

Analytical Report- H201822	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Stock Pile	8/21/2012	N/A	35.88	424	3230	3654	1100
S1	8/21/2012	6'	.053	ND	ND	ND	304

Site Ranking is Ten (10). Depth to Ground Water <100' (approx. 85', per NMOSE).

All results are ppm. Chlorides for documentation.

Released: 250 MCF; Recovered: 0 MCF. Release Date: 7/31/2012

\* and Red indicate soil was removed



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

August 28, 2012

JEREMY HAASS

Yates Energy Petroleum Corp  
105 S 4th Street  
Artesia, NM 88210

RE: HAWKINS BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/22/12 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 Yates Energy Petroleum Corp  
 JEREMY HAASS  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

 Received: 08/22/2012  
 Reported: 08/28/2012  
 Project Name: HAWKINS BATTERY  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 08/21/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S 1 (H201995-01)**

BTEX 8021B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	08/24/2012	ND	1.76	88.2	2.00	6.04			
Toluene*	0.053	0.050	08/24/2012	ND	1.82	91.2	2.00	5.06			
Ethylbenzene*	<0.050	0.050	08/24/2012	ND	1.86	93.1	2.00	4.70			
Total Xylenes*	<0.150	0.150	08/24/2012	ND	6.14	102	6.00	2.96			

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 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	304	16.0	08/24/2012	ND	400	100	400	4.08				
TPH 8015M			mg/kg							Analyzed By: MS		

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	08/27/2012	ND	186	92.9	200	4.58	
DRO >C10-C28	<10.0	10.0	08/27/2012	ND	170	85.2	200	8.65	

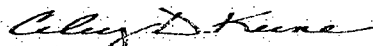
Surrogate: 1-Chlorooctane 90.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.4 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Yates Energy Petroleum Corp  
 JEREMY HAASS  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

 Received: 08/22/2012  
 Reported: 08/28/2012  
 Project Name: HAWKINS BATTERY  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 08/21/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: STOCK PILE (H201995-02)**

BTX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2012	ND	1.76	88.2	2.00	6.04	
<b>Toluene*</b>	<b>3.88</b>	0.050	08/24/2012	ND	1.82	91.2	2.00	5.06	
<b>Ethylbenzene*</b>	<b>6.50</b>	0.050	08/24/2012	ND	1.86	93.1	2.00	4.70	
<b>Total Xylenes*</b>	<b>25.5</b>	0.150	08/24/2012	ND	6.14	102	6.00	2.96	

Surrogate: 4-Bromofluorobenzene (PIE) 193 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1100</b>	16.0	08/24/2012	ND	400	100	400	4.08	
TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>424</b>	50.0	08/27/2012	ND	186	92.9	200	4.58	
<b>DRO &gt;C10-C28</b>	<b>3230</b>	50.0	08/27/2012	ND	170	85.2	200	8.65	

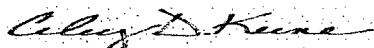
Surrogate: 1-Chlorooctane 144 % 65.2-140

Surrogate: 1-Chlorooctadecane 163 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

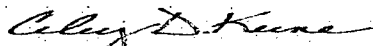
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or 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



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: YPC		BILL TO		ANALYSIS REQUEST																																			
Project Manager: Jeremy Hauss		P.O. #:																																					
Address:		Company:																																					
City: Artesia State: NM Zip: 88210		Attn:																																					
Phone #: Fax #:		Address:																																					
Project #: Project Owner: Jeremy Hauss		City:																																					
Project Name: Hawkins Battery		State: Zip:																																					
Project Location: Eddy		Phone #:																																					
Sampler Name: Jeremy Hauss		Fax #:																																					
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(GRAB OR C) OMP.													# CONTAINERS	MATRIX					PRESERV		SAMPLING		TPH BTX Chlorides													
																	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER													DATE	TIME
1201995	1	S1																	X					X														8/21	
	2	Stock Pile														1			X					X														8/21	

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Relinquished By: <i>J. Hauss</i>	Date: 8/22 Time: 12:15	Received By: <i>Jodi Newton</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
			REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>2c</i>		Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	CHECKED BY: <i>[Signature]</i>	

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