

**Monzeglio, Hope, NMENV**

**From:** Rajen, Gaurav [Gaurav.Rajen@wnr.com]  
**Sent:** Tuesday, February 16, 2010 9:45 AM  
**To:** Monzeglio, Hope, NMENV  
**Cc:** Van Horn, Kristen, NMENV; Cobrain, Dave, NMENV; Riege, Ed  
**Subject:** RE: MTBE  
**Attachments:** November 2009.pdf

U ENTERED

Dear Hope:

Thank you for your e-mail. Are you referring to the 2009 4<sup>th</sup> quarter results? I have attached a copy. I believed I had sent these to you already. My profuse apology if they were not received or if there was an oversight on my part. I will recompile the purge volumes logs and field data and send that on also shortly.

Also, separately we have sent the sampling data for two new monitoring wells OW-50 and OW-52 installed last quarter of 2009 that are in the same vicinity as the other OW wells. This month, we will be sampling these wells for the larger set of parameters you have specified for two quarters since installation.

The first quarter sampling for 2010 for the other OW wells is on schedule and will also be completed this month.

Many thanks,

Raj

**From:** Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]  
**Sent:** Tuesday, February 16, 2010 9:20 AM  
**To:** Rajen, Gaurav  
**Cc:** Van Horn, Kristen, NMENV; Cobrain, Dave, NMENV  
**Subject:** MTBE

Raj

What is the status on the MTBE quarterly sampling and when can we expect the next MTBE quarterly sampling results?

Thanks

Hope

Hope Monzeglio  
Environmental Specialist  
New Mexico Environment Department  
Hazardous Waste Bureau  
2905 Rodeo Park Drive East, BLDG 1  
Santa Fe NM 87505  
Phone: (505) 476-6045; Main No.: (505)-476-6000  
Fax: (505)-476-6060  
hope.monzeglio@state.nm.us

**Websites:**  
New Mexico Environment Department  
Hazardous Waste Bureau

2/16/2010



COVER LETTER

Wednesday, November 18, 2009

Gaurav Rajen  
Western Refining Southwest, Gallup  
Rt. 3 Box 7  
Gallup, NM 87301  
TEL: (505) 722-0227  
FAX (505) 722-0210

RE: 4th QTR OW Wells

Order No.: 0911097

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 11/5/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,

*For [Signature]*  
Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901  
AZ license # AZ0682  
ORELAP Lab # NM100001  
Texas Lab# T104704424-08-TX



# Hall Environmental Analysis Laboratory, Inc.

Date: 18-Nov-09

**CLIENT:** Western Refining Southwest, Gallup  
**Project:** 4th QTR OW Wells

**Lab Order:** 0911097

**Lab ID:** 0911097-01

**Collection Date:** 11/2/2009 9:51:00 AM

**Client Sample ID:** OW-30

**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Methyl tert-butyl ether (MTBE)	1100	130		µg/L	50	11/12/2009 1:17:19 PM
Benzene	ND	1.0		µg/L	1	11/12/2009 1:01:59 AM
Toluene	ND	1.0		µg/L	1	11/12/2009 1:01:59 AM
Ethylbenzene	ND	1.0		µg/L	1	11/12/2009 1:01:59 AM
Xylenes, Total	ND	2.0		µg/L	1	11/12/2009 1:01:59 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/12/2009 1:01:59 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/12/2009 1:01:59 AM
Surr: 4-Bromofluorobenzene	79.7	65.9-130		%REC	1	11/12/2009 1:01:59 AM

**Lab ID:** 0911097-02

**Collection Date:** 11/2/2009 2:13:00 PM

**Client Sample ID:** OW-14

**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Methyl tert-butyl ether (MTBE)	1200	130		µg/L	50	11/12/2009 1:47:42 PM
Benzene	34	1.0		µg/L	1	11/12/2009 2:32:45 AM
Toluene	3.0	1.0		µg/L	1	11/12/2009 2:32:45 AM
Ethylbenzene	6.4	1.0		µg/L	1	11/12/2009 2:32:45 AM
Xylenes, Total	ND	2.0		µg/L	1	11/12/2009 2:32:45 AM
1,2,4-Trimethylbenzene	2.7	1.0		µg/L	1	11/12/2009 2:32:45 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/12/2009 2:32:45 AM
Surr: 4-Bromofluorobenzene	126	65.9-130		%REC	1	11/12/2009 2:32:45 AM

**Lab ID:** 0911097-03

**Collection Date:** 11/3/2009 11:09:00 AM

**Client Sample ID:** OW-29

**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Methyl tert-butyl ether (MTBE)	82	5.0		µg/L	2	11/12/2009 12:47:00 PM
Benzene	ND	1.0		µg/L	1	11/12/2009 3:33:28 AM
Toluene	ND	1.0		µg/L	1	11/12/2009 3:33:28 AM
Ethylbenzene	ND	1.0		µg/L	1	11/12/2009 3:33:28 AM
Xylenes, Total	ND	2.0		µg/L	1	11/12/2009 3:33:28 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/12/2009 3:33:28 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/12/2009 3:33:28 AM
Surr: 4-Bromofluorobenzene	85.3	65.9-130		%REC	1	11/12/2009 3:33:28 AM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.**

