Monzeglio, Hope, NMENV

GALLUP

ENTERED

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]
Sent: Monday, April 20, 2009 8:33 AM
To: Monzeglio, Hope, NMENV; Jones, Brad A., EMNRD
Cc: Cobrain, Dave, NMENV; Riege, Ed; Turri, Mark
Subject: Benzene strippers' data and flow rates for the month of March, 2009
Attachments: March 3.pdf; March 4.pdf; March 11.pdf; March 17.pdf; March 24.pdf; April 2.pdf

Dear Hope:

It is a pleasure to send you our flow rate data and benzene strippers' analytical data for the month of March, 2009. (I have also included data for April 2, as that week represents some days of March.)

The analytical data are attached in the reports we have received from Hall Environmental Laboratory. You will note in the attached reports (as also for January and February 2009) that MTBE levels have consistently always been at non-detection levels. Perhaps, as we requested previously, you may consider dropping the requirement of testing for MTBE. Our refinery does not use MTBE and so there is no likelihood of finding MTBE in our effluents.

Through the benzene strippers 1 and 2 after the New API Separator (NAPIS), our average flow rate for the month of March 2009 in gallons per minutes was 229 GPM (with a maximum of approximately 324 GPM and a minimum of 172 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 March 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 March this works out to approximately 24 GPM as the monthly average flow rate. As our crude charge rate ramped up and then started to decrease in March, we estimate that the minimum and maximum average daily flow rates through the benzene stripper 3 varied between 16 GPM and 30 GPM for the month of March, 2009.

You will be pleased to note that our piping and other process modifications (more are ongoing) in our benzene strippers 1 and 2 and the NAPIS have begun to show improvement in our benzene strippers' performance and reductions in the levels of benzene in the effluent.

Best regards,

Raj

This inbound email has been scanned by the MessageLabs Email Security System.

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Monday, April 20, 2009 3:24 PM
To: Rajen, Gaurav; Jones, Brad A., EMNRD
Cc: Cobrain, Dave, NMENV; Riege, Ed; Turri, Mark; Chavez, Carl J, EMNRD
Subject: RE: Benzene strippers' data and flow rates for the month of March, 2009

Raj

Thank you for the data. Pertaining to MTBE, the detection limits are higher than the standard (12 ug/L); therefore it is not clear if MTBE is present or not. If NMED receives consistent data with the detection limits below the standard for MTBE, NMED will then make a determination if MTBE can be removed from the sampling requirements.

Per NMED's February 25, 2009 letter, item b; ensure an effluent sample is collected from the new API separator and include the results with the April submittal.

Let me know if you have any questions.

Hope

From: Rajen, Gaurav [mailto:Gaurav.Rajen@wnr.com]
Sent: Monday, April 20, 2009 8:33 AM
To: Monzeglio, Hope, NMENV; Jones, Brad A., EMNRD
Cc: Cobrain, Dave, NMENV; Riege, Ed; Turri, Mark
Subject: Benzene strippers' data and flow rates for the month of March, 2009

Dear Hope:

It is a pleasure to send you our flow rate data and benzene strippers' analytical data for the month of March, 2009. (I have also included data for April 2, as that week represents some days of March.)

The analytical data are attached in the reports we have received from Hall Environmental Laboratory. You will note in the attached reports (as also for January and February 2009) that MTBE levels have consistently always been at non-detection levels. Perhaps, as we requested previously, you may consider dropping the requirement of testing for MTBE. Our refinery does not use MTBE and so there is no likelihood of finding MTBE in our effluents.

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You will be pleased to note that our piping and other process modifications (more are ongoing) in our benzene strippers 1 and 2 and the NAPIS have begun to show improvement in our benzene strippers' performance and reductions in the levels of benzene in the effluent.

Best regards,

Raj

This inbound email has been scanned by the MessageLabs Email Security System.

Monzeglio, Hope, NMENV

From: Monzeglio, Hope, NMENV
Sent: Tuesday, April 21, 2009 2:24 PM
To: 'Rajen, Gaurav'; Jones, Brad A., EMNRD
Cc: Cobrain, Dave, NMENV; Riege, Ed; Turri, Mark; Chavez, Carl J, EMNRD
Subject: RE: Benzene strippers' data and flow rates for the month of March, 2009

Raj

Thanks for the clarification. Western does not need to change the labeling of the samples, keep it the same as you have been doing. It is fine to send the additional laboratory data, that is not a problem. Western does not need to send us weekly flow rates through Benzene Stripper 3 from the previous months; provide the weekly flow rates starting with April.

Thanks, let me know if you have any questions.

Hope

From: Rajen, Gaurav [mailto:Gaurav.Rajen@wnr.com]
Sent: Monday, April 20, 2009 4:14 PM
To: Monzeglio, Hope, NMENV; Jones, Brad A., EMNRD
Cc: Cobrain, Dave, NMENV; Riege, Ed; Turri, Mark; Chavez, Carl J, EMNRD
Subject: RE: Benzene strippers' data and flow rates for the month of March, 2009

Dear Hope:

Many thanks for your prompt response.

The samples labeled "Benzene Strippers 1 and 2 Inlet" are exactly the effluent from the new API separator (NAPIS). We collect these samples after the effluents come out of the NAPIS and from a sampling port that is on the pipe leading to the pumps that send the effluent to the Strippers. So this sample is what emerges from the NAPIS and not after being pumped to the stripper towers. There is no way to access the effluent immediately as it enters the strippers' inlets as there are no sampling ports at the inlet and the pipes are buried most of the way.

My apologies for the confusion our labeling has caused. We could from now on label the samples Benzene Strippers 1 and 2 Inlet/ NAPIS effluent to be clear. Or, if you prefer, the samples could be labeled NAPIS Effluent.

Thank you for the clarification on the MTBE – we will work with the laboratory to see if the detection limits can be lowered.

You will note that we are actually collecting more samples than you have asked for and also testing for many more chemicals at times. This is because it is useful for us to know the "NAPIS effluent/ Stripper 1 and 2 inlet" value at the same time as we collect the outlet – this helps us understand the effectiveness and is also required for our air permit. The same is true for Stripper 3. NMED/HWB has asked for the outlets to be sampled once a week and the inlets once a month. We are sending you inlet and outlet weekly. As I am sure you want to see the unedited laboratory reports, it is difficult for us to extract the smaller set of data HWB asked for. However, perhaps the larger data set will be useful to you all also. The longer list of chemicals at times is also required for our air permit.

Also, we realized after the data were sent that you had asked for flow rates on a weekly basis for Stripper 3. We have sent you monthly estimates. At this time, as we are making estimates from the crude charge, it is easier for us to give you monthly estimates. However, we will compile the weekly crude charge rate to estimate the flow rate through Stripper 3 and give you weekly estimates. Please let us know if you need weekly estimates for previous months.

Best regards,

Raj

HALL ENVIRONMENTAL ANALYSIS LABORATORY

COVER LETTER

Wednesday, March 18, 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.: 0903093

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 3/6/2009 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, Business Manager
Nancy McDuffie, Laboratory Manager

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

ACCREDITED IN ACCORDANCE WITH nelac

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Mar-09*

CLIENT: Western Refining Southwest, Gallup
Project: Benzene Strippers

Lab Order: 0903093

Lab ID: 0903093-01
Client Sample ID: 3rd Bz Stripper- IN

Collection Date: 3/4/2009 8:00:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: **DAM**
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	1300		µg/L	500	3/13/2009 1:15:19 AM
Benzene	28000	500		µg/L	500	3/13/2009 1:15:19 AM
Toluene	29000	500		µg/L	500	3/13/2009 1:15:19 AM
Ethylbenzene	1300	500		µg/L	500	3/13/2009 1:15:19 AM
Xylenes, Total	9800	1000		µg/L	500	3/13/2009 1:15:19 AM
Surr: 4-Bromofluorobenzene	100	65.9-130		%REC	500	3/13/2009 1:15:19 AM

Lab ID: 0903093-02
Client Sample ID: 3rd Bz Stripper-OUT

Collection Date: 3/4/2009 8:20:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: **DAM**
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	3/13/2009 1:45:36 AM
Benzene	7200	100		µg/L	100	3/13/2009 2:16:07 PM
Toluene	6300	100		µg/L	100	3/13/2009 2:16:07 PM
Ethylbenzene	240	50		µg/L	50	3/13/2009 1:45:36 AM
Xylenes, Total	1800	100		µg/L	50	3/13/2009 1:45:36 AM
Surr: 4-Bromofluorobenzene	102	65.9-130		%REC	50	3/13/2009 1:45:36 AM

Lab ID: 0903093-03
Client Sample ID: Bz Stripper 1 & 2 IN

Collection Date: 3/4/2009 9:00:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: **DAM**
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	500		µg/L	200	3/13/2009 2:46:42 PM
Benzene	7600	200		µg/L	200	3/13/2009 2:46:42 PM
Toluene	15000	200		µg/L	200	3/13/2009 2:46:42 PM
Ethylbenzene	1200	200		µg/L	200	3/13/2009 2:46:42 PM
Xylenes, Total	6600	400		µg/L	200	3/13/2009 2:46:42 PM
Surr: 4-Bromofluorobenzene	103	65.9-130		%REC	200	3/13/2009 2:46:42 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: *18-Mar-09*

