



**Monzeglio, Hope, NMENV**

**From:** Steve Morris [smorris@giant.com]  
**Sent:** Monday, June 19, 2006 9:41 AM  
**To:** Chavez, Carl J, EMNRD; Cobrain, Dave, NMENV; Foust, Denny, EMNRD; Ed Riege; Monzeglio, Hope, NMENV; Jim Lieb; Johnny Sanchez; Steve Morris; Price, Wayne, EMNRD  
**Subject:** Ciniza Weekly Update for Week of June 16th, 2006  
**Attachments:** HALL9469\_EP2in052506.pdf; HALL9436\_EP2postcleanup.pdf; HALL9468\_EP2in060106.pdf

1. Lori Laster with Vector Arizona is working on the engineering plan for the new firewater/stormwater pond.
2. Jim Lieb is corresponding with Carl Chavez (OCD) on the selection of appropriate flow devices for the various water flows needed.
3. Attached are lab results from Pond 2 inlet water as well as from Pond 2 post clean up.

*= attached analytical*

JUN 19 2006

COVER LETTER

Wednesday, June 07, 2006

Steve Morris  
Giant Refining Co  
Rt. 3 Box 7  
Gallup, NM 87301

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

RE: Evap. Pond #2 Post Cleanup 6-1-2006

Order No.: 0606032

Dear Steve Morris:


Hall Environmental Analysis Laboratory received 4 sample(s) on 6/2/2006 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

AZ license # AZ0682  
ORELAP Lab # NM100001



**Hall Environmental Analysis Laboratory**

**Date:** 07-Jun-06

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**CLIENT:** Giant Refining Co  
**Project:** Evap. Pond #2 Post Cleanup 6-1-2006  
**Lab Order:** 0606032

**CASE NARRATIVE**

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"S" flags denote that the surrogate was not recoverable due to sample dilution or matrix interferences.

# Hall Environmental Analysis Laboratory

Date: 07-Jun-06

<b>CLIENT:</b> Giant Refining Co	<b>Client Sample ID:</b> Pond 2 Bank 1
<b>Lab Order:</b> 0606032	<b>Collection Date:</b> 6/1/2006 10:00:00 AM
<b>Project:</b> Evap. Pond #2 Post Cleanup 6-1-2006	<b>Date Received:</b> 6/2/2006
<b>Lab ID:</b> 0606032-01	<b>Matrix:</b> SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: SCC
Diesel Range Organics (DRO)	18000	2000		mg/Kg	200	6/6/2006 8:38:24 AM
Motor Oil Range Organics (MRO)	ND	10000		mg/Kg	200	6/6/2006 8:38:24 AM
Surr: DNOP	0	61.7-135	S	%REC	200	6/6/2006 8:38:24 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	6/6/2006 12:05:02 PM
Surr: BFB	142	81.7-127	S	%REC	20	6/6/2006 12:05:02 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.0		mg/Kg	20	6/6/2006 12:05:02 PM
Benzene	ND	1.0		mg/Kg	20	6/6/2006 12:05:02 PM
Toluene	ND	1.0		mg/Kg	20	6/6/2006 12:05:02 PM
Ethylbenzene	ND	1.0		mg/Kg	20	6/6/2006 12:05:02 PM
Xylenes, Total	ND	3.0		mg/Kg	20	6/6/2006 12:05:02 PM
Surr: 4-Bromofluorobenzene	113	77.6-114		%REC	20	6/6/2006 12:05:02 PM