Date: 18-Nov-09

CLIENT: Western Refining Southwest, Gallup  
 Project: 4th QTR OW Wells

Lab Order: 0911097

Lab ID: 0911097-04

Collection Date: 11/3/2009 3:42:00 PM

Client Sample ID: OW-13

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	11/12/2009 4:03:48 AM
Benzene	ND	1.0		µg/L	1	11/12/2009 4:03:48 AM
Toluene	ND	1.0		µg/L	1	11/12/2009 4:03:48 AM
Ethylbenzene	ND	1.0		µg/L	1	11/12/2009 4:03:48 AM
Xylenes, Total	ND	2.0		µg/L	1	11/12/2009 4:03:48 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/12/2009 4:03:48 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/12/2009 4:03:48 AM
Surr: 4-Bromofluorobenzene	76.5	65.9-130		%REC	1	11/12/2009 4:03:48 AM

Qualifiers: \* Value exceeds Maximum Contaminant Level  
 E Estimated value  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 MCL Maximum Contaminant Level  
 RL Reporting Limit

## QA/QC SUMMARY REPORT

**Client:** Western Refining Southwest, Gallup  
**Project:** 4th QTR OW Wells

**Work Order:** 0911097

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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**Method:** EPA Method 8021B: Volatiles

**Sample ID:** 5ML RB *MBLK* **Batch ID:** R36137 **Analysis Date:** 11/11/2009 9:50:52 AM

Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5
Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	2.0
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0

**Sample ID:** 5ML RB *MBLK* **Batch ID:** R36161 **Analysis Date:** 11/12/2009 10:10:54 AM

Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5
Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	2.0
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0

**Sample ID:** 100NG BTEX LCS *LCS* **Batch ID:** R36137 **Analysis Date:** 11/12/2009 5:34:45 AM

Methyl tert-butyl ether (MTBE)	16.44	µg/L	2.5	20	0	82.2	51.2	138
Benzene	19.03	µg/L	1.0	20	0	95.1	85.9	113
Toluene	18.35	µg/L	1.0	20	0	91.8	86.4	113
Ethylbenzene	18.08	µg/L	1.0	20	0	90.4	83.5	118
Xylenes, Total	53.66	µg/L	2.0	60	0	89.4	83.4	122
1,2,4-Trimethylbenzene	18.13	µg/L	1.0	20	0.136	90.0	83.5	115
1,3,5-Trimethylbenzene	17.06	µg/L	1.0	20	0	85.3	85.2	113

**Sample ID:** 100NG BTEX LCS *LCS* **Batch ID:** R36161 **Analysis Date:** 11/13/2009 5:28:07 AM

Methyl tert-butyl ether (MTBE)	15.85	µg/L	2.5	20	0	79.2	51.2	138
Benzene	18.02	µg/L	1.0	20	0	90.1	85.9	113
Toluene	18.41	µg/L	1.0	20	0	92.0	86.4	113
Ethylbenzene	18.37	µg/L	1.0	20	0	91.8	83.5	118
Xylenes, Total	55.04	µg/L	2.0	60	0	91.7	83.4	122
1,2,4-Trimethylbenzene	19.35	µg/L	1.0	20	0.148	96.0	83.5	115
1,3,5-Trimethylbenzene	17.84	µg/L	1.0	20	0	89.2	85.2	113

**Qualifiers:**

- |  |  |
|--|--|
| E Estimated value                            | 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       | S Spike recovery outside accepted recovery limits    |

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

11/5/2009

Work Order Number 0911097

Received by: ARS

Sample ID labels checked by:

Initials

Checklist completed by:

Signature

[Handwritten Signature]

Date

11/5/09

[Handwritten Initials]

Matrix:

Carrier name: UPS

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present  Not Shipped
- Custody seals intact on sample bottles? Yes  No  N/A
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Preservation labels on bottle and cap match? Yes  No  N/A
- Water - pH acceptable upon receipt? Yes  No  N/A

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature?

3.4°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action \_\_\_\_\_

# Chain-of-Custody Record

Client: Western Refinery  
Coallup Refinery  
 Mailing Address: Rt 3 Box 7  
Coallup, NM 87301  
 Phone #: 505 722 3833  
 email or Fax#: 505 722 0210

QA/QC Package:  
 Standard       Level 4 (Full Validation)  
 Other \_\_\_\_\_  
 EDD (Type) \_\_\_\_\_

Turn-Around Time:  
 Standard       Rush

Project Name:  
4th QTR OW wells

Project #:

Project Manager:  
G. Rayen  
 Sampler: Cheryl Johnson  
 Office:  Yes       No  
 Sample Temperature: 34



## 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	HEALING	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	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 Bubbles (Y/N)	
11/2/09	0951	H <sub>2</sub> O	OW- <del>30</del> 30			0911097	X												
11/2/09	1413	/	OW-14																
11/3/09	1109	/	OW-29																
11/3/09	1542	/	OW-13																

Date: 11/4/09 Time: 0848 Relinquished by: [Signature]

Received by: [Signature] Date: 11/5/09 Time: 10:00

Remarks:

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.