GRE

Monzeglio, Hope, NMENV

From: Riege, Ed [Ed.Riege@wnr.com]
Sent: Monday, November 03, 2008 4:33 PM
To: Monzeglio, Hope, NMENV
Subject: RE: questions

It is API overflow, basically the same water as the effluent just not the same effluent line. The oil should be removed.

Ed Riege
Environmental Manager

Western Refining
Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
(505) 722-0217
ed.riege@wnr.com

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Monday, November 03, 2008 3:25 PM
To: Riege, Ed
Cc: Cobrain, Dave, NMENV
Subject: RE: questions

Thanks Ed

Let me know when you find out what effluent goes to the bypass pipe to aeration lagoon 1.

Hope

From: Riege, Ed [mailto:Ed.Riege@wnr.com]
Sent: Monday, November 03, 2008 2:37 PM
To: Monzeglio, Hope, NMENV
Subject: RE: questions

Hope,
One clarification, the lab report is dated October 23, 2008 but the sampling date was actually 10/16/08.

Ed

Ed Riege
Environmental Manager

Western Refining
Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
(505) 722-0217
ed.riege@wnr.com

From: Riege, Ed
Sent: Monday, November 03, 2008 2:34 PM
To: 'Monzeglio, Hope, NMENV'
Subject: RE: questions

Hi Hope,

The latest results we have for the API effluent were for samples taken on October 23, 2008 which are attached. The results you are looking for can be found on pgs 7 and 8 of this report labeled as BZ stripper 1&2 IN. You are correct, all the API effluent goes directly to the benzene strippers 1 and 2 and then to aeration lagoon 1. The pilot study was completed in August and the results have been given to our wastewater consultants Brown and Caldwell who are reviewing the results as well as other technologies Western will consider in its proposal to OCD by March 1, 2009.

Ed

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Environmental Manager

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Gallup, NM 87301
(505) 722-0217
ed.riege@wnr.com

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Monday, November 03, 2008 11:31 AM
To: Riege, Ed
Cc: Cobrain, Dave, NMENV
Subject: questions

Ed

I have a few questions.

1) Do you have any analytical data for the effluent coming out of the API separator? If so, can you provide me with the most recent laboratory results.

2) Does all effluent from the API separator go directly to the benzene strippers and then to aeration lagoon 1?

3) How is the pilot test study going at the aeration lagoons?

Thanks
Hope

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

Websites:
New Mexico Environment Department
Hazardous Waste Bureau

Monzeglio, Hope, NMENV

From: Riege, Ed [Ed.Riege@wnr.com]
Sent: Monday, November 03, 2008 2:34 PM
To: Monzeglio, Hope, NMENV
Subject: RE: questions
Attachments: 0810317.pdf

Hi Hope,

The latest results we have for the API effluent were for samples taken on October 23, 2008 which are attached. The results you are looking for can be found on pgs 7 and 8 of this report labeled as BZ stripper 1&2 IN. You are correct, all the API effluent goes directly to the benzene strippers 1 and 2 and then to aeration lagoon 1. The pilot study was completed in August and the results have been given to our wastewater consultants Brown and Caldwell who are reviewing the results as well as other technologies Western will consider in its proposal to OCD by March 1, 2009.

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From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Monday, November 03, 2008 11:31 AM
To: Riege, Ed
Cc: Cobrain, Dave, NMENV
Subject: questions

Ed

I have a few questions.

1) Do you have any analytical data for the effluent coming out of the API separator? If so, can you provide me with the most recent laboratory results.

2) Does all effluent from the API separator go directly to the benzene strippers and then to aeration lagoon 1?

3) How is the pilot test study going at the aeration lagoons?

Thanks
Hope

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Environmental Specialist
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HALL ENVIRONMENTAL ANALYSIS LABORATORY

COVER LETTER

Thursday, October 23, 2008

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

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

RE: Qtrly Method 8260B Air Quality Permit 0633-M7

Order No.: 0810317

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 10/16/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

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

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-Oct-08*

CLIENT:	Western Refining Southwest, Gallup
Project:	Qtrly Method 8260B Air Quality Permit 0633-M
Lab Order:	0810317

CASE NARRATIVE

Analytical Comments for METHOD 8260_W, SAMPLE 0810317-02a: pH=2.5

Hall Environmental Analysis Laboratory, Inc.