CLIENT: Western Refining Southwest, Gallup
Project: Benzene Strippers

Lab Order: 0903093

Lab ID: 0903093-04
Collection Date: 3/4/2009 9:20:00 AM
Client Sample ID: Bz Stripper 1 & 2 OUT
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	3/13/2009 3:17:06 PM
Benzene	1400	50		µg/L	50	3/13/2009 3:17:06 PM
Toluene	3600	50		µg/L	50	3/13/2009 3:17:06 PM
Ethylbenzene	490	50		µg/L	50	3/13/2009 3:17:06 PM
Xylenes, Total	2800	100		µg/L	50	3/13/2009 3:17:06 PM
Surr: 4-Bromofluorobenzene	108	65.9-130		%REC	50	3/13/2009 3:17:06 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Benzene Strippers
Work Order: 0903093

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles									
Sample ID: 5ML RB		*MBLK*			Batch ID:	**R32745**	Analysis Date:	3/12/2009 9:26:52 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						
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID:	**R32745**	Analysis Date:	3/13/2009 4:17:49 AM	
Methyl tert-butyl ether (MTBE)	22.24	µg/L	2.5	111	51.2	138			
Benzene	21.36	µg/L	1.0	107	85.9	113			
Toluene	22.47	µg/L	1.0	112	86.4	113			
Ethylbenzene	21.71	µg/L	1.0	109	83.5	118			
Xylenes, Total	65.45	µg/L	2.0	109	83.4	122			

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: 3/6/2009

Work Order Number 0903093 — Received by: ARS

Checklist completed by: 18 (Signature) 3/6/09 (Date) — Sample ID labels checked by: AS (Initials)

Matrix: — Carrier name: FedEx

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 ☑	
Container/Temp Blank temperature?	5°	*<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 - REFINING
Gallup Refinery
Mailing Address: RT 3 Box 9
Gallup NM 87301
Phone #: 505 722 3227
email or Fax#: 505 722 3833
QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☐ Standard ☐ Rush

Project Name: BZ STrippers
Project #:
Project Manager: GAURAU, RAJEN
Sampler: A. Dorsey
On Ice: ☑ Yes ☐ No
Sample Temperature: 5°

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. 0903008	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)	8021B BTEX MTBE				Air Bubbles (Y or N)
03-04-09	0800	Ag	3rd Bz STripper-IN	3x40ml	HCl	1												X				
03-04-09	0820	|	3rd Bz Stripper-OUT	"	HCl	2												X				
03-04-09	0900	|	Bz STripper 1&2 IN	"	HCl	3												X				
03-04-09	0920	|	Bz Stripper 1&2 out	"	HCl	4												X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
03-05-09	12:00	Alvin		9:20	3/6/09
Date:	Time:	Relinquished by:	Received by:	Date	Time

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.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Friday, March 13, 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-Tests

Order No.: 0903094

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 3/6/2009 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, Business Manager
Nancy McDuffie, Laboratory Manager

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

ACCREDITED IN ACCORDANCE WITH nelac

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Mar-09*

CLIENT: Western Refining Southwest, Gallup
Project: Benzene Strippers-Tests

Lab Order: 0903094

Lab ID: 0903094-01
Client Sample ID: Bz Stripper 1 & 2 IN

Collection Date: 3/3/2009 1:30:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Benzene	3300	200		µg/L	200	3/13/2009 12:14:32 AM
Surr: 4-Bromofluorobenzene	98.2	65.9-130		%REC	200	3/13/2009 12:14:32 AM

Lab ID: 0903094-02
Client Sample ID: Bz Stripper 1 & 2 OUT

Collection Date: 3/3/2009 1:40:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Benzene	320	50		µg/L	50	3/13/2009 12:44:52 AM
Surr: 4-Bromofluorobenzene	106	65.9-130		%REC	50	3/13/2009 12:44:52 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Benzene Strippers-Tests **Work Order:** 0903094

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles									
Sample ID: 5ML RB		*MBLK*			Batch ID:	**R32745**	Analysis Date:	3/12/2009 9:26:52 AM	
Benzene	ND	µg/L	1.0						
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID:	**R32745**	Analysis Date:	3/13/2009 4:17:49 AM	
Benzene	21.36	µg/L	1.0	107	85.9	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: 3/6/2009

Work Order Number 0903094

Received by: ARS

Sample ID labels checked by: _____ Initials

Checklist completed by: _____ Signature 3/6/09 Date

Matrix:

Carrier name: FedEx

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 ☑	
Container/Temp Blank temperature?	5°	*<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 - Refining Gallup Refinery

Mailing Address: RT 3 Box 9 Gallup NM 87301

Phone #: 505 722 3227

email or Fax#: 505 722 3830

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:

☑ Standard ☐ Rush _____

Project Name: BZ Strippers - TESTS

Project #:

Project Manager: Gaurav, Rajen

Sampler: Gaurav, Rajen

On Ice: ☑ Yes ☐ No

Sample Temperature: 5

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. 0903094	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)				Air Bubbles (Y or N)
030309	1:30	WATER	BzStripper h2OIN	3x40ml	HCl	-1												X			
030309	1:40	WATER	BzStripper h2OOUT	"	HCl	-2												X			

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/5/09	8:54	Gaurav Rajen			
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: 8021 BENZENE

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

COVER LETTER

Monday, March 23, 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.: 0903202

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 3/13/2009 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, Business Manager
Nancy McDuffie, Laboratory Manager

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

ACCREDITED IN ACCORDANCE WITH nelac

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *23-Mar-09*

CLIENT: Western Refining Southwest, Gallup
Project: BZ Strippers
Lab Order: 0903202

Lab ID: 0903202-01
Client Sample ID: 3RD BZ Stripper-IN
Collection Date: 3/11/2009 8:30:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	1000		µg/L	400	3/20/2009 11:48:30 AM
Benzene	34000	400		µg/L	400	3/20/2009 11:48:30 AM
Toluene	18000	400		µg/L	400	3/20/2009 11:48:30 AM
Ethylbenzene	ND	400		µg/L	400	3/20/2009 11:48:30 AM
Xylenes, Total	ND	800		µg/L	400	3/20/2009 11:48:30 AM
Surr: 4-Bromofluorobenzene	97.8	65.9-130		%REC	400	3/20/2009 11:48:30 AM

Lab ID: 0903202-02
Client Sample ID: 3RD BZ Stripper-OUT
Collection Date: 3/11/2009 9:00:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	250		µg/L	100	3/20/2009 12:20:50 PM
Benzene	600	100		µg/L	100	3/20/2009 12:20:50 PM
Toluene	1300	100		µg/L	100	3/20/2009 12:20:50 PM
Ethylbenzene	160	100		µg/L	100	3/20/2009 12:20:50 PM
Xylenes, Total	1400	200		µg/L	100	3/20/2009 12:20:50 PM
Surr: 4-Bromofluorobenzene	88.5	65.9-130		%REC	100	3/20/2009 12:20:50 PM

Lab ID: 0903202-03
Client Sample ID: BZ Stripper 1&2 IN
Collection Date: 3/11/2009 10:00:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	500		µg/L	200	3/20/2009 12:51:28 PM
Benzene	3200	200		µg/L	200	3/20/2009 12:51:28 PM
Toluene	5300	200		µg/L	200	3/20/2009 12:51:28 PM
Ethylbenzene	450	200		µg/L	200	3/20/2009 12:51:28 PM
Xylenes, Total	2500	400		µg/L	200	3/20/2009 12:51:28 PM
Surr: 4-Bromofluorobenzene	97.9	65.9-130		%REC	200	3/20/2009 12:51:28 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *23-Mar-09*

CLIENT: Western Refining Southwest, Gallup
Project: BZ Strippers

Lab Order: 0903202

Lab ID: 0903202-04
Client Sample ID: BZ Stripper 1&2 OUT

Collection Date: 3/11/2009 10:30:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	3/20/2009 1:22:02 PM
Benzene	280	50		µg/L	50	3/20/2009 1:22:02 PM
Toluene	660	50		µg/L	50	3/20/2009 1:22:02 PM
Ethylbenzene	88	50		µg/L	50	3/20/2009 1:22:02 PM
Xylenes, Total	550	100		µg/L	50	3/20/2009 1:22:02 PM
Surr: 4-Bromofluorobenzene	92.0	65.9-130		%REC	50	3/20/2009 1:22:02 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: BZ Strippers **Work Order:** 0903202

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles									
Sample ID: 5ML RB		*MBLK*			Batch ID:	**R32876**	Analysis Date:	3/20/2009 9:15:35 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:	**R32876**	Analysis Date:	3/19/2009 6:37:03 PM	
Methyl tert-butyl ether (MTBE)	22.31	µg/L	2.5	112	51.2	138			
Benzene	20.92	µg/L	1.0	105	85.9	113			
Toluene	21.84	µg/L	1.0	109	86.4	113			
Ethylbenzene	21.50	µg/L	1.0	107	83.5	118			
Xylenes, Total	63.90	µg/L	2.0	107	83.4	122			

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: 3/13/2009

Work Order Number 0903202

Received by: TLS

Checklist completed by: _____ Signature 3/13/09 Date

Sample ID labels checked by: _____ Initials

Matrix:

Carrier name: FedEx

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 ☑ AS 3/13	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 ☑	

Container/Temp Blank temperature? **6°** *<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-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 #:
Project Manager: GAURAU, RAJEN
Sampler: A. Dorsey
On Ice: ☒ Yes ☐ No
Sample Temperature: 6°

