

Monzeglio, Hope, NMENV

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]
Sent: Friday, October 09, 2009 10:32 AM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD
Cc: Riege, Ed; Turri, Mark; Cobrain, Dave, NMENV
Subject: Flow rate and benzene data for September 2009
Attachments: September 1.pdf; September 8, 2009.pdf; September 15.pdf; September 22.pdf

Dear Hope:

It is a pleasure to send you our flow rate data and benzene strippers' analytical data for the month of September, 2009.

The analytical data are attached in the reports we have received from Hall Environmental Laboratory. There will be one more data set for the week of September 28 which we will send as soon as available. In the 4 weeks of data that are attached, you will note that we have been consistently below 0.5 ppm at the outlet of strippers 1 and 2.

Through the benzene strippers 1 and 2 after the New API Separator (NAPIS), our average flow rate for the month of September 2009 in gallons per minutes was 195.4 GPM (with a maximum of approximately 340.0 GPM and a minimum of approximately 142.2 GPM). We measure these flows by logging the depth in a 60 degrees trapezoidal flume approximately 6 times a day, and then averaging the depth readings, and using the flume's calibration curve to estimate the flow rate.

For the benzene stripper 3 in our process area, in September only our Desalter effluent was routed to this stripper. Previously, we have sent you details of other units that can be routed at times. The Desalter effluents are approximately 4.5% of our crude charge rates, and for September this works out to approximately 17.3 GPM as the monthly average flow rate. As our crude charge rate varied through September, we estimate that the minimum and maximum average daily flow rates through the benzene stripper 3 were 17.0 GPM and 17.7 GPM for the month of September, 2009.

Best regards,

Raj

This inbound email has been scanned for malicious software and transmitted safely to you using Webroot Email Security.



COVER LETTER

Thursday, September 17, 2009

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833

FAX (505) 722-0210

RE: BZ Strippers

Order No.: 0909077

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 9/3/2009 for the analyses presented in the following report.

This report is an addendum to the report dated September 15, 2009. MTBE has been removed from Sample #1.

No determination of compounds below these (denoted by the ND or < sign) has been made. Please don't hesitate to contact Hall Environmental for any additional information or clarifications.

Reporting limits are determined by EPA methodology.

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



Hall Environmental Analysis Laboratory, Inc.

Date: 17-Sep-09

CLIENT: Western Refining Southwest, Gallup
Project: BZ Strippers
Lab Order: 0909077

CASE NARRATIVE

See Corrective Action: [2637] 8021_B aq sample 0909077-01a. Poor match between sample vials. All sample vials provided have been analyzed. Client will be provided "E" Qualified data. No sample remaining for further analysis.

Hall Environmental Analysis Laboratory, Inc.

Date: 17-Sep-09

CLIENT: Western Refining Southwest, Gallup
Project: BZ Strippers

Lab Order: 0909077

Lab ID: 0909077-01

Collection Date: 9/1/2009 3:00:00 PM

Client Sample ID: BZ 3 IN

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	1300		µg/L	500	9/11/2009 10:50:27 PM
Benzene	110000	500	E	µg/L	500	9/11/2009 10:50:27 PM
Toluene	270000	500	E	µg/L	500	9/11/2009 10:50:27 PM
Ethylbenzene	15000	500		µg/L	500	9/11/2009 10:50:27 PM
Xylenes, Total	66000	1000		µg/L	500	9/11/2009 10:50:27 PM
Surr: 4-Bromofluorobenzene	118	65.9-130		%REC	500	9/11/2009 10:50:27 PM

Lab ID: 0909077-02

Collection Date: 9/1/2009 3:15:00 PM

Client Sample ID: BZ 3 OUT

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	20	9/11/2009 11:20:41 PM
Benzene	670	20		µg/L	20	9/11/2009 11:20:41 PM
Toluene	950	20		µg/L	20	9/11/2009 11:20:41 PM
Ethylbenzene	73	20		µg/L	20	9/11/2009 11:20:41 PM
Xylenes, Total	510	40		µg/L	20	9/11/2009 11:20:41 PM
Surr: 4-Bromofluorobenzene	90.0	65.9-130		%REC	20	9/11/2009 11:20:41 PM