Date: *23-Oct-08*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	3rd BZ Stripper-IN
Lab Order:	0810317	**Collection Date:**	10/14/2008 11:20:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-M	**Date Received:**	10/16/2008
Lab ID:	0810317-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	460000	5000		µg/L	5000	10/17/2008 8:31:08 PM
Toluene	940000	20000		µg/L	20000	10/17/2008 8:02:24 PM
Ethylbenzene	340000	5000		µg/L	5000	10/17/2008 8:31:08 PM
Methyl tert-butyl ether (MTBE)	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,2,4-Trimethylbenzene	440000	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,3,5-Trimethylbenzene	160000	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,2-Dichloroethane (EDC)	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,2-Dibromoethane (EDB)	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
Naphthalene	63000	10000		µg/L	5000	10/17/2008 8:31:08 PM
1-Methylnaphthalene	60000	20000		µg/L	5000	10/17/2008 8:31:08 PM
2-Methylnaphthalene	86000	20000		µg/L	5000	10/17/2008 8:31:08 PM
Acetone	ND	50000		µg/L	5000	10/17/2008 8:31:08 PM
Bromobenzene	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
Bromodichloromethane	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
Bromoform	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
Bromomethane	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
2-Butanone	ND	50000		µg/L	5000	10/17/2008 8:31:08 PM
Carbon disulfide	ND	50000		µg/L	5000	10/17/2008 8:31:08 PM
Carbon Tetrachloride	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
Chlorobenzene	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
Chloroethane	ND	10000		µg/L	5000	10/17/2008 8:31:08 PM
Chloroform	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
Chloromethane	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
2-Chlorotoluene	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
4-Chlorotoluene	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
cis-1,2-DCE	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
cis-1,3-Dichloropropene	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,2-Dibromo-3-chloropropane	ND	10000		µg/L	5000	10/17/2008 8:31:08 PM
Dibromochloromethane	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
Dibromomethane	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,2-Dichlorobenzene	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,3-Dichlorobenzene	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,4-Dichlorobenzene	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
Dichlorodifluoromethane	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,1-Dichloroethane	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,1-Dichloroethene	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,2-Dichloropropane	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,3-Dichloropropane	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
2,2-Dichloropropane	ND	10000		µg/L	5000	10/17/2008 8:31:08 PM
1,1-Dichloropropene	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
Hexachlorobutadiene	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
2-Hexanone	ND	50000		µg/L	5000	10/17/2008 8:31:08 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-Oct-08*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	3rd BZ Stripper-IN
Lab Order:	0810317	**Collection Date:**	10/14/2008 11:20:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-M	**Date Received:**	10/16/2008
Lab ID:	0810317-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	56000	5000		µg/L	5000	10/17/2008 8:31:08 PM
4-Isopropyltoluene	15000	5000		µg/L	5000	10/17/2008 8:31:08 PM
4-Methyl-2-pentanone	ND	50000		µg/L	5000	10/17/2008 8:31:08 PM
Methylene Chloride	ND	15000		µg/L	5000	10/17/2008 8:31:08 PM
n-Butylbenzene	21000	5000		µg/L	5000	10/17/2008 8:31:08 PM
n-Propylbenzene	71000	5000		µg/L	5000	10/17/2008 8:31:08 PM
sec-Butylbenzene	13000	5000		µg/L	5000	10/17/2008 8:31:08 PM
Styrene	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
tert-Butylbenzene	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,1,1,2-Tetrachloroethane	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,1,2,2-Tetrachloroethane	ND	10000		µg/L	5000	10/17/2008 8:31:08 PM
Tetrachloroethene (PCE)	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
trans-1,2-DCE	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
trans-1,3-Dichloropropene	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,2,3-Trichlorobenzene	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,2,4-Trichlorobenzene	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,1,1-Trichloroethane	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,1,2-Trichloroethane	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
Trichloroethene (TCE)	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
Trichlorofluoromethane	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
1,2,3-Trichloropropane	ND	10000		µg/L	5000	10/17/2008 8:31:08 PM
Vinyl chloride	ND	5000		µg/L	5000	10/17/2008 8:31:08 PM
Xylenes, Total	1100000	30000		µg/L	20000	10/17/2008 8:02:24 PM
Surr: 1,2-Dichloroethane-d4	97.7	68.1-123		%REC	5000	10/17/2008 8:31:08 PM
Surr: 4-Bromofluorobenzene	83.0	53.2-145		%REC	5000	10/17/2008 8:31:08 PM
Surr: Dibromofluoromethane	114	68.5-119		%REC	5000	10/17/2008 8:31:08 PM
Surr: Toluene-d8	107	64-131		%REC	5000	10/17/2008 8:31:08 PM

