MARTIN YATES, III

FRANK W. YATES 1936-1986

S.P. YATES



105 SOUTH FOURTH STREET

ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

JOHN A. YATES CHAIRMAN OF THE BOARD

JOHN A. YATES JR.

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JORGE S. MENDOZA
CHIEF ADMINISTRATIVE OFFICER

RECEIVED
JUN 13 2012

NMOCD ARTESIA

June 12, 2012

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

Re: Hawkins GY Battery

30-015-21940

Section 27, T18S-R26E Eddy County, New Mexico

Dear Mr. Bratcher,

Enclosed please find a Form C-141, Final Report for the above captioned site regarding release on January 30, 2012 (2RP-1016). Impacted soils this release were excavated and hauled to an NMOCD approved facility. Vertical and horizontal delineation samples were taken and sent to an NMOCD approved laboratory. Enclosed are the analytical reports, results show TPH and BTEX, to be below RRAL's, based on a site ranking of ten (depth to ground water recorded at 85' per NMOSE, Section 27, T18S-R26E); Yates Petroleum Corporation requests closure based on impacted soils excavated/hauled to an approved NMOCD disposal facility and analytical results.

If you have any questions, please call me at 575-748-4111.

Thank you.

YATES PETROLEUM CORPORATION

Amber Cannon

Environmental Regulatory Agent

/anc

Enclosure(s)

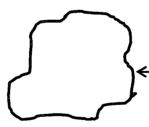
Lease Access

HAWKINS GY Battery 30-015-21940 Section 27, T18S-R26E Eddy County, New Mexico

2RP-1016

TANK BATTERY

Lease Access



- Release Area

B-3, B-4, B-5, B-6, B-7, B-8, B-9 and B-10 samples were taken from the bottom of the excavation.

SP East and SP West samples were taken from two stockpiles that were on location that we ended up hauling off due to high TPH results.

SW-1, Sidewall, SW-2 and SW-3 were taken from the west sidewall of the excavation.

E SW – 1 was taken from the East Sidewall.

S SW - 1 was taken from the South Sidewall.

N SW - 1 was taken from the North Sidewall.

Hawkins GY Battery

Analytical Report- 136241 & 436243	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides	_
B-3'	Release Area	2/1/2012	Grab	3'	92	1130	831	1960	34.6	Excavated
B-4'	Release Area	2/1/2012	Grab	4'	2040	9520	2020	11500	19.5	Excavated
SW-1	Release Area	2/1/2012	Grab	6"	218	1320	529	1850	19.5	Excavated

Analytical Report- 439294	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides	
B-5'	Release Area	3/22/2012	Grab/Auger	5'	2020	8540	1710	10250		Excavated
SP East	Release Area	3/22/2012	Grab	N/A	37.7	1090	3970	5060		Hauled Off
SP West	Release Area	3/22/2012	Grab	N/A	53.5	1160	2870	4030		Hauled Off
Sidewall	Release Area	3/22/2012	Grab	1' into Sidewall	483	3260	1920	5180		Excavated

Analytical Report- H201013	Sample Area,	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
SW-2	Release Area	5/1/2012	Grab	2' into Sidewall	1.96	ND	ND	ND	
SW-3	Release Area	5/1/2012	Grab	3' into Sidewall	ND	ND	ND	ND	
B-6	Release Area	5/1/2012	Grab	6'	877.2	5240	1720	6960	E)
B-7	Release Area	5/1/2012	Grab	7'	363.58	2080	807	2887	E)
B-8	Release Area	5/1/2012	Grab	8'	252.8	1590	781	2371	Ex

ated /ated /ated

Analytical Report- H201274	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
E SW - 1	Release Area	6/4/2012	Grab	1' into Sidewall	ND	ND	ND	ND	
S SW - 1	Release Area	6/4/2012	Grab	1' into Sidewall	ND	ND	ND	ND	
N SW - 1	Release Area	6/4/2012	Grab	1' into Sidewall	ND	ND	ND	ND	
B-9	Release Area	6/4/2012	Grab	9'	ND	ND	ND	ND	
B-10	Release Area	6/4/2012	Grab	10'	0.319	ND	ND	ND	

Site Ranking is TEN (10). Depth to Ground Water 50-99' (approx. 85', Section 27-18S-26E, per NMOSE).

All results are ppm.Chlorides for documentation.

Released: 7 B/PW, 8 MCF; Recovered: 6 B/PW. Release Date: 1/30/2012

Analytical Report 436243

for Yates Petroleum Corporation

Project Manager: Amber Cannon Hawkins GY Battery 30-015-21940 13-FEB-12

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



13-FEB-12

Project Manager: Amber Cannon Yates Petroleum Corporation

105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 436243

Hawkins GY Battery

Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 436243. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 436243 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II

Odessa Laboratory Manager

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Yates Petroleum Corporation, Artesia, NM

Hawkins GY Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
B-3'	S	02-01-12 10:15	3 - 3 ft	436243-001
B-4'	S	02-01-12 10:20	4 - 4 ft	436243-002
SW-1	S	02-01-12 10:25	1 - 1 ft	436243-003



CASE NARRATIVE



Client Name: Yates Petroleum Corporation

Project Name: Hawkins GY Battery

Project ID: 30-015-21940 *Work Order Number:* 436243

Report Date: 13-FEB-12 Date Received: 02/02/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-881041 Anions by E300

RPD recovered outside QC limits between the sample and sample duplicate.

Page 4 of 11

Final 1.000



Certificate of Analysis Summary 436243

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-21940 Contact: Amber Cannon **Project Name: Hawkins GY Battery**

Date Received in Lab: Thu Feb-02-12 11:55 am

Project Location: Eddy County

Report Date: 13-FEB-12

								Project Manager:	Brent Barron II	
	Lab Id:	436243-0	01	436243-0	02	436243-0	03	•		
Analysis Daguestad	Field Id:	B-3'		B-4'		SW-1				
Analysis Requested	Depth:	3-3 ft		4- 4 ft		1-1 ft				
	Matrix:	SOIL		SOIL		SOIL				
	Sampled:	Feb-01-12 1	0.15	Feb-01-12 1	0 20	Feb-01-12 1	0 25			
Anions by E300	Extracted:									
	Analyzed:	Feb-11-12	11.00	Feb-11-12 1	1 00	Feb-11-12	1:00			
_	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		34.6	1.02	19 5	1 02	19.5	0 978			
Percent Moisture	Extracted:									
	Analyzed:	Feb-03-12 1	14:20	Feb-03-12 1	4.20	Feb-03-12 1	4:20			
	Units/RL:	%	RL	%	RL	%	RL			
Percent Moisture		17.5	1 00	17 3	1.00	14.1	1 00			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our hability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantiation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analytic. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- * Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation. ^ NELAC or State program does not offer Accreditation at this time.

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Project Name: Hawkins GY Battery

Work Order #: 436243

Project ID:

30-015-21940

Lab Batch #: 881041

Sample: 881041-1-BKS

Result [A]

< 0.840

Matrix: Solid

Date Analyzed: 02/10/2012

Anions by E300

Analytes

Date Prepared: 02/10/2012

Analyst: BRB

Reporting Units: mg/kg

Chloride

Batch	1#:	1
	Blar	ık

1	BLANK /	BLANK SPI	KE REC	COVERYS	STUDY
	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
	20.0	199	100	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes
BRL - Below Reporting Limit



Form 3 - MS Recoveries

Project Name: Hawkins GY Battery

Work Order #: 436243

Project ID: 30-015-21940

Lab Batch #: 881041

Date Prepared: 02/11/2012

Analyst: BRB

Date Analyzed: 02/11/2012 **QC-Sample ID:** 436418-001 S

Batch #: 1

Penarting United marka

Matrix: Soil MATRIX / MATRIX SPIKE RECOVERY STUDY

Reporting Units: mg/kg	WIATE	MAINIA / MAINIA SPINE RECOVERT STUDY							
Inorganic Anions by EPA 300	Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag			
Analytes	[A]	[B]							
Chloride	4.86	103	88.4	81	75-125				

Lab Batch #: 881041

Date Analyzed: 02/11/2012

Date Prepared: 02/11/2012

Analyst: BRB

QC-Sample ID: 436760-001 S

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY							
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag		
Analytes	[A]	[B]						
Chloride	4.59	100	94.5	90	75-125			

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Sample Duplicate Recovery



Project Name: Hawkins GY Battery

Work Order #: 436243

Lab Batch #: 881041

Project ID: 30-015-21940

Date Analyzed: 02/11/2012 11.00 Date Prepared: 02/11/2012 Analyst:BRB

QC-Sample ID: 436418-001 D Batch #: 1

h#: 1 Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY

Reporting Units: mg/kg	SAMPLE SAMPLE DUPLICATE RECOVERY							
Anions by E300	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag			
Analyte		[B]						
Chloride	4.86	6.38	27	20	F			

Lab Batch #: 880595

Date Analyzed: 02/03/2012 09:00

Date Prepared: 02/03/2012

Analyst: BRB

QC- Sample ID: 436269-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %	SAMPLE	SAMPLE SAMPLE DUPLICATE RECOVERY							
Percent Moisture	Parent Sample Result A	Sample Duplicate Result	RPD	Control Limits %RPD	Flag				
Analyte	. ,	[B]							
Percent Moisture	4 23	3 80	11	20					

