

Analytical Report- 1/203406 (Hall)		∦Sample⊾ Date	SampleType	Depth	BTEX	GRO	DRO	, TOTAL	Chlorides
Comp-00.5	Release Area	3/6/2012	Comp/Auger	6"	ND	ND	1900.0	1900.0	280
Comp-01.0	Release Area	3/6/2012	Comp/Auger	12"	ND	ND	870.0	870.0	320
Comp-01.5	Release Area	3/6/2012	Comp/Auger	18"	ND	ND	170.0	170.0	150

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 300', Section 1, T20S-R24E, NMOSE).

All results are ppm. X - Sample Points

Released: 110 B/PW; Recovered: 100 B/PW. Release Date: 1/30/2012



Foster AN Battery

30-015-26914

Section 1, T20S-R24E

Eddy County, NM

ENVIRONMENTAL SAMPLE DIAGRAM (Not to Scale)

NORTH

March 26, 2012

Prepared by YPC Environmental Division

# HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 16, 2012

Robert Asher Yates Petroleum 105 South 4th Artesia, NM 88210 TEL: (575) 748-4217 FAX

RE: Foster AN #3 Battery

OrderNo.: 1203406

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/12/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Yates Petroleum

**Project:** Foster AN #3 Battery

Date Reported: 3/16/2012 Client Sample ID: Comp-00.5 Collection Date: 3/6/2012 10:00:00 AM

Lab ID: 1203406-001	Matrix:	SOIL		Received D	ate: 3/12/2	012 9:30:00 AM
Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	1,900	200		mg/Kg	20	3/15/2012 12:05:47 PM
Surr: DNOP	0	77.4-131	s	%REC	20	3/15/2012 12:05:47 PM
EPA METHOD 8015B: GASOLINE R	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/14/2012 5:33:00 PM
Surr: BFB	90.9	69.7-121		%REC	5	3/14/2012 5:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.25		mg/Kg	5	3/14/2012 5:33:00 PM
Toluene	ND	0.25		mg/Kg	5	3/14/2012 5:33:00 PM
Ethylbenzene	ND	0.25		mg/Kg	5	3/14/2012 5:33:00 PM
Xylenes, Total	ND	0.49		mg/Kg	5	3/14/2012 5:33:00 PM
Surr: 4-Bromofluorobenzene	96.6	85.3-139		%REC	5	3/14/2012 5:33:00 PM

Qualifiers: \*/

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Date Reported: 3/16/2012

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Yates Petroleum Client Sample ID: Comp-01.0 Collection Date: 3/6/2012 10:16:00 AM Foster AN #3 Battery **Project:** Received Date: 3/12/2012 9:30:00 AM Lab ID: 1203406-002 Matrix: SOIL **RL** Qual Units DF Analyses Result **Date Analyzed** EPA METHOD 8015B: DIESEL RANGE ORGANICS Analyst: JMP **Diesel Range Organics (DRO)** 870 200 20 3/15/2012 12:27:10 PM mg/Kg Surr: DNOP 0 77.4-131 S %REC 20 3/15/2012 12:27:10 PM **EPA METHOD 8015B: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 24 mg/Kg 5 3/14/2012 9:51:44 PM %REC Surr: BFB 91.7 69.7-121 5 3/14/2012 9:51:44 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB 0.24 5 3/14/2012 9:51:44 PM Benzene ND mg/Kg Toluene ND 0.24 mg/Kg 5 3/14/2012 9:51:44 PM Ethylbenzene ND 0.24 mg/Kg 5 3/14/2012 9:51:44 PM Xylenes, Total ND 0.48 mg/Kg 5 3/14/2012 9:51:44 PM 97.2 %REC 5 Surr: 4-Bromofluorobenzene 85.3-139 3/14/2012 9:51·44 PM

Qualifiers:	*/X	Value
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\*/X Value exceeds Maximum Contaminant Level.