Qualifiers:

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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-Oct-08*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	3rd BZ Stripper-OUT
Lab Order:	0810317	**Collection Date:**	10/14/2008 11:40:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-M	**Date Received:**	10/16/2008
Lab ID:	0810317-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	35000	1000		µg/L	1000	10/20/2008 5:13:47 PM
Toluene	89000	5000		µg/L	5000	10/20/2008 2:11:23 PM
Ethylbenzene	97000	1000		µg/L	1000	10/20/2008 5:13:47 PM
Methyl tert-butyl ether (MTBE)	ND	400		µg/L	400	10/17/2008 8:59:53 PM
1,2,4-Trimethylbenzene	64000	5000		µg/L	5000	10/20/2008 2:11:23 PM
1,3,5-Trimethylbenzene	36000	400		µg/L	400	10/17/2008 8:59:53 PM
1,2-Dichloroethane (EDC)	ND	400		µg/L	400	10/17/2008 8:59:53 PM
1,2-Dibromoethane (EDB)	ND	400		µg/L	400	10/17/2008 8:59:53 PM
Naphthalene	73000	2000		µg/L	1000	10/20/2008 5:13:47 PM
1-Methylnaphthalene	38000	1600		µg/L	400	10/17/2008 8:59:53 PM
2-Methylnaphthalene	89000	4000		µg/L	1000	10/20/2008 5:13:47 PM
Acetone	ND	4000		µg/L	400	10/17/2008 8:59:53 PM
Bromobenzene	ND	400		µg/L	400	10/17/2008 8:59:53 PM
Bromodichloromethane	ND	400		µg/L	400	10/17/2008 8:59:53 PM
Bromoform	ND	400		µg/L	400	10/17/2008 8:59:53 PM
Bromomethane	ND	400		µg/L	400	10/17/2008 8:59:53 PM
2-Butanone	ND	4000		µg/L	400	10/17/2008 8:59:53 PM
Carbon disulfide	ND	4000		µg/L	400	10/17/2008 8:59:53 PM
Carbon Tetrachloride	ND	400		µg/L	400	10/17/2008 8:59:53 PM
Chlorobenzene	ND	400		µg/L	400	10/17/2008 8:59:53 PM
Chloroethane	ND	800		µg/L	400	10/17/2008 8:59:53 PM
Chloroform	ND	400		µg/L	400	10/17/2008 8:59:53 PM
Chloromethane	ND	400		µg/L	400	10/17/2008 8:59:53 PM
2-Chlorotoluene	ND	400		µg/L	400	10/17/2008 8:59:53 PM
4-Chlorotoluene	ND	400		µg/L	400	10/17/2008 8:59:53 PM
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cis-1,3-Dichloropropene	ND	400		µg/L	400	10/17/2008 8:59:53 PM
1,2-Dibromo-3-chloropropane	ND	800		µg/L	400	10/17/2008 8:59:53 PM
Dibromochloromethane	ND	400		µg/L	400	10/17/2008 8:59:53 PM
Dibromomethane	ND	400		µg/L	400	10/17/2008 8:59:53 PM
1,2-Dichlorobenzene	ND	400		µg/L	400	10/17/2008 8:59:53 PM
1,3-Dichlorobenzene	ND	400		µg/L	400	10/17/2008 8:59:53 PM
1,4-Dichlorobenzene	ND	400		µg/L	400	10/17/2008 8:59:53 PM
Dichlorodifluoromethane	ND	400		µg/L	400	10/17/2008 8:59:53 PM
1,1-Dichloroethane	ND	400		µg/L	400	10/17/2008 8:59:53 PM
1,1-Dichloroethene	ND	400		µg/L	400	10/17/2008 8:59:53 PM
1,2-Dichloropropane	ND	400		µg/L	400	10/17/2008 8:59:53 PM
1,3-Dichloropropane	ND	400		µg/L	400	10/17/2008 8:59:53 PM
2,2-Dichloropropane	ND	800		µg/L	400	10/17/2008 8:59:53 PM
1,1-Dichloropropene	ND	400		µg/L	400	10/17/2008 8:59:53 PM
Hexachlorobutadiene	ND	400		µg/L	400	10/17/2008 8:59:53 PM
2-Hexanone	ND	4000		µg/L	400	10/17/2008 8:59:53 PM

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E	Estimated value	H	Holding times for preparation or analysis exceeded
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Hall Environmental Analysis Laboratory, Inc.