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits	

# Hall Environmental Analysis Laboratory

Date: 07-Jun-06

<b>CLIENT:</b> Giant Refining Co	<b>Client Sample ID:</b> Pond 2 BTM
<b>Lab Order:</b> 0606032	<b>Collection Date:</b> 6/1/2006 10:15:00 AM
<b>Project:</b> Evap. Pond #2 Post Cleanup 6-1-2006	<b>Date Received:</b> 6/2/2006
<b>Lab ID:</b> 0606032-02	<b>Matrix:</b> SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: SCC
Diesel Range Organics (DRO)	1400	200		mg/Kg	20	6/6/2006 9:11:13 AM
Motor Oil Range Organics (MRO)	ND	1000		mg/Kg	20	6/6/2006 9:11:13 AM
Surr: DNOP	0	61.7-135	S	%REC	20	6/6/2006 9:11:13 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	6/6/2006 12:34:13 PM
Surr: BFB	149	81.7-127	S	%REC	5	6/6/2006 12:34:13 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	5	6/6/2006 12:34:13 PM
Benzene	ND	0.25		mg/Kg	5	6/6/2006 12:34:13 PM
Toluene	ND	0.25		mg/Kg	5	6/6/2006 12:34:13 PM
Ethylbenzene	ND	0.25		mg/Kg	5	6/6/2006 12:34:13 PM
Xylenes, Total	1.3	0.75		mg/Kg	5	6/6/2006 12:34:13 PM
Surr: 4-Bromofluorobenzene	125	77.6-114	S	%REC	5	6/6/2006 12:34:13 PM

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits	

# Hall Environmental Analysis Laboratory

Date: 07-Jun-06

<b>CLIENT:</b> Giant Refining Co	<b>Client Sample ID:</b> Pond 2 Bank 2
<b>Lab Order:</b> 0606032	<b>Collection Date:</b> 6/1/2006 10:30:00 AM
<b>Project:</b> Evap. Pond #2 Post Cleanup 6-1-2006	<b>Date Received:</b> 6/2/2006
<b>Lab ID:</b> 0606032-03	<b>Matrix:</b> SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: SCC
Diesel Range Organics (DRO)	9900	1000		mg/Kg	100	6/6/2006 9:44:02 AM
Motor Oil Range Organics (MRO)	ND	5000		mg/Kg	100	6/6/2006 9:44:02 AM
Surr: DNOP	0	61.7-135	S	%REC	100	6/6/2006 9:44:02 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	6/6/2006 1:03:18 PM
Surr: BFB	117	81.7-127		%REC	10	6/6/2006 1:03:18 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	1.0		mg/Kg	10	6/6/2006 1:03:18 PM
Benzene	ND	0.50		mg/Kg	10	6/6/2006 1:03:18 PM
Toluene	ND	0.50		mg/Kg	10	6/6/2006 1:03:18 PM
Ethylbenzene	ND	0.50		mg/Kg	10	6/6/2006 1:03:18 PM
Xylenes, Total	ND	1.5		mg/Kg	10	6/6/2006 1:03:18 PM
Surr: 4-Bromofluorobenzene	118	77.6-114	S	%REC	10	6/6/2006 1:03:18 PM

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits	

# Hall Environmental Analysis Laboratory

Date: 07-Jun-06

<b>CLIENT:</b> Giant Refining Co	<b>Client Sample ID:</b> Pond 2 Bank 3
<b>Lab Order:</b> 0606032	<b>Collection Date:</b> 6/1/2006 10:45:00 AM
<b>Project:</b> Evap. Pond #2 Post Cleanup 6-1-2006	<b>Date Received:</b> 6/2/2006
<b>Lab ID:</b> 0606032-04	<b>Matrix:</b> SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/6/2006 10:17:06 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/6/2006 10:17:06 AM
Surr: DNOP	97.8	61.7-135		%REC	1	6/6/2006 10:17:06 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/6/2006 2:01:31 PM
Surr: BFB	110	81.7-127		%REC	1	6/6/2006 2:01:31 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	6/6/2006 2:01:31 PM
Benzene	ND	0.050		mg/Kg	1	6/6/2006 2:01:31 PM
Toluene	ND	0.050		mg/Kg	1	6/6/2006 2:01:31 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/6/2006 2:01:31 PM
Xylenes, Total	ND	0.15		mg/Kg	1	6/6/2006 2:01:31 PM
Surr: 4-Bromofluorobenzene	107	77.6-114		%REC	1	6/6/2006 2:01:31 PM