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. 0903902	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)
03-11-09	0830	Ag	3rd BZ STripper-IN	3-40ml	HCl	1												X				
03-11-09	0900		3rd BZ Stripper-OUT	3-40ml	HCl	2												X				
03-11-09	1000		BZ Stripper 1&2 IN	3-40ml	HCl	3												X				
03-11-09	1030		BZ Stripper 1&2 OUT	3-40ml	HCl	4												X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
03-12-09	12:00	[signature]	[signature]	3/13/09	925
Date:	Time:	Relinquished by:	Received by:	Date	Time

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

COVER LETTER

Friday, April 03, 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.: 0903315

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 3/20/2009 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, Business Manager
Nancy McDuffie, Laboratory Manager

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

ACCREDITED IN ACCORDANCE WITH nelac

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *03-Apr-09*

CLIENT: Western Refining Southwest, Gallup
Project: BZ Strippers

Lab Order: 0903315

Lab ID: 0903315-01
Client Sample ID: 3RD BZ Stripper-IN

Collection Date: 3/17/2009 3:15:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	21000	1000		µg/L	1000	3/27/2009 12:59:22 PM
Toluene	14000	1000		µg/L	1000	3/27/2009 12:59:22 PM
Ethylbenzene	380	50		µg/L	50	3/27/2009 8:45:51 PM
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	3/27/2009 8:45:51 PM
Xylenes, Total	2700	100		µg/L	50	3/27/2009 8:45:51 PM
Surr: 1,2-Dichloroethane-d4	103	59.3-133		%REC	50	3/27/2009 8:45:51 PM
Surr: 4-Bromofluorobenzene	81.2	80.4-119		%REC	50	3/27/2009 8:45:51 PM
Surr: Dibromofluoromethane	105	59.5-134		%REC	50	3/27/2009 8:45:51 PM
Surr: Toluene-d8	94.7	53.5-136		%REC	50	3/27/2009 8:45:51 PM

Lab ID: 0903315-02
Client Sample ID: 3RD BZ Stripper-OUT

Collection Date: 3/17/2009 3:30:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	2600	50		µg/L	50	3/27/2009 9:14:50 PM
Toluene	1800	20		µg/L	20	3/27/2009 1:28:32 PM
Ethylbenzene	69	20		µg/L	20	3/27/2009 1:28:32 PM
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	3/27/2009 1:28:32 PM
Xylenes, Total	560	40		µg/L	20	3/27/2009 1:28:32 PM
Surr: 1,2-Dichloroethane-d4	96.2	59.3-133		%REC	20	3/27/2009 1:28:32 PM
Surr: 4-Bromofluorobenzene	84.2	80.4-119		%REC	20	3/27/2009 1:28:32 PM
Surr: Dibromofluoromethane	104	59.5-134		%REC	20	3/27/2009 1:28:32 PM
Surr: Toluene-d8	93.1	53.5-136		%REC	20	3/27/2009 1:28:32 PM

Lab ID: 0903315-03
Client Sample ID: BZ Stripper 1&2 IN

Collection Date: 3/17/2009 3:45:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	2500	200		µg/L	200	3/27/2009 1:57:45 PM
Toluene	4500	200		µg/L	200	3/27/2009 1:57:45 PM
Ethylbenzene	320	20		µg/L	20	3/27/2009 9:43:52 PM
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	3/27/2009 9:43:52 PM
Xylenes, Total	2000	40		µg/L	20	3/27/2009 9:43:52 PM
Surr: 1,2-Dichloroethane-d4	102	59.3-133		%REC	20	3/27/2009 9:43:52 PM
Surr: 4-Bromofluorobenzene	85.2	80.4-119		%REC	200	3/27/2009 1:57:45 PM
Surr: Dibromofluoromethane	110	59.5-134		%REC	20	3/27/2009 9:43:52 PM
Surr: Toluene-d8	98.0	53.5-136		%REC	20	3/27/2009 9:43:52 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: *03-Apr-09*

CLIENT: Western Refining Southwest, Gallup
Project: BZ Strippers

Lab Order: 0903315

Lab ID: 0903315-04
Client Sample ID: BZ Stripper 1&2 OUT

Collection Date: 3/17/2009 3:55:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	600	50		µg/L	50	3/27/2009 2:26:56 PM
Toluene	860	50		µg/L	50	3/27/2009 2:26:56 PM
Ethylbenzene	86	5.0		µg/L	5	3/28/2009 1:07:56 AM
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	3/28/2009 1:07:56 AM
Xylenes, Total	760	10		µg/L	5	3/28/2009 1:07:56 AM
Surr: 1,2-Dichloroethane-d4	104	59.3-133		%REC	5	3/28/2009 1:07:56 AM
Surr: 4-Bromofluorobenzene	80.9	80.4-119		%REC	50	3/27/2009 2:26:56 PM
Surr: Dibromofluoromethane	118	59.5-134		%REC	5	3/28/2009 1:07:56 AM
Surr: Toluene-d8	99.9	53.5-136		%REC	5	3/28/2009 1:07:56 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: BZ Strippers

Work Order: 0903315

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260: Volatiles Short List									
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R32971**	Analysis Date:	3/27/2009 9:35:38 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: b4		*MBLK*			Batch ID:	**R32971**	Analysis Date:	3/27/2009 10:12:50 PM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 100ng lcs		*LCS*			Batch ID:	**R32971**	Analysis Date:	3/27/2009 11:02:59 AM	
Benzene	21.19	µg/L	1.0	106	86.8	120			
Toluene	20.14	µg/L	1.0	101	64.1	127			
Sample ID: 100ng lcs_b		*LCS*			Batch ID:	**R32971**	Analysis Date:	3/27/2009 11:10:46 PM	
Benzene	19.99	µg/L	1.0	100	86.8	120			
Toluene	18.21	µg/L	1.0	90.2	64.1	127			

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: 3/20/2009

Work Order Number 0903315

Received by: ARS

Sample ID labels checked by: AJ
Initials

Checklist completed by: _____ 3/20/09
Signature Date

Matrix:

Carrier name: FedEx

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 ☑	
Container/Temp Blank temperature?	5°	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: As per A.D. correct sample date is 3/17/09

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 #:
Project Manager: GAURAV, RAJEN
Sampler: A. Dorsey
On Ice: ☑ Yes ☐ No
Sample Temperature: 5

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. 0903315	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)
3/17/09 ~~03-18-09~~	1515	AQ	3rd Bz Stripper-IN	3-40ml	HCL	1												X				
~~03-18-09~~	1530		3rd Bz Stripper-OUT	3-40ml	HCL	2												X				
~~03-18-09~~	1545		Bz Stripper 1&2 IN	3-40ml	HCL	3												X				
~~03-18-09~~	1555		Bz Stripper 1&2 OUT	3-40ml	HCL	4												X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
03-19-09	1200	[signature]	[signature]	3/20/09	12:30
Date:	Time:	Relinquished by:	Received by:	Date	Time

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

COVER LETTER

Friday, April 03, 2009

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

TEL: (505) 722-0227
FAX (505) 722-0210

RE: Qtrly Method 8260B Air Quality Permit 0633-m7

Order No.: 0903419

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 3/26/2009 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, Business Manager
Nancy McDuffie, Laboratory Manager

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

ACCREDITED IN ACCORDANCE WITH nelac

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *03-Apr-09*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0903419
Project: Qtrly Method 8260B Air Quality Permit 0633-m
Lab ID: 0903419-01