Date: *23-Oct-08*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	3rd BZ Stripper-OUT
Lab Order:	0810317	**Collection Date:**	10/14/2008 11:40:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-M	**Date Received:**	10/16/2008
Lab ID:	0810317-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	13000	400		µg/L	400	10/17/2008 8:59:53 PM
4-Isopropyltoluene	3500	400		µg/L	400	10/17/2008 8:59:53 PM
4-Methyl-2-pentanone	ND	4000		µg/L	400	10/17/2008 8:59:53 PM
Methylene Chloride	ND	1200		µg/L	400	10/17/2008 8:59:53 PM
n-Butylbenzene	6100	400		µg/L	400	10/17/2008 8:59:53 PM
n-Propylbenzene	15000	400		µg/L	400	10/17/2008 8:59:53 PM
sec-Butylbenzene	3200	400		µg/L	400	10/17/2008 8:59:53 PM
Styrene	ND	400		µg/L	400	10/17/2008 8:59:53 PM
tert-Butylbenzene	ND	400		µg/L	400	10/17/2008 8:59:53 PM
1,1,1,2-Tetrachloroethane	ND	400		µg/L	400	10/17/2008 8:59:53 PM
1,1,2,2-Tetrachloroethane	ND	800		µg/L	400	10/17/2008 8:59:53 PM
Tetrachloroethene (PCE)	ND	400		µg/L	400	10/17/2008 8:59:53 PM
trans-1,2-DCE	ND	400		µg/L	400	10/17/2008 8:59:53 PM
trans-1,3-Dichloropropene	ND	400		µg/L	400	10/17/2008 8:59:53 PM
1,2,3-Trichlorobenzene	ND	400		µg/L	400	10/17/2008 8:59:53 PM
1,2,4-Trichlorobenzene	ND	400		µg/L	400	10/17/2008 8:59:53 PM
1,1,1-Trichloroethane	ND	400		µg/L	400	10/17/2008 8:59:53 PM
1,1,2-Trichloroethane	ND	400		µg/L	400	10/17/2008 8:59:53 PM
Trichloroethene (TCE)	ND	400		µg/L	400	10/17/2008 8:59:53 PM
Trichlorofluoromethane	ND	400		µg/L	400	10/17/2008 8:59:53 PM
1,2,3-Trichloropropane	ND	800		µg/L	400	10/17/2008 8:59:53 PM
Vinyl chloride	ND	400		µg/L	400	10/17/2008 8:59:53 PM
Xylenes, Total	170000	7500		µg/L	5000	10/20/2008 2:11:23 PM
Surr: 1,2-Dichloroethane-d4	101	68.1-123		%REC	400	10/17/2008 8:59:53 PM
Surr: 4-Bromofluorobenzene	60.7	53.2-145		%REC	400	10/17/2008 8:59:53 PM
Surr: Dibromofluoromethane	121	68.5-119	S	%REC	400	10/17/2008 8:59:53 PM
Surr: Toluene-d8	113	64-131		%REC	400	10/17/2008 8:59:53 PM

Qualifiers:

