

GW - 32

MONITORING REPORTS

DATE:

2006 – Present (2/3)



Giant Refining Company
Route 3, Box 7
Gallup, NM 87301

August 31, 2007

Carl Chavez, Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Brandon Powell
Oil Conservation Division
1000 Rio Bravo Rd
Aztec, NM 87410

Hope Monzeglio
Environmental Engineer
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505

RE: 2006 Annual Groundwater Report (and OCD Addendum), Discharge Permit GW-032

Dear Carl, Hope, and Brandon:

Giant Refining is pleased to submit the 2006 Annual Groundwater Report for our Ciniza Refinery. This report is being submitted to comply with Discharge Permit-032 annual groundwater reporting requirements.

Due to the large number of environmental sampling data laboratory reports from 2006, we have split the report into two binders; the first being the groundwater report proper, and the second, an OCD Addendum containing OCD requested information.

If you have any questions please contact me at (505) 722-0227 or Ed Riege at (505) 722-0217.

Sincerely,

A handwritten signature in black ink, appearing to read "Jim Lieb", written over a circular stamp or mark.

Jim Lieb, Environmental Engineer
Giant Refining, Gallup Refinery

cc: Ed Rios w/o report
Ed Riege w/o report

OIL CONSERVATION DIVISION 2006 ANNUAL GROUNDWATER REPORT

Binder 2: OCD Addendum to Annual Groundwater Report

Giant Refining Company – Gallup Refinery
McKinley County, New Mexico



August 31, 2007

EPA ID No. NMD000333211

Discharge Permit No. GW-032

Prepared By: Jim Lieb, Environmental Engineer, Giant Refining – Gallup Refinery

Signature: [Signature], Date: 8/30/07

Certified By: Ed Rios, General Manager, Giant Refining – Gallup Refinery

Signature: [Signature], Date: 8-31-07

II. OCD Addendum (Binder 2)

Permit Condition 17B (Temporary Land Farm Analysis)



COVER LETTER

Friday, April 07, 2006

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

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

RE: Northeast OCD Landfarm 1st Qtr 2006

Order No.: 0603348

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/31/2006 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



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

Hall Environmental Analysis Laboratory

Date: 07-Apr-06

CLIENT: Giant Refining Co
Lab Order: 0603348
Project: Northeast OCD Landfarm 1st Qtr 2006
Lab ID: 0603348-01

Client Sample ID: NE Landfarm #54-1st Qtr
Collection Date: 3/29/2006 9:30:00 AM
Date Received: 3/31/2006
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	180	10		mg/Kg	1	4/6/2006 11:38:43 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/6/2006 11:38:43 PM
Surr: DNOP	98.9	60-124		%REC	1	4/6/2006 11:38:43 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	4/5/2006 9:26:55 PM
Surr: BFB	107	79-128		%REC	10	4/5/2006 9:26:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	1.0		mg/Kg	10	4/5/2006 9:26:55 PM
Benzene	ND	0.50		mg/Kg	10	4/5/2006 9:26:55 PM
Toluene	ND	0.50		mg/Kg	10	4/5/2006 9:26:55 PM
Ethylbenzene	ND	0.50		mg/Kg	10	4/5/2006 9:26:55 PM
Xylenes, Total	ND	0.50		mg/Kg	10	4/5/2006 9:26:55 PM
Surr: 4-Bromofluorobenzene	100	84.4-117		%REC	10	4/5/2006 9:26:55 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 07-Apr-06

CLIENT: Giant Refining Co
Lab Order: 0603348
Project: Northeast OCD Landfarm 1st Qtr 2006
Lab ID: 0603348-02

Client Sample ID: NE Landfarm #137-1st Qtr
Collection Date: 3/29/2006 9:45:00 AM
Date Received: 3/31/2006
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	3700	100		mg/Kg	10	4/7/2006 12:11:44 AM
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	4/7/2006 12:11:44 AM
Surr: DNOP	94.4	60-124		%REC	10	4/7/2006 12:11:44 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	4/5/2006 9:54:53 PM
Surr: BFB	115	79-128		%REC	10	4/5/2006 9:54:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	1.0		mg/Kg	10	4/5/2006 9:54:53 PM
Benzene	ND	0.50		mg/Kg	10	4/5/2006 9:54:53 PM
Toluene	ND	0.50		mg/Kg	10	4/5/2006 9:54:53 PM
Ethylbenzene	ND	0.50		mg/Kg	10	4/5/2006 9:54:53 PM
Xylenes, Total	ND	0.50		mg/Kg	10	4/5/2006 9:54:53 PM
Surr: 4-Bromofluorobenzene	103	84.4-117		%REC	10	4/5/2006 9:54:53 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 07-Apr-06

CLIENT: Giant Refining Co

Work Order: 0603348

Project: Northeast OCD Landfarm 1st Qtr 2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DRO_S

Sample ID: MB-10113	SampType: MBLK	TestCode: 8015DRO_S	Units: mg/Kg	Prep Date: 4/4/2006	RunNo: 18818						
Client ID: ZZZZZ	Batch ID: 10113	TestNo: SW8015		Analysis Date: 4/5/2006	SeqNo: 467263						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: LCS-10113	SampType: LCS	TestCode: 8015DRO_S	Units: mg/Kg	Prep Date: 4/4/2006	RunNo: 18818						
Client ID: ZZZZZ	Batch ID: 10113	TestNo: SW8015		Analysis Date: 4/5/2006	SeqNo: 467264						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: LCSD-10113	SampType: LCSD	TestCode: 8015DRO_S	Units: mg/Kg	Prep Date: 4/4/2006	RunNo: 18818						
Client ID: ZZZZZ	Batch ID: 10113	TestNo: SW8015		Analysis Date: 4/5/2006	SeqNo: 467265						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38.66	10	50	0	77.4	67.4	117	41.47	6.97	17.4	

Qualifiers: 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 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: Giant Refining Co

Work Order: 0603348

Project: Northeast OCD Landfarm 1st Qtr 2006

TestCode: 8015GRO_S

Sample ID: MB-10098	SampType: MBLK	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date: 3/31/2006	RunNo: 18842
Client ID: ZZZZZ	Batch ID: 10098	TestNo: SW8015	(SW5035)	Analysis Date: 4/5/2006	SeqNo: 467547
Analyte	Result	PQL	SPK value	%REC	LowLimit
			SPK Ref Val	RPD Ref Val	RPDLimit
					Qual

Gasoline Range Organics (GRO) ND 5.0

Qualifiers: E Value above quantitation range ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded R RPD outside accepted recovery limits

J Analyte detected below quantitation limits S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: Giant Refining Co

Work Order: 0603348

Project: Northeast OCD Landfarm 1st Qtr 2006

TestCode: 8021BTEX_S

Sample ID: MB-10098	SampType: MBLK	TestCode: 8021BTEX_S	Units: mg/Kg	Prep Date: 3/31/2006	RunNo: 18842						
Client ID: ZZZZZ	Batch ID: 10098	TestNo: SW8021	(SW5035)	Analysis Date: 4/5/2006	SeqNo: 467531						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	ND	0.10									
Benzene	ND	0.050									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.050									

Sample ID: LCS-10098	SampType: LCS	TestCode: 8021BTEX_S	Units: mg/Kg	Prep Date: 3/31/2006	RunNo: 18842						
Client ID: ZZZZZ	Batch ID: 10098	TestNo: SW8021	(SW5035)	Analysis Date: 4/5/2006	SeqNo: 467532						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	0.4064	0.10	0.4	0	102	65	132				
Benzene	0.4721	0.050	0.452	0	104	85.6	116				
Toluene	1.859	0.050	1.62	0	115	82.4	120				
Ethylbenzene	0.4260	0.050	0.456	0	93.4	86.4	111				
Xylenes, Total	2.002	0.050	1.8	0	111	78.4	125				

Qualifiers:	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	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

3/31/2006

Work Order Number 0603348

Received by AT

Checklist completed by

Signature

Date

3/31/06

Matrix

Carrier name Client drop-off

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?

2°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____



COVER LETTER

Wednesday, June 28, 2006

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

TEL: (505) 722-3833

FAX (505) 722-0210

RE: NE OCD Landfarm 2nd Qtr. 2006

Order No.: 0606174

Dear Steve Morris:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 6/16/2006 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, Inc.

Date: 28-Jun-06

CLIENT: Giant Refining Co
Lab Order: 0606174
Project: NE OCD Landfarm 2nd Qtr. 2006
Lab ID: 0606174-01

Client Sample ID: NEOCDLF#17
Collection Date: 6/15/2006 8:00:00 AM
Date Received: 6/16/2006
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/20/2006 3:13:26 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/20/2006 3:13:26 PM
Surr: DNOP	79.3	61.7-135		%REC	1	6/20/2006 3:13:26 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: HLM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/19/2006 10:38:39 PM
Surr: BFB	91.8	81.7-127		%REC	1	6/19/2006 10:38:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: HLM
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	6/19/2006 10:38:39 PM
Benzene	ND	0.050		mg/Kg	1	6/19/2006 10:38:39 PM
Toluene	ND	0.050		mg/Kg	1	6/19/2006 10:38:39 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/19/2006 10:38:39 PM
Xylenes, Total	ND	0.15		mg/Kg	1	6/19/2006 10:38:39 PM
Surr: 4-Bromofluorobenzene	85.9	76.8-115		%REC	1	6/19/2006 10:38:39 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Jun-06

CLIENT: Giant Refining Co
Lab Order: 0606174
Project: NE OCD Landfarm 2nd Qtr. 2006
Lab ID: 0606174-02

Client Sample ID: NEOCDLF#72
Collection Date: 6/15/2006 8:30:00 AM
Date Received: 6/16/2006
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	60	10		mg/Kg	1	6/21/2006 12:31:15 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/21/2006 12:31:15 PM
Surr: DNOP	152	61.7-135	S	%REC	1	6/21/2006 12:31:15 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: HLM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/19/2006 11:07:47 PM
Surr: BFB	94.9	81.7-127		%REC	1	6/19/2006 11:07:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: HLM
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	6/19/2006 11:07:47 PM
Benzene	ND	0.050		mg/Kg	1	6/19/2006 11:07:47 PM
Toluene	ND	0.050		mg/Kg	1	6/19/2006 11:07:47 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/19/2006 11:07:47 PM
Xylenes, Total	ND	0.15		mg/Kg	1	6/19/2006 11:07:47 PM
Surr: 4-Bromofluorobenzene	92.0	76.8-115		%REC	1	6/19/2006 11:07:47 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: NE OCD Landfarm 2nd Qtr. 2006

Work Order: 0606174

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8015

Batch ID: 10632

Sample ID: MB-10632

MBLK

Analysis Date: 6/20/2006

Diesel Range Organics (DRO) ND mg/Kg 10

Motor Oil Range Organics (MRO) ND mg/Kg 50

Sample ID: LCS-10632

LCS

Analysis Date: 6/20/2006

Diesel Range Organics (DRO) 39.33 mg/Kg 10 78.7 64.6 116

Sample ID: LCSD-10632

LCSD

Analysis Date: 6/20/2006

Diesel Range Organics (DRO) 41.81 mg/Kg 10 83.6 64.6 116 6.11 17.4

Method: SW8015

Batch ID: 10631

Sample ID: MB-10631

MBLK

Analysis Date: 6/19/2006

Gasoline Range Organics (GRO) ND mg/Kg 5.0

Sample ID: LCS-10631

LCS

Analysis Date: 6/19/2006

Gasoline Range Organics (GRO) 19.90 mg/Kg 5.0 79.6 73.4 115

Method: SW8021

Batch ID: 10631

Sample ID: MB-10631

MBLK

Analysis Date: 6/19/2006

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-10631

LCS

Analysis Date: 6/19/2006

Methyl tert-butyl ether (MTBE) 0.3825 mg/Kg 0.10 109 67.9 135

Benzene 0.2930 mg/Kg 0.050 91.6 77.5 123

Toluene 1.783 mg/Kg 0.050 89.2 85.3 129

Ethylbenzene 0.3907 mg/Kg 0.050 100 79.6 121

Xylenes, Total 2.170 mg/Kg 0.15 103 80 130

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, Inc.

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

5/16/2006

Work Order Number 0606174

Received by GLS

Checklist completed by

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 - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
Container/Temp Blank temperature?	3°	4° C ± 2 Acceptable If given sufficient time to cool.	

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____



COVER LETTER

Monday, October 16, 2006

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

TEL: (505) 722-3833

FAX (505) 722-0210

RE: N.E. OCD Landfarm 9-28-2006

Order No.: 0609378

Dear Steve Morris:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 9/29/2006 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

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001



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

Hall Environmental Analysis Laboratory, Inc.

Date: 16-Oct-06

CLIENT:	Giant Refining Co	Client Sample ID:	NE-OCD-25
Lab Order:	0609378	Collection Date:	9/28/2006 8:00:00 AM
Project:	N.E. OCD Landfarm 9-28-2006	Date Received:	9/29/2006
Lab ID:	0609378-01	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	2900	100		mg/Kg	10	10/12/2006 2:19:07 PM
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	10/12/2006 2:19:07 PM
Surr: DNOP	0	61.7-135	S	%REC	10	10/12/2006 2:19:07 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	10/9/2006 11:04:19 PM
Surr: BFB	85.4	81.7-129		%REC	10	10/9/2006 11:04:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	1.0		mg/Kg	10	10/9/2006 11:04:19 PM
Benzene	ND	0.50		mg/Kg	10	10/9/2006 11:04:19 PM
Toluene	ND	0.50		mg/Kg	10	10/9/2006 11:04:19 PM
Ethylbenzene	ND	0.50		mg/Kg	10	10/9/2006 11:04:19 PM
Xylenes, Total	ND	1.5		mg/Kg	10	10/9/2006 11:04:19 PM
Surr: 4-Bromofluorobenzene	85.0	76.8-115		%REC	10	10/9/2006 11:04:19 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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: 16-Oct-06

CLIENT:	Giant Refining Co	Client Sample ID:	NE-OCD-126
Lab Order:	0609378	Collection Date:	9/28/2006 8:15:00 AM
Project:	N.E. OCD Landfarm 9-28-2006	Date Received:	9/29/2006
Lab ID:	0609378-02	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	380	10		mg/Kg	1	10/8/2006 12:36:04 AM
Motor Oil Range Organics (MRO)	78	50		mg/Kg	1	10/8/2006 12:36:04 AM
Surr: DNOP	75.6	61.7-135		%REC	1	10/8/2006 12:36:04 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	10/9/2006 11:34:53 PM
Surr: BFB	85.0	81.7-129		%REC	5	10/9/2006 11:34:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	5	10/9/2006 11:34:53 PM
Benzene	ND	0.25		mg/Kg	5	10/9/2006 11:34:53 PM
Toluene	ND	0.25		mg/Kg	5	10/9/2006 11:34:53 PM
Ethylbenzene	ND	0.25		mg/Kg	5	10/9/2006 11:34:53 PM
Xylenes, Total	ND	0.75		mg/Kg	5	10/9/2006 11:34:53 PM
Surr: 4-Bromofluorobenzene	84.6	76.8-115		%REC	5	10/9/2006 11:34:53 PM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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: Giant Refining Co
Project: N.E. OCD Landfarm 9-28-2006

Work Order: 0609378

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8015									
Sample ID: MB-11405		MBLK			Batch ID: 11405		Analysis Date: 10/3/2006 12:32:54 AM		
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-11405		LCS			Batch ID: 11405		Analysis Date: 10/3/2006 1:07:44 AM		
Diesel Range Organics (DRO)	42.70	mg/Kg	10	85.4	64.6	116			
Sample ID: LCSD-11405		LCSD			Batch ID: 11405		Analysis Date: 10/3/2006 1:42:28 AM		
Diesel Range Organics (DRO)	45.94	mg/Kg	10	91.9	64.6	116	7.31	17.4	
Method: SW8015									
Sample ID: MB-11411		MBLK			Batch ID: 11411		Analysis Date: 10/9/2006 7:31:18 PM		
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-11411		LCS			Batch ID: 11411		Analysis Date: 10/9/2006 8:01:46 PM		
Gasoline Range Organics (GRO)	20.10	mg/Kg	5.0	80.4	73.4	115			
Method: SW8021									
Sample ID: MB-11411		MBLK			Batch ID: 11411		Analysis Date: 10/9/2006 7:31:18 PM		
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-11411		LCS			Batch ID: 11411		Analysis Date: 10/9/2006 8:01:46 PM		
Methyl tert-butyl ether (MTBE)	0.6819	mg/Kg	0.10	195	67.9	135			S
Benzene	0.2878	mg/Kg	0.050	79.3	77.5	123			
Toluene	1.778	mg/Kg	0.050	87.2	85.3	129			
Ethylbenzene	0.3534	mg/Kg	0.050	81.9	79.6	121			
Xylenes, Total	2.023	mg/Kg	0.15	92.9	80	130			

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 RPD recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

9/29/2006

Work Order Number 0609378

Received by AT

Checklist completed by

Signature

Date

Matrix

Carrier name Client drop-off

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?