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits	

QA/QC SUMMARY REPORT

Client: Giant Refining Co  
 Project: Evap. Pond #2 Post Cleanup 6-1-2006

Work Order: 0606032

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8015									
Sample ID: MB-10554		MBLK							
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-10554		LCS							
Diesel Range Organics (DRO)	47.47	mg/Kg	10	94.9	64.6	116			
Sample ID: LCSD-10554		LCSD							
Diesel Range Organics (DRO)	50.04	mg/Kg	10	100	64.6	116	5.27	17.4	
Method: SW8015									
Sample ID: MB-10550		MBLK							
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-10550		LCS							
Gasoline Range Organics (GRO)	22.40	mg/Kg	5.0	89.6	73.4	115			
Sample ID: LCSD-10550		LCSD							
Gasoline Range Organics (GRO)	22.80	mg/Kg	5.0	91.2	73.4	115	1.77	11.6	
Method: SW8021									
Sample ID: MB-10550		MBLK							
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10						
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.15						
Sample ID: LCS-10550		LCS							
Methyl tert-butyl ether (MTBE)	0.3799	mg/Kg	0.10	95.0	67.9	135			
Benzene	0.3061	mg/Kg	0.050	80.6	77.5	123			
Toluene	1.909	mg/Kg	0.050	90.9	85.3	129			
Ethylbenzene	0.3925	mg/Kg	0.050	101	79.6	121			
Xylenes, Total	2.273	mg/Kg	0.15	108	80	130			
Sample ID: LCSD-10550		LCSD							
Methyl tert-butyl ether (MTBE)	0.3753	mg/Kg	0.10	93.8	67.9	135	1.22	28	
Benzene	0.3074	mg/Kg	0.050	80.9	77.5	123	0.424	27	
Toluene	1.991	mg/Kg	0.050	94.8	85.3	129	4.20	19	
Ethylbenzene	0.4160	mg/Kg	0.050	107	79.6	121	5.81	10	
Xylenes, Total	2.422	mg/Kg	0.15	115	80	130	6.36	13	

Qualifiers:

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



Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

6/2/2006

Work Order Number 0606032

Received by AT

Checklist completed by

*[Handwritten Signature]*

Signature

Date

*6/2/06*

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 - 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

QA/QC Package:

Std  Level 4

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

Client: *Giant Refining*

Project Name: *Evap Pond 2*

Company: *Amigo*

Post Cleanup 6-1-2006

Address: *Route 3 Box 7  
Gallup, NM 87301*

Project #:

Project Manager:

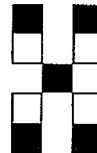
*Steve Smith*

Phone #: *505 722 3833*

Sampler: *Johnny Sanchez*

Fax #: *505 722 0210*

Sample Temperature: *60C*



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

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

## ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.	BTEX + MTBE + THMs (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO <sub>2</sub> , NO <sub>3</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles or Headspace (Y or N)	
					HgCl <sub>2</sub>	HNO <sub>3</sub>															
<i>6/1/06</i>	<i>1000</i>	<i>snw aquifer</i>	<i>Pond 2 Bank ①</i>				<i>060032-1</i>	<i>X</i>		<i>X</i>											
<i>"</i>	<i>1015</i>	<i>"</i>	<i>Pond 2 BTM</i>				<i>-2</i>	<i>X</i>		<i>X</i>											
<i>"</i>	<i>1030</i>	<i>"</i>	<i>Pond 2 Bank ②</i>				<i>-3</i>	<i>X</i>		<i>X</i>											
<i>"</i>	<i>1045</i>	<i>"</i>	<i>Pond 2 Bank ③</i>				<i>-4</i>	<i>X</i>		<i>X</i>											

Date: *6/1/06* Time: Relinquished By: (Signature) *Steve Smith*

Received By: (Signature) *[Signature]* *6/2/06*

Remarks: *RUSH*

Date: Time: Relinquished By: (Signature)

Received By: (Signature) *1232*