Lab ID: 0909077-03

Collection Date: 9/1/2009 3:25:00 PM

Client Sample ID: BZ 1-2 IN

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	1300		µg/L	500	9/10/2009 1:31:06 PM
Benzene	8300	500		µg/L	500	9/10/2009 1:31:06 PM
Toluene	15000	500		µg/L	500	9/10/2009 1:31:06 PM
Ethylbenzene	1200	500		µg/L	500	9/10/2009 1:31:06 PM
Xylenes, Total	7100	1000		µg/L	500	9/10/2009 1:31:06 PM
Surr: 4-Bromofluorobenzene	96.8	65.9-130		%REC	500	9/10/2009 1:31:06 PM

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: 17-Sep-09

CLIENT: Western Refining Southwest, Gallup
 Project: BZ Strippers

Lab Order: 0909077

Lab ID: 0909077-04
 Client Sample ID: BZ 1-2 OUT

Collection Date: 9/1/2009 3:45:00 PM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	9/10/2009 2:01:20 PM
Benzene	400	50		µg/L	50	9/10/2009 2:01:20 PM
Toluene	850	60		µg/L	50	9/10/2009 2:01:20 PM
Ethylbenzene	97	50		µg/L	50	9/10/2009 2:01:20 PM
Xylenes, Total	710	100		µg/L	50	9/10/2009 2:01:20 PM
Surr: 4-Bromofluorobenzene	100	65.9-130		%REC	50	9/10/2009 2:01:20 PM

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: BZ Strippers

Work Order: 0909077

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: R35219 Analysis Date: 9/8/2009 9:20:48 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

Sample ID: 5ML RB MBLK Batch ID: R35255 Analysis Date: 9/10/2009 9:06:22 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

Sample ID: 5ML RB MBLK Batch ID: R35281 Analysis Date: 9/11/2009 9:16:49 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

Sample ID: 100NG BTEX LCS LCS Batch ID: R35219 Analysis Date: 9/9/2009 2:55:15 AM

Methyl tert-butyl ether (MTBE)	20.97	µg/L	2.5	20	0	105	51.2	138
Benzene	21.17	µg/L	1.0	20	0	106	85.9	113
Toluene	21.76	µg/L	1.0	20	0	109	86.4	113
Ethylbenzene	21.04	µg/L	1.0	20	0.134	105	83.5	118
Xylenes, Total	62.33	µg/L	2.0	60	0	104	83.4	122

Sample ID: 100NG BTEX LCS LCS Batch ID: R35255 Analysis Date: 9/10/2009 8:35:46 PM

Methyl tert-butyl ether (MTBE)	19.32	µg/L	2.5	20	0	96.6	51.2	138
Benzene	19.45	µg/L	1.0	20	0	97.3	85.9	113
Toluene	18.74	µg/L	1.0	20	0.118	93.1	86.4	113
Ethylbenzene	18.56	µg/L	1.0	20	0.096	92.3	83.5	118
Xylenes, Total	55.94	µg/L	2.0	60	0	93.2	83.4	122

Sample ID: 100NG BTEX LCS LCS Batch ID: R35281 Analysis Date: 9/11/2009 6:17:16 PM

Methyl tert-butyl ether (MTBE)	19.27	µg/L	2.5	20	0	96.4	51.2	138
Benzene	19.87	µg/L	1.0	20	0	99.3	85.9	113
Toluene	19.02	µg/L	1.0	20	0	95.1	86.4	113
Ethylbenzene	18.99	µg/L	1.0	20	0.078	94.6	83.5	118
Xylenes, Total	56.96	µg/L	2.0	60	0	94.9	83.4	122