5°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

Client: *Giant Refining
Company - Virginia*
Address: *Route 3 Box 7
Gallop, NM 87301*

Other:

Project Name: N.E. OCD

Landform 9-28-2006
~~Remediation~~ Remediation Check.

Project Manager:

Steve Morris

Sampler:

Sample Temperature:

Number/Volume

Preservative

[illegible]

HEAL No.

8156021

9-28-06	0800	Sail	NE-0CD-25
"	0815	"	NE-0CD-126

Date:	9/29/06	Time:	1035
-------	---------	-------	------

Relinquished By: (Signature)

Received By: (Signature)

Date:	Time:
-------	-------

Relinquished By: (Signature)

Received By: (Signature)

1035

Client: *Giant Refining
Company - Virginia*
Address: *Route 3 Box 7
Gallop, NM 87301*

Other:

Project Name: N.E. OCD

Landform 9-28-2006
~~Remediation~~ Remediation Check.

Project Manager:

Steve Morris

Sampler:

Sample Temperature:

Number/Volume

Preservative

--	--

HEAL No.

8156021

9-28-06	0800	Sail	NE-0CD-25
"	0815	"	NE-0CD-126

Date:	9/29/06
Time:	1035

Relinquished By: (Signature)

Received By: (Signature)

Date:	Time:
-------	-------

Relinquished By: (Signature)

Received By: (Signature)

1035

4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.3976
www.hallenvironmental.com

ANALYSIS REQUEST

[illegible]



COVER LETTER

Wednesday, November 15, 2006

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

TEL: (505) 722-3833

FAX (505) 722-0210

RE: NE-OCD Landfarm 4th Qtr. 2006 & Annual

Order No.: 0611011

Dear Steve Morris:

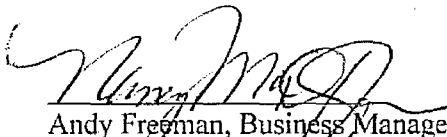
Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 11/1/2006 for the analyses presented in the following report.

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

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001



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-Nov-06

CLIENT: Giant Refining Co
Project: NE-OCD Landfarm 4th Qtr. 2006 & Annual Par

Lab Order: 0611011

Lab ID: 0611011-01

Collection Date: 10/30/2006 11:30:00 AM

Client Sample ID: NE-OCD-LF

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/2/2006 5:51:58 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/2/2006 5:51:58 PM
Surr: DNOP	83.2	61.7-135		%REC	1	11/2/2006 5:51:58 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/6/2006 11:55:09 AM
Surr: BFB	113	84.5-129		%REC	1	11/6/2006 11:55:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	11/6/2006 11:55:09 AM
Toluene	ND	0.050		mg/Kg	1	11/6/2006 11:55:09 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2006 11:55:09 AM
Xylenes, Total	ND	0.15		mg/Kg	1	11/6/2006 11:55:09 AM
Surr: 4-Bromofluorobenzene	82.3	76.8-115		%REC	1	11/6/2006 11:55:09 AM
EPA METHOD 9056A: ANIONS						Analyst: TES
Fluoride	2.1	1.5		mg/Kg	5	11/9/2006 2:59:29 AM
Chloride	100	1.5		mg/Kg	5	11/9/2006 2:59:29 AM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	11/9/2006 2:59:29 AM
Nitrogen, Nitrate (As N)	15	1.5		mg/Kg	5	11/9/2006 2:59:29 AM
Phosphorus, Orthophosphate (As P)	ND	7.5		mg/Kg	5	11/9/2006 2:59:29 AM
Sulfate	110	7.5		mg/Kg	5	11/9/2006 2:59:29 AM
EPA METHOD 7471: MERCURY						Analyst: MAP
Mercury	ND	0.033		mg/Kg	1	11/13/2006
EPA METHOD 6010B: SOIL METALS						Analyst: NMO
Arsenic	ND	12		mg/Kg	5	11/9/2006 11:29:16 AM
Barium	360	1.0		mg/Kg	10	11/9/2006 12:01:11 PM
Cadmium	ND	0.50		mg/Kg	5	11/9/2006 11:29:16 AM
Calcium	20000	120		mg/Kg	5	11/9/2006 11:29:16 AM
Chromium	8.4	1.5		mg/Kg	5	11/9/2006 11:29:16 AM
Lead	9.2	1.2		mg/Kg	5	11/9/2006 11:29:16 AM
Magnesium	4500	120		mg/Kg	5	11/9/2006 1:25:13 PM
Potassium	1000	250		mg/Kg	5	11/9/2006 11:29:16 AM
Selenium	ND	12		mg/Kg	5	11/9/2006 11:29:16 AM
Silver	ND	1.2		mg/Kg	5	11/9/2006 11:29:16 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
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

Page 1 of 2

Hall Environmental Analysis Laboratory, Inc.

Date: 15-Nov-06

CLIENT: Giant Refining Co
Project: NE-OCD Landfarm 4th Qtr. 2006 & Annual Par

Lab Order: 0611011

EPA METHOD 6010B: SOIL METALS

Sodium

620

120

mg/Kg

5

Analyst: NMO
11/9/2006 11:29:16 AM**EPA METHOD 150.1: PH**

pH

8.50

0.010

pH Units

1

Analyst: CMS
11/7/2006**Qualifiers:**

* Value exceeds Maximum Contaminant Level
E Value above quantitation range
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

Page 2 of 2

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: NE-OCD Landfarm 4th Qtr. 2006 & Annual Par

Work Order: 0611011

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW9055A									
Sample ID: MB-11684		MBLK			Batch ID: 11684	Analysis Date: 11/8/2006 8:01:40 PM			
Fluoride	ND	mg/Kg	0.30						
Chloride	ND	mg/Kg	0.30						
Nitrogen, Nitrite (As N)	ND	mg/Kg	0.30						
Nitrogen, Nitrate (As N)	ND	mg/Kg	0.30						
Phosphorus, Orthophosphate (As P)	ND	mg/Kg	1.5						
Sulfate	ND	mg/Kg	1.5						
Sample ID: LCS-11684		LCS			Batch ID: 11684	Analysis Date: 11/8/2006 8:19:05 PM			
Fluoride	1.533	mg/Kg	0.30	102	90	110			
Chloride	14.80	mg/Kg	0.30	98.6	90	110			
Nitrogen, Nitrite (As N)	3.207	mg/Kg	0.30	107	90	110			
Nitrogen, Nitrate (As N)	7.224	mg/Kg	0.30	96.3	90	110			
Phosphorus, Orthophosphate (As P)	15.73	mg/Kg	1.5	105	90	110			
Sulfate	29.48	mg/Kg	1.5	98.3	90	110			
Method: SW8015									
Sample ID: MB-11639		MBLK			Batch ID: 11639	Analysis Date: 11/2/2006 1:46:11 PM			
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-11639		LCS			Batch ID: 11639	Analysis Date: 11/2/2006 2:21:15 PM			
Diesel Range Organics (DRO)	40.92	mg/Kg	10	81.8	64.6	116			
Sample ID: LCSD-11639		LCSD			Batch ID: 11639	Analysis Date: 11/2/2006 2:56:19 PM			
Diesel Range Organics (DRO)	48.54	mg/Kg	10	97.1	64.6	116	17.0	17.4	
Method: SW8015									
Sample ID: 0611011-01A MSD		MSD			Batch ID: 11649	Analysis Date: 11/6/2006 12:56:06 PM			
Gasoline Range Organics (GRO)	26.30	mg/Kg	5.0	105	73.4	115	0.380	11.6	
Sample ID: MB-11649		MBLK			Batch ID: 11649	Analysis Date: 11/6/2006 10:53:29 AM			
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-11649		LCS			Batch ID: 11649	Analysis Date: 11/6/2006 11:24:10 AM			
Gasoline Range Organics (GRO)	25.40	mg/Kg	5.0	102	73.4	115			
Sample ID: 0611011-01A MS		MS			Batch ID: 11649	Analysis Date: 11/6/2006 12:25:57 PM			
Gasoline Range Organics (GRO)	26.40	mg/Kg	5.0	106	73.4	115			

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

Page 1

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: NE-OCD Landfarm 4th Qtr. 2006 & Annual Par

Work Order: 0611011

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8021

Sample ID: 0611011-01A MSD

MSD

Batch ID: 11649 Analysis Date: 11/6/2006 12:56:06 PM

Benzene	0.2705	mg/Kg	0.050	84.5	77.5	123	0.966	27
Toluene	1.752	mg/Kg	0.050	86.3	82.3	129	2.26	19
Ethylbenzene	0.3496	mg/Kg	0.050	89.6	79.6	121	1.50	10
Xylenes, Total	1.963	mg/Kg	0.15	90.6	80	130	1.70	13

Sample ID: MB-11649

MBLK

Batch ID: 11649 Analysis Date: 11/7/2006 11:22:35 AM

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-11649

LCS

Batch ID: 11649 Analysis Date: 11/6/2006 11:24:10 AM

Benzene	0.2570	mg/Kg	0.050	80.3	77.5	123		
Toluene	1.660	mg/Kg	0.050	83.0	82.3	129		
Ethylbenzene	0.3248	mg/Kg	0.050	83.3	79.6	121		
Xylenes, Total	1.848	mg/Kg	0.15	88.0	80	130		

Sample ID: 0611011-01A MS

MS

Batch ID: 11649 Analysis Date: 11/6/2006 12:25:57 PM

Benzene	0.2679	mg/Kg	0.050	83.7	77.5	123		
Toluene	1.713	mg/Kg	0.050	84.4	82.3	129		
Ethylbenzene	0.3444	mg/Kg	0.050	88.3	79.6	121		
Xylenes, Total	1.930	mg/Kg	0.15	89.0	80	130		

Method: SW7471

Sample ID: MB-11739

MBLK

Batch ID: 11739 Analysis Date: 11/13/2006

Mercury	ND	mg/Kg	0.033					
---------	----	-------	-------	--	--	--	--	--

Sample ID: LCS-11739

LCS

Batch ID: 11739 Analysis Date: 11/13/2006

Mercury	0.1680	mg/Kg	0.033	101	80	120		
---------	--------	-------	-------	-----	----	-----	--	--

Qualifiers:

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
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Giant Refining Co
Project: NE-OCD Landfarm 4th Qtr. 2006 & Annual Par

Work Order: 0611011

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW6010A

Sample ID: MB-11677 **MBLK** **Batch ID:** 11677 **Analysis Date:** 11/9/2006 10:31:33 AM

Arsenic	ND	mg/Kg	2.5						
Barium	ND	mg/Kg	0.10						
Cadmium	ND	mg/Kg	0.10						
Calcium	ND	mg/Kg	25						
Chromium	ND	mg/Kg	0.30						
Lead	ND	mg/Kg	0.25						
Potassium	ND	mg/Kg	50						
Selenium	ND	mg/Kg	2.5						
Silver	ND	mg/Kg	0.25						
Sodium	ND	mg/Kg	25						

Sample ID: MB-11677 **MBLK** **Batch ID:** 11677 **Analysis Date:** 11/9/2006 1:12:49 PM

Magnesium **ND** **mg/Kg** **25**

Sample ID: LCS-11677 **LCS** **Batch ID:** 11677 **Analysis Date:** 11/9/2006 10:22:40 AM

Arsenic	26.17	mg/Kg	2.5	105	80	120			
Barium	24.59	mg/Kg	0.10	98.3	80	120			
Cadmium	24.59	mg/Kg	0.10	98.3	80	120			
Calcium	2398	mg/Kg	25	95.9	80	120			
Chromium	24.24	mg/Kg	0.30	96.9	80	120			
Lead	24.46	mg/Kg	0.25	97.8	80	120			
Potassium	2644	mg/Kg	50	106	80	120			
Selenium	19.76	mg/Kg	2.5	79.0	80	120			S
Silver	23.78	mg/Kg	0.25	95.1	80	120			
Sodium	2641	mg/Kg	25	106	80	120			

Sample ID: LCS-11677 **LCS** **Batch ID:** 11677 **Analysis Date:** 11/9/2006 1:14:40 PM

Magnesium **2372** **mg/Kg** **25** **94.5** **80** **120**

Qualifiers:

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
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

11/1/2006

Work Order Number 0611011

Received by AT

Checklist completed by

Signature

Date

Matrix

Carrier name Client drop-off

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?