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Date Reported: 3/16/2012

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Yates Petroleum Client Sample ID: Comp-01.5 Collection Date: 3/6/2012 10:31:00 AM **Project:** Foster AN #3 Battery Received Date: 3/12/2012 9:30:00 AM Lab ID: 1203406-003 Matrix: SOIL Analyses Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015B: DIESEL RANGE ORGANICS** Analyst: JMP Diesel Range Organics (DRO) 170 9.9 mg/Kg 1 3/15/2012 1:31:32 PM Surr: DNOP 85.9 77.4-131 %REC 1 3/15/2012 1:31:32 PM **EPA METHOD 8015B: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 3/14/2012 10:49:10 PM Surr: BFB 92.0 69.7-121 %REC 1 3/14/2012 10:49:10 PM EPA METHOD 8021B: VOLATILES Analyst: NSB Benzene ND 0.047 mg/Kg 1 3/14/2012 10:49:10 PM Toluene ND 0.047 mg/Kg 1 3/14/2012 10:49:10 PM mg/Kg Ethylbenzene ND 0.047 1 3/14/2012 10:49:10 PM Xylenes, Total ND 0.093 mg/Kg 1 3/14/2012 10:49:10 PM %REC 3/14/2012 10:49:10 PM Surr: 4-Bromofluorobenzene 97.7 85.3-139 1

Qualifiers: \*

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.con

# Sample Log-In Check List

-

Client Name: Yates Petroleum Corporation W	fork Order Number: 1203406
Received by/date: 03 03 12 12	<u> </u>
Logged By: Ashley Gallegos 3/12/2012 9:30:00 AM	Æ
Completed By: Ashley Gallegos 3/13/2012 8:18:36 AM	A
Reviewed By: 03/13/12	Y
Chain of Custody	
1. Were seals intact?	Yes 🗌 No 🔲 Not Present 🗹
2. Is Chain of Custody complete?	Yes 🗹 No 🗌 Not Present 🗍
3 How was the sample delivered?	FedEx
<u>Log In</u>	
4. Coolers are present? (see 19. for cooler specific information)	Yes 🗹 No 🗌 🛛 NA 🗌
5. Was an attempt made to cool the samples?	Yes 🗹 No 🗍 🛛 NA 🗌
6. Were all samples received at a temperature of $>0^{\circ}$ C to 6.0°C	Yes 🗹 No 🗌 NA 🗌
7. Sample(s) in proper container(s)?	Yes 🗹 No 🗌
8. Sufficient sample volume for indicated test(s)?	Yes 🗹 No 🗌
9. Are samples (except VOA and ONG) properly preserved?	Yes 🗹 No 🗌
10. Was preservative added to bottles?	Yes 🗌 No 🗹 🦳 NA 🗌
11. VOA vials have zero headspace?	Yes 🔲 No 🗔 No VOA Vials 🗹
12. Were any sample containers received broken?	
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes V No H # of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody?	Yes ☑ No □ (<2 or >12 unless noted)
15. Is it clear what analyses were requested?	Yes 🗹 No 🗌 Adjusted?
16. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹 No 🗌 Checked by:
Special Handling (if applicable)	
17. Was client notified of all discrepancies with this order?	Yes 🗌 No 🔲 🛛 NA 🗹
Person Notified: Date:	
By Whom: Via: [ Regarding:	eMail Phone Fax In Person
Client Instructions:	

18. Additional remarks:

#### 19. Cooler Information

1	Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Date	Signed By
	1	4.9	Good	Yes			