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Chain-of-Custody Record

Client: **WESTERN REFINING**
Gallup Refinery
 Mailing Address: **RT 3 Box 9**
Gallup NM 87301
 Phone #: **505 722 3833**
 email or Fax#: **505 722 0210**

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

Accreditation
 NELAP Other _____

EDD (Type) _____

Turn-Around Time:
 Standard Rush _____

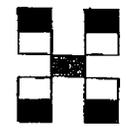
Project Name:
BZ STRIPPERS

Project #:
MONTHLY CONDITIONS (BTEX)

Project Manager:
GAURAV RAJEN

Sampler: **ALVIN DORSEY**

Sample Temperature: **5.1**



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	HEX	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 ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	8021 B BTEX MTBE	Air Bubbles (Y or N)	
9-1-09	3:00		BZ 3 IN	40ML-3		1													X	
9-1-09	3:15		BZ 3 OUT	40ML-3		2													X	
9-1-09	3:25		BZ 1-2 IN	40ML-3		3													X	
9-1-09	3:45		BZ 1-2 OUT	40ML-3		4													X	

Date: **9-2-09** Time: **1200** Relinquished by: **Alvin Dorsey**

Received by: **[Signature]** Date: **9/3/09** Time: **9:45**

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.

COVER LETTER

Monday, September 21, 2009

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833

FAX (505) 722-0210

RE: BZ Strippers

Order No.: 0909190

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 9/10/2009 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 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,



Andy Freeman, Laboratory Manager

NM Lab # NM9425

AZ license # AZ0682

ORELAP Lab # NM100001

Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 21-Sep-09

CLIENT: Western Refining Southwest, Gallop
Project: BZ Strippers

Lab Order: 0909190

Lab ID: 0909190-01
Client Sample ID: BZ 3 IN

Collection Date: 9/8/2009 9:00:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Analyst: NSB						
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	1300		µg/L	500	9/21/2009 12:40:21 AM
Benzene	34000	500		µg/L	500	9/21/2009 12:40:21 AM
Toluene	22000	500		µg/L	500	9/21/2009 12:40:21 AM
Ethylbenzene	740	500		µg/L	500	9/21/2009 12:40:21 AM
Xylenes, Total	4300	1000		µg/L	500	9/21/2009 12:40:21 AM
Surr: 4-Bromofluorobenzene	100	65.9-130		%REC	500	9/21/2009 12:40:21 AM

Lab ID: 0909190-02
Client Sample ID: BZ 3 OUT

Collection Date: 9/8/2009 9:15:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Analyst: NSB						
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	20	9/21/2009 1:10:47 AM
Benzene	130	20		µg/L	20	9/21/2009 1:10:47 AM
Toluene	130	20		µg/L	20	9/21/2009 1:10:47 AM
Ethylbenzene	ND	20		µg/L	20	9/21/2009 1:10:47 AM
Xylenes, Total	94	40		µg/L	20	9/21/2009 1:10:47 AM
Surr: 4-Bromofluorobenzene	105	65.9-130		%REC	20	9/21/2009 1:10:47 AM

Lab ID: 0909190-03
Client Sample ID: BZ 1-2 IN

Collection Date: 9/8/2009 9:40:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Analyst: NSB						
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	500		µg/L	200	9/21/2009 1:41:11 AM
Benzene	4700	200		µg/L	200	9/21/2009 1:41:11 AM
Toluene	10000	200		µg/L	200	9/21/2009 1:41:11 AM
Ethylbenzene	760	200		µg/L	200	9/21/2009 1:41:11 AM
Xylenes, Total	4700	400		µg/L	200	9/21/2009 1:41:11 AM
Surr: 4-Bromofluorobenzene	102	65.9-130		%REC	200	9/21/2009 1:41:11 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: 21-Sep-09