3°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

COVER LETTER

Friday, April 07, 2006

Steve Morris
Giant Refining Co
Rt. 3 Box 7
Gallup, NM 87301
TEL: (505) 722-3833
FAX (505) 722-0210
RE: NE OCD Landfarm Lift

Order No.: 0603346

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/31/2006 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-Apr-06

CLIENT: Giant Refining Co
Lab Order: 0603346
Project: NE OCD Landfarm Lift
Lab ID: 0603346-01

Client Sample ID: NE Landfarm #34 Lift
Collection Date: 3/29/2006 10:10:00 AM
Date Received: 3/31/2006
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	1700	100		mg/Kg	10	4/6/2006 9:59:32 PM
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	4/6/2006 9:59:32 PM
Surr: DNOP	77.5	60-124		%REC	10	4/6/2006 9:59:32 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	4/5/2006 7:35:05 PM
Surr: BFB	108	79-128		%REC	10	4/5/2006 7:35:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	1.0		mg/Kg	10	4/5/2006 7:35:05 PM
Benzene	ND	0.50		mg/Kg	10	4/5/2006 7:35:05 PM
Toluene	ND	0.50		mg/Kg	10	4/5/2006 7:35:05 PM
Ethylbenzene	ND	0.50		mg/Kg	10	4/5/2006 7:35:05 PM
Xylenes, Total	ND	0.50		mg/Kg	10	4/5/2006 7:35:05 PM
Surr: 4-Bromofluorobenzene	99.8	84.4-117		%REC	10	4/5/2006 7:35:05 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 07-Apr-06

CLIENT: Giant Refining Co
Lab Order: 0603346
Project: NE OCD Landfarm Lift
Lab ID: 0603346-02

Client Sample ID: NE Landfarm #117-Lift
Collection Date: 3/29/2006 10:30:00 AM
Date Received: 3/31/2006
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	990	100		mg/Kg	10	4/6/2006 10:32:35 PM
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	4/6/2006 10:32:35 PM
Surr: DNOP	73.4	60-124		%REC	10	4/6/2006 10:32:35 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	4/5/2006 8:59:01 PM
Surr: BFB	108	79-128		%REC	10	4/5/2006 8:59:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	1.0		mg/Kg	10	4/5/2006 8:59:01 PM
Benzene	ND	0.50		mg/Kg	10	4/5/2006 8:59:01 PM
Toluene	ND	0.50		mg/Kg	10	4/5/2006 8:59:01 PM
Ethylbenzene	ND	0.50		mg/Kg	10	4/5/2006 8:59:01 PM
Xylenes, Total	ND	0.50		mg/Kg	10	4/5/2006 8:59:01 PM
Surr: 4-Bromofluorobenzene	98.8	84.4-117		%REC	10	4/5/2006 8:59:01 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 07-Apr-06

ANALYTICAL QC SUMMARY REPORT

CLIENT: Giant Refining Co

Work Order: 0603346

Project: NE OCD Landfarm Lift

TestCode: 8015DRO_S

Sample ID: MB-10113	SampType: MBLK	TestCode: 8015DRO_S	Units: mg/Kg	Prep Date: 4/4/2006	RunNo: 18818						
Client ID: ZZZZZ	Batch ID: 10113	TestNo: SW8015		Analysis Date: 4/5/2006	SeqNo: 467263						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: LCS-10113	SampType: LCS	TestCode: 8015DRO_S	Units: mg/Kg	Prep Date: 4/4/2006	RunNo: 18818						
Client ID: ZZZZZ	Batch ID: 10113	TestNo: SW8015		Analysis Date: 4/5/2006	SeqNo: 467264						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41.47	10	50	0	82.9	67.4	117				

Sample ID: LCSD-10113	SampType: LCSD	TestCode: 8015DRO_S	Units: mg/Kg	Prep Date: 4/4/2006	RunNo: 18818						
Client ID: ZZZZZ	Batch ID: 10113	TestNo: SW8015		Analysis Date: 4/5/2006	SeqNo: 467265						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38.68	10	50	0	77.4	67.4	117	41.47	6.97	17.4	

Qualifiers: 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 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT:

Giant Refining Co

Work Order:

0603346

Project:

NE OCD Landfarm Lift

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GRO_S

Sample ID: MB-10098	SampleType: MBLK	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date: 3/31/2006	RunNo: 18842						
Client ID: ZZZZZ	Batch ID: 10098	TestNo: SW8015	(SW5035)	Analysis Date: 4/5/2006	SeqNo: 467547						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)

5.0

ND

Qualifiers:

E Value above quantitation range

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
 Work Order: 0603346
 Project: NE OCD Landfarm Lift

ANALYTICAL QC SUMMARY REPORT

TestCode: 8021BTEx_S

Sample ID: MB-10098	SampType: MBLK	TestCode: 8021BTEx_S	Units: mg/Kg	Prep Date: 3/31/2006	RunNo: 18842						
Client ID: ZZZZZ	Batch ID: 10098	TestNo: SW8021	(SW5035)	Analysis Date: 4/5/2006	SeqNo: 467531						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)
 Benzene
 Toluene
 Ethylbenzene
 Xylenes, Total

Sample ID: LCS-10098	SampType: LCS	TestCode: 8021BTEx_S	Units: mg/Kg	Prep Date: 3/31/2006	RunNo: 18842						
Client ID: ZZZZZ	Batch ID: 10098	TestNo: SW8021	(SW5035)	Analysis Date: 4/5/2006	SeqNo: 467532						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)
 Benzene
 Toluene
 Ethylbenzene
 Xylenes, Total

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

3/31/2006

Work Order Number 0603346

Received by AT

Checklist completed by

Signature

Date

3/31/06

Matrix

Carrier name Client drop-off

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?

2°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Permit Condition 19A (Examples of Weekly Pond Inspections)

**CINIZA REFINERY
OCD DISCHARGE PLAN GW-032
WEEKLY POND INSPECTION**

DATE: 1-4-06
INSPECTED BY: Johnny Sanchez

POND #	FREEBOARD	DIKE CONDITION	IMMEDIATE ACTION NEEDED?
1	<u>OK</u>	<u>OK</u>	<u>Nope</u>
2			
3			
4			
5			
6a			
6b			
7			
8			
9a			
9b			
9c			
9d			
11			
12a			
12b			

COMMENTS: _____

Check all ponds weekly for dike condition and freeboards. Check also for unusual flow from or into the ponds.

**CINIZA REFINERY
OCD DISCHARGE PLAN GW-032
WEEKLY POND INSPECTION**

DATE: 3/1/06

INSPECTED BY: SIM LIEB / JOHNNY SANCHEZ

POND #	FREEBOARD	DIKE CONDITION	IMMEDIATE ACTION NEEDED?
1	OK	OK	NONE
2			
3			
4			
5			
6a			
6b			
7			
8			
9a			
9b			
9c			
9d			
11			
12a			
12b			

COMMENTS: _____

Check all ponds weekly for dike condition and freeboards. Check also for unusual flow from or into the ponds.

**CINIZA REFINERY
OCD DISCHARGE PLAN GW-032
WEEKLY POND INSPECTION**

DATE: 7-3-06

INSPECTED BY: Johnny Sanchez

POND #	FREEBOARD	DIKE CONDITION	IMMEDIATE ACTION NEEDED?
1	<u>OK</u>	<u>OK</u>	<u>None</u>
2			
3			
4			
5			
6a			
6b			
7			
8			
9a			
9b			
9c			
9d			
11			
12a			
12b			

COMMENTS: _____

Check all ponds weekly for dike condition and freeboards. Check also for unusual flow from or into the ponds.

**CINIZA REFINERY
OCD DISCHARGE PLAN GW-032
WEEKLY POND INSPECTION**

DATE: 7-10-06

INSPECTED BY: Johnny Sanchez

POND #	FREEBOARD	DIKE CONDITION	IMMEDIATE ACTION NEEDED?
1	<u>OK</u>	<u>OK</u>	<u>NONE</u>
2			
3			
4			
5			
6a			
6b			
7			
8			
9a			
9b			
9c			
9d			
11			
12a			
12b			

COMMENTS: _____

Check all ponds weekly for dike condition and freeboards. Check also for unusual flow from or into the ponds.

**CINIZA REFINERY
OCD DISCHARGE PLAN GW-032
WEEKLY POND INSPECTION**

DATE: 12/20/00

INSPECTED BY: Chaf Johnson

POND #	FREEBOARD	DIKE CONDITION	IMMEDIATE ACTION NEEDED?
1	<u>ok</u>	<u>ok</u>	<u>None</u>
2	/	/	/
3			
4			
5			
6a			
6b			
7			
8			
9a			
9b			
9c			
9d			
11			
12a			
12b			

COMMENTS: Ref Chem working on SPE pond

Check all ponds weekly for dike condition and freeboards. Check also for unusual flow from or into the ponds.

**CINIZA REFINERY
OCD DISCHARGE PLAN GW-032
WEEKLY POND INSPECTION**

DATE: 12/13/00

INSPECTED BY: C. [Signature]

POND #	FREEBOARD	DIKE CONDITION	IMMEDIATE ACTION NEEDED?
1	<u>OK</u>	<u>OK</u>	<u>NO</u>
2	<u>/</u>	<u>/</u>	<u>/</u>
3	<u>/</u>	<u>/</u>	<u>/</u>
4	<u>/</u>	<u>/</u>	<u>/</u>
5	<u>/</u>	<u>/</u>	<u>/</u>
6a	<u>/</u>	<u>/</u>	<u>/</u>
6b	<u>/</u>	<u>/</u>	<u>/</u>
7	<u>/</u>	<u>/</u>	<u>/</u>
8	<u>/</u>	<u>/</u>	<u>/</u>
9a	<u>/</u>	<u>/</u>	<u>/</u>
9b	<u>/</u>	<u>/</u>	<u>/</u>
9c	<u>/</u>	<u>/</u>	<u>/</u>
9d	<u>/</u>	<u>/</u>	<u>/</u>
11	<u>/</u>	<u>/</u>	<u>/</u>
12a	<u>/</u>	<u>/</u>	<u>/</u>
12b	<u>/</u>	<u>/</u>	<u>/</u>

COMMENTS: _____

Check all ponds weekly for dike condition and freeboards. Check also for unusual flow from or into the ponds.

OCD Permit Condition 21:

A. Summary of All Major Refinery Activities or Events in 2006 (All months in 2006)

January: Nothing of note.

February: The Remedy Completion Report for the Railroad Rack Lagoon (SWMU 8) was delivered to NMED HWB in Santa Fe.

March: On March 28th, a meeting was held at Ciniza with OCD and NMED HWB. An inspection of the refinery followed the meeting.

April: Trihydro dye tracing of storm sewers performed.

May: Cleanup of the Lagoons and Ponds banks conducted.

June: Trihydro's dye trace study report submitted to OCD and NMED HWB.

July: Nothing of note

August: Flow meter and flumes design submitted to OCD and NMED HWB. Ciniza's Annual Ground Water Report was delivered to NMED HWB and OCD. The soil sampling workplan for investigation of the Trench and Fan-out portions of the RR Rack lagoon was submitted to OCD and NMED HWB.

September: Installation of flumes began.

October: There was a fire in the Alkylation Unit on October 5. There was an OCD inspection on October 11 in response to the fire. A sub-surface investigation of the trench and fan-out area was conducted by Trihydro. Ciniza environmental participated in a spill boom deployment training exercise at Giant's Bloomfield refinery.

November: Nothing of note.

December: Annual Hazwoper training at NMU Gallup campus. RCRA/Storm Water/SPCC training conducted. There was a fire at the DH2 heater in the ULSD Hydrotreating Unit on December 27th. Potable Well No. 1 was plugged and sealed. There was a large spill of crude at Tank 102 on December 31.

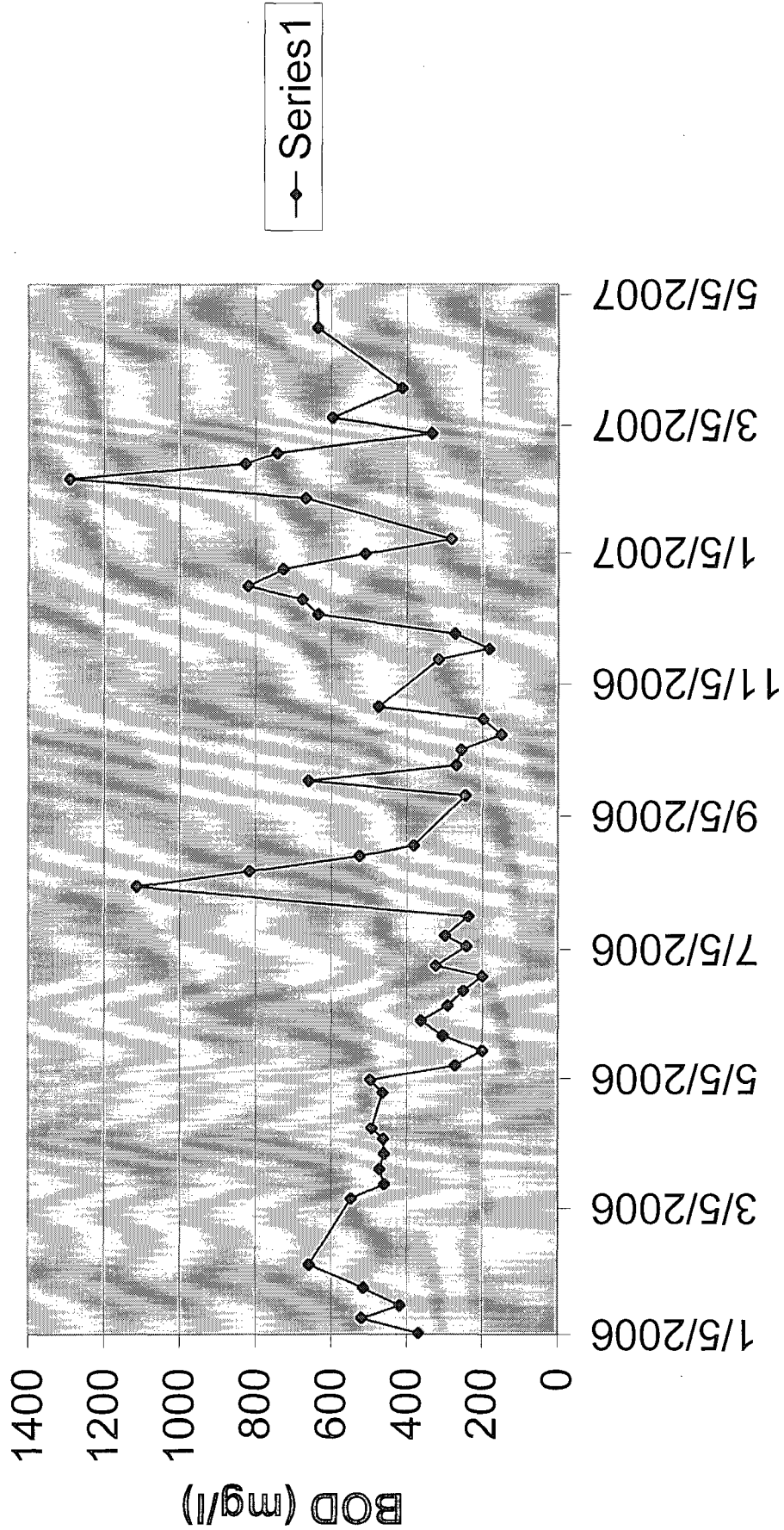
OCD Permit Condition 21:

b. Results of All Sampling and Monitoring Events

**BOD and COD Concentrations
luent to Evaporation Pond 2**

Date Sampled	BOD (mg/l)	COD (mg/l)	No. Aerators Running
5/9/2007	636	1690	5
4/19/2007	635	1710	5
3/22/2007	412	1180	5
3/8/2007	596	1980	5
3/1/2007	334	2440	5
2/20/2007	743	1800	5
2/15/2007	827	2050	5
2/8/2007	1290	3490	5
1/30/2007	666	1860	5
1/11/2007	282	2200	5
1/4/2007	510	1980	5
12/28/2006	727	2220	5
12/20/2006	819	2500	5
12/14/2006	675	2410	5
12/7/2006	634	1360	5
11/28/2006	272	975	5
11/21/2006	182	600	5
11/16/2006	316	532	5
10/25/2006	474	1040	5
10/19/2006	197	578	5
10/12/2006	150	707	5
10/5/2006	256	732	5
9/28/2006	270	1110	5
9/21/2006	660	1120	5
9/14/2006	246	884	5
8/22/2006	381	1050	5
8/17/2006	525	976	5
8/10/2006	816	1470	5
8/3/2006	1114	1930	5
7/20/2006	237	783	5
7/11/2006	298	773	5
7/6/2006	242	795	5
6/27/2006	323	800	4
6/22/2006	200	867	5
6/15/2006	251	829	5
6/8/2006	292	963	5
6/1/2006	363	1080	5
5/25/2006	304	1120	5
5/18/2006	200	988	5
5/11/2006	272	1010	5
5/4/2006	496	1180	5
4/28/2006	463	1210	5
4/11/2006	493	1480	5
4/6/2006	461	1330	5
3/30/2006	459	1470	5
3/23/2006	471	1460	5
3/16/2006	459	1480	5
3/9/2006	547	1430	5
2/6/2006	658	2860	5
1/26/2006	515	1950	5
1/18/2006	418	1100	5
1/12/2006	519	1300	5
1/5/2006	369	1390	5

