



COVER LETTER

February 23, 2005

Steve Morris  
Giant Refining Co  
Rt. 3 Box 7  
Gallup, NM 87301  
TEL: (505) 722-0258  
FAX (505) 722-0210

RE: GWM-1-1st Qtr. 2005

Order No.: 0502178

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 1 sample on 2/18/2005 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



**Hall Environmental Analysis Laboratory**

Date: 23-Feb-05

CLIENT: Giant Refining Co  
 Lab Order: 0502178  
 Project: GWM-1-1st Qtr. 2005  
 Lab ID: 0502178-01

Client Sample ID: GWM-1-1Q-05  
 Collection Date: 2/15/2005 2:30:00 PM  
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: NSB
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	5.0	0.50		µg/L	1	2/22/2005 9:49:27 AM
Toluene	2.4	0.50		µg/L	1	2/22/2005 9:49:27 AM
Ethylbenzene	2.6	0.50		µg/L	1	2/22/2005 9:49:27 AM
Xylenes, Total	31	0.50		µg/L	1	2/22/2005 9:49:27 AM
Surr. 4-Bromofluorobenzene	112	83.3-121		%REC	1	2/22/2005 9:49:27 AM

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 • - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 23-Feb-05

CLIENT: Giant Refining Co  
 Work Order: 0502178  
 Project: GWM-1-1st Qtr. 2005

QC SUMMARY REPORT  
 Method Blank

Sample ID	Reagent Blank 5m	Batch ID: R14637	Test Code: SW8021	Units: µg/L	Analysis Date	2/21/2005 9:04:53 AM	Prep Date					
Client ID:			Run ID: PIDFID_050221A		SeqNo:	340815						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	ND	0.5										
Toluene	ND	0.5										
Ethylbenzene	ND	0.5										
Xylenes, Total	ND	0.5										
Surr: 4-Bromofluorobenzene	19.5	0	20	0	97.5	83.3	121	0				

Sample ID	Reagent Blank 5m	Batch ID: R14648	Test Code: SW8021	Units: µg/L	Analysis Date	2/22/2005 7:49:45 AM	Prep Date					
Client ID:			Run ID: PIDFID_050222A		SeqNo:	341024						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	ND	0.5										
Toluene	ND	0.5										
Ethylbenzene	ND	0.5										
Xylenes, Total	ND	0.5										
Surr: 4-Bromofluorobenzene	20.33	0	20	0	102	83.3	121	0				

Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 I - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

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FEB-23-2005 (WED) 15:47

P.003/006

Hall Environmental Analysis Laboratory

Date: 23-Feb-05

CLIENT: Giant Refining Co  
 Work Order: 0502178  
 Project: GWM-1-1st Qtr. 2005

**QC SUMMARY REPORT**  
 Laboratory Control Spike - generic

Sample ID	BTEX std 100ng	Batch ID: R14637	Test Code: SW8021	Units: µg/L	Analysis Date	2/21/2005 11:21:58 AM	Prep Date				
Client ID:			Run ID: PIDFID_050221A			SeqNo: 340816					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.91	0.5	20	0	99.6	88.7	114	0			
Toluene	20.02	0.5	20	0	100	89.3	112	0			
Ethylbenzene	19.91	0.5	20	0	99.5	88.6	113	0			
Xylenes, Total	60.56	0.5	60	0	101	89.4	112	0			

Sample ID	BTEX std 100ng	Batch ID: R14648	Test Code: SW8021	Units: µg/L	Analysis Date	2/22/2005 7:22:24 PM	Prep Date				
Client ID:			Run ID: PIDFID_050222A			SeqNo: 341035					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.17	0.5	20	0	101	88.7	114	0			
Toluene	20.5	0.5	20	0	103	89.3	112	0			
Ethylbenzene	20.05	0.5	20	0	100	88.6	113	0			
Xylenes, Total	60.68	0.5	60	0	101	89.4	112	0			

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Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      D - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

# Hall Environmental Analysis Laboratory

## Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

2/18/2005

Work Order Number 0502178

Received by AT

Checklist completed by

[Signature] 2/18/05  
Signature Date

Matrix

Carrier name Client drop-off

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

Container/Temp Blank temperature?

6° 4° C ± 2 Acceptable  
If given sufficient time to cool.

COMMENTS:

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

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

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

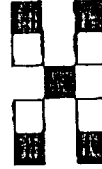
\_\_\_\_\_  
\_\_\_\_\_

# CHAIN-OF-CUSTODY RECORD

Accreditation Applied:

NELAC  USACE

Other: \_\_\_\_\_



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE, Suite D  
Albuquerque, New Mexico 87109  
Tel. 505.345.3975 Fax 505.345.4107  
www.hallenvironmental.com

Client: GIANT REFINING COMPANY - CINITA  
Address: ROUTE 3, BOX 7  
GALLUP, NM 87301

Project Name: GWM-1-1st QTR, 2005

Project #:

Project Manager: STEVE MORRIS

Phone #: 505-722-3933

Sampler: LARRY SANCHEZ + DARREN JOE

Fax #: 505-722-0210

Sample Temperature: 6

### ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)		BTEX + MTBE + TPH (Gasoline Only)		TPH Method 8015B MOD (Gas/Diesel)		TPH (Method 418.1)		EDB (Method 504.1)		EDC (Method 8021)		8310 (PNA or PAH)		RCRA 8 Metals		Cations (Na, K, Ca, Mg)		Anions (F, Cl, NO <sub>2</sub> , NO <sub>3</sub> , PO <sub>4</sub> , SO <sub>4</sub> )		8081 Pesticides / PCB's (8082)		8260 (VOA)		8270 (Semi-VOA)		Air Bubbles or Headspace (Y or N)					

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative			HEAL No.
					H <sub>2</sub> Cl <sub>2</sub>	HNO <sub>3</sub>	HCL	
<u>2-15-05</u>	<u>1430</u>	<u>H<sub>2</sub>O</u>	<u>GWM-1-1Q-05</u>	<u>3 VOA's</u>			<u>✓</u>	<u>650278-1</u>

Date: 2/18/05 Time: 0915 Relinquished By: (Signature) [Signature] Remarks: 2/18/05  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Relinquished By: (Signature) \_\_\_\_\_ Remarks: [Signature] 0915