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

	Project Manager:	Amber Cannon														. 1	Proje	ct N	ame	: <u>H</u>	aw	kin	s G	ΥE	3at	tery	<u></u>			
	Company Name	Yates Petroleum Corporat	ion										·	·····			F	Proje	ect#	: 30	-01:	5-21	1940	1						
	Company Address:	105 South 4th Street															Pro	ject	Loc	: <u>E</u> d	dy C	ount	У							
	City/State/Zip:	Artesia, NM 88210																	PO #	: 10:	3202	0								
	Telephone No:	575-748-4111				Fax No:		575-	-748	-458	35					Rep	ort F	orm	at:	×	Sta	ndar	rd	Γ	٦т	RRP		□ N	IPDES	3
	Sampler Signature:	Compacar	VVr C	וכי		- e-mail:			aca	anr	on(@ _V	ates	peti	rol	eum.	com	1												
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Special li	on SEPAr	TPH: 8015B, BT	EX: 80	21B 8	Chlorides.	Please show	BT	EX	resu	ıits	as m	ıg/k	g. Ti	nank	yo	u	1	<u>. L .</u>	Sai	nple	Cor	tain	nmer ers ir	igici.			ل ک	3 }:::	N N	愁心
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XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa Document Title: Sample Receipt Checklist

Document No.: SYS-SRC

Revision/Date No. 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: 1945	Petroleus	m						
Date/Time:	212	Iv.	55					
Lab 10#: 436	241/43	300	43					
Initials:	AF.							
		s	ample Receipt C	heck	list			
1. Samples on ice?					Blue	Water	No	
2. Shipping container in	good condition?				(Yes)	No	None	
3. Custody seals intact of	n shipping contair	er (co	poler) and bottles?		(Ves	No	N/A	
4. Chain of Custody pres	ient?				(Yes	No		
5. Sample instructions c	omplete on chain o	of cus	tody?		Yes	No		
6. Any missing / extra sa	mples?				Yes	(No)		
7. Chain of custody sign	ed when relinquist	ned / r	eceived?		Yes	No		
8. Chain of custody agre	es with sample lat	el(s)?	·		Yes	No		
9. Container labels legib	le and intact?				(YES)	No		
10. Sample matrix / prop	erties agree with c	hain o	of custody?		Yes	No		
11. Samples in proper co	ontainer / bottle?				Yes	No		
12. Samples properly pr	eserved?				Yes	No	N/A	
13. Sample container int	act?				Yes	No		
14. Sufficient sample am	ount for indicated	test(s	;)?		(Ves)	No		
15. All samples received	within sufficient h	old ti	me?		Yes	No		
16. Subcontract of samp	le(s)?				Yes	No	NIA	
17. VOC sample have ze	ro head space?		,		Yes	No	N/A	
18. Cooler 1 No.	Cooler 2 No.		Cooler 3 No.	<u>.</u>	Cooler 4 No	o	Cooler 5 No.	
1bs 2.0 °c	lbs	°C	lbs	°c	lbs	°c	lbs	°c
	ı	None	conformance Do	cume	ntation			
Contact:	Contac	ted b	y:			Date/Time:		
								
Regarding:								
Corrective Action Taker	1:							
Check all that apply:	Cooling process	has b	equn shortiv after sa	mplina	event and o	out of tempe	rature	
			able by NELAC 5.5.8.					

☐ Initial and Backup Temperature confirm out of temperature conditions

□ Client understands and would like to proceed with analysis

Analytical Report 436241

for Yates Petroleum Corporation

Project Manager: Amber Cannon
Hawkins GY Battery
30-015-21940
13-FEB-12

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



13-FEB-12

Project Manager: Amber Cannon Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 436241

Hawkins GY Battery

Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 436241. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 436241 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II

Odessa Laboratory Manager

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Yates Petroleum Corporation, Artesia, NM

Hawkins GY Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
B-3'	S	02-01-12 10:15	3 - 3 ft	436241-001
B-4'	S	02-01-12 10:20	4 - 4 ft	436241-002
SW-I	S	02-01-12 10:25	1 - 1 ft	436241-003

XENCO Leberatories

CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Hawkins GY Battery



 Project ID:
 30-015-21940
 Report Date:
 13-FEB-12

 Work Order Number:
 436241
 Date Received:
 02/02/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-880592 BTEX by EPA 8021B

SW8021BM

Batch 880592, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 436241-003.

SW8021BM

Batch 880592, Benzene, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 436241-001, -003.

The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene, m_p-Xylenes, o-Xylene is within laboratory Control Limits

Batch: LBA-880721 BTEX by EPA 8021B

SW8021BM

Batch 880721, Benzene, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 436241-002.

The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene, m_p-Xylenes, o-Xylene is within laboratory Control Limits

SW8021BM

Batch 880721, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 436241-002.

4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data

confirmed by re-analysis

Samples affected are: 436002-003 S,436002-003 SD.

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Final 1.000



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Hawkins GY Battery



 Project ID:
 30-015-21940
 Report Date:
 13-FEB-12

 Work Order Number:
 436241
 Date Received:
 02/02/2012

Batch: LBA-881186 TPH By SW8015B Mod

SW8015B NM

Batch 881186, 1-Chlorooctane recovered above QC limits Data confirmed by re-analysis.

Samples affected are: 436241-002.

Batch 881186, 1-Chlorooctane recovered above QC limits Data not confirmed by re-analysis.

Samples affected are: 617761-1-BSD,436241-002 S,436241-002 SD.

SW8015B_NM

Batch 881186, C6-C10 Gasoline Range Hydrocarbons recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. C10-C28 Diesel Range Hydrocarbons recovered above QC limits in the Matrix Spike Duplicate.

Samples affected are: 436241-001, -003, -002.

The Laboratory Control Sample for C10-C28 Diesel Range Hydrocarbons, C6-C10 Gasoline Range Hydrocarbons is within laboratory Control Limits

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Final 1.000



Certificate of Analysis Summary 436241

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-21940
Contact: Amber Cannon

Project Location: Eddy County

Project Name: Hawkins GY Battery

Date Received in Lab: Thu Feb-02-12 11.55 am

Report Date: 13-FEB-12

Project Manager: Brent Barron II

								Project Manager:	Diem Batton II	-,
	Lab Id:	436241-0	01	436241-0	02	436241-0	03			
Analysis Requested	Field Id:	B-3'	1	B-4'		SW-1				
Anusysis Requesieu	Depth:	3-3 ft		4-4 ft		1-1 ft				
	Matrix:	SOIL		SOIL		SOIL				
	Sampled:	Feb-01-12	0.15	Feb-01-12 1	0.20	Feb-01-12 1	10 25			
BTEX by EPA 8021B	Extracted:	Feb-03-12	15.00	Feb-07-12 0	9:54	Feb-03-12 1	5:00			
	Analyzed:	Feb-04-12	06:43	Feb-07-12 1	6:58	Feb-04-12 (08 57			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Benzene		2 35	0.200	91.1	5 99	2 90	0 198			
Toluene		23.0	0 401	663	12.0	52.6	0 396			
Ethylbenzene		23.1	0 200	466	5 99	57 6	0 198			
ın_p-Xylenes		32.3	0 401	624	12.0	77 6	0 396			
o-Xylene		11.2	0 200	198	5 99	27.5	0 198		, .	
Total Xylenes		43.5	0 200	822	5.99	105	0 198			
Total BTEX		92.0	0 200	2040	5.99	218	0.198			
Percent Moisture	Extracted:									
	Analyzed:	Feb-03-12	09.00	Feb-03-12 0	9 00	Feb-03-12 (09.00			
	Units/RL:	%	RL	%	RL	%	RL			
Percent Moisture		17.5	1.00	17 3	1.00	14.1	1 00			
TPH By SW8015B Mod	Extracted:	Feb-09-12	15:00	Feb-09-12 1	5 00	Feb-09-12	15:00			
Analyze		Feb-10-12	12 37	Feb-10-12 I	3.07	Feb-10-12	13:40			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
C6-C10 Gasoline Range Hydrocarbons		1130	90.9	9520	90.8	1320	87.2			
C10-C28 Diesel Range Hydrocarbons		831	90.9	2020	90.8	529	87.2			
Total TPII		1960	90.9	11500	90.8	1850	87.2			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our habitity is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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for our



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantiation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and OA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- * Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation. ^ NELAC or State program does not offer Accreditation at this time.

