



Analytical Report- 120006 (Hall)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL
Comp-00.5	Release Area	2/28/2012	Comp/Auger	6"	0.12	ND	180	180
Comp-01.0	Release Area	2/28/2012	Comp/Auger	12"	ND	ND	23	23
Comp-01.5	Release Area	2/20/2012	Comp/Auger	36"	ND	ND	ND	0

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 166' per NMOSE).

All results are ppm. X - Sample Points

Released: 50 B/O; Recovered: 35 B/O. Release Date: 1/28/2012



Luminary BAU Federal Com. #2

30-005-63567

Section 35, T11S-R26E

Chaves County, NM

ENVIRONMENTAL SAMPLE DIAGRAM

(Not to Scale)

March 7, 2012

Prepared by  
YPC Environmental Division



*Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

March 06, 2012

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

RE: Luminary BAU Federal Com #2

OrderNo.: 1203006

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/1/2012 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 [www.hallenvironmental.com](http://www.hallenvironmental.com) 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,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order 1203006

Date Reported: 3/6/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Yates Petroleum**Client Sample ID:** Comp-00.5**Project:** Luminary BAU Federal Com #2**Collection Date:** 2/28/2012 10:46:00 AM**Lab ID:** 1203006-001**Matrix:** SOIL**Received Date:** 3/1/2012 8:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	180	9.9		mg/Kg	1	3/5/2012 9:18:55 AM
Surr: DNOP	91.7	77.4-131		%REC	1	3/5/2012 9:18:55 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/2/2012 1:11:33 PM
Surr: BFB	109	69.7-121		%REC	1	3/2/2012 1:11:33 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Methyl tert-butyl ether (MTBE)	ND	0.095		mg/Kg	1	3/2/2012 1:11:33 PM
Benzene	ND	0.048		mg/Kg	1	3/2/2012 1:11:33 PM
Toluene	ND	0.048		mg/Kg	1	3/2/2012 1:11:33 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/2/2012 1:11:33 PM
Xylenes, Total	0.12	0.095		mg/Kg	1	3/2/2012 1:11:33 PM
Surr: 4-Bromofluorobenzene	107	85.3-139		%REC	1	3/2/2012 1:11:33 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  
RL   Reporting Detection Limit

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Yates Petroleum**Client Sample ID:** Comp-01.0**Project:** Luminary BAU Federal Com #2**Collection Date:** 2/28/2012 11:00:00 AM**Lab ID:** 1203006-002**Matrix:** SOIL**Received Date:** 3/1/2012 8:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	23	9.8		mg/Kg	1	3/5/2012 10:24:20 AM
Surr: DNOP	79.6	77.4-131		%REC	1	3/5/2012 10:24:20 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/2/2012 1:40:24 PM
Surr: BFB	98.6	69.7-121		%REC	1	3/2/2012 1:40:24 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	3/2/2012 1:40:24 PM
Benzene	ND	0.049		mg/Kg	1	3/2/2012 1:40:24 PM
Toluene	ND	0.049		mg/Kg	1	3/2/2012 1:40:24 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/2/2012 1:40:24 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/2/2012 1:40:24 PM
Surr 4-Bromofluorobenzene	107	85.3-139		%REC	1	3/2/2012 1:40:24 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

RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1203006

Date Reported: 3/6/2012

CLIENT: Yates Petroleum

Client Sample ID: Comp-01.5

Project: Luminary BAU Federal Com #2

Collection Date: 2/28/2012 11:12:00 AM

Lab ID: 1203006-003

Matrix: SOIL

Received Date: 3/1/2012 8:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/5/2012 10:45:59 AM
Surr: DNOP	92.4	77.4-131		%REC	1	3/5/2012 10:45:59 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/2/2012 2:09:12 PM
Surr: BFB	97.5	69.7-121		%REC	1	3/2/2012 2:09:12 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	3/2/2012 2:09:12 PM
Benzene	ND	0.050		mg/Kg	1	3/2/2012 2:09:12 PM
Toluene	ND	0.050		mg/Kg	1	3/2/2012 2:09:12 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/2/2012 2:09:12 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/2/2012 2:09:12 PM
Surr: 4-Bromofluorobenzene	109	85.3-139		%REC	1	3/2/2012 2:09:12 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  
RL  Reporting Detection Limit

# Sample Log-In Check List

Client Name: Yates Petroleum Corporation Work Order Number: 1203006

Received by/date: AG 3/1/12

Logged By: Lindsay Mangin 3/1/2012 8:58:00 AM

Completed By: Lindsay Mangin 3/1/2012 9:32:23 AM

Reviewed By: [Signature] 3/1/12

## 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

## Log In

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° 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? Yes ☐ No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

## Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☒ No ☐ NA ☐

Person Notified: Robert Asher Date: 3/1/2012  
By Whom: Lindsay Mangin Via: ☐ eMail ☒ Phone ☐ Fax ☐ In Person  
Regarding: Analysis Request  
Client Instructions: -2 and -3: Run 8021BTX and 8015GRO and DRO

18. Additional remarks:

## 19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good	Yes			

[illegible]

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 noted on the analytical report.