



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*

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 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', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

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
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
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
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
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
EPA METHOD 8021B: VOLATILES						Analyst: RAA
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
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
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
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
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
EPA METHOD 8021B: VOLATILES						Analyst: RAA
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.

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
EPA METHOD 8015B: DIESEL RANGE ORGANICS						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
EPA METHOD 8015B: GASOLINE RANGE						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
EPA METHOD 8021B: VOLATILES						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.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

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 *[Signature]*
 Completed By: Lindsay Mangin 3/1/2012 9:32:23 AM *[Signature]*
 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 8021BTEX 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			

Chain-of-Custody Record

Client: Yates Petroleum Corporation

Mailing Address: 105 S. Fourth Street
Artesia, NM 88210

Phone #: 575-748-4217

email or Fax#: boba@yatespetroleum.com

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation:
 NELAP Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush

Project Name: Luminary BAU Federal Com. #2

Project #: 30-005-63567

Project Manager: Robert Asher

Sampler: Same



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diese)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles (Y or N)	
2/28/2012	10:46 AM	Soil	Comp-00.5	1 - 4oz.	Ice	-1	X		X												
2/28/2012	11:00 AM	Soil	Comp-01.0	1 - 4oz.	Ice	-2	X		X												
2/28/2012	11:12 AM	Soil	Comp-01.5	1 - 4oz.	Ice	-3	X		X												

Date: 2/29/2012 Time: 3:33 PM Relinquished by: *[Signature]*

Received by: *[Signature]* Date: 3/1/12 Time: 858

Remarks: Please show ALL results as mg/kg. Thank you.

Called Robert to confirm analysis on -2 and -3 - *[Signature]* 3/1/12

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.