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Project Name: Hawkins GY Battery

Work Orders: 436241,

Project ID: 30-015-21940

Lab Batch #: 880592

Sample: 436241-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 02/04/12 06:43	Su	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0241	0.0300	80	80-120	
4-Bromofluorobenzene	0.0340	0 0300	113	80-120	

Lab Batch #: 880592

Sample: 436241-003 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 02/04/12 08:57	SU	RROGATE R	ROGATE RECOVERY STUDY								
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags						
Analytes	(· -)	1-1	[D]	, 411							
1,4-Dıfluorobenzene	0.0196	0.0300	65	80-120	**						
4-Bromofluorobenzene	0 0319	0.0300	106	80-120							

Lab Batch #: 880721

Sample: 436241-002 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 02/07/12 16:58	SURROGATE RECOVERY STUDY								
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes		j	[D]	ļ					
1,4-Difluorobenzene	0.0234	0 0300	78	80-120	**				
4-Bromofluorobenzene	0.0316	0.0300	105	80-120					

Lab Batch #: 881186

Sample: 436241-001 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 02/10/12 12:37	SU	RROGATE R	ATE RECOVERY STUDY						
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D]						
1-Chlorooctane	109	100	109	70-135					
o-Terphenyl	47.2	50.0	94	70-135					

Lab Batch #: 881186

Sample: 436241-002 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 02/10/12 13 07	SURROGATE RECOVERY STUDY									
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
Analytes			[D]							
1-Chlorooctane	162	100	162	70-135	**					
o-Terphenyl	45 1	50 1	90	70-135						

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Hawkins GY Battery

Work Orders: 436241,

Project ID: 30-015-21940

Lab Batch #: 881186

Sample: 436241-003 / SMP

Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 02/10/12 13:40	SURROGATE RECOVERY STUDY								
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes		1	[D]						
1-Chlorooctane	120	99 9	120	70-135					
o-Terphenyl	48 7	50.0	97	70-135					

Lab Batch #: 880592

Sample: 617417-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 02/03/12 22:52	SURROGATE RECOVERY STUDY									
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
Analytes			[D]							
1.4-Difluorobenzene	0 0278	0 0300	93	80-120						
4-Bromotluorobenzene	0.0318	0.0300	106	80-120						

Lab Batch #: 880721

Sample: 617498-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 02/07/12 12:01	SURROGATE RECOVERY STUDY								
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D]						
1,4-Difluorobenzene	0.0274	0.0300	91	80-120					
4-Bromofluorobenzene	0.0328	0.0300	109	80-120					

Lab Batch #: 881186

Sample: 617761-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 02/10/12 12:06	SURROGATE RECOVERY STUDY					
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	97.8	100	98	70-135		
o-Terphenyl	51.2	50.0	102	70-135		

Lab Batch #: 880592

Sample: 617417-1-BKS / BKS

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 02/03/12 21:21	SU	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Dıfluorobenzene	0 0295	0.0300	98	80-120			
4-Bromotluorobenzene	0.0326	0.0300	109	80-120			

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Hawkins GY Battery

Work Orders: 436241,

Project ID: 30-015-21940

Lab Batch #: 880721

Sample: 617498-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 02/07/12 10:30	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0296	0.0300	99	80-120		
4-Bromofluorobenzene	0.0345	0.0300	115	80-120		

Lab Batch #: 881186

Sample: 617761-1-BKS / BKS

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 02/10/12 11:05	SURROGATE RECOVERY STUDY					
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	115	100	115	70-135		

47.9

Lab Batch #: 880592

o-Terphenyl

Sample: 617417-1-BSD / BSD

Batch:

Matrix: Solid

70-135

50.0

Units: mg/kg Date Analyzed: 02/03/12 21:44	SU	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene	0.0295	0.0300	98	80-120			
4-Bromofluorobenzene	0.0324	0.0300	108	80-120			

Lab Batch #: 880721

Sample: 617498-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 02/07/12 10:53	SU SU	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Analytes			[10]				
1,4-Difluorobenzene	0.0296	0.0300	99	80-120			
4-Bromofluorobenzene	0.0353	0.0300	118	80-120			

Lab Batch #: 881186

Sample: 617761-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 02/10/12 11:35	SURROGATE RECOVERY STUDY					
TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R {D	Control Limits %R	Flags	
1-Chlorooctane .	138	100	138	70-135	*	
o-Terphenyl	60.2	50.0	120	70-135		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes

^{**} Surrogates outside limits, data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Hawkins GY Battery

Work Orders: 436241,

Project ID: 30-015-21940

Lab Batch #: 880592

Sample: 436002-001 S/MS

Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 02/04/12 02:38	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorobenzene	0 0294	0.0300	98	80-120		
4-Bromofluorobenzene	0.0338	0 0300	113	80-120		

Lab Batch #: 880721

Sample: 436002-003 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 02/07/12 18:06 BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY						
	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
			[D]				
1,4-Difluorobenzene	0 0280	0.0300	93	80-120			
4-Bromofluorobenzene	0 0560	0.0300	187	80-120	*		

Lab Batch #: 881186

Sample: 436241-002 S / MS

Batch:

1

Matrix: Soil

Units: mg/kg Date Analyzed: 02/10/12 14:10	SURROGATE RECOVERY STUDY					
TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	217	100	217	70-135	*	
o- Ferphenyl	46.3	50.0	93	70-135		

Lab Batch #: 880592

Sample: 436002-001 SD / MSD

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 02/04/12 03:00	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]	,		
1,4-Difluorobenzene	0.0296	0 0300	99	80-120		
4-Bromofluorobenzene	0 0332	0.0300	111	80-120		

Lab Batch #: 880721

Sample: 436002-003 SD / MSD

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 02/07/12 18:28	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R D	Control Limits %R	Flags	
Analytes 1,4-Difluorobenzene	0.0281	0 0300	ļ	90.170		
<u></u>			94	80-120		
4-Bromofluorobenzene	0 0515	0.0300	172	80-120	*	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Hawkins GY Battery

Work Orders: 436241,

Project ID: 30-015-21940

Lab Batch #: 881186

Sample: 436241-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 02/10/12 14:39	SU	RROGATE R	ECOVERY :	STUDY	
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	257	99 5	258	70-135	*
o-Terphenyl	50 7	49 8	102	70-135	

All results are based on MDL and validated for QC purposes.

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution Surrogate Recovery [D] = 100 * A / B



BS/BSD Recoveries



Project Name: Hawkins GY Battery

Work Order #: 436241

Analyst: ASA

Date Prepared: 02/03/2012

Project ID: 30-015-21940

Date Analyzed: 02/03/2012

Lab Batch ID: 880592

Sample: 617417-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg		BLAN	K/BLANK S	SPIKE / E	BLANK S	PIKE DUPI	ICATE .	RECOVE	ERY STUD	Y	
RTEV by FDA 9021R	Blank	Snike	Blank	Blank	Spike	Blank	Blk. Snk		Control	Control	

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result (F)	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0 00100	0.100	0 0917	92	0.100	0.0913	91	0	70-130	35	
Toluene	< 0.00200	0.100	0.0904	90	0.100	0 0898	90	1	70-130	35	
Ethylbenzene	< 0.00100	0 100	0.0891	89	0 100	0.0887	89	0	71-129	35	
m_p-Xylenes	<0 00200	0 200	0 183	92	0 200	0.182	91	1	70-135	35	
o-Xylene	<0 00100	0 100	0 0918	92	0.100	0.0914	91	0	71-133	35	<u> </u>

Analyst: ASA

Date Prepared: 02/07/2012

Date Analyzed: 02/07/2012

Lab Batch ID: 880721

Sample: 617498-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R {G}	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Benzene	<0.00100	0.100	0 0893	89	0.100	0.0916	92	3	70-130	35			
Toluene	<0 00200	0.100	0 0886	89	0.100	0.0910	91	3	70-130	35			
Ethylbenzene	<0.00100	0 100	0 0891	89	0 100	0.0913	91	2	71-129	35			
m_p-Xylenes	<0 00200	0.200	0.188	94	0.200	0.192	96	2	70-135	35			
o-Xylene	<0.00100	0.100	0 0913	91	0 100	0.0936	94	2	71-133	35			

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



35

35

Project Name: Hawkins GY Battery

Work Order #: 436241

C6-C10 Gasoline Range Hydrocarbons

C10-C28 Diesel Range Hydrocarbons

Analyst: ASA Date Prepared: 02/09/2012

Project ID: 30-015-21940

Date Analyzed: 02/10/2012

17

16

70-135

70-135

Matrix: Solid

Lab Batch ID: 881186

Sample: 617761-1-BKS

<150

<150

Batch #: 1

1000

1000

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY Units: mg/kg Blk. Spk Rlank Spike Blank Blank Blank Control Control TPH By SW8015B Mod Spike Spike Dup. RPD Limits Limits Flag Sample Result Added Spike Spike Added Result %R Duplicate %Ř % %R %RPD |A|[B] [C] |D|[E] Result [F] IGI **Analytes**

77

83

1000

1000

909

970

91

97

768

829

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Hawkins GY Battery

Work Order #: 436241

Project ID: 30-015-21940

Lab Batch ID: 880592

QC-Sample ID: 436002-001 S

Batch #:

Matrix: Soil

Date Analyzed: 02/04/2012

Date Prepared: 02/03/2012

Analyst: ASA

Reporting Units: mg/kg MATRIX SPIKE DUPLICATE RECOVERY STUD
MATRIA SI IKE / MATRIA SI IKE DUI LICATE RECOVERT STUD

5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	MATRIA STIRE / MATRIA STIRE DUI LICATE RECOVERT STUDI											
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added {E}	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Benzene	<0.00120	0.120	0.0646	54	0.119	0 0803	67	22	70-130	35	Х	
Toluene	<0 00239	0.120	0.0591	49	0 119	0.0703	59	17	70-130	35	Х	
Ethylbenzene	<0.00120	0.120	0 0522	44	0.119	0 0584	49	11	71-129	35	Х	
m_p-Xylenes	<0.00239	0 239	0 0954	40	0.239	0 113	47	17	70-135	35	Х	
o-Xylene	<0.00120	0 120	0.0488	41	0.119	0 0579	49	17	71-133	35	Х	