CLIENT: Western Refining Southwest, Gallup
Project: BZ Strippers

Lab Order: 0909190

Lab ID: 0909190-04
Client Sample ID: BZ 1-2 OUT

Collection Date: 9/8/2009 10:00:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	20	9/21/2009 2:41:55 AM
Benzene	270	20		µg/L	20	9/21/2009 2:41:55 AM
Toluene	970	20		µg/L	20	9/21/2009 2:41:55 AM
Ethylbenzene	160	20		µg/L	20	9/21/2009 2:41:55 AM
Xylenes, Total	1000	40		µg/L	20	9/21/2009 2:41:55 AM
Surr: 4-Bromofluorobenzene	115	65.9-130		%REC	20	9/21/2009 2:41:55 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: BZ Strippers

Work Order: 0909190

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: R35371 **Analysis Date:** 9/20/2009 10:10:21 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								

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R35371 **Analysis Date:** 9/20/2009 6:36:42 PM

Methyl tert-butyl ether (MTBE)	20.63	µg/L	2.5	20	0	103	51.2	138			
Benzene	21.35	µg/L	1.0	20	0	107	85.9	113			
Toluene	22.19	µg/L	1.0	20	0	111	86.4	113			
Ethylbenzene	21.82	µg/L	1.0	20	0	109	83.5	118			
Xylenes, Total	63.90	µg/L	2.0	60	0	107	83.4	122			

Sample ID: 100NG BTEX LCSD

LCSD

Batch ID: R35371 **Analysis Date:** 9/20/2009 7:07:05 PM

Methyl tert-butyl ether (MTBE)	20.17	µg/L	2.5	20	0	101	51.2	138	2.25	28	
Benzene	19.70	µg/L	1.0	20	0	98.5	85.9	113	8.03	27	
Toluene	19.30	µg/L	1.0	20	0	96.5	86.4	113	14.0	19	
Ethylbenzene	19.49	µg/L	1.0	20	0	97.5	83.5	118	11.3	10	R
Xylenes, Total	58.36	µg/L	2.0	60	0	97.3	83.4	122	9.06	13	

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:

9/10/2009

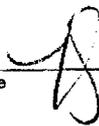
Work Order Number **0909190**

Received by: **TLS**



Checklist completed by:

Signature



Date

9/10/09

Sample ID labels checked by:

Initials

Matrix:

Carrier name: **UPS**

- | | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> | |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Number of preserved bottles checked for pH: _____ |
| Water - Preservation labels on bottle and cap match? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> | |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> | |
| Container/Temp Blank temperature? | 3.1° | <6° C Acceptable
If given sufficient time to cool. | | <2 >12 unless noted below. |

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

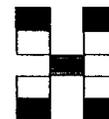
Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: WESTERN REFINING
Gallup Refinery
 Mailing Address: RT 3 Box 9
Gallup 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: BZ STRIPPERS
 Project #: MONTHLY
CONDITIONS (BTEX)
 Project Manager:
 Sampler:
 On Ice: Yes No
 Sample Temperature: 3.1



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	HEAL No	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 ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	8021 B BTEX-MTBE	Air Bubbles (Y or N)	
9-8-09	0900	A9	BZ 3 IN	40ml-3		09109190 1														
9-8-09	0915	/	BZ 3 OUT	40ml-3		2														
9-8-09	0940	/	BZ 1-2 IN	40ml-3		3														
9-8-09	1000	/	BZ 1-2 OUT	40ml-3		4														

Date: 9-9-09 Time: 1200 Relinquished by: Alan P...
 Date: _____ Time: _____ Relinquished by: _____

Received by: [Signature] Date: 9/10/09 Time: 1005
 Received by: _____ Date: _____ Time: _____

Remarks: collected sample API 1-2 western Lab

COVER LETTER

Monday, September 28, 2009

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833

FAX (505) 722-0210

RE: BZ Strippers

Order No.: 0909341

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 9/17/2009 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 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,


Andy Freeman, Laboratory Manager

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



Hall Environmental Analysis Laboratory, Inc.