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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-Oct-08*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BZ Stripper 1 & 2 OUT
Lab Order:	0810317	**Collection Date:**	10/14/2008 1:45:00 PM
Project:	Qtrly Method 8260B Air Quality Permit 0633-M	**Date Received:**	10/16/2008
Lab ID:	0810317-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	460	20		µg/L	20	10/17/2008 9:28:35 PM
Toluene	1100	20		µg/L	20	10/17/2008 9:28:35 PM
Ethylbenzene	190	20		µg/L	20	10/17/2008 9:28:35 PM
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	10/17/2008 9:28:35 PM
1,2,4-Trimethylbenzene	710	20		µg/L	20	10/17/2008 9:28:35 PM
1,3,5-Trimethylbenzene	210	20		µg/L	20	10/17/2008 9:28:35 PM
1,2-Dichloroethane (EDC)	ND	20		µg/L	20	10/17/2008 9:28:35 PM
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	10/17/2008 9:28:35 PM
Naphthalene	460	40		µg/L	20	10/17/2008 9:28:35 PM
1-Methylnaphthalene	580	80		µg/L	20	10/17/2008 9:28:35 PM
2-Methylnaphthalene	850	80		µg/L	20	10/17/2008 9:28:35 PM
Acetone	3600	200		µg/L	20	10/17/2008 9:28:35 PM
Bromobenzene	ND	20		µg/L	20	10/17/2008 9:28:35 PM
Bromodichloromethane	ND	20		µg/L	20	10/17/2008 9:28:35 PM
Bromoform	ND	20		µg/L	20	10/17/2008 9:28:35 PM
Bromomethane	ND	20		µg/L	20	10/17/2008 9:28:35 PM
2-Butanone	220	200		µg/L	20	10/17/2008 9:28:35 PM
Carbon disulfide	ND	200		µg/L	20	10/17/2008 9:28:35 PM
Carbon Tetrachloride	ND	20		µg/L	20	10/17/2008 9:28:35 PM
Chlorobenzene	ND	20		µg/L	20	10/17/2008 9:28:35 PM
Chloroethane	ND	40		µg/L	20	10/17/2008 9:28:35 PM
Chloroform	ND	20		µg/L	20	10/17/2008 9:28:35 PM
Chloromethane	ND	20		µg/L	20	10/17/2008 9:28:35 PM
2-Chlorotoluene	ND	20		µg/L	20	10/17/2008 9:28:35 PM
4-Chlorotoluene	ND	20		µg/L	20	10/17/2008 9:28:35 PM
cis-1,2-DCE	ND	20		µg/L	20	10/17/2008 9:28:35 PM
cis-1,3-Dichloropropene	ND	20		µg/L	20	10/17/2008 9:28:35 PM
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	10/17/2008 9:28:35 PM
Dibromochloromethane	ND	20		µg/L	20	10/17/2008 9:28:35 PM
Dibromomethane	ND	20		µg/L	20	10/17/2008 9:28:35 PM
1,2-Dichlorobenzene	ND	20		µg/L	20	10/17/2008 9:28:35 PM
1,3-Dichlorobenzene	ND	20		µg/L	20	10/17/2008 9:28:35 PM
1,4-Dichlorobenzene	ND	20		µg/L	20	10/17/2008 9:28:35 PM
Dichlorodifluoromethane	ND	20		µg/L	20	10/17/2008 9:28:35 PM
1,1-Dichloroethane	ND	20		µg/L	20	10/17/2008 9:28:35 PM
1,1-Dichloroethene	ND	20		µg/L	20	10/17/2008 9:28:35 PM
1,2-Dichloropropane	ND	20		µg/L	20	10/17/2008 9:28:35 PM
1,3-Dichloropropane	ND	20		µg/L	20	10/17/2008 9:28:35 PM
2,2-Dichloropropane	ND	40		µg/L	20	10/17/2008 9:28:35 PM
1,1-Dichloropropene	ND	20		µg/L	20	10/17/2008 9:28:35 PM
Hexachlorobutadiene	ND	20		µg/L	20	10/17/2008 9:28:35 PM
2-Hexanone	ND	200		µg/L	20	10/17/2008 9:28:35 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-Oct-08*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BZ Stripper 1 & 2 OUT
Lab Order:	0810317	**Collection Date:**	10/14/2008 1:45:00 PM
Project:	Qtrly Method 8260B Air Quality Permit 0633-M	**Date Received:**	10/16/2008
Lab ID:	0810317-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	42	20		µg/L	20	10/17/2008 9:28:35 PM
