12/2014	ND	195	97.3	200	0.174	
DRO >C10-C28	<10.0 10.0		05/12/2014	ND	205	102	200	0.686	
Surrogate: 1-Chlorooctane	105	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	105 % 63.6-13		4						

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\*=Accredited Analyte

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Celey D. Keine



# Analytical Results For:

YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

05/07/2014

Sampling Date:

05/01/2014

Reported:

05/13/2014

Sampling Type:

Soil

Project Name:

TORPEDO "BOW" ST. COM #1H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: S1-3' (H401391-03)

BTEX 8260B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Result Reporting Limit		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/13/2014	ND	2.32	116	2.00	5.07	
Toluene*	<0.050 0.050		05/13/2014	ND	2.22	111	2.00	3.19	
Ethylbenzene*	<0.050 0.050		05/13/2014	ND	2.07	103	2.00	5.42	
Total Xylenes*	<0.150	0.150	05/13/2014	ND	6.37	106	6.00	5.59	
Total BTEX	<0.300 0.300		05/13/2014 ND						
Surrogate: Dibromofluoromethane	94.2 % 61.3		2						
Surrogate: Toluene-d8	103 % 71.3-1.		9						
Surrogate: 4-Bromofluorobenzene	98.2 % 65.7-14		I						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>208</b> 16.0		05/13/2014	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/12/2014	ND	195	97.3	200	0.174	
DRO >C10-C28	<10.0 10.0		05/12/2014	ND	205	102	200	0.686	
Surrogate: 1-Chlorooctane	105	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107 % 63.6-15		4						

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Celey D. Keine



#### **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. Keene

	Reindushed by:	Relinquished by:						S1-3 <sup>1</sup>	S1-2 <sup>1</sup>	S1-1 <sup>1</sup>	LAB # (lab use only)	ORDER #:	(lab use only)	Samı	Telep	City/t	Com	Com	Proje	Ta	1
	a Stegenseth 5/7										FIELD CODE			Sampler Signature:	Telephone No: 575-748-4171	City/State/Zip: Artesia, NM 88210	Company Address: 105 South 4th Street	Compt (505) 393-232t Yates Petroleum Corporation	Project Manager: Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240	
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