Date: 28-Sep-09

CLIENT: Western Refining Southwest, Gallup
Project: BZ Strippers

Lab Order: 0909341

Lab ID: 0909341-01

Collection Date: 9/15/2009 11:00:00 AM

Client Sample ID: BZ 3 IN

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: NSB
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	1300		µg/L	500	9/27/2009 1:50:47 AM
Benzene	23000	500		µg/L	500	9/27/2009 1:50:47 AM
Toluene	28000	500		µg/L	500	9/27/2009 1:50:47 AM
Ethylbenzene	2700	500		µg/L	500	9/27/2009 1:50:47 AM
Xylenes, Total	18000	1000		µg/L	500	9/27/2009 1:50:47 AM
Surr: 4-Bromofluorobenzene	110	65.9-130		%REC	500	9/27/2009 1:50:47 AM

Lab ID: 0909341-02

Collection Date: 9/15/2009 11:10:00 AM

Client Sample ID: BZ 3 OUT

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: NSB
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	20	9/27/2009 2:21:14 AM
Benzene	210	20		µg/L	20	9/27/2009 2:21:14 AM
Toluene	700	20		µg/L	20	9/27/2009 2:21:14 AM
Ethylbenzene	210	20		µg/L	20	9/27/2009 2:21:14 AM
Xylenes, Total	1600	40		µg/L	20	9/27/2009 2:21:14 AM
Surr: 4-Bromofluorobenzene	109	65.9-130		%REC	20	9/27/2009 2:21:14 AM

Lab ID: 0909341-03

Collection Date: 9/15/2009 11:30:00 AM

Client Sample ID: BZ 1-2 IN

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: NSB
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	1300		µg/L	500	9/27/2009 2:51:30 AM
Benzene	17000	500		µg/L	500	9/27/2009 2:51:30 AM
Toluene	34000	500		µg/L	500	9/27/2009 2:51:30 AM
Ethylbenzene	3800	500		µg/L	500	9/27/2009 2:51:30 AM
Xylenes, Total	26000	1000		µg/L	500	9/27/2009 2:51:30 AM
Surr: 4-Bromofluorobenzene	110	65.9-130		%REC	500	9/27/2009 2:51:30 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: 28-Sep-09

CLIENT: Western Refining Southwest, Gallup
Project: BZ Strippers

Lab Order: 0909341

Lab ID: 0909341-04
Client Sample ID: BZ 1-2 OUT

Collection Date: 9/15/2009 11:40:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	20	9/27/2009 3:21:45 AM
Benzene	270	20		µg/L	20	9/27/2009 3:21:45 AM
Toluene	930	20		µg/L	20	9/27/2009 3:21:45 AM
Ethylbenzene	220	20		µg/L	20	9/27/2009 3:21:45 AM
Xylenes, Total	1500	40		µg/L	20	9/27/2009 3:21:45 AM
Surr: 4-Bromofluorobenzene	115	65.9-130		%REC	20	9/27/2009 3:21:45 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: BZ Strippers

Work Order: 0909341

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	--------	---------	------	----------	-----------	------	----------	------

Method: EPA Method 8021B: Volatiles

Sample ID: b 6

MBLK

Batch ID: R35469 Analysis Date: 9/26/2009 1:18:45 PM

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								

Sample ID: b 23

MBLK

Batch ID: R35469 Analysis Date: 9/26/2009 9:47:27 PM

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								

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R35469 Analysis Date: 9/26/2009 9:16:59 PM

Methyl tert-butyl ether (MTBE)	20.99	µg/L	2.5	20	0	105	51.2	138			
Benzene	21.42	µg/L	1.0	20	0	107	85.9	113			
Toluene	22.30	µg/L	1.0	20	0	111	86.4	113			
Ethylbenzene	21.64	µg/L	1.0	20	0	108	83.5	118			
Xylenes, Total	63.86	µg/L	2.0	60	0	106	83.4	122			