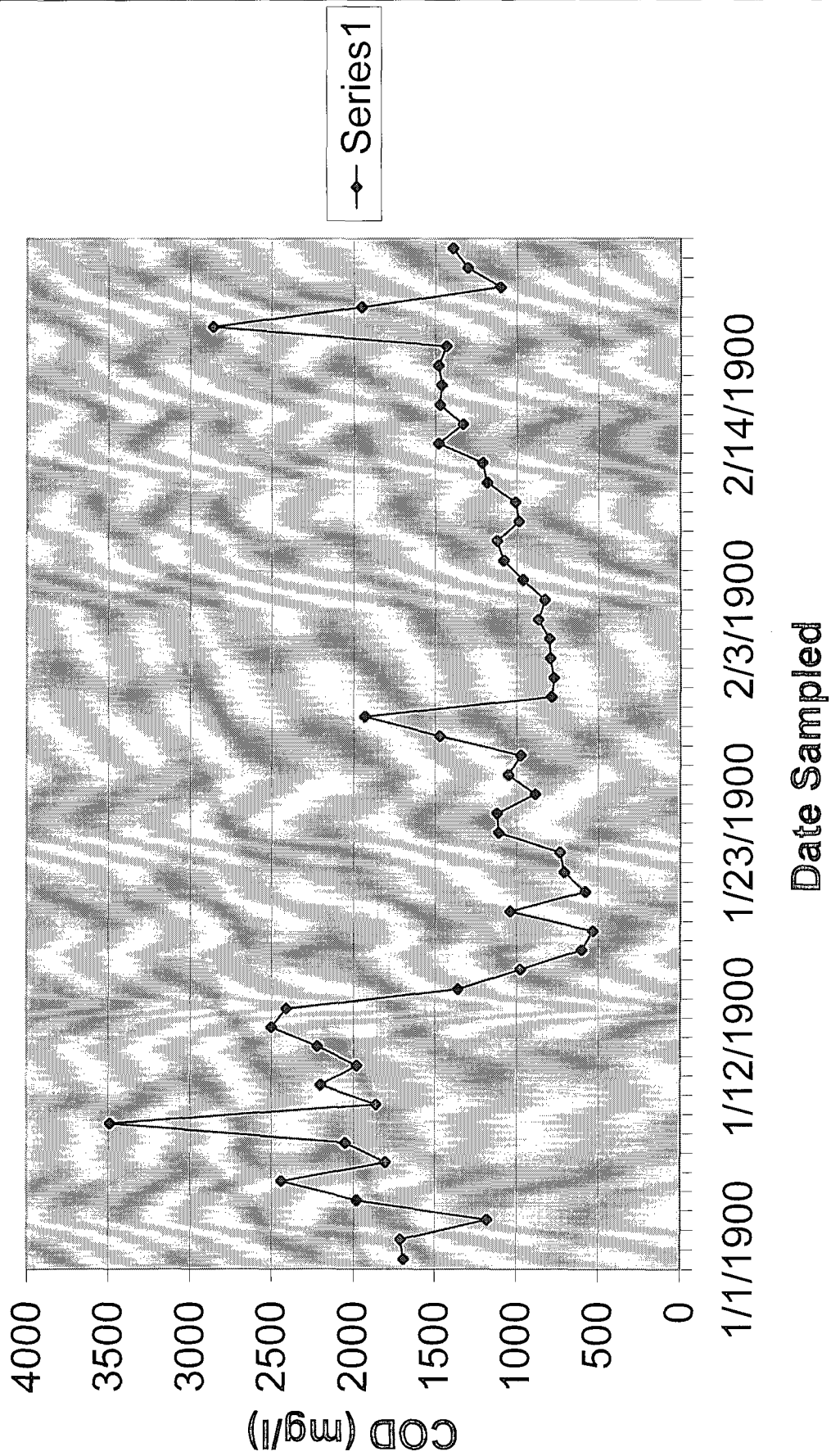
BOD - EP2 net



Date Sampled

Series1

COD EP2 Inlet





COVER LETTER

Wednesday, January 25, 2006

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

TEL: (505) 722-0258

FAX (505) 722-0210

RE: OAPIS Week of 1/6/2006

Order No.: 0601055

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/6/2006 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: 25-Jan-06

CLIENT: Giant Refining Co
Lab Order: 0601055
Project: OAPIS Week of 1/6/2006
Lab ID: 0601055-01

Client Sample ID: OAPIS
Collection Date: 1/4/2006 2:30:00 PM
Date Received: 1/6/2006
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	1.2	1.0		mg/L	1	1/9/2006 6:56:04 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/9/2006 6:56:04 PM
Surr: DNOP	119	58-140		%REC	1	1/9/2006 6:56:04 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	2.1	0.50		mg/L	10	1/13/2006 11:39:59 AM
Surr: BFB	106	79.7-118		%REC	10	1/13/2006 11:39:59 AM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	200	12		µg/L	5	1/23/2006 4:19:23 PM
1-Methylnaphthalene	27	2.5		µg/L	1	1/16/2006 11:10:35 PM
2-Methylnaphthalene	5.8	2.5		µg/L	1	1/16/2006 11:10:35 PM
Acenaphthylene	ND	2.5		µg/L	1	1/16/2006 11:10:35 PM
Acenaphthene	6.0	2.5		µg/L	1	1/16/2006 11:10:35 PM
Fluorene	7.0	0.80		µg/L	1	1/16/2006 11:10:35 PM
Phenanthrene	ND	0.60		µg/L	1	1/16/2006 11:10:35 PM
Anthracene	ND	0.60		µg/L	1	1/16/2006 11:10:35 PM
Fluoranthene	ND	0.30		µg/L	1	1/16/2006 11:10:35 PM
Pyrene	0.51	0.30		µg/L	1	1/16/2006 11:10:35 PM
Benz(a)anthracene	0.050	0.020		µg/L	1	1/16/2006 11:10:35 PM
Chrysene	ND	0.20		µg/L	1	1/16/2006 11:10:35 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	1/16/2006 11:10:35 PM
Benzo(k)fluoranthene	0.040	0.020		µg/L	1	1/16/2006 11:10:35 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	1/16/2006 11:10:35 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	1/16/2006 11:10:35 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	1/16/2006 11:10:35 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	1/16/2006 11:10:35 PM
Surr: Benzo(e)pyrene	90.0	54-102		%REC	1	1/16/2006 11:10:35 PM
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	ND	0.00020		mg/L	1	1/9/2006
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: CMC
Arsenic	ND	0.020		mg/L	1	1/16/2006 2:22:17 PM
Barium	0.23	0.020		mg/L	1	1/16/2006 2:22:17 PM
Cadmium	ND	0.0020		mg/L	1	1/16/2006 2:22:17 PM
Chromium	0.0093	0.0060		mg/L	1	1/16/2006 2:22:17 PM
Lead	ND	0.0050		mg/L	1	1/16/2006 2:22:17 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 25-Jan-06

CLIENT: Giant Refining Co
Lab Order: 0601055
Project: OAPIS Week of 1/6/2006
Lab ID: 0601055-01

Client Sample ID: OAPIS
Collection Date: 1/4/2006 2:30:00 PM
Date Received: 1/6/2006
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: CMC
Selenium	ND	0.050		mg/L	1	1/16/2006 2:22:17 PM
Silver	ND	0.0050		mg/L	1	1/16/2006 2:22:17 PM
EPA METHOD 8260B: VOLATILES						Analyst: HLM
Benzene	190	10		µg/L	10	1/16/2006
Toluene	50	10		µg/L	10	1/16/2006
Ethylbenzene	ND	10		µg/L	10	1/16/2006
Methyl tert-butyl ether (MTBE)	11	10		µg/L	10	1/16/2006
1,2,4-Trimethylbenzene	47	10		µg/L	10	1/16/2006
1,3,5-Trimethylbenzene	44	10		µg/L	10	1/16/2006
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	1/16/2006
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	1/16/2006
Naphthalene	25	20		µg/L	10	1/16/2006
1-Methylnaphthalene	51	40		µg/L	10	1/16/2006
2-Methylnaphthalene	53	40		µg/L	10	1/16/2006
Acetone	210	100		µg/L	10	1/16/2006
Bromobenzene	ND	10		µg/L	10	1/16/2006
Bromochloromethane	ND	10		µg/L	10	1/16/2006
Bromodichloromethane	ND	10		µg/L	10	1/16/2006
Bromoform	ND	10		µg/L	10	1/16/2006
Bromomethane	ND	20		µg/L	10	1/16/2006
2-Butanone	ND	100		µg/L	10	1/16/2006
Carbon disulfide	ND	100		µg/L	10	1/16/2006
Carbon Tetrachloride	ND	20		µg/L	10	1/16/2006
Chlorobenzene	ND	10		µg/L	10	1/16/2006
Chloroethane	ND	20		µg/L	10	1/16/2006
Chloroform	ND	10		µg/L	10	1/16/2006
Chloromethane	ND	10		µg/L	10	1/16/2006
2-Chlorotoluene	ND	10		µg/L	10	1/16/2006
4-Chlorotoluene	ND	10		µg/L	10	1/16/2006
cis-1,2-DCE	ND	10		µg/L	10	1/16/2006
cis-1,3-Dichloropropene	ND	10		µg/L	10	1/16/2006
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	1/16/2006
Dibromochloromethane	ND	10		µg/L	10	1/16/2006
Dibromomethane	ND	20		µg/L	10	1/16/2006
1,2-Dichlorobenzene	ND	10		µg/L	10	1/16/2006
1,3-Dichlorobenzene	ND	10		µg/L	10	1/16/2006
1,4-Dichlorobenzene	ND	10		µg/L	10	1/16/2006
Dichlorodifluoromethane	ND	10		µg/L	10	1/16/2006
1,1-Dichloroethane	ND	20		µg/L	10	1/16/2006

Qualifiers:
* Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 25-Jan-06

CLIENT: Giant Refining Co
Lab Order: 0601055
Project: OAPIS Week of 1/6/2006
Lab ID: 0601055-01

Client Sample ID: OAPIS
Collection Date: 1/4/2006 2:30:00 PM
Date Received: 1/6/2006
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HLM
1,1-Dichloroethene	ND	10		µg/L	10	1/16/2006
1,2-Dichloropropane	ND	10		µg/L	10	1/16/2006
1,3-Dichloropropane	ND	10		µg/L	10	1/16/2006
2,2-Dichloropropane	ND	20		µg/L	10	1/16/2006
1,1-Dichloropropene	ND	10		µg/L	10	1/16/2006
Hexachlorobutadiene	ND	20		µg/L	10	1/16/2006
2-Hexanone	ND	100		µg/L	10	1/16/2006
Isopropylbenzene	ND	10		µg/L	10	1/16/2006
4-Isopropyltoluene	ND	10		µg/L	10	1/16/2006
4-Methyl-2-pentanone	ND	100		µg/L	10	1/16/2006
Methylene Chloride	ND	30		µg/L	10	1/16/2006
n-Butylbenzene	ND	10		µg/L	10	1/16/2006
n-Propylbenzene	ND	10		µg/L	10	1/16/2006
sec-Butylbenzene	ND	10		µg/L	10	1/16/2006
Styrene	ND	10		µg/L	10	1/16/2006
tert-Butylbenzene	ND	10		µg/L	10	1/16/2006
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	1/16/2006
1,1,2,2-Tetrachloroethane	ND	10		µg/L	10	1/16/2006
Tetrachloroethene (PCE)	ND	10		µg/L	10	1/16/2006
trans-1,2-DCE	ND	10		µg/L	10	1/16/2006
trans-1,3-Dichloropropene	ND	10		µg/L	10	1/16/2006
1,2,3-Trichlorobenzene	ND	10		µg/L	10	1/16/2006
1,2,4-Trichlorobenzene	ND	10		µg/L	10	1/16/2006
1,1,1-Trichloroethane	ND	10		µg/L	10	1/16/2006
1,1,2-Trichloroethane	ND	10		µg/L	10	1/16/2006
Trichloroethene (TCE)	ND	10		µg/L	10	1/16/2006
Trichlorofluoromethane	ND	10		µg/L	10	1/16/2006
1,2,3-Trichloropropane	ND	20		µg/L	10	1/16/2006
Vinyl chloride	ND	10		µg/L	10	1/16/2006
Xylenes, Total	530	10		µg/L	10	1/16/2006
Surr: 1,2-Dichloroethane-d4	114	69.9-130		%REC	10	1/16/2006
Surr: 4-Bromofluorobenzene	103	71.2-123		%REC	10	1/16/2006
Surr: Dibromofluoromethane	116	73.9-134		%REC	10	1/16/2006
Surr: Toluene-d8	96.2	81.9-122		%REC	10	1/16/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 25-Jan-06

CLIENT: Giant Refining Co

Work Order: 0601055

Project: OAPIS Week of 1/6/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DRO_W

Sample ID: MB-9535	SampType: MBLK	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17852						
Client ID: ZZZZZ	Batch ID: 9535	TestNo: SW8015		Analysis Date: 1/9/2006	SeqNo: 438884						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO) ND 1.0

Motor Oil Range Organics (MRO) ND 5.0

Sample ID: LCS-9535	SampType: LCS	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17852						
Client ID: ZZZZZ	Batch ID: 9535	TestNo: SW8015		Analysis Date: 1/9/2006	SeqNo: 438885						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO) 5.740 1.0 5 0 115 81.2 149

Sample ID: LCSD-9535	SampType: LCSD	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17852						
Client ID: ZZZZZ	Batch ID: 9535	TestNo: SW8015		Analysis Date: 1/9/2006	SeqNo: 438886						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO) 5.962 1.0 5 0 119 81.2 149 5.74 3.80 23

Qualifiers:	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	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0601055
Project: OAPIS Week of 1/6/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GRO_W

Sample ID: Reagent Blank 5ml	SampType: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 17890						
Client ID: ZZZZZ	Batch ID: R17890	TestNo: SW8015		Analysis Date: 1/12/2006	SeqNo: 439931						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: Reagent Blank 5ml	SampType: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 17915						
Client ID: ZZZZZ	Batch ID: R17915	TestNo: SW8015		Analysis Date: 1/13/2006	SeqNo: 440339						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: GRO lcs 2.5ug	SampType: LCS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 17890						
Client ID: ZZZZZ	Batch ID: R17890	TestNo: SW8015		Analysis Date: 1/13/2006	SeqNo: 439932						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: GRO lcs 2.5ug	SampType: LCS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 17915						
Client ID: ZZZZZ	Batch ID: R17915	TestNo: SW8015		Analysis Date: 1/13/2006	SeqNo: 440340						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co

Work Order: 0601055

Project: OAPIS Week of 1/6/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: MB-9551	SampType: MBLK	TestCode: 8310_W	Units: µg/L	Prep Date: 1/10/2006	RunNo: 17974					
Client ID: ZZZZZ	Batch ID: 9551	TestNo: SW8310	(SW3510C)	Analysis Date: 1/16/2006	SeqNo: 441634					
Analyte	Result	PQL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	ND	2.5									
1-Methylnaphthalene	ND	2.5									
2-Methylnaphthalene	ND	2.5									
Acenaphthylene	ND	2.5									
Acenaphthene	ND	2.5									
Fluorene	ND	0.80									
Phenanthrene	ND	0.60									
Anthracene	ND	0.60									
Fluoranthene	ND	0.30									
Pyrene	ND	0.30									
Benz(a)anthracene	ND	0.020									
Chrysene	ND	0.20									
Benzo(b)fluoranthene	ND	0.050									
Benzo(k)fluoranthene	ND	0.020									
Benzo(a)pyrene	ND	0.020									
Dibenz(a,h)anthracene	ND	0.040									
Benzo(g,h,i)perylene	ND	0.030									
Indeno(1,2,3-cd)pyrene	ND	0.080									

Sample ID: LCS-9551	SampType: LCS	TestCode: 8310_W	Units: µg/L	Prep Date: 1/10/2006	RunNo: 17974						
Client ID: ZZZZZ	Batch ID: 9551	TestNo: SW8310	(SW3510C)	Analysis Date: 1/16/2006	SeqNo: 441637						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	14.94	2.5	20	0	74.7	34.8	97.4				
1-Methylnaphthalene	14.85	2.5	20.05	0	74.1	34.7	100				
2-Methylnaphthalene	14.55	2.5	20	0	72.8	35	98.1				
Acenaphthylene	14.63	2.5	20.05	0	73.0	48.3	95.1				
Acenaphthene	15.05	2.5	20	0	75.2	45	95				
Fluorene	1.480	0.80	2.005	0	73.8	46.8	93.4				
Phenanthrene	0.8300	0.60	1.005	0	82.6	48.7	104				