Lab Batch ID: 880721

QC- Sample ID: 436002-003 S

Batch #:

Matrix: Soil

Date Analyzed: 02/07/2012

Date Prepared: 02/07/2012

Analyst: ASA

Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R		Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	{B}	[6]	[D]	{E}	Result [F]	[G]	/0	/81	/GKI B	
Benzene	<0 00111	0.111	0.0662	60	0.111	0.0622	56	6	70-130	35	X
Toluene	0.0200	0 111	0.0588	35	0 111	0.0507	28	15	70-130	35	Х
Ethylbenzene	0.0974	0.111	0.0780	0	0111	0 0590	0	28	71-129	35	X
m_p-Xylcnes	0 216	0 222	0 170	0	0 222	0 127	0	29	70-135	35	Х
o-Xylene	0.200	0 111	0 126	0	0.111	0.0955	0	28	71-133	35	X

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

Page 15 of 19



Form 3 - MS / MSD Recoveries



Project Name: Hawkins GY Battery

Work Order #: 436241

Project ID: 30-015-21940

Lab Batch ID: 881186

QC- Sample ID: 436241-002 S

Batch #:

Matrix: Soil

Date Analyzed: 02/10/2012

Date Prepared: 02/09/2012

Analyst: ASA

Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY														
TPH By SW8015B Mod	Parent Sample Result	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag				
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R {G}	%	%R	%RPD					
C6-C10 Gasoline Range Hydrocarbons	9520	1210	13500	329	1200	16600	590	21	70-135	35	Х				
C10-C28 Diesel Range Hydrocarbons	2020	1210	3580	129	1200	4350	194	19	70-135	35	Х				



Sample Duplicate Recovery



Project Name: Hawkins GY Battery

Work Order #: 436241

Lab Batch #: 880595

Project ID: 30-015-21940

Date Analyzed: 02/03/2012 09:00

Date Prepared: 02/03/2012

Analyst: BRB

QC-Sample ID: 436269-001 D

Batch #: 1

Matrix: Soil

Reporting	Units:	%
-----------	--------	---

Reporting Units: %	SAMPLE /	SAMPLE	DUPLIC.	ATE REC	OVERY
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	4 23	3.80	11	20	

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

	Project Manager:	Amber Cannon				··										Pr	ojec	t Na	me:	на	wk	ıns	G	Y B	atte	₃ry				
	Company Name	Yates Petroleum Corporat	ion														P	roje	ot #:	30-	015-	-219	140							
	Company Address:	105 South 4th Street														. 1	Proj	ect l	-oc:	Edd	у Соі	unty								
	City/State/Zip:	Artesia, NM 88210																P	O #:	103	2020									
	Telephone No:	575-748-4111				Fax No.		575-	748	-458	35					Repoi	nt Fo	гmа	t:	×	Stand	dard			TR	RP	[NF	PDES	3
	Sampler Signature.	anhaca	VwC	7		e-mail:		اِ	aca	ann	on	@ya	ates	pet	rol	eum.co	<u>om</u>													
(lab use	only)																┝			TC		Ana	lyze	For	Τ-	$\overline{}$		_	┨╵	
	# 436241	1421 242						r				• 4 -	46			Mately			_	тот		1	#	#	1				48, 72 hrs	١
OKDE		1 200 1	Т	T	T	Γ	Τ	一	Ť	reser	vation	1 4 7	f Cont	ainer	-	Matrix	80158	ي			-	₽ Se	1	6260	l		1 1		24, 48,	\vdash
AB # (lab use only)	FIEI	LD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	<u>as</u>	HNO	HCI	H ₂ SO ₄	Na ₂ S ₂ O ₃	None	Other (Specify)	DW-Drinking Water SL=Sludge GW = Groundwater S*Soil/Soid NP=Non-Potable Snectiv Other	TPH 4181 8015M	TX 1005 TX 10	Cations (Ca. Mg. Na. K)	Anions (Ct. SO4, Alkalinity)	i	As Ag Ba Cd Cr Pb	Volatiles	/5030 or BTEX	RCI	NORM	Chlorides		e-Schedule)	Standard TAT
01		B-3'	3'	3,	2/1/2012	10:15 AM		1	×	_	\perp	\perp	1_		_	S	X		Ш			1	1	X	L		x	_		×
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		RATE REPORT						\perp		\perp							L				$oldsymbol{\perp}$						丄	\bot		
Special in	structions:	TPH: 8015B, BT	EX: 80	218 8	Chlorides.	Please show	βŤ	EXr	est	ults	as n	ng/kg	j. Tr	nank	yo	u			San	pie (ory C Cont	ainei	s int	taci?	india.	: ::::::::::::::::::::::::::::::::::::	()	JN S	
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Relinquish	ed by	Date	Tin	ne	Received by										Dat	e	Tim		Sam	ple l	Hand ample	Del r/Cli	vere ent R	ed Rep. ?	?	151.55		9	N	- 1
Relinquish	ed by FPCLL ~	Date	Tin	ne	Received by ELC	Man.	5	1/2	2)	ッ		-			Date	ال (را،	Time				ourier iture	0	UP Ref	G ceipt	DHL	ک	FedE	i Lon	ne Sta)°C	1



XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa Document Title: Sample Receipt Checklist

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Vates	Petroleu	m		•	•	•		
Date/Time:	2.12	11.	55					
Lab ID#: 43(0)	241 / 43	3(0)	43					
Initials:		<u> </u>	19					
Midais.				L (.)	U 4			
		5	ample Receipt C	песк	iist	_		
1. Samples on ice?					Blue	Water	No	
2. Shipping container in	good condition?		·- ·- ·-	_	(Yes)	No	None	
3. Custody seals intact of	n shipping contair	ner (co	ooler) and bottles?		(Fes	No	N/A	
4. Chain of Custody pres	ent?				(Yes	No		
5. Sample instructions c	omplete on chain o	of cus	tody?		Yes	No		
6. Any missing / extra sa	mples?		···		Yes	(No)		
7. Chain of custody sign	ed when relinquist	ned / r	eceived?		Yes	No		
8. Chain of custody agre	es with sample lab	el(s)?	· · · · · · · · · · · · · · · · · · ·		Yes	No		
9. Container labels legib	ie and intact?				(Yes)	No		
10. Sample matrix / prop	erties agree with c	hain c	of custody?		Yes	No		
11. Samples in proper co	ntainer / bottle?		<u> </u>		Xes	No		
12. Samples properly pro	eserved?				Yes	No	N/A	
13. Sample container int	act?				Yes	No		
14. Sufficient sample am	ount for indicated	test(s)?		(Yes)	No		
15. All samples received	within sufficient h	old ti	ne?		Yes	No		
16. Subcontract of samp	le(s)?				Yes	No	NIA	
17. VOC sample have ze	ro head space?				Yes	No	N/A	
18. Cooler 1 No.	Cooler 2 No.		Cooler 3 No.		Cooler 4 No	o.	Cooler 5 No.	
lbs 2.0 °c	lbs	°C	lbs	°C	lbs	°c	lbs	°c
	,	None	onformance Doc	ume	ntation			
Contact:	Contac					Date/Time:		
			/ ·			Date: Time		
Regarding:								
Corrective Action Taken	:							
Check all that apply:	Cooling process	has be	egun shortly after sar	npling	event and o	out of temper	ature	

Page 19 of 19

condition acceptable by NELAC 5.5.8.3.1.a.1.

□ Client understands and would like to proceed with analysis

☐ Initial and Backup Temperature confirm out of temperature conditions

Analytical Report 439294

for Yates Petroleum Corporation

Project Manager: Amber Cannon
Hawkins GY Battery
30-015-21940
03-APR-12

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



03-APR-12

Project Manager: Amber Cannon Yates Petroleum Corporation 105 South Fourth St.

Artesia, NM 88210

Reference: XENCO Report No: 439294

Hawkins GY Battery

Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 439294. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 439294 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II

Odessa Laboratory Manager

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Yates Petroleum Corporation, Artesia, NM

Hawkins GY Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
B-5'	S	03-22-12 09:30	5 - 5 ft	439294-001
SP East	S	03-22-12 09:30		439294-002
SP West	S	03-22-12 09:30		439294-003
Sidewall	S	03-22-12 09:30	1 - 1 ft	439294-004



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Hawkins GY Battery

Project ID:

30-015-21940

Work Order Number: 439294

Report Date: 03-APR-12

Date Received: 03/23/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-884479 BTEX by EPA 8021B

SW8021BM

Batch 884479, Benzene, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 439294-002, -003, -004.

The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene, m_p-Xylenes, o-Xylene is within laboratory Control Limits

SW8021BM

Batch 884479, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 439294-003,439294-002.

Batch: LBA-884686 BTEX by EPA 8021B

SW8021BM

Batch 884686, Benzene, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 439294-001.