Client Sample ID: 3rd Bz Stripper-IN
Collection Date: 3/24/2009 1:00:00 PM
Date Received: 3/26/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	29000	1000		µg/L	1000	3/28/2009 1:37:01 AM
Toluene	32000	1000		µg/L	1000	3/28/2009 1:37:01 AM
Ethylbenzene	1500	100		µg/L	100	3/31/2009 6:11:03 PM
Methyl tert-butyl ether (MTBE)	ND	100		µg/L	100	3/31/2009 6:11:03 PM
1,2,4-Trimethylbenzene	1000	100		µg/L	100	3/31/2009 6:11:03 PM
1,3,5-Trimethylbenzene	500	100		µg/L	100	3/31/2009 6:11:03 PM
1,2-Dichloroethane (EDC)	ND	100		µg/L	100	3/31/2009 6:11:03 PM
1,2-Dibromoethane (EDB)	ND	100		µg/L	100	3/31/2009 6:11:03 PM
Naphthalene	290	200		µg/L	100	3/31/2009 6:11:03 PM
1-Methylnaphthalene	ND	400		µg/L	100	3/31/2009 6:11:03 PM
2-Methylnaphthalene	ND	400		µg/L	100	3/31/2009 6:11:03 PM
Acetone	1200	1000		µg/L	100	3/31/2009 6:11:03 PM
Bromobenzene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
Bromodichloromethane	ND	100		µg/L	100	3/31/2009 6:11:03 PM
Bromoform	ND	100		µg/L	100	3/31/2009 6:11:03 PM
Bromomethane	ND	100		µg/L	100	3/31/2009 6:11:03 PM
2-Butanone	ND	1000		µg/L	100	3/31/2009 6:11:03 PM
Carbon disulfide	ND	1000		µg/L	100	3/31/2009 6:11:03 PM
Carbon Tetrachloride	ND	100		µg/L	100	3/31/2009 6:11:03 PM
Chlorobenzene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
Chloroethane	ND	200		µg/L	100	3/31/2009 6:11:03 PM
Chloroform	ND	100		µg/L	100	3/31/2009 6:11:03 PM
Chloromethane	ND	100		µg/L	100	3/31/2009 6:11:03 PM
2-Chlorotoluene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
4-Chlorotoluene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
cis-1,2-DCE	ND	100		µg/L	100	3/31/2009 6:11:03 PM
cis-1,3-Dichloropropene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
1,2-Dibromo-3-chloropropane	ND	200		µg/L	100	3/31/2009 6:11:03 PM
Dibromochloromethane	ND	100		µg/L	100	3/31/2009 6:11:03 PM
Dibromomethane	ND	100		µg/L	100	3/31/2009 6:11:03 PM
1,2-Dichlorobenzene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
1,3-Dichlorobenzene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
1,4-Dichlorobenzene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
Dichlorodifluoromethane	ND	100		µg/L	100	3/31/2009 6:11:03 PM
1,1-Dichloroethane	ND	100		µg/L	100	3/31/2009 6:11:03 PM
1,1-Dichloroethene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
1,2-Dichloropropane	ND	100		µg/L	100	3/31/2009 6:11:03 PM
1,3-Dichloropropane	ND	100		µg/L	100	3/31/2009 6:11:03 PM
2,2-Dichloropropane	ND	200		µg/L	100	3/31/2009 6:11:03 PM
1,1-Dichloropropene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
Hexachlorobutadiene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
2-Hexanone	ND	1000		µg/L	100	3/31/2009 6:11:03 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: *03-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	3rd Bz Stripper-IN
Lab Order:	0903419	**Collection Date:**	3/24/2009 1:00:00 PM
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**Date Received:**	3/26/2009
Lab ID:	0903419-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	150	100		µg/L	100	3/31/2009 6:11:03 PM
4-Isopropyltoluene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
4-Methyl-2-pentanone	ND	1000		µg/L	100	3/31/2009 6:11:03 PM
Methylene Chloride	ND	300		µg/L	100	3/31/2009 6:11:03 PM
n-Butylbenzene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
n-Propylbenzene	180	100		µg/L	100	3/31/2009 6:11:03 PM
sec-Butylbenzene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
Styrene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
tert-Butylbenzene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
1,1,1,2-Tetrachloroethane	ND	100		µg/L	100	3/31/2009 6:11:03 PM
1,1,2,2-Tetrachloroethane	ND	200		µg/L	100	3/31/2009 6:11:03 PM
Tetrachloroethene (PCE)	ND	100		µg/L	100	3/31/2009 6:11:03 PM
trans-1,2-DCE	ND	100		µg/L	100	3/31/2009 6:11:03 PM
trans-1,3-Dichloropropene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
1,2,3-Trichlorobenzene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
1,2,4-Trichlorobenzene	ND	100		µg/L	100	3/31/2009 6:11:03 PM
1,1,1-Trichloroethane	ND	100		µg/L	100	3/31/2009 6:11:03 PM
1,1,2-Trichloroethane	ND	100		µg/L	100	3/31/2009 6:11:03 PM
Trichloroethene (TCE)	ND	100		µg/L	100	3/31/2009 6:11:03 PM
Trichlorofluoromethane	ND	100		µg/L	100	3/31/2009 6:11:03 PM
1,2,3-Trichloropropane	ND	200		µg/L	100	3/31/2009 6:11:03 PM
Vinyl chloride	ND	100		µg/L	100	3/31/2009 6:11:03 PM
Xylenes, Total	10000	150		µg/L	100	3/31/2009 6:11:03 PM
Surr: 1,2-Dichloroethane-d4	98.8	68.1-123		%REC	100	3/31/2009 6:11:03 PM
Surr: 4-Bromofluorobenzene	82.6	53.2-145		%REC	100	3/31/2009 6:11:03 PM
Surr: Dibromofluoromethane	107	68.5-119		%REC	100	3/31/2009 6:11:03 PM
Surr: Toluene-d8	100	64-131		%REC	100	3/31/2009 6:11:03 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *03-Apr-09*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0903419
Project: Qtrly Method 8260B Air Quality Permit 0633-m
Lab ID: 0903419-02

Client Sample ID: 3rd Bz Stripper-OUT
Collection Date: 3/24/2009 1:20:00 PM
Date Received: 3/26/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	3400	50		µg/L	50	3/31/2009 6:40:14 PM
Toluene	2900	50		µg/L	50	3/31/2009 6:40:14 PM
Ethylbenzene	110	10		µg/L	10	3/31/2009 7:09:17 PM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	3/31/2009 7:09:17 PM
1,2,4-Trimethylbenzene	130	10		µg/L	10	3/31/2009 7:09:17 PM
1,3,5-Trimethylbenzene	50	10		µg/L	10	3/31/2009 7:09:17 PM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	3/31/2009 7:09:17 PM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	3/31/2009 7:09:17 PM
Naphthalene	81	20		µg/L	10	3/31/2009 7:09:17 PM
1-Methylnaphthalene	69	40		µg/L	10	3/31/2009 7:09:17 PM
2-Methylnaphthalene	81	40		µg/L	10	3/31/2009 7:09:17 PM
Acetone	1200	100		µg/L	10	3/31/2009 7:09:17 PM
Bromobenzene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
Bromodichloromethane	ND	10		µg/L	10	3/31/2009 7:09:17 PM
Bromoform	ND	10		µg/L	10	3/31/2009 7:09:17 PM
Bromomethane	ND	10		µg/L	10	3/31/2009 7:09:17 PM
2-Butanone	ND	100		µg/L	10	3/31/2009 7:09:17 PM
Carbon disulfide	ND	100		µg/L	10	3/31/2009 7:09:17 PM
Carbon Tetrachloride	ND	10		µg/L	10	3/31/2009 7:09:17 PM
Chlorobenzene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
Chloroethane	ND	20		µg/L	10	3/31/2009 7:09:17 PM
Chloroform	ND	10		µg/L	10	3/31/2009 7:09:17 PM
Chloromethane	ND	10		µg/L	10	3/31/2009 7:09:17 PM
2-Chlorotoluene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
4-Chlorotoluene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
cis-1,2-DCE	ND	10		µg/L	10	3/31/2009 7:09:17 PM
cis-1,3-Dichloropropene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	3/31/2009 7:09:17 PM
Dibromochloromethane	ND	10		µg/L	10	3/31/2009 7:09:17 PM
Dibromomethane	ND	10		µg/L	10	3/31/2009 7:09:17 PM
1,2-Dichlorobenzene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
1,3-Dichlorobenzene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
1,4-Dichlorobenzene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
Dichlorodifluoromethane	ND	10		µg/L	10	3/31/2009 7:09:17 PM
1,1-Dichloroethane	ND	10		µg/L	10	3/31/2009 7:09:17 PM
1,1-Dichloroethene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
1,2-Dichloropropane	ND	10		µg/L	10	3/31/2009 7:09:17 PM
1,3-Dichloropropane	ND	10		µg/L	10	3/31/2009 7:09:17 PM
2,2-Dichloropropane	ND	20		µg/L	10	3/31/2009 7:09:17 PM
1,1-Dichloropropene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
Hexachlorobutadiene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
2-Hexanone	ND	100		µg/L	10	3/31/2009 7:09:17 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: *03-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	3rd Bz Stripper-OUT
Lab Order:	0903419	**Collection Date:**	3/24/2009 1:20:00 PM
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**Date Received:**	3/26/2009
Lab ID:	0903419-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	11	10		µg/L	10	3/31/2009 7:09:17 PM
4-Isopropyltoluene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
4-Methyl-2-pentanone	ND	100		µg/L	10	3/31/2009 7:09:17 PM
Methylene Chloride	ND	30		µg/L	10	3/31/2009 7:09:17 PM
n-Butylbenzene	12	10		µg/L	10	3/31/2009 7:09:17 PM
n-Propylbenzene	15	10		µg/L	10	3/31/2009 7:09:17 PM
sec-Butylbenzene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
Styrene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
tert-Butylbenzene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	3/31/2009 7:09:17 PM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	3/31/2009 7:09:17 PM
Tetrachloroethene (PCE)	ND	10		µg/L	10	3/31/2009 7:09:17 PM
trans-1,2-DCE	ND	10		µg/L	10	3/31/2009 7:09:17 PM
trans-1,3-Dichloropropene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	3/31/2009 7:09:17 PM
1,1,1-Trichloroethane	ND	10		µg/L	10	3/31/2009 7:09:17 PM
1,1,2-Trichloroethane	ND	10		µg/L	10	3/31/2009 7:09:17 PM
Trichloroethene (TCE)	ND	10		µg/L	10	3/31/2009 7:09:17 PM
Trichlorofluoromethane	ND	10		µg/L	10	3/31/2009 7:09:17 PM
1,2,3-Trichloropropane	ND	20		µg/L	10	3/31/2009 7:09:17 PM
Vinyl chloride	ND	10		µg/L	10	3/31/2009 7:09:17 PM
Xylenes, Total	860	15		µg/L	10	3/31/2009 7:09:17 PM
Surr: 1,2-Dichloroethane-d4	101	68.1-123		%REC	10	3/31/2009 7:09:17 PM
Surr: 4-Bromofluorobenzene	81.1	53.2-145		%REC	10	3/31/2009 7:09:17 PM
Surr: Dibromofluoromethane	95.3	68.5-119		%REC	10	3/31/2009 7:09:17 PM
Surr: Toluene-d8	97.6	64-131		%REC	10	3/31/2009 7:09:17 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *03-Apr-09*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0903419
Project: Qtrly Method 8260B Air Quality Permit 0633-m
Lab ID: 0903419-03