4-Isopropyltoluene	32	20		µg/L	20	10/17/2008 9:28:35 PM
4-Methyl-2-pentanone	ND	200		µg/L	20	10/17/2008 9:28:35 PM
Methylene Chloride	ND	60		µg/L	20	10/17/2008 9:28:35 PM
n-Butylbenzene	85	20		µg/L	20	10/17/2008 9:28:35 PM
n-Propylbenzene	75	20		µg/L	20	10/17/2008 9:28:35 PM
sec-Butylbenzene	31	20		µg/L	20	10/17/2008 9:28:35 PM
Styrene	ND	20		µg/L	20	10/17/2008 9:28:35 PM
tert-Butylbenzene	ND	20		µg/L	20	10/17/2008 9:28:35 PM
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	10/17/2008 9:28:35 PM
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	10/17/2008 9:28:35 PM
Tetrachloroethene (PCE)	ND	20		µg/L	20	10/17/2008 9:28:35 PM
trans-1,2-DCE	ND	20		µg/L	20	10/17/2008 9:28:35 PM
trans-1,3-Dichloropropene	ND	20		µg/L	20	10/17/2008 9:28:35 PM
1,2,3-Trichlorobenzene	ND	20		µg/L	20	10/17/2008 9:28:35 PM
1,2,4-Trichlorobenzene	ND	20		µg/L	20	10/17/2008 9:28:35 PM
1,1,1-Trichloroethane	ND	20		µg/L	20	10/17/2008 9:28:35 PM
1,1,2-Trichloroethane	ND	20		µg/L	20	10/17/2008 9:28:35 PM
Trichloroethene (TCE)	ND	20		µg/L	20	10/17/2008 9:28:35 PM
Trichlorofluoromethane	ND	20		µg/L	20	10/17/2008 9:28:35 PM
1,2,3-Trichloropropane	ND	40		µg/L	20	10/17/2008 9:28:35 PM
Vinyl chloride	ND	20		µg/L	20	10/17/2008 9:28:35 PM
Xylenes, Total	1300	30		µg/L	20	10/17/2008 9:28:35 PM
Surr: 1,2-Dichloroethane-d4	100	68.1-123		%REC	20	10/17/2008 9:28:35 PM
Surr: 4-Bromofluorobenzene	84.2	53.2-145		%REC	20	10/17/2008 9:28:35 PM
Surr: Dibromofluoromethane	114	68.5-119		%REC	20	10/17/2008 9:28:35 PM
Surr: Toluene-d8	114	64-131		%REC	20	10/17/2008 9:28:35 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-Oct-08*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BZ Stripper 1 & 2 IN
Lab Order:	0810317	**Collection Date:**	10/14/2008 2:00:00 PM
Project:	Qtrly Method 8260B Air Quality Permit 0633-M	**Date Received:**	10/16/2008
Lab ID:	0810317-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	3400	50		µg/L	50	10/20/2008 2:40:38 PM
Toluene	8700	100		µg/L	100	10/20/2008 6:40:07 PM
Ethylbenzene	1600	50		µg/L	50	10/20/2008 2:40:38 PM
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	10/20/2008 2:40:38 PM
1,2,4-Trimethylbenzene	7000	100		µg/L	100	10/20/2008 6:40:07 PM
1,3,5-Trimethylbenzene	1600	50		µg/L	50	10/20/2008 2:40:38 PM
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	10/20/2008 2:40:38 PM
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	10/20/2008 2:40:38 PM
Naphthalene	1600	100		µg/L	50	10/20/2008 2:40:38 PM
1-Methylnaphthalene	1600	200		µg/L	50	10/20/2008 2:40:38 PM
2-Methylnaphthalene	2700	200		µg/L	50	10/20/2008 2:40:38 PM
Acetone	5400	500		µg/L	50	10/20/2008 2:40:38 PM
Bromobenzene	ND	50		µg/L	50	10/20/2008 2:40:38 PM
Bromodichloromethane	ND	50		µg/L	50	10/20/2008 2:40:38 PM
Bromoform	ND	50		µg/L	50	10/20/2008 2:40:38 PM
Bromomethane	ND	50		µg/L	50	10/20/2008 2:40:38 PM
2-Butanone	ND	500		µg/L	50	10/20/2008 2:40:38 PM
Carbon disulfide	ND	500		µg/L	50	10/20/2008 2:40:38 PM
Carbon Tetrachloride	ND	50		µg/L	50	10/20/2008 2:40:38 PM
Chlorobenzene	ND	50		µg/L	50	10/20/2008 2:40:38 PM
Chloroethane	ND	100		µg/L	50	10/20/2008 2:40:38 PM
Chloroform	ND	50		µg/L	50	10/20/2008 2:40:38 PM