The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene, m_p-Xylenes, o-Xylene is within laboratory Control Limits



Contact: Amber Cannon

Project Location: Eddy County

Certificate of Analysis Summary 439294

Yates Petroleum Corporation, Artesia, NM

Project Id: 30-015-21940 Project Name: Hawkins GY Battery

Date Received in Lab: Fri Mar-23-12 08:20 am

Report Date: 03-APR-12

Project Manager: Brent Barron II

								Project Mai	nager:	Brent Barron II	
	Lab Id:	439294-0	101	439294-0	02	439294-0	03	439294-0	04		
Analysis Requested	Field Id:	B-5'	B-5'		SP East		SP West		11		
Analysis Requesieu	Depth:	5-5 ft	5-5 ft					1-1 ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Mar-22-12	09:30	Mar-22-12	09:30	Mar-22-12	09-30	Mar-22-12	09:30		
BTEX by EPA 8021B	Extracted:	Mar-29-12	15.51	Mar-27-12	11:05	Mar-27-12	11:05	Mar-27-12	11:05		
	Analyzed:	Mar-29-12	17:31	Mar-27-12	15:57	Mar-27-12	16:20	Mar-27-12	14:27		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		49.7	5.83	ND	0 0519	ND	0 0513	2.13	0 562		
Toluene		574	11.7	1.25	0.104	1.60	0.103	54.5	1.12		
Ethylbenzene		494	5.83	9 93	0 0519	14.0	0 0513	143	0 562		
m_p-Xylenes		670	11.7	18 4	0 104	26 1	0.103	211	1.12		
o-Xylene		234	5.83	8.14	0 0519	11.8	0.0513	72 2	0.562		
Total Xylenes		904	5.83	26.5	0 0519	37 9	0.0513	283	0.562		
Total BTEX		2020	5.83	37.7	0.0519	53.5	0.0513	483	0 562		
Percent Moisture	Extracted:										
	Analyzed:	Mar-23-12	08:30	Mar-23-12 08:30		Mar-23-12 08:30		Mar-23-12 08·30		•	
	Units/RL:	%	RL	%	RL	%	RL	%	RL		
Percent Moisture		14.3	1.00	3.70	1 00	2.28	1 00	11.9	1.00		
TPH By SW8015B Mod	Extracted:	Mar-23-12	15:06	Mar-23-12	15 06	Mar-23-12	15:06	Mar-23-12	15:06		
	Analyzed:	Mar-26-12	20:40	Mar-26-12	21:04	Mar-26-12	21:28	Mar-26-12	21:53		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C10 Gasoline Range Hydrocarbons		8540	291	1090	258	1160	51.1	3260	56.6		
C10 - C28 Diesel Range Hydrocarbons		1710	291	3970	258	2870	51.1	1920	56.6		
Total TPH		10250	291	5060	258	4030	51.1	5180	56.6		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our hability is limited to the amount involved for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latın America - Odessa - Corpus Christi

Brent Barron II Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantiation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and OA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- * Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit

LOO Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Project Name: Hawkins GY Battery

Work Orders: 439294,

Project ID: 30-015-21940

Lab Batch #: 884403

Sample: 439294-001 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 03/26/12 20:40	SURROGATE RECOVERY STUDY						
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane	105	99.7	105	70-135	,		
o-Terphenyl	35.3	49.9	71	70-135			

Lab Batch #: 884403

Sample: 439294-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg

Date Analyzed: 03/26/12 21:04

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod	Amount Found	True Amount	Recovery	Control Limits	Flags
Analytes	[A]	[B]	%R [D]	%R	•
1-Chlorooctane	127	99.5	128	70-135	
o-Terphenyl	39 2	49 8	79	70-135	

Lab Batch #: 884403

Sample: 439294-003 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 03/26/12 21:28	SURROGATE RECOVERY STUDY					
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes		ļ	[D]			
1-Chlorooctane	108	99 8	108	70-135		
o-Terphenyl	39 9	49.9	80	70-135		

Lab Batch #: 884403

Sample: 439294-004 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 03/26/12 21:53	SURROGATE RECOVERY STUDY						
ТРН Е	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane	Analytes	104	99.8	104	70-135			
o-Terphenyl		35.7	49.9	72	70-135	:		

Lab Batch #: 884479

Sample: 439294-004 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 03/27/12 14:27	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0 0247	0.0300	82	80-120		
4-Bromofluorobenzene	0.0322	0.0300	107	80-120		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Hawkins GY Battery

Work Orders: 439294,

Project ID: 30-015-21940

Lab Batch #: 884479

Sample: 439294-002 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 03/27/12 15:57	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount {B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Dıfluorobenzene	0.0249	0.0300	83	80-120		
4-Bromofluorobenzene	0 0397	0.0300	132	80-120	**	

Lab Batch #: 884479

Sample: 439294-003 / SMP

Batch: 1

Matrix: Soil

Unite ma/ka

Date Analyzed: 03/27/12 16:20

SURROGATE RECOVERY STUDY

Units: mg/kg Date Analyzed: 05/27/12 10:20		·			
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0248	0.0300	83	80-120	***
4-Bromofluorobenzene	0.0459	0.0300	153	80-120	**

Lab Batch #: 884686

Sample: 439294-001 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 03/29/12 17:31	SURROGATE RECOVERY STUDY						
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene		0.0241	0.0300	80	80-120			
4-Bromofluorobenzene		0.0325	0.0300	108	80-120			

Lab Batch #: 884403

Sample: 619699-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 03/26/12 19:52	SURROGATE RECOVERY STUDY						
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane	90.2	99.6	91	70-135			
o-Terphenyl	37.0	49 8	74	70-135			

Lab Batch #: 884479

Sample: 619765-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 03/27/12 12:33	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
I,4-Dıfluorobenzene	0.0271	0.0300	90	80-120	•		
4-Bromofluorobenzene	0.0281	0.0300	94	80-120			

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Hawkins GY Battery

Work Orders: 439294,

Project ID: 30-015-21940

Lab Batch #: 884686

Sample: 619904-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 03/29/12 17:09	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Dıfluorobenzene	0.0268	0.0300	89	80-120			
4-Bromofluorobenzene	0.0270	0.0300	90	80-120			

Lab Batch #: 884403

Sample: 619699-1-BKS / BKS

Batch: I Matrix: Solid

500

Units: mg/kg Date Analyzed: 03/26/12 19:03	SURROGATE RECOVERY STUDY					
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes		- • -	[D]			
1-Chlorooctane	108	99.9	108	70-135		

46.7

Lab Batch #: 884479

o-Terphenyl

Sample: 619765-1-BKS / BKS

Batch:

Matrix: Solid

93

70-135

Units: mg/kg Date Analyzed: 03/27/12 11:03	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
Analytes 1.4-Dıfluorobenzene	0.0304	0.0300	101	80-120	***************************************	
4-Bromofluorobenzene	0.0320	0.0300	107	80-120		

Lab Batch #: 884686

Sample: 619904-1-BKS / BKS

Batch: 1

1 Matrix: Solid

Units: mg/kg Date Analyzed: 03/29/12 15:38	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes	.,	' '	[D]			
1,4-Dıfluorobenzene	0.0284	0.0300	95	80-120		
4-Bromofluorobenzene	0.0297	0.0300	99	80-120		

Lab Batch #: 884403

Sample: 619699-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 03/26/12 19:28	SURROGATE RECOVERY STUDY					
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	111	99.7	111	70-135		
o-Terphenyl	45.8	49 9	92	70-135		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Hawkins GY Battery

Work Orders: 439294,

Project ID: 30-015-21940

Lab Batch #: 884479

Sample: 619765-1-BSD / BSD

Matrix: Solid Batch:

Units: mg/kg Date Analyzed: 03/27/12 11:25	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
i,4-Dıfluorobenzene	0.0296	0 0300	99	80-120		
4-Bromofluorobenzene	0.0313	0.0300	104	80-120		

Lab Batch #: 884686

Sample: 619904-1-BSD / BSD

Batch: 1

Matrix: Solid

Units mg/kg

Date Analyzed: 03/29/12 16:00

SURROGATE RECOVERY STUDY

Units: mg/kg Date Analyzed: 03/29/12 10:00	SOURCE TRACE TO TO DI					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
l,4-Dıfluorobenzene	0.0286	0.0300	95	80-120		
4-Bromofluorobenzene	0.0291	0.0300	97	80-120		

Lab Batch #: 884403

Sample: 439310-008 S / MS

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 03/27/12 05:36	SURROGATE RECOVERY STUDY					
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]	1		
1-Chlorooctane	98.4	99.9	98	70-135		
o-Terphenyl	36.5	50.0	73	70-135)	

Lab Batch #: 884479

Sample: 439379-001 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 03/27/12 17:05	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes	()	(~)	[D]	/010		
i,4-Dıfluorobenzene	0 0288	0.0300	96	80-120		
4-Bromofluorobenzene	0.0324	0.0300	108	80-120		

Lab Batch #: 884686

Sample: 439431-002 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 03/29/12 22:26	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes	' '		[D]	,		
1,4-Dıfluorobenzene	0.0286	0.0300	95	80-120		
4-Bromofluorobenzene	0.0320	0 0300	107	80-120		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Hawkins GY Battery

Work Orders: 439294,

Project ID: 30-015-21940

Lab Batch #: 884403

Sample: 439310-008 SD / MSD

Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 03/27/12 06:01	SURROGATE RECOVERY STUDY					
TPH By SW8015B Mod	Amount Found {A}	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	79.5	99.8	80	70-135		
o-Terphenyl	36.0	49.9	72	70-135		