Cr	Chain-ot-Custody Record			Tum-Around Time:			HALL ENVIRONMENTAL													
Client:	Yates Pe	troleum	Corporation	X Standard Project Name	□ Rush					A	NA		<b>(S</b> )	[S	LA	BC	DR			
Mailing Ad	dress:	105 S.	Fourth Street				www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109							-						
			a, NM 88210	Project #:			1				45-39			-		-345				
Phone #:			8-4217	-	30-015-2691	4						An	alys	is R	equ	est				
email or Fa	ax#:		yatespetroleum.com	Project Mana	 ger:				_								α-η % <b>Α</b> τ			
QA/QC Pao X Standa			Level 4 (Full Validation)	Robert Asher			(8021)	+ TPH (Gas only)	s/Diese					04,SO4)	CB's					
	Accreditation:			Sampler:	Same	NG NG	TMB's (	PH (G	5B (Ga:	1)	(1)	(†		NO <sub>2</sub> , Pi	3082 Pi					5
						4.6.1.2.	*	+	8015	418.	504	PAF		g	se / se		8			or N)
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + MTBE	BTEX + MTBE	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)			Air Rubbles (Y
3/6/2012	10:00 AM	Soil	Comp-00.5	1 <b>- 4</b> 0z.	Ice	-001	x		х					x						
3/6/2012	10:16 AM	Soil	Comp-01.0	1 - 4oz.	Ice	-002	x		x					x						
3/6/2012	10:31 AM	Soil	Comp-01.5	1 - 4oz.	lce	-003	x		x					x						_
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Date: 3/8/2012	Time: 2:39 PM	Relinqui	shed by:	Received by:	03	Date Time		iarks: ilts as						i sepa	ı arate	repoi	t. Ple	ii ease s	how /	
Date:	Time:	Relinqui	shed by:	Received by:	$\langle \rangle$	Date Time														



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website. <u>www.hallenvironmental.com</u>

March 16, 2012

Robert Asher Yates Petroleum 105 South 4th Artesia, NM 88210 TEL: (575) 748-4217 FAX

RE: Foster AN #3 Battery

OrderNo.: 1203406

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/12/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

andif

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analy	ysis Laborat	ory, Inc.		Date Reported: 3/16/2012						
CLIENT: Yates Petroleum		Client Sample ID: Comp-00.5								
Project: Foster AN #3 Battery			Collection D	ate: 3/6/20	12 10:00:00 AM					
Lab ID: 1203406-001	Matrix: S	OIL	Received Date: 3/12/2012 9:30:00 AM							
Analyses	Result	RL Qu	al Units	DF	Date Analyzed					
EPA METHOD 300.0: ANIONS					Analyst: BRM					
Chloride	280	30	mg/Kg	20	3/15/2012 5:24:13 PM					

# 

**Qualifiers:** 

\*/X Value exceeds Maximum Contaminant Level.

Ε Value above quantitation range J

Analyte detected below quantitation limits

R RPD outside accepted recovery limits

- S Spike Recovery outside accepted recovery limits
- в Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Analytical Report						
Lab Order 1203406						
Date Reported: 3/16/2012						

) +							
		Client Sample	e ID: Comp	-01.0			
		Collection D	Date: 3/6/20	12 10:16:00 AM			
Matrix: SOIL Received Date				te: 3/12/2012 9:30:00 AM			
Result	RL Qu	al Units	DF	Date Analyzed			
				Analyst: BRN			
320	30	mg/Kg	20	3/15/2012 3:20:06 PM			
	Matrix: S Result	Matrix: SOIL Result RL Qu	Client Sample Collection I Matrix: SOIL Received I Result RL Qual Units	Client Sample ID: Comp Collection Date: 3/6/20 Matrix: SOIL Received Date: 3/12/2 Result RL Qual Units DF			

## Hall Environmental Analysis Laboratory, Inc.

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Qualifiers:

\*/X Value exceeds Maximum Contaminant Level. Ε

Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Hall Environmental Anal	Lab Order <b>1203406</b> Date Reported: 3/16/2012						
CLIENT: Yates Petroleum			Client Sample	e <b>ID:</b> Comp	-01.5		
Project: Foster AN #3 Battery			Collection D	ate: 3/6/20	12 10:31:00 AM		
Lab ID: 1203406-003	Matrix: S	SOIL	Received Date: 3/12/2012 9:30:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: BRM		
Chloride	150	30	mg/Kg	20	3/15/2012 4:59:23 PM		

Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank

**Analytical Report** 

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

ENVIRONMENTAL ANALYSIS LABORATORY		01 Hawkins NE que, NM 87105 : 505-345-410;	Sample Log-	In Check List
Client Name: Yates Petroleum Corporation	Work	Order Number:	1203406	
Received by/date	710-	-		
Logged By: Ashley Gallegos 3/12/20	12 9:30:00 AM		F	
Completed By: Ashley Gallegos 3/13/20	12 8:18:36 AM	A	P	
Reviewed By: 03/13/12				
Chain of Custody				
1. Were seals intact?	Ye	es 🗌 No 🗍	Not Present 🗹	
2. Is Chain of Custody complete?	Ye	es 🗹 No 🗌	Not Present	
3. How was the sample delivered?	Fe	dEx		
Log In				
4. Coolers are present? (see 19. for cooler specific info	ormation) Ye	es 🗹 No 🗌	na 🗔	
5. Was an attempt made to cool the samples?	Ye	es 🗹 No 🗋	NA 🗌	
6. Were all samples received at a temperature of >0°	C to 6.0°C Ye	es 🗹 No 🗀	NA 🗌	
7 Sample(s) in proper container(s)?	Ye	es 🗹 No 🗌		
8. Sufficient sample volume for indicated test(s)?	Ye	es 🗹 No 🗌		
9. Are samples (except VOA and ONG) properly prese	rved? Ye			
10. Was preservative added to bottles?	Ye	es 🗌 No 🗹	NA 🗆	
11. VOA vials have zero headspace?	Ye	es 🗌 No 🗍	No VOA Vials 🗹	
12. Were any sample containers received broken?	Ye	es 🗆 No 🗹		
<ol> <li>Does paperwork match bottle labels? (Note discrepancies on chain of custody)</li> </ol>	Ye	es 🗹 No 🗌	# of preserved bottles checked for pH:	I
14. Are matrices correctly identified on Chain of Custody	y? Ye	es 🗹 No 🗌		<2 or >12 unless noted)
15. Is it clear what analyses were requested?	Ye		Adjusted	·
16. Were all holding times able to be met? (If no, notify customer for authorization.)	Ye	es 🗹 No 🛄	Checked b	by:
Special Handling (if applicable)				
17. Was client notified of all discrepancies with this order	er? Ye	es 🗌 No 🗌	NA 🗹	
Person Notified:	Date:			
By Whom:	Via: 🗌 eN	Mail 🔲 Phone	Fax 🗌 In Person	
Regarding:	• • • • • • • • • • • • • • • • • • •			
Client Instructions:				
18. Additional remarks:				

### 19, Cooler Information

Cooler No	Temp ℃	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.9	Good	Yes			

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Chain-of-Custody Record			Turn-Around Time:						8. I				11/1	D/	<b>3</b> 81		CRI	ТА			
Client:	Yates Pe	troleum	Corporation	X Standard	HALL ENVIRONMENTAL																
				X Standard				www.hallenvironmental.com													
Mailing Address: 105 S. Fourth Street				Foster AN #3 Battery				4901 Hawkins NE - Albuquerque, NM 87109													
Artesia, NM 88210				Project #:				Tel. 505-345-3975 Fax 505-345-4107													
Phone #: 575-748-4217				30-015-26914				Analysis Request													
email or Fax#: boba@yatespetroleum.com				Project Manager:				TPH (Gas only)	(Gas/Diesel)	10001					PCB's						
QA/QC Package:				Robert Asher										ပ္စိ					i I		
X Standard   Level 4 (Full Validation)									as/D					P04							
Accreditation:				Sampler: Same				H		E	÷	_		No.	082						
□ NELAP □ Other				2. And the second s	yen en e	and a second second second as a first factor of a second	: + TMB's	+	3015	418.1)	504.	PAH	S	ş	s / 8		8			л Л	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + MTBE	BTEX + MTBE	TPH Method 8015B	TPH (Method	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA § Metals	Anions (F,Cl,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles (Y or N)	
3/6/2012	10:00 AM	Soil	Comp-00.5	1 - 4oz.	Ice	-001	x		x					x							
3/6/2012	10:16 AM	Soil	Comp-01.0	1 - 4oz.	Ice	-002	x		x					x							
3/6/2012	10:31 AM	Soil	Comp-01.5	1 - 4oz.	Ice	-003	x		x					x							
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Date:	Time:	Relinquis	shed by:	Received by: Date Time				Remarks: Please put Chlorides on separate report. Please show ALL													
3/8/2012	3/8/2012 2:39 PM				03/12/12 9:30				results as mg/kg. Thank you.												
Date:	Time:	Relinquis	shed by:	Received by:	$\leq$ '	Date Time	1														

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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