Client Sample ID: Bz Stripper 1 & 2 IN
Collection Date: 3/24/2009 2:00:00 PM
Date Received: 3/26/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	4600	50		µg/L	50	3/31/2009 8:07:49 PM
Toluene	12000	200		µg/L	200	3/31/2009 7:38:23 PM
Ethylbenzene	1300	50		µg/L	50	3/31/2009 8:07:49 PM
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	3/31/2009 8:07:49 PM
1,2,4-Trimethylbenzene	2300	50		µg/L	50	3/31/2009 8:07:49 PM
1,3,5-Trimethylbenzene	910	50		µg/L	50	3/31/2009 8:07:49 PM
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	3/31/2009 8:07:49 PM
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	3/31/2009 8:07:49 PM
Naphthalene	550	100		µg/L	50	3/31/2009 8:07:49 PM
1-Methylnaphthalene	500	200		µg/L	50	3/31/2009 8:07:49 PM
2-Methylnaphthalene	870	200		µg/L	50	3/31/2009 8:07:49 PM
Acetone	12000	2000		µg/L	200	3/31/2009 7:38:23 PM
Bromobenzene	ND	50		µg/L	50	3/31/2009 8:07:49 PM
Bromodichloromethane	ND	50		µg/L	50	3/31/2009 8:07:49 PM
Bromoform	ND	50		µg/L	50	3/31/2009 8:07:49 PM
Bromomethane	ND	50		µg/L	50	3/31/2009 8:07:49 PM
2-Butanone	1200	500		µg/L	50	3/31/2009 8:07:49 PM
Carbon disulfide	ND	500		µg/L	50	3/31/2009 8:07:49 PM
Carbon Tetrachloride	ND	50		µg/L	50	3/31/2009 8:07:49 PM
Chlorobenzene	ND	50		µg/L	50	3/31/2009 8:07:49 PM
Chloroethane	ND	100		µg/L	50	3/31/2009 8:07:49 PM
Chloroform	ND	50		µg/L	50	3/31/2009 8:07:49 PM
Chloromethane	ND	50		µg/L	50	3/31/2009 8:07:49 PM
2-Chlorotoluene	ND	50		µg/L	50	3/31/2009 8:07:49 PM
4-Chlorotoluene	ND	50		µg/L	50	3/31/2009 8:07:49 PM
cis-1,2-DCE	ND	50		µg/L	50	3/31/2009 8:07:49 PM
cis-1,3-Dichloropropene	ND	50		µg/L	50	3/31/2009 8:07:49 PM
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	3/31/2009 8:07:49 PM
Dibromochloromethane	ND	50		µg/L	50	3/31/2009 8:07:49 PM
Dibromomethane	ND	50		µg/L	50	3/31/2009 8:07:49 PM
1,2-Dichlorobenzene	ND	50		µg/L	50	3/31/2009 8:07:49 PM
1,3-Dichlorobenzene	ND	50		µg/L	50	3/31/2009 8:07:49 PM
1,4-Dichlorobenzene	ND	50		µg/L	50	3/31/2009 8:07:49 PM
Dichlorodifluoromethane	ND	50		µg/L	50	3/31/2009 8:07:49 PM
1,1-Dichloroethane	ND	50		µg/L	50	3/31/2009 8:07:49 PM
1,1-Dichloroethene	ND	50		µg/L	50	3/31/2009 8:07:49 PM
1,2-Dichloropropane	ND	50		µg/L	50	3/31/2009 8:07:49 PM
1,3-Dichloropropane	ND	50		µg/L	50	3/31/2009 8:07:49 PM
2,2-Dichloropropane	ND	100		µg/L	50	3/31/2009 8:07:49 PM
1,1-Dichloropropene	ND	50		µg/L	50	3/31/2009 8:07:49 PM
Hexachlorobutadiene	ND	50		µg/L	50	3/31/2009 8:07:49 PM
2-Hexanone	ND	500		µg/L	50	3/31/2009 8:07:49 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: *03-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Bz Stripper 1 & 2 IN
Lab Order:	0903419	**Collection Date:**	3/24/2009 2:00:00 PM
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**Date Received:**	3/26/2009
Lab ID:	0903419-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	99	50		µg/L	50	3/31/2009 8:07:49 PM
4-Isopropyltoluene	ND	50		µg/L	50	3/31/2009 8:07:49 PM
4-Methyl-2-pentanone	ND	500		µg/L	50	3/31/2009 8:07:49 PM
Methylene Chloride	ND	150		µg/L	50	3/31/2009 8:07:49 PM
n-Butylbenzene	190	50		µg/L	50	3/31/2009 8:07:49 PM
n-Propylbenzene	330	50		µg/L	50	3/31/2009 8:07:49 PM
sec-Butylbenzene	54	50		µg/L	50	3/31/2009 8:07:49 PM
Styrene	ND	50		µg/L	50	3/31/2009 8:07:49 PM
tert-Butylbenzene	ND	50		µg/L	50	3/31/2009 8:07:49 PM
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	3/31/2009 8:07:49 PM
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	3/31/2009 8:07:49 PM
Tetrachloroethene (PCE)	ND	50		µg/L	50	3/31/2009 8:07:49 PM
trans-1,2-DCE	ND	50		µg/L	50	3/31/2009 8:07:49 PM
trans-1,3-Dichloropropene	ND	50		µg/L	50	3/31/2009 8:07:49 PM
1,2,3-Trichlorobenzene	ND	50		µg/L	50	3/31/2009 8:07:49 PM
1,2,4-Trichlorobenzene	ND	50		µg/L	50	3/31/2009 8:07:49 PM
1,1,1-Trichloroethane	ND	50		µg/L	50	3/31/2009 8:07:49 PM
1,1,2-Trichloroethane	ND	50		µg/L	50	3/31/2009 8:07:49 PM
Trichloroethene (TCE)	ND	50		µg/L	50	3/31/2009 8:07:49 PM
Trichlorofluoromethane	ND	50		µg/L	50	3/31/2009 8:07:49 PM
1,2,3-Trichloropropane	ND	100		µg/L	50	3/31/2009 8:07:49 PM
Vinyl chloride	ND	50		µg/L	50	3/31/2009 8:07:49 PM
Xylenes, Total	8400	75		µg/L	50	3/31/2009 8:07:49 PM
Surr: 1,2-Dichloroethane-d4	101	68.1-123		%REC	50	3/31/2009 8:07:49 PM
Surr: 4-Bromofluorobenzene	64.7	53.2-145		%REC	50	3/31/2009 8:07:49 PM
Surr: Dibromofluoromethane	112	68.5-119		%REC	50	3/31/2009 8:07:49 PM
Surr: Toluene-d8	102	64-131		%REC	50	3/31/2009 8:07:49 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *03-Apr-09*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0903419
Project: Qtrly Method 8260B Air Quality Permit 0633-m
Lab ID: 0903419-04