Lab Batch #: 884479

Sample: 439379-001 SD / MSD

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes		1	[D]			
1,4-Dıfluorobenzene	0.0286	0.0300	95	80-120		
4-Bromofluorobenzene	0.0296	0.0300	99	80-120		

Lab Batch #: 884686

Sample: 439431-002 SD / MSD

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Dıfluorobenzene	0.0287	0.0300	96	80-120		
4-Bromofluorobenzene	0.0315	0.0300	105	80-120		

Surrogate Recovery [D] = 100 * A / B

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



BS / BSD Recoveries



Project Name: Hawkins GY Battery

Work Order #: 439294

Analyst: ASA **Date Prepared:** 03/27/2012 **Project ID:** 30-015-21940

Date Analyzed: 03/27/2012

Lab Batch ID: 884479

Sample: 619765-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	}	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	G				
Benzene	<0.00100	0.100	0.102	102	0.100	0.0942	94	8	70-130	35	
Toluene	<0 00200	0.100	0.102	102	0.100	0.0942	94	8	70-130	35	
Ethylbenzene	<0.00100	0.100	0.102	102	0.100	0.0949	95	7	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.212	106	0.200	0.197	99	7	70-135	35	
o-Xylene	<0.00100	0.100	0 103	103	0 100	0 0957	96	7	71-133	35	

Analyst: ASA

Date Prepared: 03/29/2012

Date Analyzed: 03/29/2012

Lab Batch ID: 884686

Sample: 619904-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg		BLAN	K /BLANK	SPIKE / I	BLANK S	SPIKE DUP	LICATE 1	RECOVI	ERY STUE)Y 	
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Bik. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	(E)	Result [F]	[G]				
Benzene	<0 00100	0.100	0.0806	81	0.100	0.0855	86	6	70-130	35	
Toluene	<0 00200	0.100	0 0800	80	0.100	0.0862	86	7	70-130	35	
Ethylbenzene	<0.00100	0.100	0 0809	81	0.100	0.0865	87	7	71-129	35	
m_p-Xylenes	<0.00200	0 200	0.165	83	0.200	0.180	90	9	70-135	35	
o-Xvlene	<0.00100	0.100	0.0809	81	0.100	0.0874	87	8	71-133	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Hawkins GY Battery

Work Order #: 439294

Project ID: 30-015-21940

Lab Batch ID: 884479

QC-Sample ID: 439379-001 S

Batch #:

Matrix: Soil

Date Analyzed: 03/27/2012

Date Prepared: 03/27/2012

Analyst: ASA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

	171	IATKIA SEIK	E/WIALL	KIA SEL	KE DUFLICA	IE KEC	OVERI	SIUDI		
Parent Sample Result	Spike Added	Spiked Sample Result [C]	Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
[A]	[B]		{D]	[E]		[G]		1		
<0 000998	0.0998	0.0360	36	0 0996	0 0338	34	6	70-130	35	X
<0.00200	0.0998	0.0188	19	0.0996	0 0167	17	12	70-130	35	Х
0.00718	0.0998	0 0165	9	0.0996	0.0159	9	4	71-129	35	Х
0 0116	0.200	0.0281	8	0 199	0.0263	7	7	70-135	35	X
0 00678	0.0998	0.0158	9	0.0996	0.0151	8	5	71-133	35	Х
	Sample Result [A]	Parent Sample Result Added B	Parent Spike Result Cl	Parent Spike Result Result Added B	Parent Spike Result Added [C] %R Added [E]	Parent Spike Result Added [C] Parent Spiked Sample Result Added [B] Parent P	Parent Sample Result Added E	Parent Spike Spiked Sample Result Added [C] WR Added [E] Spiked Sample Spiked Sample Result F] WR WR WR WR WR WR WR W	Sample Result Added IS Sample %R Added IE Spike Result F %R (IG) %R %R (IG) Spike Result F %R (IG) %R %R %R (IG) %R %R %R (IG) %R %R %R %R %R %R %R %	Parent Sample Result Added IB Spiked Sample Manual Spiked Sample Spiked Sample Spiked Sample Spiked Spike

Lab Batch ID: 884686

Date Analyzed: 03/29/2012

QC- Sample ID: 439431-002 S

Batch #:

Matrix: Soil

Date Prepared: 03/29/2012 Analyst: ASA

Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	-	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R {G	%	%R	%RPD	
Benzene	<0.00104	0.104	0.0696	67	0.103	0.0657	64	6	70-130	35	Х
Toluene	< 0.00207	0.104	0 0693	67	0.103	0.0659	64	5	70-130	35	Х
Ethylbenzene	< 0.00104	0.104	0.0690	66	0.103	0.0663	64	4	71-129	35	Х
m_p-Xylenes	<0.00207	0.207	0 141	68	0 205	0.135	66	4	70-135	35	Х
o-Xylene	<0 00104	0.104	0.0673	65	0.103	0.0634	62	6	71-133	35	X



Sample Duplicate Recovery



Project Name: Hawkins GY Battery

Work Order #: 439294

Lab Batch #: 884324

Project ID: 30-015-21940

Date Analyzed: 03/23/2012 08:30

Date Prepared: 03/23/2012

Analyst: BRB

QC- Sample ID: 439258-001 D

Batch #: 1

Matrix: Solid

Reporting Units: %	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte			ļ		
Percent Moisture	38 4	38.3	0	20	

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

	Project Manager:	Amber Cannon														•	Proj	ect	Nan	ne:_	Hav	<u>vki</u>	ns	GY	Ва	<u>atte</u>	ry				
	Company Name	Yates Petroleum Corpor	ation															Pro	ojeci	#:_	30-0	15-:	2194	0							
	Company Address:	105 South 4th Street															P	roje	ct L	oc:_	Eddy	Cou	uty			·					
	City/State/Zip:	Artesia, NM 88210														_			PO	#:_	1032	:020									
	Telephone No:	575-748-4111				Fax No:		575-	-748	3-458	85_					R	port	For	mat	:	x s	Stanc	dard			TRE	RP	ſ	□м	PDE	s
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AB# (lab use only)	FIEL	LD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	lce	HNO3	HC.	100 P	NaOH Na.S.O.	None	Other (Specify)	DW=Dnnking Water SL=Studge		TPH 418 1 8015M	ř	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	Metals As Ad Ba Cd Cr Pb	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N O.R M	Chlorides		RUSH TAT (Pre-Schedute)	Standard TAT
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40	Si	idewall	1'	1'	3/22/2012	9:30 AM	\sqcup	14	X	-	-		-	-		- 5	3	X		-	-	+	4	╄	Х	\vdash	\dashv	\dashv	+	╁	×
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Special in	nstructions:	TPH: 8015B, B	TEV: B	210	Places show	DTEV coculto			140	Th	ank	<u> </u>	<u>,</u>						-	abo	orato		omn	L_						<u> </u>	니
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Relinquish Relinquish	ber Cannon	Date 03/22/12 Date	14:00	me) P	Received by:										Da			ime		Cust Sam	ody s	seals land	Head on o	onta verec	iner(Y Y Y		N N	
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XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

client: Yata Petrokum		•		
Date/Time: 3.23.12 08:20				
Lab ID#: 437294				
Initials: INR / PC				
Sample Receipt Check	list			
1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	N/A	
	Yes		NVA	
4. Chain of Custody present?		No		
Sample instructions complete on chain of custody? Any missing / extra samples?	Yes	No.		
7. Chain of custody signed when relinquished / received?				
8. Chain of custody agrees with sample label(s)?	Yes	No No		
	(Yes)	No No		
9. Container labels legible and intact? 10. Sample matrix / properties agree with chain of custody?	Yes	No		-
11. Sample marry / properties agree with chain of custody? 11. Samples in proper container / bottle?	Mes dee	No ·		
12. Samples properly preserved?		No		
13. Sample container intact?	Yes	No	N/A	
		No		
Sufficient sample amount for indicated test(s)? 15. All samples received within sufficient hold time?	Yes	No		
		No		
16. Subcontract of sample(s)? 17. VOC sample have zero head space?	Yes	No No	NIA	
		<u>No</u>	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No		Cooler 5 No.	
		ూ	lbs	°C
Nonconformance Docume	ntation			
Contact:Contacted by:		Date/Time:_		
Regarding:				
Corrective Action Taken:				
- 174				

Check all that apply:

□ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.

- ☐ Initial and Backup Temperature confirm out of temperature conditions
- ☐ Client understands and would like to proceed with analysis



May 10, 2012

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: HAWKINS GY BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/03/12 11:20.