Sample ID: 100NG BTEX LCS-II

LCS

Batch ID: R35469 Analysis Date: 9/27/2009 8:54:42 AM

Methyl tert-butyl ether (MTBE)	19.16	µg/L	2.5	20	0	95.8	51.2	138			
Benzene	20.98	µg/L	1.0	20	0	105	85.9	113			
Toluene	21.30	µg/L	1.0	20	0.282	105	86.4	113			
Ethylbenzene	21.21	µg/L	1.0	20	0.122	105	83.5	118			
Xylenes, Total	62.15	µg/L	2.0	60	0	104	83.4	122			

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

9/17/2009

Work Order Number 0909341

Received by: TLS

Sample ID labels checked by:

Checklist completed by:

Signature

[Handwritten Signature]

9/17/09

Date

Initials

[Handwritten Initials]

Matrix:

Carrier name: Client drop-off

- 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? Yes 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
- Container/Temp Blank temperature? 0.9° <6° C Acceptable
If given sufficient time to cool.

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____



COVER LETTER

Tuesday, September 29, 2009

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833
FAX (505) 722-0210

RE: Benzene Strippers

Order No.: 0909487

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 9/24/2009 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 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 Andy Freeman, Laboratory Manager

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



Hall Environmental Analysis Laboratory, Inc.

Date: 29-Sep-09

CLIENT: Western Refining Southwest, Gallup
Project: Benzene Strippers

Lab Order: 0909487

Lab ID: 0909487-01

Collection Date: 9/22/2009 8:30:00 AM

Client Sample ID: BZ 3 IN

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: NSB
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	1300		µg/L	500	9/27/2009 2:57:59 PM
Benzene	16000	500		µg/L	500	9/27/2009 2:57:59 PM
Toluene	18000	500		µg/L	500	9/27/2009 2:57:59 PM
Ethylbenzene	1500	500		µg/L	500	9/27/2009 2:57:59 PM
Xylenes, Total	9300	1000		µg/L	500	9/27/2009 2:57:59 PM
Surr: 4-Bromofluorobenzene	103	65.9-130		%REC	500	9/27/2009 2:57:59 PM

Lab ID: 0909487-02

Collection Date: 9/22/2009 8:45:00 AM

Client Sample ID: BZ 3 OUT

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: NSB
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	9/27/2009 3:28:24 PM
Benzene	6300	200		µg/L	200	9/28/2009 4:03:57 PM
Toluene	9300	200		µg/L	200	9/28/2009 4:03:57 PM
Ethylbenzene	1000	50		µg/L	50	9/27/2009 3:28:24 PM
Xylenes, Total	6300	100		µg/L	50	9/27/2009 3:28:24 PM
Surr: 4-Bromofluorobenzene	124	65.9-130		%REC	50	9/27/2009 3:28:24 PM

Lab ID: 0909487-03

Collection Date: 9/22/2009 9:15:00 AM

Client Sample ID: BZ 1-2 IN

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: NSB
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	500		µg/L	200	9/28/2009 4:34:17 PM
Benzene	4800	200		µg/L	200	9/28/2009 4:34:17 PM
Toluene	9300	200		µg/L	200	9/28/2009 4:34:17 PM
Ethylbenzene	840	200		µg/L	200	9/28/2009 4:34:17 PM
Xylenes, Total	5200	400		µg/L	200	9/28/2009 4:34:17 PM
Surr: 4-Bromofluorobenzene	94.6	65.9-130		%REC	200	9/28/2009 4:34:17 PM

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: 29-Sep-09

CLIENT: Western Refining Southwest, Gallup
Project: Benzene Strippers

Lab Order: 0909487

Lab ID: 0909487-04
Client Sample ID: BZ 1-2 OUT

Collection Date: 9/22/2009 9:30:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8021B: VOLATILES

Analyst: NSB

Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	9/27/2009 4:29:02 PM
Benzene	190	50		µg/L	50	9/27/2009 4:29:02 PM
Toluene	460	50		µg/L	50	9/27/2009 4:29:02 PM
Ethylbenzene	54	50		µg/L	50	9/27/2009 4:29:02 PM
Xylenes, Total	370	100		µg/L	50	9/27/2009 4:29:02 PM
Surr: 4-Bromofluorobenzene	109	65.9-130		%REC	50	9/27/2009 4:29:02 PM