Client Sample ID: Bz Stripper 1 & 2 OUT
Collection Date: 3/24/2009 2:15:00 PM
Date Received: 3/26/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	240	10		µg/L	10	3/31/2009 9:05:46 PM
Toluene	1000	50		µg/L	50	3/31/2009 8:36:47 PM
Ethylbenzene	230	10		µg/L	10	3/31/2009 9:05:46 PM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	3/31/2009 9:05:46 PM
1,2,4-Trimethylbenzene	760	10		µg/L	10	3/31/2009 9:05:46 PM
1,3,5-Trimethylbenzene	320	10		µg/L	10	3/31/2009 9:05:46 PM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	3/31/2009 9:05:46 PM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	3/31/2009 9:05:46 PM
Naphthalene	180	20		µg/L	10	3/31/2009 9:05:46 PM
1-Methylnaphthalene	260	40		µg/L	10	3/31/2009 9:05:46 PM
2-Methylnaphthalene	450	40		µg/L	10	3/31/2009 9:05:46 PM
Acetone	6500	500		µg/L	50	3/31/2009 8:36:47 PM
Bromobenzene	ND	10		µg/L	10	3/31/2009 9:05:46 PM
Bromodichloromethane	ND	10		µg/L	10	3/31/2009 9:05:46 PM
Bromoform	ND	10		µg/L	10	3/31/2009 9:05:46 PM
Bromomethane	ND	10		µg/L	10	3/31/2009 9:05:46 PM
2-Butanone	380	100		µg/L	10	3/31/2009 9:05:46 PM
Carbon disulfide	ND	100		µg/L	10	3/31/2009 9:05:46 PM
Carbon Tetrachloride	ND	10		µg/L	10	3/31/2009 9:05:46 PM
Chlorobenzene	ND	10		µg/L	10	3/31/2009 9:05:46 PM
Chloroethane	ND	20		µg/L	10	3/31/2009 9:05:46 PM
Chloroform	ND	10		µg/L	10	3/31/2009 9:05:46 PM
Chloromethane	ND	10		µg/L	10	3/31/2009 9:05:46 PM
2-Chlorotoluene	ND	10		µg/L	10	3/31/2009 9:05:46 PM
4-Chlorotoluene	ND	10		µg/L	10	3/31/2009 9:05:46 PM
cis-1,2-DCE	ND	10		µg/L	10	3/31/2009 9:05:46 PM
cis-1,3-Dichloropropene	ND	10		µg/L	10	3/31/2009 9:05:46 PM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	3/31/2009 9:05:46 PM
Dibromochloromethane	ND	10		µg/L	10	3/31/2009 9:05:46 PM
Dibromomethane	ND	10		µg/L	10	3/31/2009 9:05:46 PM
1,2-Dichlorobenzene	ND	10		µg/L	10	3/31/2009 9:05:46 PM
1,3-Dichlorobenzene	ND	10		µg/L	10	3/31/2009 9:05:46 PM
1,4-Dichlorobenzene	ND	10		µg/L	10	3/31/2009 9:05:46 PM
Dichlorodifluoromethane	ND	10		µg/L	10	3/31/2009 9:05:46 PM
1,1-Dichloroethane	ND	10		µg/L	10	3/31/2009 9:05:46 PM
1,1-Dichloroethene	ND	10		µg/L	10	3/31/2009 9:05:46 PM
1,2-Dichloropropane	ND	10		µg/L	10	3/31/2009 9:05:46 PM
1,3-Dichloropropane	ND	10		µg/L	10	3/31/2009 9:05:46 PM
2,2-Dichloropropane	ND	20		µg/L	10	3/31/2009 9:05:46 PM
1,1-Dichloropropene	ND	10		µg/L	10	3/31/2009 9:05:46 PM
Hexachlorobutadiene	ND	10		µg/L	10	3/31/2009 9:05:46 PM
2-Hexanone	ND	100		µg/L	10	3/31/2009 9:05:46 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: *03-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Bz Stripper 1 & 2 OUT
Lab Order:	0903419	**Collection Date:**	3/24/2009 2:15:00 PM
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**Date Received:**	3/26/2009
Lab ID:	0903419-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	28	10		µg/L	10	3/31/2009 9:05:46 PM
4-Isopropyltoluene	20	10		µg/L	10	3/31/2009 9:05:46 PM
4-Methyl-2-pentanone	ND	100		µg/L	10	3/31/2009 9:05:46 PM
Methylene Chloride	ND	30		µg/L	10	3/31/2009 9:05:46 PM
n-Butylbenzene	90	10		µg/L	10	3/31/2009 9:05:46 PM
n-Propylbenzene	110	10		µg/L	10	3/31/2009 9:05:46 PM
sec-Butylbenzene	19	10		µg/L	10	3/31/2009 9:05:46 PM
Styrene	ND	10		µg/L	10	3/31/2009 9:05:46 PM
tert-Butylbenzene	ND	10		µg/L	10	3/31/2009 9:05:46 PM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	3/31/2009 9:05:46 PM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	3/31/2009 9:05:46 PM
Tetrachloroethene (PCE)	ND	10		µg/L	10	3/31/2009 9:05:46 PM
trans-1,2-DCE	ND	10		µg/L	10	3/31/2009 9:05:46 PM
trans-1,3-Dichloropropene	ND	10		µg/L	10	3/31/2009 9:05:46 PM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	3/31/2009 9:05:46 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	3/31/2009 9:05:46 PM
1,1,1-Trichloroethane	ND	10		µg/L	10	3/31/2009 9:05:46 PM
1,1,2-Trichloroethane	ND	10		µg/L	10	3/31/2009 9:05:46 PM
Trichloroethene (TCE)	ND	10		µg/L	10	3/31/2009 9:05:46 PM
Trichlorofluoromethane	ND	10		µg/L	10	3/31/2009 9:05:46 PM
1,2,3-Trichloropropane	ND	20		µg/L	10	3/31/2009 9:05:46 PM
Vinyl chloride	ND	10		µg/L	10	3/31/2009 9:05:46 PM
Xylenes, Total	1500	15		µg/L	10	3/31/2009 9:05:46 PM
Surr: 1,2-Dichloroethane-d4	103	68.1-123		%REC	10	3/31/2009 9:05:46 PM
Surr: 4-Bromofluorobenzene	71.7	53.2-145		%REC	10	3/31/2009 9:05:46 PM
Surr: Dibromofluoromethane	108	68.5-119		%REC	10	3/31/2009 9:05:46 PM
Surr: Toluene-d8	99.8	64-131		%REC	10	3/31/2009 9:05:46 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Qtrly Method 8260B Air Quality Permit 0633-m **Work Order:** 0903419

Method: EPA Method 8260B: VOLATILES
Sample ID: 5ml rb *MBLK* Batch ID: R32971 Analysis Date: 3/27/2009 9:35:38 AM

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						
4-Isopropyltoluene	ND	µg/L	1.0						

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Qtrly Method 8260B Air Quality Permit 0633-m **Work Order:** 0903419

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R32971**	Analysis Date:	3/27/2009 9:35:38 AM	
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: b4		*MBLK*			Batch ID:	**R32971**	Analysis Date:	3/27/2009 10:12:50 PM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Qtrly Method 8260B Air Quality Permit 0633-m

Work Order: 0903419

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: b4		*MBLK*					Batch ID: **R32971**	Analysis Date:	3/27/2009 10:12:50 PM
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						
4-Isopropyltoluene	ND	µg/L	1.0						
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: b8		*MBLK*					Batch ID: **R32971**	Analysis Date:	3/28/2009 10:50:15 AM

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Qtrly Method 8260B Air Quality Permit 0633-m **Work Order:** 0903419

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: b8		*MBLK*			Batch ID:	**R32971**	Analysis Date:	3/28/2009 10:50:15 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						
4-Isopropyltoluene	ND	µg/L	1.0						

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Qtrly Method 8260B Air Quality Permit 0633-m

Work Order: 0903419

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: b8		*MBLK*			Batch ID:	**R32971**	Analysis Date:	3/28/2009 10:50:15 AM	
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R33039**	Analysis Date:	3/31/2009 9:23:39 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Qtrly Method 8260B Air Quality Permit 0633-m **Work Order:** 0903419

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R33039**	Analysis Date:	3/31/2009 9:23:39 AM	
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						
4-Isopropyltoluene	ND	µg/L	1.0						
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: 100ng lcs		*LCS*			Batch ID:	**R32971**	Analysis Date:	3/27/2009 11:02:59 AM	

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Qtrly Method 8260B Air Quality Permit 0633-m

Work Order: 0903419

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 100ng lcs		*LCS*			Batch ID:	**R32971**	Analysis Date:	3/27/2009 11:02:59 AM	
Benzene	21.19	µg/L	1.0	106	88	116			
Toluene	20.14	µg/L	1.0	101	82.9	112			
Chlorobenzene	18.33	µg/L	1.0	91.7	71.4	133			
1,1-Dichloroethene	22.02	µg/L	1.0	110	97.9	140			
Trichloroethene (TCE)	19.98	µg/L	1.0	99.9	90.5	112			
Sample ID: 100ng lcs_b		*LCS*			Batch ID:	**R32971**	Analysis Date:	3/27/2009 11:10:46 PM	
Benzene	19.99	µg/L	1.0	100	88	116			
Toluene	18.21	µg/L	1.0	90.2	82.9	112			
Chlorobenzene	17.85	µg/L	1.0	89.3	71.4	133			
1,1-Dichloroethene	20.56	µg/L	1.0	103	97.9	140			
Trichloroethene (TCE)	20.75	µg/L	1.0	104	90.5	112			
Sample ID: 100ng lcs		*LCS*			Batch ID:	**R33039**	Analysis Date:	3/31/2009 10:23:52 AM	
Benzene	20.11	µg/L	1.0	101	88	116			
Toluene	19.31	µg/L	1.0	96.6	82.9	112			
Chlorobenzene	19.26	µg/L	1.0	96.3	71.4	133			
1,1-Dichloroethene	21.51	µg/L	1.0	108	97.9	140			
Trichloroethene (TCE)	20.63	µg/L	1.0	103	90.5	112			

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: 3/26/2009

Work Order Number 0903419

Received by: ARS

Sample ID labels checked by: _____ Initials

Checklist completed by: _____ Signature 3/26/09 Date

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 ☑	

Container/Temp Blank temperature? 3° *<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 – 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: Quarterly Method 8260B Air Quality Permit 0633-M7

Project #:

Project Manager: Gaurav, Rajen

Sampler: Alvin Dorsey

On Ice: ☑ Yes ☐ No

Sample Temperature: 8

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. 0903449	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) All VOC's	8270 (Semi-VOA)					Air Bubbles (Y or N)
03-24-09	1300	Air	3rd Bz Stripper IN			1										X						
03-24-09	1320		3rd Bz Stripper OUT			2										X						
03-24-09	1400		Bz Stripper 1&2 IN			3										X						
03-24-09	1415		Bz Stripper 1&2 OUT			4										X						

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
03-25-09	12:00	Alvin		9:25	3/26/09	
Date:	Time:	Relinquished by:	Received by:	Date	Time	

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.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, April 15, 2009

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

TEL: (505) 722-0227
FAX (505) 722-0210

RE: Qtrly Method 8260B Air Quality Permit 0633-m7

Order No.: 0904113

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 4/8/2009 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, Business Manager
Nancy McDuffie, Laboratory Manager

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

ACCREDITED IN ACCORDANCE WITH nelac

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc. **Date:** *15-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**CASE NARRATIVE**
Lab Order:	0904113	

The Benzene stripper 1 and 2 (in and out) both had pHs >2.