Qualifiers: E Value above quantitation range

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0601055
Project: OAPIS Week of 1/6/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: LCS-9551	SampType: LCS	TestCode: 8310_W	Units: µg/L	Prep Date: 1/10/2006	RunNo: 17974						
Client ID: ZZZZZ	Batch ID: 9551	TestNo: SW8310	(SW3510C)	Analysis Date: 1/16/2006	SeqNo: 441637						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	0.7900	0.60	1.005	0	78.6	47.5	102				
Fluoranthene	1.720	0.30	2.005	0	85.8	46.3	108				
Pyrene	1.820	0.30	2.005	0	90.8	43.8	109				
Benz(a)anthracene	0.1800	0.020	0.2005	0	89.8	40.3	115				
Chrysene	0.9600	0.20	1.005	0	95.5	42.6	107				
Benzo(b)fluoranthene	0.2200	0.050	0.2505	0	87.8	48.6	107				
Benzo(k)fluoranthene	0.1100	0.020	0.125	0	88.0	23.3	136				
Benzo(a)pyrene	0.1100	0.020	0.125	0	88.0	33.4	117				
Dibenz(a,h)anthracene	0.2200	0.040	0.25	0	88.0	27.3	139				
Benzo(g,h,i)perylene	0.2500	0.030	0.25	0	100	38.2	117				
Indeno(1,2,3-cd)pyrene	0.4770	0.080	0.501	0	95.2	39.9	125				

Sample ID: LCSD-9551		SampType: LCSD		TestCode: 8310_W		Units: µg/L		Prep Date: 1/10/2006		RunNo: 17974	
Client ID: ZZZZZ		Batch ID: 9551		TestNo: SW8310		(SW3510C)		Analysis Date: 1/16/2006		SeqNo: 441638	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	14.42	2.5	20	0	72.1	34.8	97.4	14.94	3.54	32.1	
1-Methylnaphthalene	14.35	2.5	20.05	0	71.6	34.7	100	14.85	3.42	32.7	
2-Methylnaphthalene	14.20	2.5	20	0	71.0	35	98.1	14.55	2.43	34	
Acenaphthylene	14.36	2.5	20.05	0	71.6	48.3	95.1	14.63	1.83	38.8	
Acenaphthene	14.61	2.5	20	0	73.0	45	95	15.05	2.97	38.6	
Fluorene	1.440	0.80	2.005	0	71.8	46.8	93.4	1.48	2.74	39.3	
Phenanthrene	0.7600	0.60	1.005	0	75.6	48.7	104	0.83	8.81	25	
Anthracene	0.7700	0.60	1.005	0	76.6	47.5	102	0.79	2.56	23.9	
Fluoranthene	1.610	0.30	2.005	0	80.3	46.3	108	1.72	6.61	15.7	
Pyrene	1.730	0.30	2.005	0	86.3	43.8	109	1.82	5.07	15.3	
Benz(a)anthracene	0.1600	0.020	0.2005	0	79.8	40.3	115	0.18	11.8	119	
Chrysene	0.8700	0.20	1.005	0	86.6	42.6	107	0.96	9.84	16.6	
Benzo(b)fluoranthene	0.2100	0.050	0.2505	0	83.8	48.6	107	0.22	4.65	21.7	
Benzo(k)fluoranthene	0.1000	0.020	0.125	0	80.0	23.3	136	0.11	9.52	19.4	

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

CLIENT: Giant Refining Co
 Work Order: 0601055
 Project: OAPIS Week of 1/6/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: LCSD-9551	SampType: LCSD	TestCode: 8310_W	Units: µg/L	Prep Date: 1/10/2006	RunNo: 17974						
Client ID: ZZZZZ	Batch ID: 9551	TestNo: SW8310	(SW3510C)	Analysis Date: 1/16/2006	SeqNo: 441638						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	0.1300	0.020	0.125	0	104	33.4	117	0.11	16.7	16.7	
Dibenz(a,h)anthracene	0.2100	0.040	0.25	0	84.0	27.3	139	0.22	4.65	17.3	
Benzo(g,h,i)perylene	0.2300	0.030	0.25	0	92.0	38.2	117	0.25	8.33	118	
Indeno(1,2,3-cd)pyrene	0.4540	0.080	0.501	0	90.6	39.9	125	0.477	4.94	17.7	

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

CLIENT: Giant Refining Co
 Work Order: 0601055
 Project: OAPIS Week of 1/6/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTW

Sample ID: MB-9544	SampType: MBLK	TestCode: HG_CTW	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17848						
Client ID: ZZZZZ	Batch ID: 9544	TestNo: SW7470	(SW7470)	Analysis Date: 1/9/2006	SeqNo: 438823						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.00020									

Sample ID: LCS-9544	SampType: LCS	TestCode: HG_CTW	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17848						
Client ID: ZZZZ	Batch ID: 9544	TestNo: SW7470	(SW7470)	Analysis Date: 1/9/2006	SeqNo: 438824						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004253	0.00020	0.005	0	85.1	80	120				

Sample ID: LCSD-9544	SampType: LCSD	TestCode: HG_CTW	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17848						
Client ID: ZZZZZ	Batch ID: 9544	TestNo: SW7470	(SW7470)	Analysis Date: 1/9/2006	SeqNo: 438848						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004311	0.00020	0.005	0	86.2	80	120	0.004253	1.35	0	

9/18

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

CLIENT: Giant Refining Co
Work Order: 0601055
Project: OAPIS Week of 1/6/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS_TOTAL

Sample ID: MB-9536	SampType: MBLK	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17885						
Client ID: ZZZZZ	Batch ID: 9536	TestNo: SW6010A		Analysis Date: 1/12/2006	SeqNo: 439739						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.020
Barium ND 0.020
Cadmium ND 0.0020
Chromium ND 0.0060
Lead ND 0.0050
Selenium ND 0.050
Silver ND 0.0050

Sample ID: MB-9536	SampType: MBLK	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17932						
Client ID: ZZZZ	Batch ID: 9536	TestNo: SW6010A		Analysis Date: 1/16/2006	SeqNo: 440773						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.020
Barium ND 0.020
Cadmium ND 0.0020
Chromium ND 0.0060
Lead ND 0.0050
Selenium ND 0.050
Silver ND 0.0050

Sample ID: LCS-9536	SampType: LCS	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17885						
Client ID: ZZZZ	Batch ID: 9536	TestNo: SW6010A		Analysis Date: 1/12/2006	SeqNo: 439740						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 0.4894 0.0050 0.5 0 97.9 80 120

Sample ID: LCS-9536	SampType: LCS	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17932						
Client ID: ZZZZ	Batch ID: 9536	TestNo: SW6010A		Analysis Date: 1/16/2006	SeqNo: 440774						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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

CLIENT: Giant Refining Co
Work Order: 0601055
Project: OAPIS Week of 1/6/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS_TOTAL

Sample ID: LCS-9536	SampType: LCS	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17932						
Client ID: ZZZZZ	Batch ID: 9536	TestNo: SW6010A		Analysis Date: 1/16/2006	SeqNo: 440774						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.4853	0.020	0.5	0	97.1	80	120				
Barium	0.4613	0.020	0.5	0	92.3	80	120				
Cadmium	0.4680	0.020	0.5	0	93.6	80	120				
Chromium	0.4714	0.0060	0.5	0	94.3	80	120				
Lead	0.4601	0.0050	0.5	0	92.0	80	120				
Selenium	0.4684	0.050	0.5	0	93.7	80	120				
Silver	0.4791	0.0050	0.5	0.001109	95.6	80	120				

Sample ID: LCSD-9536	SampType: LCSD	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17885						
Client ID: ZZZZZ	Batch ID: 9536	TestNo: SW6010A		Analysis Date: 1/12/2006	SeqNo: 439741						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	0.4769	0.0050	0.5	0	95.4	80	120	0.4894	2.60	20	
------	--------	--------	-----	---	------	----	-----	--------	------	----	--

Sample ID: LCSD-9536	SampType: LCSD	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/9/2006	RunNo: 17932						
Client ID: ZZZZZ	Batch ID: 9536	TestNo: SW6010A		Analysis Date: 1/16/2006	SeqNo: 440775						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.4891	0.020	0.5	0	97.8	80	120	0.4853	0.775	20	
Barium	0.4627	0.020	0.5	0	92.5	80	120	0.4613	0.308	20	
Cadmium	0.4676	0.0020	0.5	0	93.5	80	120	0.468	0.0760	20	
Chromium	0.4741	0.0060	0.5	0	94.8	80	120	0.4714	0.582	20	
Lead	0.4560	0.0050	0.5	0	91.2	80	120	0.4601	0.907	20	
Selenium	0.4633	0.050	0.5	0	92.7	80	120	0.4684	1.11	20	
Silver	0.4795	0.0050	0.5	0.001109	95.7	80	120	0.4791	0.0776	20	

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

CLIENT: Giant Refining Co

Work Order: 0601055

Project: OAPIS Week of 1/6/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5ml rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 17916						
Client ID: ZZZZZ	Batch ID: R17916	TestNo: SW8260B		Analysis Date: 1/13/2006	SeqNo: 440423						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Methyl tert-butyl ether (MTBE)	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,2-Dichloroethane (EDC)	ND	1.0									
1,2-Dibromoethane (EDB)	ND	1.0									
Naphthalene	ND	2.0									
1-Methylnaphthalene	ND	4.0									
2-Methylnaphthalene	ND	4.0									
Acetone	ND	10									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	2.0									
2-Butanone	ND	10									
Carbon disulfide	ND	10									
Carbon Tetrachloride	ND	2.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	2.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
cis-1,2-DCE	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									

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

CLIENT: Giant Refining Co
Work Order: 0601055
Project: OAPIS Week of 1/6/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5ml rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 17916						
Client ID: ZZZZZ	Batch ID: R17916	TestNo: SW8260B		Analysis Date: 1/13/2006	SeqNo: 440423						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	2.0									
1,2-Dichlorobenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
1,1-Dichloroethane	ND	2.0									
1,1-Dichloroethene	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3-Dichloropropane	ND	1.0									
2,2-Dichloropropane	ND	2.0									
1,1-Dichloropropene	ND	1.0									
Hexachlorobutadiene	ND	2.0									
2-Hexanone	ND	10									
Isopropylbenzene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Methylene Chloride	ND	3.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
tert-Butylbenzene	ND	1.0									
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
Tetrachloroethene (PCE)	ND	1.0									
trans-1,2-DCE	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co

Work Order: 0601055

Project: OAPJS Week of 1/6/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5ml rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 17916						
Client ID: ZZZZZ	Batch ID: R17916	TestNo: SW8260B		Analysis Date: 1/13/2006	SeqNo: 440423						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,2-Trichloroethane	ND	1.0									
Trichloroethene (TCE)	ND	1.0									
Trichlorofluoromethane	ND	1.0									
1,2,3-Trichloropropane	ND	2.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	1.0									

Sample ID: 5ml rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 17921						
Client ID: ZZZZZ	Batch ID: R17921	TestNo: SW8260B		Analysis Date: 1/16/2006	SeqNo: 440538						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

14 Benzene	ND	1.0									
14 Toluene	ND	1.0									
18 Ethylbenzene	ND	1.0									
18 Methyl tert-butyl ether (MTBE)	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,2-Dichloroethane (EDC)	ND	1.0									
1,2-Dibromoethane (EDB)	ND	1.0									
Naphthalene	ND	2.0									
1-Methylnaphthalene	ND	4.0									
2-Methylnaphthalene	ND	4.0									
Acetone	ND	10									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	2.0									
2-Butanone	ND	10									
Carbon disulfide	ND	10									

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0601055
Project: OAPIS Week of 1/6/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5ml rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 17921						
Client ID: ZZZZZ	Batch ID: R17921	TestNo: SW8260B		Analysis Date: 1/16/2006	SeqNo: 440538						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon Tetrachloride	ND	2.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	2.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
cis-1,2-DCE	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	2.0									
1,2-Dichlorobenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
1,1-Dichloroethane	ND	2.0									
1,1-Dichloroethene	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3-Dichloropropane	ND	1.0									
2,2-Dichloropropane	ND	2.0									
1,1-Dichloropropene	ND	1.0									
Hexachlorobutadiene	ND	2.0									
2-Hexanone	ND	10									
Isopropylbenzene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Methylene Chloride	ND	3.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
sec-Butylbenzene	ND	1.0									

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co

Work Order: 0601055

Project: OAPIS Week of 1/6/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5ml rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 17921						
Client ID: ZZZZZ	Batch ID: R17921	TestNo: SW8260B		Analysis Date: 1/16/2006	SeqNo: 440538						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	ND	1.0									
tert-Butylbenzene	ND	1.0									
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
Tetrachloroethene (PCE)	ND	1.0									
trans-1,2-DCE	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
Trichloroethene (TCE)	ND	1.0									
Trichlorofluoromethane	ND	1.0									
1,2,3-Trichloropropane	ND	2.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	1.0									

16
17
18

Sample ID: 100ng Ics	SampType: LCS	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 17916						
Client ID: ZZZZZ	Batch ID: R17916	TestNo: SW8260B		Analysis Date: 1/13/2006	SeqNo: 440424						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.47	1.0	20	0	102	79.3	136				
Toluene	20.09	1.0	20	0	100	65.5	123				
Chlorobenzene	20.51	1.0	20	0	103	80.3	134				
1,1-Dichloroethene	20.10	1.0	20	0	101	72.7	135				
Trichloroethene (TCE)	19.96	1.0	20	0	99.8	85.6	119				

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting LimitH Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limitsJ Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
 Work Order: 0601055
 Project: OAPIS Week of 1/6/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 100ng Ics		SampType: LCS		TestCode: 8260_W		Units: µg/L		Prep Date:		RunNo: 17921	
Client ID: ZZZZZ		Batch ID: R17921		TestNo: SW8260B				Analysis Date: 1/16/2006		SeqNo: 440539	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.04	1.0	20	0	100	79.3		136			
Toluene	19.43	1.0	20	0	97.1	65.5		123			
Chlorobenzene	20.33	1.0	20	0	102	80.3		134			
1,1-Dichloroethene	19.92	1.0	20	0	99.6	72.7		135			
Trichloroethene (TCE)	18.98	1.0	20	0	94.9	85.6		119			

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

1/6/2006

Work Order Number 0601055

Received by AT

Checklist completed by

Signature

Date

1/6/06

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?	7°	4° C ± 2 Acceptable If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.3976
www.hallenvironmental.com

ANALYSIS REQUEST

CHAIN-OF-CUSTODY RECORD									
QA / QC Package: Std ☐ Level 4 ☐									
Other: _____									
Project Name: OAPIS									
Week of 1-6-2006									
Project #:									
Project Manager: Steve Morris									
Sampler:									
Sample Temperature: 70									
Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative HgCl ₂ HNO ₃		HEAL No.		
4-06	1430	H ₂ O	OAPIS				0601055-1		
Date: 5-06	Time: 0900	Relinquished By: (Signature) <i>J. H. H. H.</i>		Relinquished By: (Signature) <i>Steve Morris</i>		Received By: (Signature) <i>Steve Morris</i>		1/6/06 © 1340	
Date:	Time:	Relinquished By: (Signature)		Relinquished By: (Signature)		Received By: (Signature)			

COVER LETTER

Wednesday, January 25, 2006

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

RE: OAPIS Week of 1/13/06

Order No.: 0601119

Dear Ed Riege:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/13/2006 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: 25-Jan-06

