

COVER LETTER

July 05, 2005

Ed Riege  
Giant Refining Co  
Rt. 3 Box 7  
Gallup, NM 87301  
TEL: (505) 722-3833  
FAX (505) 722-0210

RE: GWM-1-2nd Qtr. 2005

Order No.: 0506293

Dear Ed Riege:

Hall Environmental Analysis Laboratory received 1 sample on 6/30/2005 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: 05-Jul-05

**CLIENT:** Giant Refining Co  
**Lab Order:** 0506293  
**Project:** GWM-1-2nd Qtr. 2005  
**Lab ID:** 0506293-01

**Client Sample ID:** GWM-1-2Q-05  
**Collection Date:** 6/28/2005 12:30:00 PM  
**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	10	2.5		µg/L	5	6/30/2005 7:39:06 PM
Toluene	ND	2.5		µg/L	5	6/30/2005 7:39:06 PM
Ethylbenzene	3.5	2.5		µg/L	5	6/30/2005 7:39:06 PM
Xylenes, Total	41	2.5		µg/L	5	6/30/2005 7:39:06 PM
Surr: 4-Bromofluorobenzene	101	83.3-121		%REC	5	6/30/2005 7:39:06 PM

**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: 05-Jul-05

CLIENT: Giant Refining Co  
 Work Order: 0506293  
 Project: GWM-1-2nd Qtr. 2005

**QC SUMMARY REPORT**

Method Blank

Sample ID	Reagent Blank 5m	Batch ID: R15863	Test Code: SW8021	Units: µg/L	Analysis Date 6/30/2005 10:30:22 AM	Prep Date						
Client ID:			Run ID: PIDFID_050630A			SeqNo: 376231						
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	17.44	0	20	0	87.2	83.3	121	0				

2 / 4

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

CLIENT: Giant Refining Co  
 Work Order: 0506293  
 Project: GWM-1-2nd Qtr. 2005

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

Sample ID	BTEX LCS 100ng	Batch ID: R15863	Test Code: SW8021	Units: µg/L	Analysis Date	6/30/2005 12:03:37 PM	Prep Date					
Client ID:			Run ID: PIDFID_050630A		SeqNo:	376239						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	18.58	0.5	20	0	92.9	88.7	114	0				
Toluene	18.93	0.5	20	0	94.6	89.3	112	0				
Ethylbenzene	18.79	0.5	20	0	93.9	88.6	113	0				
Xylenes, Total	57.41	0.5	60	0	95.7	89.4	112	0				

3 / 4

Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - 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

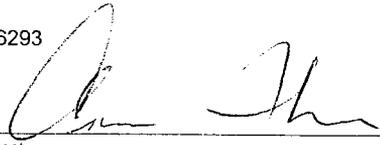
Date and Time Received:

6/30/2005

Work Order Number 0506293

Received by AT

Checklist completed by

  
Signature

Date

6/30/05

Matrix

Carrier name FedEx

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

Container/Temp Blank temperature?

5°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

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

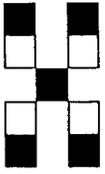
Contacted by: \_\_\_\_\_ Regarding \_\_\_\_\_

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  
CINIZA

Project Name: GLWM-1-2ND QTR 2005

Address: ROUTE 3 Box 7  
GALLUP, NM 87301

Project #: \_\_\_\_\_

Phone #: 505-722-3833  
 Fax #: 505-722-0210

Project Manager: ED RIEGE

Sampler: JOHNNY SANCHEZ JR  
 Sample Temperature: 5

## 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>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / PCB's (8082)	8260 (VOA)	8270 (Semi-VOA)	8021 BTEX	Air Bubbles or Headspace (Y or N)
													X	

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative			HEAL No.
					H <sub>2</sub> O	HNO <sub>3</sub>	HCL	
6/28/05	1230hrs	H <sub>2</sub> O	GLWM-1-2Q-05	3 VOAs		.	✓	050243-1

Date: 6/29/05 Time: 0800 Relinquished By: (Signature) [Signature]

Remarks: [Signature] 6/30/05  
1016

Remarks: \_\_\_\_\_