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Bz Stripper 1&2 IN
Lab Order:	0904113	**Collection Date:**	4/2/2009 10:00:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**Date Received:**	4/8/2009
Lab ID:	0904113-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	2400	50		µg/L	50	4/13/2009 6:07:51 PM
Toluene	6700	200		µg/L	200	4/13/2009 5:39:12 PM
Ethylbenzene	510	50		µg/L	50	4/13/2009 6:07:51 PM
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,2,4-Trimethylbenzene	520	50		µg/L	50	4/13/2009 6:07:51 PM
1,3,5-Trimethylbenzene	160	50		µg/L	50	4/13/2009 6:07:51 PM
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Naphthalene	280	100		µg/L	50	4/13/2009 6:07:51 PM
1-Methylnaphthalene	ND	200		µg/L	50	4/13/2009 6:07:51 PM
2-Methylnaphthalene	230	200		µg/L	50	4/13/2009 6:07:51 PM
Acetone	2600	500		µg/L	50	4/13/2009 6:07:51 PM
Bromobenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Bromodichloromethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Bromoform	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Bromomethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
2-Butanone	ND	500		µg/L	50	4/13/2009 6:07:51 PM
Carbon disulfide	ND	500		µg/L	50	4/13/2009 6:07:51 PM
Carbon Tetrachloride	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Chlorobenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Chloroethane	ND	100		µg/L	50	4/13/2009 6:07:51 PM
Chloroform	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Chloromethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
2-Chlorotoluene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
4-Chlorotoluene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
cis-1,2-DCE	ND	50		µg/L	50	4/13/2009 6:07:51 PM
cis-1,3-Dichloropropene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	4/13/2009 6:07:51 PM
Dibromochloromethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Dibromomethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,2-Dichlorobenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,3-Dichlorobenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,4-Dichlorobenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Dichlorodifluoromethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,1-Dichloroethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,1-Dichloroethene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,2-Dichloropropane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,3-Dichloropropane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
2,2-Dichloropropane	ND	100		µg/L	50	4/13/2009 6:07:51 PM
1,1-Dichloropropene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Hexachlorobutadiene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
2-Hexanone	ND	500		µg/L	50	4/13/2009 6:07:51 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-09*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0904113
Project: Qtrly Method 8260B Air Quality Permit 0633-m
Lab ID: 0904113-01

Client Sample ID: Bz Stripper 1&2 IN
Collection Date: 4/2/2009 10:00:00 AM
Date Received: 4/8/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: HL
EPA METHOD 8260B: VOLATILES						
Isopropylbenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
4-Isopropyltoluene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
4-Methyl-2-pentanone	ND	500		µg/L	50	4/13/2009 6:07:51 PM
Methylene Chloride	ND	150		µg/L	50	4/13/2009 6:07:51 PM
n-Butylbenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
n-Propylbenzene	68	50		µg/L	50	4/13/2009 6:07:51 PM
sec-Butylbenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Styrene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
tert-Butylbenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	4/13/2009 6:07:51 PM
Tetrachloroethene (PCE)	ND	50		µg/L	50	4/13/2009 6:07:51 PM
trans-1,2-DCE	ND	50		µg/L	50	4/13/2009 6:07:51 PM
trans-1,3-Dichloropropene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,2,3-Trichlorobenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,2,4-Trichlorobenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,1,1-Trichloroethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,1,2-Trichloroethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Trichloroethene (TCE)	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Trichlorofluoromethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,2,3-Trichloropropane	ND	100		µg/L	50	4/13/2009 6:07:51 PM
Vinyl chloride	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Xylenes, Total	3000	75		µg/L	50	4/13/2009 6:07:51 PM
Surr: 1,2-Dichloroethane-d4	90.0	68.1-123		%REC	50	4/13/2009 6:07:51 PM
Surr: 4-Bromofluorobenzene	101	53.2-145		%REC	50	4/13/2009 6:07:51 PM
Surr: Dibromofluoromethane	90.0	68.5-119		%REC	50	4/13/2009 6:07:51 PM
Surr: Toluene-d8	89.1	64-131		%REC	50	4/13/2009 6:07:51 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Bz Stripper 1&2 OUT
Lab Order:	0904113	**Collection Date:**	4/2/2009 10:15:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**Date Received:**	4/8/2009
Lab ID:	0904113-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	180	20		µg/L	20	4/13/2009 6:36:28 PM
Toluene	590	20		µg/L	20	4/13/2009 6:36:28 PM
Ethylbenzene	75	20		µg/L	20	4/13/2009 6:36:28 PM
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,2,4-Trimethylbenzene	210	20		µg/L	20	4/13/2009 6:36:28 PM
1,3,5-Trimethylbenzene	68	20		µg/L	20	4/13/2009 6:36:28 PM
1,2-Dichloroethane (EDC)	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Naphthalene	100	40		µg/L	20	4/13/2009 6:36:28 PM
1-Methylnaphthalene	96	80		µg/L	20	4/13/2009 6:36:28 PM
2-Methylnaphthalene	190	80		µg/L	20	4/13/2009 6:36:28 PM
Acetone	3000	200		µg/L	20	4/13/2009 6:36:28 PM
Bromobenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Bromodichloromethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Bromoform	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Bromomethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
2-Butanone	ND	200		µg/L	20	4/13/2009 6:36:28 PM
Carbon disulfide	ND	200		µg/L	20	4/13/2009 6:36:28 PM
Carbon Tetrachloride	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Chlorobenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Chloroethane	ND	40		µg/L	20	4/13/2009 6:36:28 PM
Chloroform	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Chloromethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
2-Chlorotoluene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
4-Chlorotoluene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
cis-1,2-DCE	ND	20		µg/L	20	4/13/2009 6:36:28 PM
cis-1,3-Dichloropropene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	4/13/2009 6:36:28 PM
Dibromochloromethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Dibromomethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,2-Dichlorobenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,3-Dichlorobenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,4-Dichlorobenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Dichlorodifluoromethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,1-Dichloroethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,1-Dichloroethene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,2-Dichloropropane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,3-Dichloropropane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
2,2-Dichloropropane	ND	40		µg/L	20	4/13/2009 6:36:28 PM
1,1-Dichloropropene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Hexachlorobutadiene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
2-Hexanone	ND	200		µg/L	20	4/13/2009 6:36:28 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-09*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0904113
Project: Qtrly Method 8260B Air Quality Permit 0633-m
Lab ID: 0904113-02