CLIENT: Giant Refining Co
Lab Order: 0601119
Project: OAPIS Week of 1/13/06
Lab ID: 0601119-01

Client Sample ID: OAPIS
Collection Date: 1/11/2006 1:30:00 PM
Date Received: 1/13/2006
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
----------	--------	-------	------	-------	----	---------------

EPA METHOD 8015B: DIESEL RANGE

Analyst: SCC

Diesel Range Organics (DRO)	4.6	3.0		mg/L	1	1/17/2006 9:40:35 AM
Motor Oil Range Organics (MRO)	ND	15		mg/L	1	1/17/2006 9:40:35 AM
Surr: DNOP	128	58-140		%REC	1	1/17/2006 9:40:35 AM

EPA METHOD 8015B: GASOLINE RANGE

Analyst: NSB

Gasoline Range Organics (GRO)	6.0	2.0		mg/L	40	1/23/2006 1:50:24 PM
Surr: BFB	105	79.7-118		%REC	40	1/23/2006 1:50:24 PM

EPA METHOD 8310: PAHS

Analyst: JMP

Naphthalene	190	12		µg/L	5	1/23/2006 3:31:23 PM
1-Methylnaphthalene	68	2.5		µg/L	1	1/18/2006 11:04:38 PM
2-Methylnaphthalene	37	2.5		µg/L	1	1/18/2006 11:04:38 PM
Acenaphthylene	ND	2.5		µg/L	1	1/18/2006 11:04:38 PM
Acenaphthene	ND	2.5		µg/L	1	1/18/2006 11:04:38 PM
Fluorene	7.7	0.80		µg/L	1	1/18/2006 11:04:38 PM
Phenanthrene	5.9	0.60		µg/L	1	1/18/2006 11:04:38 PM
Anthracene	ND	0.60		µg/L	1	1/18/2006 11:04:38 PM
Fluoranthene	0.30	0.30		µg/L	1	1/18/2006 11:04:38 PM
Pyrene	0.52	0.30		µg/L	1	1/18/2006 11:04:38 PM
Benz(a)anthracene	0.060	0.020		µg/L	1	1/18/2006 11:04:38 PM
Chrysene	ND	0.20		µg/L	1	1/18/2006 11:04:38 PM
Benzo(b)fluoranthene	0.080	0.050		µg/L	1	1/18/2006 11:04:38 PM
Benzo(k)fluoranthene	0.050	0.020		µg/L	1	1/18/2006 11:04:38 PM
Benzo(a)pyrene	0.050	0.020		µg/L	1	1/18/2006 11:04:38 PM
Dibenz(a,h)anthracene	0.040	0.040		µg/L	1	1/18/2006 11:04:38 PM
Benzo(g,h,i)perylene	0.10	0.030		µg/L	1	1/18/2006 11:04:38 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	1/18/2006 11:04:38 PM
Surr: Benzo(e)pyrene	77.9	54-102		%REC	1	1/18/2006 11:04:38 PM

EPA METHOD 7470: MERCURY

Analyst: CMC

Mercury	ND	0.00020		mg/L	1	1/20/2006
---------	----	---------	--	------	---	-----------

EPA 6010: TOTAL RECOVERABLE METALS

Analyst: NMO

Arsenic	ND	0.020		mg/L	1	1/20/2006 10:39:37 AM
Barium	0.26	0.020		mg/L	1	1/20/2006 10:39:37 AM
Cadmium	ND	0.0020		mg/L	1	1/20/2006 10:39:37 AM
Chromium	0.0092	0.0060		mg/L	1	1/20/2006 10:39:37 AM
Lead	ND	0.0050		mg/L	1	1/20/2006 10:39:37 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 25-Jan-06

CLIENT: Giant Refining Co
Lab Order: 0601119
Project: OAPIS Week of 1/13/06
Lab ID: 0601119-01

Client Sample ID: OAPIS
Collection Date: 1/11/2006 1:30:00 PM
Date Received: 1/13/2006
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
----------	--------	-------	------	-------	----	---------------

EPA 6010: TOTAL RECOVERABLE METALS

Analyst: NMO

Selenium	ND	0.050		mg/L	1	1/20/2006 10:39:37 AM
Silver	ND	0.0050		mg/L	1	1/20/2006 10:39:37 AM

EPA METHOD 8260B: VOLATILES

Analyst: HLM

Benzene	1000	50		µg/L	50	1/19/2006
Toluene	990	50		µg/L	50	1/19/2006
Ethylbenzene	ND	50		µg/L	50	1/19/2006
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	1/19/2006
1,2,4-Trimethylbenzene	180	50		µg/L	50	1/19/2006
1,3,5-Trimethylbenzene	82	50		µg/L	50	1/19/2006
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	1/19/2006
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	1/19/2006
Naphthalene	110	100		µg/L	50	1/19/2006
1-Methylnaphthalene	ND	200		µg/L	50	1/19/2006
2-Methylnaphthalene	ND	200		µg/L	50	1/19/2006
Acetone	ND	500		µg/L	50	1/19/2006
Bromobenzene	ND	50		µg/L	50	1/19/2006
Bromochloromethane	ND	50		µg/L	50	1/19/2006
Bromodichloromethane	ND	50		µg/L	50	1/19/2006
Bromoform	ND	50		µg/L	50	1/19/2006
Bromomethane	ND	100		µg/L	50	1/19/2006
2-Butanone	ND	500		µg/L	50	1/19/2006
Carbon disulfide	ND	500		µg/L	50	1/19/2006
Carbon Tetrachloride	ND	100		µg/L	50	1/19/2006
Chlorobenzene	ND	50		µg/L	50	1/19/2006
Chloroethane	ND	100		µg/L	50	1/19/2006
Chloroform	ND	50		µg/L	50	1/19/2006
Chloromethane	ND	50		µg/L	50	1/19/2006
2-Chlorotoluene	ND	50		µg/L	50	1/19/2006
4-Chlorotoluene	ND	50		µg/L	50	1/19/2006
cis-1,2-DCE	ND	50		µg/L	50	1/19/2006
cis-1,3-Dichloropropene	ND	50		µg/L	50	1/19/2006
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	1/19/2006
Dibromochloromethane	ND	50		µg/L	50	1/19/2006
Dibromomethane	ND	100		µg/L	50	1/19/2006
1,2-Dichlorobenzene	ND	50		µg/L	50	1/19/2006
1,3-Dichlorobenzene	ND	50		µg/L	50	1/19/2006
1,4-Dichlorobenzene	ND	50		µg/L	50	1/19/2006
Dichlorodifluoromethane	ND	50		µg/L	50	1/19/2006
1,1-Dichloroethane	ND	100		µg/L	50	1/19/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 25-Jan-06

CLIENT: Giant Refining Co
Lab Order: 0601119
Project: OAPIS Week of 1/13/06
Lab ID: 0601119-01

Client Sample ID: OAPIS
Collection Date: 1/11/2006 1:30:00 PM
Date Received: 1/13/2006
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HLM
1,1-Dichloroethene	ND	50		µg/L	50	1/19/2006
1,2-Dichloropropane	ND	50		µg/L	50	1/19/2006
1,3-Dichloropropane	ND	50		µg/L	50	1/19/2006
2,2-Dichloropropane	ND	100		µg/L	50	1/19/2006
1,1-Dichloropropene	ND	50		µg/L	50	1/19/2006
Hexachlorobutadiene	ND	100		µg/L	50	1/19/2006
2-Hexanone	ND	500		µg/L	50	1/19/2006
Isopropylbenzene	ND	50		µg/L	50	1/19/2006
4-Isopropyltoluene	ND	50		µg/L	50	1/19/2006
4-Methyl-2-pentanone	ND	500		µg/L	50	1/19/2006
Methylene Chloride	ND	150		µg/L	50	1/19/2006
n-Butylbenzene	ND	50		µg/L	50	1/19/2006
n-Propylbenzene	ND	50		µg/L	50	1/19/2006
sec-Butylbenzene	ND	50		µg/L	50	1/19/2006
Styrene	ND	50		µg/L	50	1/19/2006
tert-Butylbenzene	ND	50		µg/L	50	1/19/2006
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	1/19/2006
1,1,2,2-Tetrachloroethane	ND	50		µg/L	50	1/19/2006
Tetrachloroethene (PCE)	ND	50		µg/L	50	1/19/2006
trans-1,2-DCE	ND	50		µg/L	50	1/19/2006
trans-1,3-Dichloropropene	ND	50		µg/L	50	1/19/2006
1,2,3-Trichlorobenzene	ND	50		µg/L	50	1/19/2006
1,2,4-Trichlorobenzene	ND	50		µg/L	50	1/19/2006
1,1,1-Trichloroethane	ND	50		µg/L	50	1/19/2006
1,1,2-Trichloroethane	ND	50		µg/L	50	1/19/2006
Trichloroethene (TCE)	ND	50		µg/L	50	1/19/2006
Trichlorofluoromethane	ND	50		µg/L	50	1/19/2006
1,2,3-Trichloropropane	ND	100		µg/L	50	1/19/2006
Vinyl chloride	ND	50		µg/L	50	1/19/2006
Xylenes, Total	970	50		µg/L	50	1/19/2006
Surr: 1,2-Dichloroethane-d4	104	69.9-130		%REC	50	1/19/2006
Surr: 4-Bromofluorobenzene	110	71.2-123		%REC	50	1/19/2006
Surr: Dibromofluoromethane	93.2	73.9-134		%REC	50	1/19/2006
Surr: Toluene-d8	99.9	81.9-122		%REC	50	1/19/2006

Qualifiers: * 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

CLIENT: Giant Refining Co

Work Order: 0601119

Project: OAPIS Week of 1/13/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DRO_W

Sample ID: LCS-9583	SampType: LCS	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 1/16/2006	RunNo: 17928						
Client ID: ZZZZZ	Batch ID: 9583	TestNo: SW8015		Analysis Date: 1/16/2006	SeqNo: 440598						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO) 5.618 1.0 5 0 112 81.2 149

Motor Oil Range Organics (MRO) ND 5.0

Sample ID: LCSD-9583	SampType: LCSD	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 1/16/2006	RunNo: 17928						
Client ID: ZZZZZ	Batch ID: 9583	TestNo: SW8015		Analysis Date: 1/16/2006	SeqNo: 440599						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO) 5.779 1.0 5 0 116 81.2 149 5.618 2.82 23

Motor Oil Range Organics (MRO) ND 5.0 0 0

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0601119
Project: OAPIS Week of 1/13/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GRO_W

Sample ID: 5ML RB	SampType: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18017						
Client ID: ZZZZZ	Batch ID: R18017	TestNo: SW8015		Analysis Date: 1/23/2006	SeqNo: 443323						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050									

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18017						
Client ID: ZZZZZ	Batch ID: R18017	TestNo: SW8015		Analysis Date: 1/23/2006	SeqNo: 443324						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4740	0.050	0.5	0	94.8	82.6	114				

Sample ID: 2.5UG GRO LCSD	SampType: LCSD	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18017						
Client ID: ZZZZZ	Batch ID: R18017	TestNo: SW8015		Analysis Date: 1/23/2006	SeqNo: 443349						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4840	0.050	0.5	0	96.8	82.6	114	0.474	2.09	8.39	

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0601119
Project: OAPIS Week of 1/13/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: MB-9599	SampType: MBLK	TestCode: 8310_W	Units: µg/L	Prep Date: 1/17/2006	RunNo: 17999						
Client ID: ZZZZZ	Batch ID: 9599	TestNo: SW8310	(SW3510C)	Analysis Date: 1/18/2006	SeqNo: 442601						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	ND	2.5									
1-Methylnaphthalene	ND	2.5									
2-Methylnaphthalene	ND	2.5									
Acenaphthylene	ND	2.5									
Acenaphthene	ND	2.5									
Fluorene	ND	0.80									
Phenanthrene	ND	0.60									
Anthracene	ND	0.60									
Fluoranthene	ND	0.30									
Pyrene	ND	0.30									
Benz(a)anthracene	ND	0.020									
Chrysene	ND	0.20									
benzo(b)fluoranthene	ND	0.050									
benzo(k)fluoranthene	ND	0.020									
Benzo(a)pyrene	ND	0.020									
Dibenz(a,h)anthracene	ND	0.040									
Benzo(g,h,i)perylene	ND	0.030									
Indeno(1,2,3-cd)pyrene	ND	0.080									

Sample ID: LCS-9599	SampType: LCS	TestCode: 8310_W	Units: µg/L	Prep Date: 1/17/2006	RunNo: 17999						
Client ID: ZZZZZ	Batch ID: 9599	TestNo: SW8310	(SW3510C)	Analysis Date: 1/18/2006	SeqNo: 442603						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	24.23	2.5	40	0	60.6	34.8	97.4				
1-Methylnaphthalene	23.35	2.5	40.1	0	58.2	34.7	100				
2-Methylnaphthalene	23.08	2.5	40	0	57.7	35	98.1				
Acenaphthylene	25.00	2.5	40.1	0	62.4	48.3	95.1				
Acenaphthene	24.46	2.5	40	0	61.2	45	95				
Fluorene	2.490	0.80	4.01	0	62.1	46.8	93.4				
Phenanthrene	1.380	0.60	2.01	0	68.7	48.7	104				

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0601119
Project: OAPIS Week of 1/13/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: LCS-9599	SampType: LCS	TestCode: 8310_W	Units: µg/L	Prep Date: 1/17/2006	RunNo: 17999						
Client ID: ZZZZZ	Batch ID: 9599	TestNo: SW8310	(SW3510C)	Analysis Date: 1/18/2006	SeqNo: 442603						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	1.340	0.60	2.01	0	66.7	47.5	102				
Fluoranthene	2.700	0.30	4.01	0	67.3	46.3	108				
Pyrene	2.720	0.30	4.01	0	67.8	43.8	109				
Benz(a)anthracene	0.2800	0.020	0.401	0	69.8	40.3	115				
Chrysene	1.370	0.20	2.01	0	68.2	42.6	107				
Benzo(b)fluoranthene	0.3400	0.050	0.501	0	67.9	48.6	107				
Benzo(k)fluoranthene	0.1700	0.020	0.25	0	68.0	23.3	136				
Benzo(a)pyrene	0.1700	0.020	0.251	0	67.7	33.4	117				
Dibenz(a,h)anthracene	0.3400	0.040	0.501	0	67.9	27.3	139				
Benzo(g,h,i)perylene	0.3600	0.030	0.5	0	72.0	38.2	117				
Indeno(1,2,3-cd)pyrene	0.7370	0.080	1.002	0	73.6	39.9	125				

Sample ID: LCSD-9599	SampType: LCSD	TestCode: 8310_W	Units: µg/L	Prep Date: 1/17/2006	RunNo: 17999						
Client ID: ZZZZZ	Batch ID: 9599	TestNo: SW8310	(SW3510C)	Analysis Date: 1/18/2006	SeqNo: 442604						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	24.98	2.5	40	0	62.4	34.8	97.4	24.23	3.05	32.1	
1-Methylnaphthalene	24.30	2.5	40.1	0	60.6	34.7	100	23.35	3.99	32.7	
2-Methylnaphthalene	24.05	2.5	40	0	60.1	35	98.1	23.08	4.12	34	
Acenaphthylene	25.66	2.5	40.1	0	64.0	48.3	95.1	25	2.58	38.8	
Acenaphthene	25.29	2.5	40	0	63.2	45	95	24.46	3.34	38.6	
Fluorene	2.570	0.80	4.01	0	64.1	46.8	93.4	2.49	3.16	39.3	
Phenanthrene	1.370	0.60	2.01	0	68.2	48.7	104	1.38	0.727	25	
Anthracene	1.400	0.60	2.01	0	69.7	47.5	102	1.34	4.38	23.9	
Fluoranthene	2.910	0.30	4.01	0	72.6	46.3	108	2.7	7.49	15.7	
Pyrene	2.830	0.30	4.01	0	70.6	43.8	109	2.72	3.96	15.3	
Benzo(a)anthracene	0.2900	0.020	0.401	0	72.3	40.3	115	0.28	3.51	119	
Chrysene	1.520	0.20	2.01	0	75.6	42.6	107	1.37	10.4	16.6	
Benzo(b)fluoranthene	0.3700	0.050	0.501	0	73.9	48.6	107	0.34	8.45	21.7	
Benzo(k)fluoranthene	0.1800	0.020	0.25	0	72.0	23.3	136	0.17	5.71	19.4	