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.qov/field/qa/lab_accred_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. Keens

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



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

Fax To:

(505) 748-4635

Received: Reported: 05/03/2012

05/10/2012

Project Name:

HAWKINS GY BATTERY

Project Number:

30-015-21940

Project Location:

EDDY COUNTY, NM

Sampling Date:

05/01/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

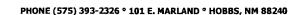
Jodi Henson

Sample ID: SW 2 (H201013-01)

BTEX 8260B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.152	0.050	05/09/2012	ND	2.24	112	2.00	3.94	
Toluene*	0.922	0.050	05/09/2012	ND	2.09	104	2.00	5.50	
Ethylbenzene*	0.376	0.050	05/09/2012	ND	1.96	97.8	2.00	5.95	
Total Xylenes*	0.510	0.150	05/09/2012	ND	6.29	105	6.00	5.94	
Surrogate: Dibromofluoromethane	85 4	% 61.3-14	2						
Surrogate Toluene-d8	97.3	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	85 5	65.7-14	I						
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	05/09/2012	ND	183	91.3	200	5.05	
DRO >C10-C28	<10.0	10.0	05/09/2012	ND	173	86.7	200	3.21	
Surrogate 1-Chlorooctane	82.6	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	91.7	% 57.6-15	8						

Cardinal Laboratories *=Accredited Analyte

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





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

Fax To:

(505) 748-4635

Received: Reported: 05/03/2012

05/10/2012

Project Name: Project Number: HAWKINS GY BATTERY

Project Location:

30-015-21940 EDDY COUNTY, NM Sampling Date:

05/01/2012 Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SW 3 (H201013-02)

BTEX 8260B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2012	ND	2.24	112	2.00	3.94	
Toluene*	<0.050	0.050	05/09/2012	ND	2.09	104	2.00	5.50	
Ethylbenzene*	<0.050	0.050	05/09/2012	ND	1.96	97.8	2.00	. 5.95	
Total Xylenes*	<0.150	0.150	05/09/2012	ND	6.29	105	6.00	5.94	
Surrogate: Dibromofluoromethane	87 0	% 61 3-14	2			<u> </u>			
Surrogate: Toluene-d8	978	% 71 3-12	9						
Surrogate 4-Bromofluorobenzene	84.7	% 65 7-14	1						
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	05/09/2012	ND	183	91.3	200	5.05	
DRO >C10-C28	<10.0	10.0	05/09/2012	ND	173	86.7	200	3.21	
Surrogate 1-Chlorooctane	94.3	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	968	% 57.6-15	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dalin anxing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negigence and any other cause whatsoever shall be determed werved unless made in winting and received by Cardinal wethin thirty (39) days after completion or the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business attemptions, loss of use, or loss of prints incidental, regardless of whether such claims is based upon any of the above stated readouts or otherwise. Results relate only to the simples identified above. This report shall not be reproduced except in full with written approval of Cardinal Liaboratories.





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

Fax To:

(505) 748-4635

Received:

05/03/2012

Sampling Date:

05/01/2012

Reported:

05/10/2012

Sampling Type:

Soil

Project Name:

HAWKINS GY BATTERY

Sampling Condition:

Cool & Intact

Project Number:

30-015-21940

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: B 6 (H201013-03)

BTEX 8260B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	25.2	5.00	05/09/2012	ND	2.24	112	2.00	3.94	
Toluene*	302	5.00	05/09/2012	ND	2.09	104	2.00	5.50	
Ethylbenzene*	212	5.00	05/09/2012	ND	1.96	97.8	2.00	5.95	
Total Xylenes*	338	15.0	05/09/2012	ND	6.29	105	6.00	5.94	
Surrogate: Dibromofluoromethane	86.0	61.3-14	2		.				
Surrogate: Toluene-d8	94.2 9	% 71 3-12	9						
Surrogate: 4-Bromofluorobenzene	88.3 9	65 7-14	I						
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	5240	50.0	05/09/2012	ND	183	91.3	200	5.05	
DRO >C10-C28	1720	50.0	05/09/2012	ND	173	86.7	200	3.21	
Surrogate: 1-Chlorooctane	188 %	6 55.5-15	4						
Surrogate: 1-Chlorooctadecane	128 %	6 57.6-15	8						

Cardinal Laboratories

*=Accredited Analyte

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

Celey & Keine



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

Fax To:

(505) 748-4635

Received:

05/03/2012

Sampling Date:

05/01/2012

Reported:

05/10/2012

Sampling Type:

Soil

HAWKINS GY BATTERY

Sampling Condition:

Cool & Intact

Project Name: Project Number:

30-015-21940

Sample Received By:

Jodi Henson

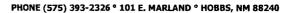
Project Location:

EDDY COUNTY, NM

Sample ID: B 7 (H201013-04)

BTEX 8260B	mg	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.48	5.00	05/09/2012	ND	2.24	112	2.00	3.94	
Toluene*	100	5.00	05/09/2012	ND	2.09	104	2.00	5.50	
Ethylbenzene*	97.1	5.00	05/09/2012	ND	1.96	97.8	2.00	5.95	
Total Xylenes*	160	15.0	05/09/2012	ND	6.29	105	6.00	5.94	
Surrogate: Dibromofluoromethane	86.5	% 61.3-14	2						
Surrogate: Toluene-d8	94 5	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	88 9	% 65.7-14	1						
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	2080	10.0	05/09/2012	ND	183	91.3	200	5.05	
DRO >C10-C28	807	10.0	05/09/2012	ND	173	86.7	200	3.21	
Surrogate 1-Chlorooctane	134	% 55.5-15	4						
Surrogate 1-Chlorooctadecane	97.2	% 57.6-15	8						

Cardinal Laboratories *=Accredited Analyte





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

Fax To:

(505) 748-4635

Received:

05/03/2012

Sampling Date:

05/01/2012

Reported:

05/10/2012

Sampling Type:

Soil

Project Name:

HAWKINS GY BATTERY

Sampling Condition:

Cool & Intact

Project Number:

30-015-21940

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: B 8 (H201013-05)

BTEX 8260B	mg	/kg	Analyze	d By: CMS					
. Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	05/09/2012	ND	2.24	112	2.00	3.94	
Toluene* ·	54.7	5.00	05/09/2012	ND	2.09	104	2.00	5.50	
Ethylbenzene*	73.1	5.00	05/09/2012	ND	1.96	97.8	2.00	5.95	
Total Xylenes*	125	15.0	05/09/2012	ND	6.29	105	6.00	5.94	
Surrogate Dibromofluoromethane	85 5	% 61.3-14	2				· · · · · · · · · · · · · · · · · · ·		
Surrogate: Toluene-d8	97.1	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	89.6	% 65.7-14	1						
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	1590	10.0	05/09/2012	ND	183	91.3	200	5.05	
DRO >C10-C28	781	10.0	05/09/2012	ND	173	86.7	200	3.21	
Surrogate 1-Chlorooctane	146	% 55.5-15	4						
Surrogate. 1-Chlorooctadecane	107	% 57 6-15	8						

Cardinal Laboratories

*=Accredited Analyte

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



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.
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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or but, shall be limited to the amount paid by dient for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal writin thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiance, affiliates or successors among out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwase. Results related only to the samples identified above. This



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Corporation		Project Manager:	Amber Cannon												•	Project Name					e: Hawkins GY Battery											
City/State/Zip: Artesia, NM 88210		Company Name	Yates Petro	leum Corpo	ration	1													Pro	oject	#: 30-015-21940											
Telephone No: 575-748-4111 or 575-513-8799 Fax No: Report format: X Standard		Company Address:	105 South 4	Ith Street_				·										P	roje	ct Lo	Loc: Eddy County											
Sampler Signature:		City/State/Zip:	Artesia, NM	88210							,						-			PO	#:_					1032	020	j <u></u>				
Radio use only)		Telephone No:	575-748-41	11 or 575-5	13-87	99		Fax No:								•	1	Report	Éor	mat:	· [x s	anda	ard	[Дτ	RRP	•		NP	DES	•
Radio use only)		Sampler Signature:	(Umbe	a Cain	we.	N		e-mail:	ŝ	aca	ınn	on(Фуε	ites	spet	<u>role</u>	um.	.com														
Corporation															_		<u>.</u>	TCU		naly.	ze Fo	r: ,	T	Ť				٠.				
FIELD CODE Graph Field Code Field Co	į		013							г	Pre	serva	tion 8	# of	Conta	iners :	· N	//atrix	16				.: .	-							18, 72 hr	
Secial Instructions: This Second	LAB # (lab use onlỳ)	FIEI	LD CODE					Tıme	Field Filtored	-	ON THE					(Specify)	SL=Sludge	GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	1-	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Ci. SO4, Alkalinity),	8		Semivolatiles	g "EX 507.5 /5030 or BTEX		Chlorides	SAR		RUSH TAT (Pre-Schedule) 24, Standard TAT	
B6						-			-	-	-	+	╀	┼-	\vdash	-	╁		1	H	\dashv	+	+	╀	1-1	-	- -	-	 -	-		-1
B7 7 7 5/1/2012 3:15 PM 1 X S X X X X X X X X X X X X X X X X X							·			_	_	+	╁	╀	╁┼		-		1	\vdash	\dashv	-	╀	╀╌	1		+-	╬	+			~
Special Instructions: Please show BTEX results as mg/kg. Thank you. Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace? N Relinquished by: Date Time Received by Date Time Date Time Date Time Temperature Upon Receipt: Date Date Temperature Upon Receipt: Date		:					-	· · · · · · · · · · · · · · · · · · ·	. 	\neg		╬	+-	\vdash	\vdash	+	+		1	\vdash	+	+	╁	╁	1		+	╁	╁	-		_
Special Instructions: Please show BTEX results as mg/kg. Thank you. Relinquished by: Relinquished by: Date Time Received by Date Time Temperature Upon Receipt: Date Date Date Date Date Date Date Date D						 				-1-	-	+	+	╁	┼┼	+	+		1	\vdash	\dashv	+	+	+	┼┼		+	+	 - -			7
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Relinquished by: Date Time Received by: Date Time Received by ELOT: Date Time Sampler/Client Rep. ? Y N by Courier? UPS DHL FedEx Lone Star								w BTEX resu	lts a	s m	g/kç	J.	Tha	nķ y	oų.				-		Sam VOC	ple C s Fr	onta ee of	iners Hea	inta dspa	t? ce?		· · · · · · · · · · · · · · · · · · ·	Q Y	564	N N	
Relinquished by: Date Time Received by ELOT: Date Time Temperature Upon Receipt: 1 0 °C	1 Dun	Cumber Cannin 513/12 11-ZoA: Relinquished by: Date Time						1/9,	[en	· _						<u>S:3</u>	3-12 1/201				Cust Cust Sam	ody : ody : ple l- oy Sa	eals eals land mple	on o	contain cooler vered ent Re	ner(s (s) :p. ?		N N				
	Relinquist	hed by:		me	Received by EL	OT:									Date		Tim	е		•				-	\$ 2	`						



June 12, 2012

AMBER CANNON

Yates Energy Petroleum Corp 105 S 4th Street

Artesia, NM 88210

RE: HAWKINS GY BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/07/12 10:00.