Qualifiers:

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- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
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- MCL Maximum Contaminant Level
- RL Reporting Limit

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Benzene Strippers

Work Order: 0909487

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: b 6		MBLK		Batch ID: R35469		Analysis Date: 9/26/2009 1:18:45 PM					
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								
Sample ID: b 23		MBLK		Batch ID: R35469		Analysis Date: 9/26/2009 9:47:27 PM					
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								
Sample ID: 100NG BTEX LCS		LCS		Batch ID: R35469		Analysis Date: 9/26/2009 9:16:59 PM					
Methyl tert-butyl ether (MTBE)	20.99	µg/L	2.5	20	0	105	51.2	138			
Benzene	21.42	µg/L	1.0	20	0	107	85.9	113			
Toluene	22.30	µg/L	1.0	20	0	111	86.4	113			
Ethylbenzene	21.64	µg/L	1.0	20	0	108	83.5	118			
Xylenes, Total	63.86	µg/L	2.0	60	0	106	83.4	122			
Sample ID: 100NG BTEX LCS-II		LCS		Batch ID: R35469		Analysis Date: 9/27/2009 8:54:42 AM					
Methyl tert-butyl ether (MTBE)	19.16	µg/L	2.5	20	0	95.8	51.2	138			
Benzene	20.98	µg/L	1.0	20	0	105	85.9	113			
Toluene	21.30	µg/L	1.0	20	0.282	105	86.4	113			
Ethylbenzene	21.21	µg/L	1.0	20	0.122	105	83.5	118			
Xylenes, Total	62.15	µg/L	2.0	60	0	104	83.4	122			

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received: 9/24/2009

Work Order Number 0909487

Received by: ARS

Sample ID labels checked by: TS Initials

Checklist completed by: [Signature] Date: 9/24/09

Matrix: Carrier name: FedEx

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [checked] No [] Not Present [] Not Shipped []
Custody seals intact on sample bottles? Yes [checked] No [] N/A []
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Water - VOA vials have zero headspace? Yes [checked] No []
No VOA vials submitted [] Yes [checked] No []
Water - Preservation labels on bottle and cap match? Yes [] No [] N/A [checked]
Water - pH acceptable upon receipt? Yes [] No [] N/A [checked]
Container/Temp Blank temperature? 6.6° <6° C Acceptable If given sufficient time to cool.

Number of preserved bottles checked for pH: <2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

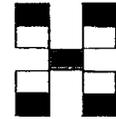
Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: WESTERN Refining
Gallup Refinery
Mailing Address: RT 3 Box 9
Gallup NM 87301
Phone #: 505 722 3833
email or Fax#: 505 722 0210
QA/QC Package:
 Standard Level 4 (Full Validation)
Accreditation
 NELAP Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush _____
Project Name:
BZ STRIPPERS
Project #:
WEEKLY
Project Manager:
GAURAV, RAJEN
Sampler: ALVIN DORSEY
On-site: _____
Sample Temperature: _____



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	FEAL#	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 ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	8021 B BTEX-MTBE	Air Bubbles (Y or N)	
09-22-09	0830	WATER	BZ 3 IN	40ml-3		0902437														
09-22-09	0845	WATER	BZ 3 OUT	40ml-3																
09-22-09	0915	WATER	BZ 1-2 IN	40ml-3																
09-22-09	0930	WATER	BZ 1-2 OUT	40ml-3																

Date: 9-23-09 Time: 1200 Relinquished by: Alvin Dorsey
Received by: [Signature] 9:25 Date: 9/24/09 Time: _____
Date: _____ Time: _____ Relinquished by: _____
Received by: _____ Date: _____ Time: _____

Remarks: WESTERN LAB SAMPLES COLLECTED

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.