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

CLIENT: Giant Refining Co
Work Order: 0601119
Project: OAPIS Week of 1/13/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: LCSD-9599	SampType: LCSD	TestCode: 8310_W	Units: µg/L	Prep Date: 1/17/2006	RunNo: 17999						
Client ID: ZZZZZ	Batch ID: 9599	TestNo: SW8310	(SW3510C)	Analysis Date: 1/18/2006	SeqNo: 442604						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	0.1800	0.020	0.251	0	71.7	33.4	117	0.17	5.71	16.7	
Dibenz(a,h)anthracene	0.3500	0.040	0.501	0	69.9	27.3	139	0.34	2.90	17.3	
Benzo(g,h,i)perylene	0.3900	0.030	0.5	0	78.0	38.2	117	0.36	8.00	118	
Indeno(1,2,3-cd)pyrene	0.7620	0.080	1.002	0	76.0	39.9	125	0.737	3.34	17.7	

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0601119
Project: OAPIS Week of 1/13/06

ANALYTICAL QC SUMMARY REPORT

TestCode: Hg_CTW

Sample ID: MB-9625	SampType: MBLK	TestCode: Hg_CTW	Units: mg/L	Prep Date: 1/20/2006	RunNo: 17989						
Client ID: ZZZZZ	Batch ID: 9625	TestNo: SW7470	(SW7470)	Analysis Date: 1/20/2006	SeqNo: 442366						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.00020									

Sample ID: LCS-9625	SampType: LCS	TestCode: Hg_CTW	Units: mg/L	Prep Date: 1/20/2006	RunNo: 17989						
Client ID: ZZZZZ	Batch ID: 9625	TestNo: SW7470	(SW7470)	Analysis Date: 1/20/2006	SeqNo: 442367						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004124	0.00020	0.005	0	82.5	80	120				

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

CLIENT: Giant Refining Co
Work Order: 0601119
Project: OAPIS Week of 1/13/06

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS_TOTAL

Sample ID: MB-9615	SampType: MBLK	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/19/2006	RunNo: 17983						
Client ID: ZZZZZ	Batch ID: 9615	TestNo: SW6010A		Analysis Date: 1/20/2006	SeqNo: 442110						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.020									
Barium	ND	0.020									
Cadmium	ND	0.0020									
Chromium	ND	0.0060									
Lead	ND	0.0050									
Selenium	ND	0.050									
Silver	ND	0.0050									

Sample ID: LCS-9615	SampType: LCS	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/19/2006	RunNo: 17983						
Client ID: ZZZZZ	Batch ID: 9615	TestNo: SW6010A		Analysis Date: 1/20/2006	SeqNo: 442101						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.4712	0.020	0.5	0	94.2	80	120				
Barium	0.4652	0.020	0.5	0	93.0	80	120				
Cadmium	0.4572	0.0020	0.5	0	91.4	80	120				
Chromium	0.4752	0.0060	0.5	0	95.0	80	120				
Lead	0.4433	0.0050	0.5	0	88.7	80	120				
Selenium	0.4317	0.050	0.5	0	86.3	80	120				
Silver	0.4764	0.0050	0.5	0	95.3	80	120				

Sample ID: LCSD-9615	SampType: LCSD	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/19/2006	RunNo: 17983						
Client ID: ZZZZZ	Batch ID: 9615	TestNo: SW6010A		Analysis Date: 1/20/2006	SeqNo: 442102						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.4736	0.020	0.5	0	94.7	80	120	0.4712	0.500	20	
Barium	0.4662	0.020	0.5	0	93.2	80	120	0.4652	0.211	20	
Cadmium	0.4649	0.0020	0.5	0	93.0	80	120	0.4572	1.65	20	
Chromium	0.4763	0.0060	0.5	0	95.3	80	120	0.4752	0.235	20	
Lead	0.4476	0.0050	0.5	0	89.5	80	120	0.4433	0.956	20	
Selenium	0.4415	0.050	0.5	0	88.3	80	120	0.4317	2.24	20	

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

CLIENT: Giant Refining Co
Work Order: 0601119
Project: OAPIS Week of 1/13/06

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS_TOTAL

Sample ID: LCSD-9615	SampType: LCSD	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/19/2006	RunNo: 17983						
Client ID: ZZZZZ	Batch ID: 9615	TestNo: SW6010A		Analysis Date: 1/20/2006	SeqNo: 442102						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.4772	0.0050	0.5	0	95.4	80	120	0.4764	0.179	20	

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Date: 25-Jan-06

CLIENT: Giant Refining Co

Work Order: 0601119

Project: OAPIS Week of 1/13/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5ml rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 17978						
Client ID: ZZZZZ	Batch ID: R17978	TestNo: SW8260B		Analysis Date: 1/19/2006	SeqNo: 441974						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Methyl tert-butyl ether (MTBE)	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,2-Dichloroethane (EDC)	ND	1.0									
1,2-Dibromoethane (EDB)	ND	1.0									
Naphthalene	ND	2.0									
1-Methylnaphthalene	ND	4.0									
2-Methylnaphthalene	ND	4.0									
Acetone	ND	10									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	2.0									
2-Butanone	ND	10									
Carbon disulfide	ND	10									
Carbon Tetrachloride	ND	2.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	2.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
cis-1,2-DCE	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0601119
Project: OAPIS Week of 1/13/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5ml rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 17978						
Client ID: ZZZZZ	Batch ID: R17978	TestNo: SW8260B		Analysis Date: 1/19/2006	SeqNo: 441974						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	2.0									
1,2-Dichlorobenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
1,1-Dichloroethane	ND	2.0									
1,1-Dichloroethene	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3-Dichloropropane	ND	1.0									
2,2-Dichloropropane	ND	2.0									
1,1,1-Trichloropropane	ND	1.0									
1,1,2-Trichloropropane	ND	2.0									
1,2,3-Trichlorobutadiene	ND	10									
1,2,4-Hexanone	ND	1.0									
1,3-Isopropylbenzene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Methylene Chloride	ND	3.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
tert-Butylbenzene	ND	1.0									
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
Tetrachloroethene (PCE)	ND	1.0									
trans-1,2-DCE	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0601119
Project: OAPIS Week of 1/13/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5ml rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 17978						
Client ID: ZZZZZ	Batch ID: R17978	TestNo: SW8260B		Analysis Date: 1/19/2006	SeqNo: 441974						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,2-Trichloroethane	ND	1.0									
Trichloroethene (TCE)	ND	1.0									
Trichlorofluoromethane	ND	1.0									
1,2,3-Trichloropropane	ND	2.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	1.0									

Sample ID: 100ng lcs	SampType: LCS	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 17978						
Client ID: ZZZZZ	Batch ID: R17978	TestNo: SW8260B		Analysis Date: 1/19/2006	SeqNo: 441975						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Benzene	19.34	1.0	20	0	96.7	79.3	136				
4-Toluene	20.12	1.0	20	0	101	65.5	123				
1-Chlorobenzene	20.20	1.0	20	0	101	80.3	134				
1,1-Dichloroethene	19.93	1.0	20	0	99.7	72.7	135				
Trichloroethene (TCE)	19.14	1.0	20	0	95.7	85.6	119				

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

1/13/2006

Work Order Number 0601119

Received by

LMM

Checklist completed by


Signature1/13/06
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 - pH acceptable upon receipt?	Yes ☒	No ☐	N/A ☐	
Container/Temp Blank temperature?	7°	4° C ± 2 Acceptable		

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.34
www.hallenvironmental.com

Client: Hunt Refining Co.

Address: Route 3 Box 17

Galley, NM 87301

Phone #: 505 722 3833

Fax #: 505 722 0210

Sample I.D. No.

11-66	1:30 PM	OAPIS
-------	---------	-------

Relinquished By: (Signature)

Retinquinished By: (Signature)

Received By (Signature) *Steve Feltz* 1140
1/13/06

Received By: (Signature)

Level 4

Project Name:

Project Name: OAPLS

Project #: Week of 1-13-06

Project #:

Project Manager:

ED RIEGLE

Sampler.

Sampler: Johnny Sanchez
Sample Temperature: 20

Sample Temperature:	
---------------------	--

Preservative

$$\text{HgCl}_2 \cdot \text{HNO}_3$$

HEAL No.

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)

BTEX + MTBE + TPH (Gasoline Oil)

TPH (Method 418.1)

EDB (Method 504.1)

EDC (Method 8021)

8310 (PAH)

RCRA 8 Metals

ADDITIONAL COMMENTS

ALMONS (1, 2), NO (3), NO (4), NO (4)

8081 Pesticides / PCBs (8082)

82608 (VOA)

8270 (semi-VOA)

All Buddies of Headspace (1 of 1)

COVER LETTER

Wednesday, February 01, 2006

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

RE: OAPIS Week of 1/20/2006

Order No.: 0601206

Dear Johnny Sanchez:

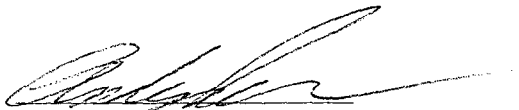
Hall Environmental Analysis Laboratory received 1 sample(s) on 1/20/2006 for the analyses presented in the following report.

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: 01-Feb-06

CLIENT: Giant Refining Co
Lab Order: 0601206
Project: OAPIS Week of 1/20/2006
Lab ID: 0601206-01

Client Sample ID: OAPIS
Collection Date: 1/18/2006 2:00:00 PM
Date Received: 1/20/2006
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	1.2	1.0		mg/L	1	1/24/2006 7:14:34 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/24/2006 7:14:34 PM
Surr: DNOP	116	58-140		%REC	1	1/24/2006 7:14:34 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	12	2.5		mg/L	50	1/30/2006 11:42:10 AM
Surr: BFB	113	79.7-118		%REC	50	1/30/2006 11:42:10 AM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	230	12		µg/L	5	1/27/2006 1:13:42 PM
1-Methylnaphthalene	95	2.5		µg/L	1	1/26/2006 3:39:33 PM
2-Methylnaphthalene	62	2.5		µg/L	1	1/26/2006 3:39:33 PM
Acenaphthylene	ND	2.5		µg/L	1	1/26/2006 3:39:33 PM
Acenaphthene	3.4	2.5		µg/L	1	1/26/2006 3:39:33 PM
Fluorene	6.9	0.80		µg/L	1	1/26/2006 3:39:33 PM
Phenanthrene	0.63	0.60		µg/L	1	1/26/2006 3:39:33 PM
Anthracene	ND	0.60		µg/L	1	1/26/2006 3:39:33 PM
Fluoranthene	ND	0.30		µg/L	1	1/26/2006 3:39:33 PM
Pyrene	0.50	0.30		µg/L	1	1/26/2006 3:39:33 PM
Benz(a)anthracene	ND	0.020		µg/L	1	1/26/2006 3:39:33 PM
Chrysene	ND	0.20		µg/L	1	1/26/2006 3:39:33 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	1/26/2006 3:39:33 PM
Benzo(k)fluoranthene	0.045	0.020		µg/L	1	1/26/2006 3:39:33 PM
Benzo(a)pyrene	0.020	0.020		µg/L	1	1/26/2006 3:39:33 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	1/26/2006 3:39:33 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	1/26/2006 3:39:33 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	1/26/2006 3:39:33 PM
Surr: Benzo(e)pyrene	68.5	54-102		%REC	1	1/26/2006 3:39:33 PM
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	ND	0.00020		mg/L	1	1/24/2006
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	1/25/2006 9:47:24 AM
Barium	0.19	0.020		mg/L	1	1/25/2006 9:47:24 AM
Cadmium	ND	0.0020		mg/L	1	1/25/2006 9:47:24 AM
Chromium	0.012	0.0060		mg/L	1	1/25/2006 9:47:24 AM
Lead	ND	0.0050		mg/L	1	1/25/2006 9:47:24 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 01-Feb-06

CLIENT: Giant Refining Co

Client Sample ID: OAPIS

Lab Order: 0601206

Collection Date: 1/18/2006 2:00:00 PM

Project: OAPIS Week of 1/20/2006

Date Received: 1/20/2006

Lab ID: 0601206-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Selenium	ND	0.050		mg/L	1	1/25/2006 9:47:24 AM
Silver	ND	0.0050		mg/L	1	1/25/2006 9:47:24 AM
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	2900	50		µg/L	50	1/25/2006
Toluene	3900	50		µg/L	50	1/25/2006
Ethylbenzene	490	50		µg/L	50	1/25/2006
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	1/25/2006
1,2,4-Trimethylbenzene	420	50		µg/L	50	1/25/2006
1,3,5-Trimethylbenzene	150	50		µg/L	50	1/25/2006
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	1/25/2006
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	1/25/2006
Naphthalene	220	100		µg/L	50	1/25/2006
1-Methylnaphthalene	260	200		µg/L	50	1/25/2006
2-Methylnaphthalene	310	200		µg/L	50	1/25/2006
Acetone	ND	500		µg/L	50	1/25/2006
Bromobenzene	ND	50		µg/L	50	1/25/2006
Bromochloromethane	ND	50		µg/L	50	1/25/2006
Bromodichloromethane	ND	50		µg/L	50	1/25/2006
Bromoform	ND	50		µg/L	50	1/25/2006
Bromomethane	ND	100		µg/L	50	1/25/2006
2-Butanone	ND	500		µg/L	50	1/25/2006
Carbon disulfide	ND	500		µg/L	50	1/25/2006
Carbon Tetrachloride	ND	100		µg/L	50	1/25/2006
Chlorobenzene	ND	50		µg/L	50	1/25/2006
Chloroethane	ND	100		µg/L	50	1/25/2006
Chloroform	ND	50		µg/L	50	1/25/2006
Chloromethane	ND	50		µg/L	50	1/25/2006
2-Chlorotoluene	ND	50		µg/L	50	1/25/2006
4-Chlorotoluene	ND	50		µg/L	50	1/25/2006
cis-1,2-DCE	ND	50		µg/L	50	1/25/2006
cis-1,3-Dichloropropene	ND	50		µg/L	50	1/25/2006
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	1/25/2006
Dibromochloromethane	ND	50		µg/L	50	1/25/2006
Dibromomethane	ND	100		µg/L	50	1/25/2006
1,2-Dichlorobenzene	ND	50		µg/L	50	1/25/2006
1,3-Dichlorobenzene	ND	50		µg/L	50	1/25/2006
1,4-Dichlorobenzene	ND	50		µg/L	50	1/25/2006
Dichlorodifluoromethane	ND	50		µg/L	50	1/25/2006
1,1-Dichloroethane	ND	100		µg/L	50	1/25/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 01-Feb-06

CLIENT: Giant Refining Co
Lab Order: 0601206
Project: OAPIS Week of 1/20/2006
Lab ID: 0601206-01