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 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.

Celeg & 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





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

Fax To:

(505) 748-4635

Received:

06/07/2012

Sampling Date:

06/04/2012

Sampling Type:

Soil

Reported:

06/12/2012

Cool & Intact

Project Name:

HAWKINS GY BATTERY

Sampling Condition:

Project Number:

30-015-21940

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: E SW - 1 (H201274-01)

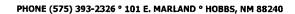
BTEX 8021B	mg/	'kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2012	ND	1.71	85.3	2.00	4.32	
Toluene*	<0.050	0.050	06/09/2012	ND	1.71	85.5	2.00	3.11	
Ethylbenzene*	<0.050	0.050	06/09/2012	ND	1.74	86.8	2.00	3.06	
Total Xylenes*	<0.150	0.150	06/09/2012	ND	5.25	87.6	6.00	2.52	
Surrogate 4-Bromofluorobenzene (PIL	101	% 89 4-12	б						
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	06/08/2012	ND	182	91.1	200	4.54	
DRO >C10-C28	<10.0	10.0	06/08/2012	ND	184	92.2	200	7.32	
Surrogate: 1-Chlorooctane	79.4	% 65 2-14	0		<u>-</u>				
Surrogate: 1-Chlorooctadecane	93.2	% 63 6-15	i4						

Cardinal Laboratories

*=Accredited Analyte

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

Celing D. Kune





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

Fax To:

(505) 748-4635

Received:

06/07/2012

Sampling Date:

06/04/2012

Reported:

06/12/2012

Sampling Type:

Soil

HAWKINS GY BATTERY

Sampling Condition:

Cool & Intact

Project Name: Project Number:

30-015-21940

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: S SW - 1 (H201274-02)

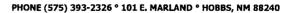
BTEX 8021B	mg/	kg	Analyze	d By: ZZZ				·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2012	ND	1.71	85.3	2.00	4.32	
Toluene*	<0.050	0.050	06/11/2012	ND	1.71	85.5	2.00	3.11	
Ethylbenzene*	<0.050	0.050	06/11/2012	ND	1.74	86.8	2.00	3.06	
Total Xylenes*	<0.150	0.150	06/11/2012	ND	5.25	87.6	6.00	2.52	
Surrogate: 4-Bromofluorobenzene (PIL	102	% 89.4-12	6						
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	06/08/2012	ND	182	91.1	200	4.54	
DRO >C10-C28	<10.0	10.0	06/08/2012	ND	184	92.2	200	7.32	
Surrogate 1-Chlorooctane	84 4	% 65 2-14	10						
Surrogate: 1-Chlorooctadecane	98.9	% 63 6-15	i <i>4</i>						

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*=Accredited Analyte

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Celeg D. Keene





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

Fax To:

(505) 748-4635

Received:

06/07/2012

Sampling Date:

06/04/2012

Reported:

06/12/2012

Sampling Type:

Soil

Project Name:

HAWKINS GY BATTERY

Sampling Condition:

Cool & Intact

Project Number:

30-015-21940

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: N SW - 1 (H201274-03)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2012	ND	1.71	85.3	2.00	4.32	
Toluene*	<0.050	0.050	06/09/2012	ND	1.71	85.5	2.00	3,11	
Ethylbenzene*	<0.050	0.050	06/09/2012	ND	1.74	86.8	2.00	3.06	
Total Xylenes*	<0.150	0.150	06/09/2012	ND	5.25	87.6	6.00	2.52	
Surrogate: 4-Bromofluorobenzene (PIL	100 9	6 89.4-12	6						
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	06/08/2012	ND	182	91.1	200	4.54	
DRO >C10-C28	<10.0	10.0	06/08/2012	ND	184	92.2	200	7.32	
Surrogate: 1-Chlorooctane	83.7	% 65 2-14	0						vevee.
Surrogate: 1-Chlorooctadecane	101 9	63 6-15	4						

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

Fax To:

(505) 748-4635

Received:

06/07/2012

Sampling Date:

06/04/2012

Reported:

06/12/2012

Sampling Type:

Soil

Project Name:

HAWKINS GY BATTERY

Sampling Condition:

Cool & Intact

Project Number:

30-015-21940

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

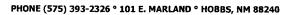
Sample ID: B9 (H201274-04)

BTEX 80218	mg/	kg	Analyze	d By: ZZZ			··		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2012	ND	1.71	85.3	2.00	4.32	
Toluene*	<0.050	0.050	06/09/2012	ND	1.71	85.5	2.00	3.11	
Ethylbenzene*	<0.050	0.050	06/09/2012	ND	1.74	86.8	2.00	3.06	
Total Xylenes*	<0.150	0.150	06/09/2012	ND	5.2 5	87.6	6.00	2.52	
Surrogate 4-Bromofluorobenzene (PIL	98.8	% 89.4-12	б						
TPH 8015M	mg/	'kg	Analyze	d By: MS	,				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/08/2012	ND	182	91.1	200	4.54	
DRO >C10-C28	<10.0	10.0	06/08/2012	ND	184	92.2	200	7.32	
Surrogate 1-Chlorooctane	87 4	% 65.2-14	0		_				
Surrogate: 1-Chlorooctadecane	102	% 63.6-15	4						

Cardinal Laboratories

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

Fax To:

(505) 748-4635

Received:

06/07/2012

Reported:

06/12/2012

Project Name:

HAWKINS GY BATTERY

Project Number:

30-015-21940

Project Location:

EDDY COUNTY, NM

Sampling Date:

Date:

06/04/2012

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

Sample ID: B10 (H201274-05)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2012	ND	1.71	85.3	2.00	4.32	
Toluene*	0.086	0.050	06/11/2012	ND	1.71	85.5	2.00	3.11	
Ethylbenzene*	0.076	0.050	06/11/2012	ND	1.74	86.8	2.00	3.06	
Total Xylenes*	0.157	0.150	06/11/2012	ND	5.25	87.6	6.00	2.52	
Surrogate 4-Bromofluorobenzene (PIL	105 %	6 89.4-12	6						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/08/2012	ND	182	91.1	200	4.54	
DRO >C10-C28	<10.0	10.0	06/08/2012	ND	184	92.2	200	7.32	
Surrogate: 1-Chlorooctane	83 5 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.0 9	63 6-15	4						

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Celia 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 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

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East, Marland, Hobbs, NM 88240

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

	Project Manager:	Amber Cannon												Project Name					: Hawkins GY Battery													
	Company Name	Yates Petrol	eum Corpo	oration	1														Pro	ject	#: 30-015-21940											 -
	Company Address:	105 South 4	th Street															P	roje	et Lç	oc: Eddy County											
	City/State/Zip:	Artesia, NM	88210								<u>.</u>									РО	#: 1032020											·
	Telephone No:	575-748-411	1 or 575-5	51 <u>3-8</u> 7	99	_	Fax No:						,				Re	eport	For	mat:		× s	tanda	ard			TRF	ŔΡ	.[] NF	PDĘS	ş
	Sampler Signature:	ambe	~ Ca	√ ^	S	>	e-mail:		aca	<u>anr</u>	non	@y	ate	spe	tro	leu	m.c	<u>om</u>														
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lab use	only) R#: H2D17	274							Г	· P	reserv	ation	& # of	Cont	ainer	s	. Ma	atrix	10			TCL	L			0					24, 48, 72 hrs	
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AB # (lab use only)	FIEI	LD CODE		Beginning Depth	Ending Depth	.Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	. eol	HNO	HO	NaOH	Ne ₂ S ₂ O ₃	None	Other ('Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater Sesousond NP=Non-Potable Specify Other	TPH: .418.1 :8015M	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Ci, SO4, Aikalinity)	Metals: As Ag Ba Cd Cr Pt	Volatiles	Semivolatiles	ತ್ರಾವಧೀಶವಿಕ್ಷ(೫/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule)	Standard TAT
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5		B10	<u>.</u>	10'	.10'	6/4/2012	11:30 AM	L.	1	X	_	4	1	_				S	Х		_	_			L	Х		_	4			×
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