Client Sample ID: Bz Stripper 1&2 OUT
Collection Date: 4/2/2009 10:15:00 AM
Date Received: 4/8/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
4-Isopropyltoluene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
4-Methyl-2-pentanone	ND	200		µg/L	20	4/13/2009 6:36:28 PM
Methylene Chloride	ND	60		µg/L	20	4/13/2009 6:36:28 PM
n-Butylbenzene	36	20		µg/L	20	4/13/2009 6:36:28 PM
n-Propylbenzene	26	20		µg/L	20	4/13/2009 6:36:28 PM
sec-Butylbenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Styrene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
tert-Butylbenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	4/13/2009 6:36:28 PM
Tetrachloroethene (PCE)	ND	20		µg/L	20	4/13/2009 6:36:28 PM
trans-1,2-DCE	ND	20		µg/L	20	4/13/2009 6:36:28 PM
trans-1,3-Dichloropropene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,2,3-Trichlorobenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,2,4-Trichlorobenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,1,1-Trichloroethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,1,2-Trichloroethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Trichloroethene (TCE)	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Trichlorofluoromethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,2,3-Trichloropropane	ND	40		µg/L	20	4/13/2009 6:36:28 PM
Vinyl chloride	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Xylenes, Total	550	30		µg/L	20	4/13/2009 6:36:28 PM
Surr: 1,2-Dichloroethane-d4	84.4	68.1-123		%REC	20	4/13/2009 6:36:28 PM
Surr: 4-Bromofluorobenzene	104	53.2-145		%REC	20	4/13/2009 6:36:28 PM
Surr: Dibromofluoromethane	96.4	68.5-119		%REC	20	4/13/2009 6:36:28 PM
Surr: Toluene-d8	94.1	64-131		%REC	20	4/13/2009 6:36:28 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	3rd Bz Stripper IN
Lab Order:	0904113	**Collection Date:**	4/2/2009 10:45:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**Date Received:**	4/8/2009
Lab ID:	0904113-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	30000	800		µg/L	800	4/13/2009 7:05:06 PM
Toluene	31000	800		µg/L	800	4/13/2009 7:05:06 PM
Ethylbenzene	1200	100		µg/L	100	4/13/2009 7:33:44 PM
Methyl tert-butyl ether (MTBE)	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,2,4-Trimethylbenzene	960	100		µg/L	100	4/13/2009 7:33:44 PM
1,3,5-Trimethylbenzene	340	100		µg/L	100	4/13/2009 7:33:44 PM
1,2-Dichloroethane (EDC)	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,2-Dibromoethane (EDB)	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Naphthalene	390	200		µg/L	100	4/13/2009 7:33:44 PM
1-Methylnaphthalene	ND	400		µg/L	100	4/13/2009 7:33:44 PM
2-Methylnaphthalene	ND	400		µg/L	100	4/13/2009 7:33:44 PM
Acetone	2000	1000		µg/L	100	4/13/2009 7:33:44 PM
Bromobenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Bromodichloromethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Bromoform	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Bromomethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
2-Butanone	ND	1000		µg/L	100	4/13/2009 7:33:44 PM
Carbon disulfide	ND	1000		µg/L	100	4/13/2009 7:33:44 PM
Carbon Tetrachloride	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Chlorobenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Chloroethane	ND	200		µg/L	100	4/13/2009 7:33:44 PM
Chloroform	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Chloromethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
2-Chlorotoluene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
4-Chlorotoluene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
cis-1,2-DCE	ND	100		µg/L	100	4/13/2009 7:33:44 PM
cis-1,3-Dichloropropene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,2-Dibromo-3-chloropropane	ND	200		µg/L	100	4/13/2009 7:33:44 PM
Dibromochloromethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Dibromomethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,2-Dichlorobenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,3-Dichlorobenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,4-Dichlorobenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Dichlorodifluoromethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,1-Dichloroethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,1-Dichloroethene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,2-Dichloropropane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,3-Dichloropropane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
2,2-Dichloropropane	ND	200		µg/L	100	4/13/2009 7:33:44 PM
1,1-Dichloropropene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Hexachlorobutadiene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
2-Hexanone	ND	1000		µg/L	100	4/13/2009 7:33:44 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	3rd Bz Stripper IN
Lab Order:	0904113	**Collection Date:**	4/2/2009 10:45:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**Date Received:**	4/8/2009
Lab ID:	0904113-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
4-Isopropyltoluene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
4-Methyl-2-pentanone	ND	1000		µg/L	100	4/13/2009 7:33:44 PM
Methylene Chloride	ND	300		µg/L	100	4/13/2009 7:33:44 PM
n-Butylbenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
n-Propylbenzene	120	100		µg/L	100	4/13/2009 7:33:44 PM
sec-Butylbenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Styrene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
tert-Butylbenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,1,1,2-Tetrachloroethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,1,2,2-Tetrachloroethane	ND	200		µg/L	100	4/13/2009 7:33:44 PM
Tetrachloroethene (PCE)	ND	100		µg/L	100	4/13/2009 7:33:44 PM
trans-1,2-DCE	ND	100		µg/L	100	4/13/2009 7:33:44 PM
trans-1,3-Dichloropropene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,2,3-Trichlorobenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,2,4-Trichlorobenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,1,1-Trichloroethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,1,2-Trichloroethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Trichloroethene (TCE)	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Trichlorofluoromethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,2,3-Trichloropropane	ND	200		µg/L	100	4/13/2009 7:33:44 PM
Vinyl chloride	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Xylenes, Total	9000	150		µg/L	100	4/13/2009 7:33:44 PM
Surr: 1,2-Dichloroethane-d4	90.9	68.1-123		%REC	100	4/13/2009 7:33:44 PM
Surr: 4-Bromofluorobenzene	111	53.2-145		%REC	100	4/13/2009 7:33:44 PM
Surr: Dibromofluoromethane	81.0	68.5-119		%REC	100	4/13/2009 7:33:44 PM
Surr: Toluene-d8	80.1	64-131		%REC	100	4/13/2009 7:33:44 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	3rd BZ Stripper OUT
Lab Order:	0904113	**Collection Date:**	4/2/2009 11:00:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**Date Received:**	4/8/2009
Lab ID:	0904113-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	4100	50		µg/L	50	4/13/2009 8:02:23 PM
Toluene	3900	50		µg/L	50	4/13/2009 8:02:23 PM
Ethylbenzene	230	10		µg/L	10	4/13/2009 8:31:00 PM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,2,4-Trimethylbenzene	200	10		µg/L	10	4/13/2009 8:31:00 PM
1,3,5-Trimethylbenzene	75	10		µg/L	10	4/13/2009 8:31:00 PM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Naphthalene	150	20		µg/L	10	4/13/2009 8:31:00 PM
1-Methylnaphthalene	87	40		µg/L	10	4/13/2009 8:31:00 PM
2-Methylnaphthalene	110	40		µg/L	10	4/13/2009 8:31:00 PM
Acetone	1700	100		µg/L	10	4/13/2009 8:31:00 PM
Bromobenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Bromodichloromethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Bromoform	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Bromomethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
2-Butanone	120	100		µg/L	10	4/13/2009 8:31:00 PM
Carbon disulfide	ND	100		µg/L	10	4/13/2009 8:31:00 PM
Carbon Tetrachloride	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Chlorobenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Chloroethane	ND	20		µg/L	10	4/13/2009 8:31:00 PM
Chloroform	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Chloromethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
2-Chlorotoluene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
4-Chlorotoluene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
cis-1,2-DCE	ND	10		µg/L	10	4/13/2009 8:31:00 PM
cis-1,3-Dichloropropene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	4/13/2009 8:31:00 PM
Dibromochloromethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Dibromomethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,2-Dichlorobenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,3-Dichlorobenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,4-Dichlorobenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Dichlorodifluoromethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,1-Dichloroethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,1-Dichloroethene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,2-Dichloropropane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,3-Dichloropropane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
2,2-Dichloropropane	ND	20		µg/L	10	4/13/2009 8:31:00 PM
1,1-Dichloropropene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Hexachlorobutadiene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
2-Hexanone	ND	100		µg/L	10	4/13/2009 8:31:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-09*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0904113
Project: Qtrly Method 8260B Air Quality Permit 0633-m
Lab ID: 0904113-04

Client Sample ID: 3rd BZ Stripper OUT
Collection Date: 4/2/2009 11:00:00 AM
Date Received: 4/8/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: HL
EPA METHOD 8260B: VOLATILES						
Isopropylbenzene	20	10		µg/L	10	4/13/2009 8:31:00 PM
4-Isopropyltoluene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
4-Methyl-2-pentanone	ND	100		µg/L	10	4/13/2009 8:31:00 PM
Methylene Chloride	ND	30		µg/L	10	4/13/2009 8:31:00 PM
n-Butylbenzene	13	10		µg/L	10	4/13/2009 8:31:00 PM
n-Propylbenzene	24	10		µg/L	10	4/13/2009 8:31:00 PM
sec-Butylbenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Styrene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
tert-Butylbenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	4/13/2009 8:31:00 PM
Tetrachloroethene (PCE)	ND	10		µg/L	10	4/13/2009 8:31:00 PM
trans-1,2-DCE	ND	10		µg/L	10	4/13/2009 8:31:00 PM
trans-1,3-Dichloropropene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,1,1-Trichloroethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,1,2-Trichloroethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Trichloroethene (TCE)	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Trichlorofluoromethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,2,3-Trichloropropane	ND	20		µg/L	10	4/13/2009 8:31:00 PM
Vinyl chloride	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Xylenes, Total	1800	15		µg/L	10	4/13/2009 8:31:00 PM
Surr: 1,2-Dichloroethane-d4	91.5	68.1-123		%REC	10	4/13/2009 8:31:00 PM
Surr: 4-Bromofluorobenzene	98.0	53.2-145		%REC	10	4/13/2009 8:31:00 PM
Surr: Dibromofluoromethane	80.7	68.5-119		%REC	50	4/13/2009 8:02:23 PM
Surr: Toluene-d8	93.9	64-131		%REC	10	4/13/2009 8:31:00 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: Qtrly Method 8260B Air Quality Permit 0633-m **Work Order:** 0904113

Method: EPA Method 8260B: VOLATILES
Sample ID: 5ml rb *MBLK* Batch ID: **R33223** Analysis Date: 4/13/2009 8:34:24 AM

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						
4-Isopropyltoluene	ND	µg/L	1.0						

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Qtrly Method 8260B Air Quality Permit 0633-m **Work Order:** 0904113

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R33223**	Analysis Date:	4/13/2009 8:34:24 AM	
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: 100ng lcs		*LCS*			Batch ID:	**R33223**	Analysis Date:	4/13/2009 9:31:27 AM	
Benzene	17.68	µg/L	1.0	88.4	88	116			
Toluene	18.72	µg/L	1.0	93.6	82.9	112			
Chlorobenzene	21.82	µg/L	1.0	109	71.4	133			
1,1-Dichloroethene	21.49	µg/L	1.0	107	97.9	140			
Trichloroethene (TCE)	18.38	µg/L	1.0	91.9	90.5	112			

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: 4/8/2009

Work Order Number 0904113

Received by: TLS

Sample ID labels checked by: TS
Initials

Checklist completed by: _____ Signature 4/8/09 Date

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 ☑	
Container/Temp Blank temperature?	5°	*<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-REFINING
Gallup Refinery
Mailing Address: RT 3 Box 9
Gallup NM 87301
Phone #: 505 722 3833
email or Fax#: 505722 0210
QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☐ Standard ☐ Rush

Project Name: QUARTERLY METHOD 8260B 2ND QT AIR QUALITY PERMIT 0633-M7
Project #:
Project Manager: GAURAV, RAJEN
Sampler: ALVIN DORSEY
On Ice: ☒ Yes ☐ No
Sample Temperature: 5

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. 0904113	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) All VOC	8270 (Semi-VOA)					Air Bubbles (Y or N)
04-02-09	1000	Air	Bz Stripper 1&2 IN	3-40 ml	HCl	1										X						
04-02-09	1015		Bz Stripper 1&2 OUT	3-40 ml	HCl	2										X						
04-02-09	1045		3rd Bz Stripper IN	3-40 ml	HCl	3										X						
04-02-09	1100		3rd Bz Stripper OUT	3-40 ml	HCl	4										X						

Date	Time	Relinquished by	Received by	Date	Time
4-07-09 ~~04/06~~	12:00	Alvin D	[illegible]	4/8/09	1030
Date:	Time:	Relinquished by:	Received by:	Date	Time

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.