Chloromethane	ND	50		µg/L	50	10/20/2008 2:40:38 PM
2-Chlorotoluene	ND	50		µg/L	50	10/20/2008 2:40:38 PM
4-Chlorotoluene	ND	50		µg/L	50	10/20/2008 2:40:38 PM
cis-1,2-DCE	ND	50		µg/L	50	10/20/2008 2:40:38 PM
cis-1,3-Dichloropropene	ND	50		µg/L	50	10/20/2008 2:40:38 PM
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	10/20/2008 2:40:38 PM
Dibromochloromethane	ND	50		µg/L	50	10/20/2008 2:40:38 PM
Dibromomethane	ND	50		µg/L	50	10/20/2008 2:40:38 PM
1,2-Dichlorobenzene	ND	50		µg/L	50	10/20/2008 2:40:38 PM
1,3-Dichlorobenzene	ND	50		µg/L	50	10/20/2008 2:40:38 PM
1,4-Dichlorobenzene	ND	50		µg/L	50	10/20/2008 2:40:38 PM
Dichlorodifluoromethane	ND	50		µg/L	50	10/20/2008 2:40:38 PM
1,1-Dichloroethane	ND	50		µg/L	50	10/20/2008 2:40:38 PM
1,1-Dichloroethene	ND	50		µg/L	50	10/20/2008 2:40:38 PM
1,2-Dichloropropane	ND	50		µg/L	50	10/20/2008 2:40:38 PM
1,3-Dichloropropane	ND	50		µg/L	50	10/20/2008 2:40:38 PM
2,2-Dichloropropane	ND	100		µg/L	50	10/20/2008 2:40:38 PM
1,1-Dichloropropene	ND	50		µg/L	50	10/20/2008 2:40:38 PM
Hexachlorobutadiene	ND	50		µg/L	50	10/20/2008 2:40:38 PM
2-Hexanone	ND	500		µg/L	50	10/20/2008 2:40:38 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-Oct-08*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BZ Stripper 1 & 2 IN
Lab Order:	0810317	**Collection Date:**	10/14/2008 2:00:00 PM
Project:	Qtrly Method 8260B Air Quality Permit 0633-M	**Date Received:**	10/16/2008
Lab ID:	0810317-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	370	50		µg/L	50	10/20/2008 2:40:38 PM
4-Isopropyltoluene	220	50		µg/L	50	10/20/2008 2:40:38 PM
4-Methyl-2-pentanone	ND	500		µg/L	50	10/20/2008 2:40:38 PM
Methylene Chloride	ND	150		µg/L	50	10/20/2008 2:40:38 PM
n-Butylbenzene	540	50		µg/L	50	10/20/2008 2:40:38 PM
n-Propylbenzene	650	50		µg/L	50	10/20/2008 2:40:38 PM
sec-Butylbenzene	240	50		µg/L	50	10/20/2008 2:40:38 PM
Styrene	ND	50		µg/L	50	10/20/2008 2:40:38 PM
tert-Butylbenzene	ND	50		µg/L	50	10/20/2008 2:40:38 PM
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	10/20/2008 2:40:38 PM
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	10/20/2008 2:40:38 PM
Tetrachloroethene (PCE)	ND	50		µg/L	50	10/20/2008 2:40:38 PM
trans-1,2-DCE	ND	50		µg/L	50	10/20/2008 2:40:38 PM
trans-1,3-Dichloropropene	ND	50		µg/L	50	10/20/2008 2:40:38 PM
1,2,3-Trichlorobenzene	ND	50		µg/L	50	10/20/2008 2:40:38 PM
1,2,4-Trichlorobenzene	ND	50		µg/L	50	10/20/2008 2:40:38 PM
1,1,1-Trichloroethane	ND	50		µg/L	50	10/20/2008 2:40:38 PM
1,1,2-Trichloroethane	ND	50		µg/L	50	10/20/2008 2:40:38 PM
Trichloroethene (TCE)	ND	50		µg/L	50	10/20/2008 2:40:38 PM
Trichlorofluoromethane	ND	50		µg/L	50	10/20/2008 2:40:38 PM
1,2,3-Trichloropropane	ND	100		µg/L	50	10/20/2008 2:40:38 PM
Vinyl chloride	ND	50		µg/L	50	10/20/2008 2:40:38 PM
Xylenes, Total	11000	75		µg/L	50	10/20/2008 2:40:38 PM
Surr: 1,2-Dichloroethane-d4	103	68.1-123		%REC	50	10/20/2008 2:40:38 PM
Surr: 4-Bromofluorobenzene	79.6	53.2-145		%REC	50	10/20/2008 2:40:38 PM
Surr: Dibromofluoromethane	110	68.5-119		%REC	50	10/20/2008 2:40:38 PM
Surr: Toluene-d8	97.5	64-131		%REC	50	10/20/2008 2:40:38 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:** 0810317

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R30747**	Analysis Date:	10/17/2008 1:56:17 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						
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:** 0810317

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R30747**	Analysis Date:	10/17/2008 1:56:17 PM	
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:	**R30747**	Analysis Date:	10/18/2008 3:46:22 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:** 0810317

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: B4		*MBLK*			Batch ID:	**R30747**	Analysis Date:	10/18/2008 3:46:22 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: 5ml rb		*MBLK*			Batch ID:	**R30772**	Analysis Date:	10/20/2008 2:10:07 PM	

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:** 0810317

Method: **EPA Method 8260B: VOLATILES**
Sample ID: **5ml rb** *MBLK* Batch ID: **R30772** Analysis Date: 10/20/2008 2:10:07 PM

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:** 0810317

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R30772**	Analysis Date:	10/20/2008 2:10:07 PM	
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:	**R30775**	Analysis Date:	10/20/2008 8:34:20 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:** 0810317

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R30775**	Analysis Date:	10/20/2008 8:34:20 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:	**R30747**	Analysis Date:	10/17/2008 3:04:08 PM	

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:** 0810317

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 100ng lcs		*LCS*			Batch ID:	**R30747**	Analysis Date:	10/17/2008 3:04:08 PM	
Benzene	22.04	µg/L	1.0	110	88	116			
Toluene	20.89	µg/L	1.0	104	82.9	112			
Chlorobenzene	20.79	µg/L	1.0	104	71.4	133			
1,1-Dichloroethene	23.58	µg/L	1.0	118	97.9	140			
Trichloroethene (TCE)	19.35	µg/L	1.0	96.8	90.5	112			
Sample ID: 100NG LCS		*LCS*			Batch ID:	**R30747**	Analysis Date:	10/18/2008 4:43:56 AM	
Benzene	21.11	µg/L	1.0	106	88	116			
Toluene	20.57	µg/L	1.0	103	82.9	112			
Chlorobenzene	20.13	µg/L	1.0	101	71.4	133			
1,1-Dichloroethene	21.67	µg/L	1.0	108	97.9	140			
Trichloroethene (TCE)	19.54	µg/L	1.0	97.7	90.5	112			
Sample ID: 100ng lcs		*LCS*			Batch ID:	**R30772**	Analysis Date:	10/20/2008 3:17:30 PM	
Benzene	22.58	µg/L	1.0	113	88	116			
Toluene	20.59	µg/L	1.0	103	82.9	112			
Chlorobenzene	21.02	µg/L	1.0	105	71.4	133			
1,1-Dichloroethene	23.10	µg/L	1.0	116	97.9	140			
Trichloroethene (TCE)	20.81	µg/L	1.0	104	90.5	112			
Sample ID: 100g lcs		*LCS*			Batch ID:	**R30775**	Analysis Date:	10/20/2008 10:00:45 AM	
Benzene	23.67	µg/L	1.0	118	88	116			S
Toluene	20.40	µg/L	1.0	102	82.9	112			
Chlorobenzene	20.21	µg/L	1.0	101	71.4	133			
1,1-Dichloroethene	25.76	µg/L	1.0	129	97.9	140			
Trichloroethene (TCE)	23.24	µg/L	1.0	116	90.5	112			S

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: 10/16/2008

Work Order Number 0810317

Received by: ARS

Sample ID labels checked by: AS
Initials

Checklist completed by: AS 10/16/08
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: _____

Corrective Action _____

Chain-of-Custody Record

Client: WESTERN - Refining
Gallup Refinery
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 AIRQUALITY PERMIT 0633-M7

Project #:

Project Manager: GAUTAU, 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	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 0810317	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	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)
10-14-08	11:20	3rd Bz Stripper-IN	3-40mL	HCL	1										X						
10-14-08	11:40	3rd Bz Stripper-OUT	3-40mL	HCL	2										X						
10-14-08	1:45	Bz Stripper 1&2 OUT	3-40mL	HCL	3										X						
10-14-08	2:00	Bz Stripper 1&2 IN	3-40mL	HCL	4										X						

Date:	Time:	Relinquished by:	Received by:
10-14-08			9:25 10/16/08
Date:	Time:	Relinquished by:	Received by:

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.