Client Sample ID: OAPIS
Collection Date: 1/18/2006 2:00:00 PM
Date Received: 1/20/2006
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
1,1-Dichloroethene	ND	50		µg/L	50	1/25/2006
1,2-Dichloropropane	ND	50		µg/L	50	1/25/2006
1,3-Dichloropropane	ND	50		µg/L	50	1/25/2006
2,2-Dichloropropane	ND	100		µg/L	50	1/25/2006
1,1-Dichloropropene	ND	50		µg/L	50	1/25/2006
Hexachlorobutadiene	ND	100		µg/L	50	1/25/2006
2-Hexanone	ND	500		µg/L	50	1/25/2006
Isopropylbenzene	ND	50		µg/L	50	1/25/2006
4-Isopropyltoluene	ND	50		µg/L	50	1/25/2006
4-Methyl-2-pentanone	ND	500		µg/L	50	1/25/2006
Methylene Chloride	ND	150		µg/L	50	1/25/2006
n-Butylbenzene	ND	50		µg/L	50	1/25/2006
n-Propylbenzene	66	50		µg/L	50	1/25/2006
sec-Butylbenzene	ND	50		µg/L	50	1/25/2006
Styrene	ND	50		µg/L	50	1/25/2006
tert-Butylbenzene	ND	50		µg/L	50	1/25/2006
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	1/25/2006
1,1,2,2-Tetrachloroethane	ND	50		µg/L	50	1/25/2006
Tetrachloroethene (PCE)	ND	50		µg/L	50	1/25/2006
trans-1,2-DCE	ND	50		µg/L	50	1/25/2006
trans-1,3-Dichloropropene	ND	50		µg/L	50	1/25/2006
1,2,3-Trichlorobenzene	ND	50		µg/L	50	1/25/2006
1,2,4-Trichlorobenzene	ND	50		µg/L	50	1/25/2006
1,1,1-Trichloroethane	ND	50		µg/L	50	1/25/2006
1,1,2-Trichloroethane	ND	50		µg/L	50	1/25/2006
Trichloroethene (TCE)	ND	50		µg/L	50	1/25/2006
Trichlorofluoromethane	ND	50		µg/L	50	1/25/2006
1,2,3-Trichloropropane	ND	100		µg/L	50	1/25/2006
Vinyl chloride	ND	50		µg/L	50	1/25/2006
Xylenes, Total	2900	50		µg/L	50	1/25/2006
Surr: 1,2-Dichloroethane-d4	114	69.9-130		%REC	50	1/25/2006
Surr: 4-Bromofluorobenzene	115	71.2-123		%REC	50	1/25/2006
Surr: Dibromofluoromethane	98.6	57.3-135		%REC	50	1/25/2006
Surr: Toluene-d8	109	81.9-122		%REC	50	1/25/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

CLIENT: Giant Refining Co
 Work Order: 0601206
 Project: OAPIS Week of 1/20/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DRO_W

Sample ID: MB-9636	SampType: MBLK	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 1/24/2006	RunNo: 17998						
Client ID: ZZZZZ	Batch ID: 9636	TestNo: SW8015		Analysis Date: 1/24/2006	SeqNo: 444110						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO) ND 1.0
 Motor Oil Range Organics (MRO) ND 5.0

Sample ID: LCS-9636	SampType: LCS	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 1/24/2006	RunNo: 17998						
Client ID: ZZZZZ	Batch ID: 9636	TestNo: SW8015		Analysis Date: 1/24/2006	SeqNo: 444111						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.020	1.0	5	0	100	81.2	149				

Diesel Range Organics (DRO) 5.020 1.0 5 0 100 81.2 149

Sample ID: LCSD-9636	SampType: LCSD	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 1/24/2006	RunNo: 17998						
Client ID: ZZZZZ	Batch ID: 9636	TestNo: SW8015		Analysis Date: 1/24/2006	SeqNo: 444112						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO) 4.355 1.0 5 0 87.1 81.2 149 5.02 14.2 23

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

CLIENT: Giant Refining Co
Work Order: 0601206
Project: OAPIS Week of 1/20/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GRO_W

Sample ID: 5ML RB	SampType: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18092						
Client ID: ZZZZ	Batch ID: R18092	TestNo: SW8015		Analysis Date: 1/30/2006	SeqNo: 445964						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)											
	ND		0.050								

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18092						
Client ID: ZZZZ	Batch ID: R18092	TestNo: SW8015		Analysis Date: 1/30/2006	SeqNo: 445965						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.5340	0.050	0.5	0	107	82.6	114				

Sample ID: 2.5UG GRO LCSD	SampType: LCSD	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18092						
Client ID: ZZZZ	Batch ID: R18092	TestNo: SW8015		Analysis Date: 1/30/2006	SeqNo: 445966						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.5280	0.050	0.5	0	106	82.6	114	0.534	1.13	8.39	

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co

Work Order: 0601206

Project: OAPIS Week of 1/20/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: MB-9639	SampType: MBLK	TestCode: 8310_W	Units: µg/L	Prep Date: 1/24/2006	RunNo: 18069					
Client ID: ZZZZZ	Batch ID: 9639	TestNo: SW8310	(SW3510C)	Analysis Date: 1/26/2006	SeqNo: 445300					
Analyte	Result	PQL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	ND	2.5									
1-Methylnaphthalene	ND	2.5									
2-Methylnaphthalene	ND	2.5									
Acenaphthylene	ND	2.5									
Acenaphthene	ND	2.5									
Fluorene	ND	0.80									
Phenanthrene	ND	0.60									
Anthracene	ND	0.60									
Fluoranthene	ND	0.30									
Pyrene	ND	0.30									
Benz(a)anthracene	ND	0.020									
Chrysene	ND	0.20									
benzo(b)fluoranthene	ND	0.050									
benzo(k)fluoranthene	ND	0.020									
Benzo(a)pyrene	ND	0.020									
Dibenz(a,h)anthracene	ND	0.040									
Benzo(g,h,i)perylene	ND	0.030									
Indeno(1,2,3-cd)pyrene	ND	0.080									

Sample ID: LCS-9639	SampType: LCS	TestCode: 8310_W	Units: µg/L	Prep Date: 1/24/2006	RunNo: 18069						
Client ID: ZZZZZ	Batch ID: 9639	TestNo: SW8310	(SW3510C)	Analysis Date: 1/26/2006	SeqNo: 445301						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	25.22	2.5	40	0	63.0	34.8	97.4				
1-Methylnaphthalene	25.46	2.5	40.1	0	63.5	34.7	100				
2-Methylnaphthalene	24.88	2.5	40	0	62.2	35	98.1				
Acenaphthylene	26.87	2.5	40.1	0	67.0	48.3	95.1				
Acenaphthene	26.93	2.5	40	0	67.3	45	95				
Fluorene	2.750	0.80	4.01	0	68.6	46.8	93.4				
Phenanthrene	1.460	0.60	2.01	0	72.6	48.7	104				

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
 Work Order: 0601206
 Project: OAPIS Week of 1/20/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: LCS-9639	SampType: LCS	TestCode: 8310_W	Units: µg/L	Prep Date: 1/24/2006	RunNo: 18069						
Client ID: ZZZZZ	Batch ID: 9639	TestNo: SW8310	(SW3510C)	Analysis Date: 1/26/2006	SeqNo: 445301						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	1.470	0.60	2.01	0	73.1	47.5	102				
Fluoranthene	3.040	0.30	4.01	0	75.8	46.3	108				
Pyrene	3.170	0.30	4.01	0	79.1	43.8	109				
Benz(a)anthracene	0.3200	0.020	0.401	0	79.8	40.3	115				
Chrysene	1.530	0.20	2.01	0	76.1	42.6	107				
Benzo(b)fluoranthene	0.3940	0.050	0.501	0	78.6	48.6	107				
Benzo(k)fluoranthene	0.1960	0.020	0.25	0	78.4	23.3	136				
Benzo(a)pyrene	0.2000	0.020	0.251	0	79.7	33.4	117				
Dibenz(a,h)anthracene	0.3700	0.040	0.501	0	73.9	27.3	139				
Benzo(g,h,i)perylene	0.3900	0.030	0.5	0	78.0	38.2	117				
Indeno(1,2,3-cd)pyrene	0.7270	0.080	1.002	0	72.6	39.9	125				

Sample ID: LCSD-9639	SampType: LCSD	TestCode: 8310_W	Units: µg/L	Prep Date: 1/24/2006	RunNo: 18069						
Client ID: ZZZZZ	Batch ID: 9639	TestNo: SW8310	(SW3510C)	Analysis Date: 1/26/2006	SeqNo: 445302						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	24.68	2.5	40	0	61.7	34.8	97.4	25.22	2.16	32.1	
1-Methylnaphthalene	24.37	2.5	40.1	0	60.8	34.7	100	25.46	4.37	32.7	
2-Methylnaphthalene	23.83	2.5	40	0	59.6	35	98.1	24.88	4.31	34	
Acenaphthylene	26.02	2.5	40.1	0	64.9	48.3	95.1	26.87	3.21	38.8	
Acenaphthene	26.12	2.5	40	0	65.3	45	95	26.93	3.05	38.6	
Fluorene	2.650	0.80	4.01	0	66.1	46.8	93.4	2.75	3.70	39.3	
Phenanthrene	1.410	0.60	2.01	0	70.1	48.7	104	1.46	3.48	25	
Anthracene	1.430	0.60	2.01	0	71.1	47.5	102	1.47	2.76	23.9	
Fluoranthene	2.930	0.30	4.01	0	73.1	46.3	108	3.04	3.69	15.7	
Pyrene	3.160	0.30	4.01	0	78.8	43.8	109	3.17	0.316	15.3	
Benz(a)anthracene	0.3200	0.020	0.401	0	79.8	40.3	115	0.32	0	119	
Chrysene	1.550	0.20	2.01	0	77.1	42.6	107	1.53	1.30	16.6	
Benzo(b)fluoranthene	0.3980	0.050	0.501	0	79.4	48.6	107	0.394	1.01	21.7	
Benzo(k)fluoranthene	0.2020	0.020	0.25	0	80.8	23.3	136	0.196	3.02	19.4	

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

CLIENT: Giant Refining Co
 Work Order: 0601206
 Project: OAPIS Week of 1/20/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: LCSD-9639		SampType: LCSD		TestCode: 8310_W		Units: µg/L		Prep Date: 1/24/2006		RunNo: 18069	
Client ID: ZZZZZ		Batch ID: 9639		TestNo: SW8310		(SW3510C)		Analysis Date: 1/26/2006		SeqNo: 445302	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	0.1900	0.020	0.251	0	75.7	33.4	117	0.2	5.13	16.7	
Dibenz(a,h)anthracene	0.3700	0.040	0.501	0	73.9	27.3	139	0.37	0	17.3	
Benzo(g,h,i)perylene	0.4300	0.030	0.5	0	86.0	38.2	117	0.39	9.76	118	
Indeno(1,2,3-cd)pyrene	0.8760	0.080	1.002	0	87.4	39.9	125	0.727	18.6	17.7	R

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

CLIENT: Giant Refining Co
Work Order: 0601206
Project: OAPIS Week of 1/20/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: Hg_CTW

Sample ID: MB-9640	SampType: MBLK	TestCode: Hg_CTW	Units: mg/L	Prep Date: 1/24/2006	RunNo: 18026						
Client ID: ZZZZZ	Batch ID: 9640	TestNo: SW7470	(SW7470)	Analysis Date: 1/24/2006	SeqNo: 444078						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.00020									

Sample ID: LCS-9640	SampType: LCS	TestCode: Hg_CTW	Units: mg/L	Prep Date: 1/24/2006	RunNo: 18026						
Client ID: ZZZZZ	Batch ID: 9640	TestNo: SW7470	(SW7470)	Analysis Date: 1/24/2006	SeqNo: 444079						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004155	0.00020	0.005	0	83.1	80	120				

Sample ID: LCSD-9640	SampType: LCSD	TestCode: Hg_CTW	Units: mg/L	Prep Date: 1/24/2006	RunNo: 18026						
Client ID: ZZZZZ	Batch ID: 9640	TestNo: SW7470	(SW7470)	Analysis Date: 1/24/2006	SeqNo: 444089						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004467	0.00020	0.005	0	89.3	80	120	0.004155	7.23	0	

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

CLIENT: Giant Refining Co
Work Order: 0601206
Project: OAPIS Week of 1/20/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS_TOTAL

Sample ID: MB-9629	SampType: MBLK	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/23/2006	RunNo: 18037						
Client ID: ZZZZZ	Batch ID: 9629	TestNo: SW6010A		Analysis Date: 1/25/2006	SeqNo: 444662						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	ND
Cadmium	0.0020
Chromium	0.0060
Lead	0.0050
Selenium	0.050
Silver	0.0050

Sample ID: MB-9629	SampType: MBLK	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/23/2006	RunNo: 18037						
Client ID: ZZZZZ	Batch ID: 9629	TestNo: SW6010A		Analysis Date: 1/25/2006	SeqNo: 444679						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

rsenic	ND
--------	----

Sample ID: LCS-9629	SampType: LCS	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/23/2006	RunNo: 18037						
Client ID: ZZZZZ	Batch ID: 9629	TestNo: SW6010A		Analysis Date: 1/25/2006	SeqNo: 444663						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	0.4498
Cadmium	0.4478
Chromium	0.4627
Lead	0.4351
Selenium	0.4084
Silver	0.4570

Sample ID: LCS-9629	SampType: LCS	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/23/2006	RunNo: 18037						
Client ID: ZZZZZ	Batch ID: 9629	TestNo: SW6010A		Analysis Date: 1/25/2006	SeqNo: 444680						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.4862
---------	--------

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

CLIENT: Giant Refining Co
Work Order: 0601206
Project: OAPIS Week of 1/20/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS_TOTAL

Sample ID: LCSD-9629	SampType: LCSD	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/23/2006	RunNo: 18037						
Client ID: ZZZZZ	Batch ID: 9629	TestNo: SW6010A		Analysis Date: 1/25/2006	SeqNo: 444664						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	0.4638	0.020	0.5	0	92.8	80	120	0.4498	3.05	20	
Cadmium	0.4579	0.0020	0.5	0.000571	91.5	80	120	0.4478	2.21	20	
Chromium	0.4720	0.0060	0.5	0.0006937	94.3	80	120	0.4627	2.00	20	
Lead	0.4458	0.0050	0.5	0	89.2	80	120	0.4351	2.44	20	
Selenium	0.4230	0.050	0.5	0	84.6	80	120	0.4084	3.53	20	
Silver	0.4701	0.0050	0.5	0.002855	93.4	80	120	0.457	2.82	20	

Sample ID: LCSD-9629	SampType: LCSD	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/23/2006	RunNo: 18037						
Client ID: ZZZZZ	Batch ID: 9629	TestNo: SW6010A		Analysis Date: 1/25/2006	SeqNo: 444681						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercuric	0.4915	0.020	0.5	0	98.3	80	120	0.4862	1.10	20	

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

Hall Environmental Analysis Laboratory

Date: 01-Feb-06

ANALYTICAL QC SUMMARY REPORT

CLIENT: Giant Refining Co

Work Order: 0601206

Project: OAPIS Week of 1/20/2006

TestCode: 8260_W

Sample ID: 5ml rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18046						
Client ID: ZZZZZ	Batch ID: R18046	TestNo: SW8260B		Analysis Date: 1/25/2006	SeqNo: 444823						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Methyl tert-butyl ether (MTBE)	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,2-Dichloroethane (EDC)	ND	1.0									
1,2-Dibromoethane (EDB)	ND	1.0									
Naphthalene	ND	2.0									
1-Methylnaphthalene	ND	4.0									
2-Methylnaphthalene	ND	4.0									
Acetone	ND	10									
1,4-Dimethylbenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	2.0									
2-Butanone	ND	10									
Carbon disulfide	ND	10									
Carbon Tetrachloride	ND	2.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	2.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
cis-1,2-DCE	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									

Qualifiers: E Value above quantitation range ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits

R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0601206
Project: OAPIS Week of 1/20/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5ml rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18046						
Client ID: ZZZZZ	Batch ID: R18046	TestNo: SW8260B		Analysis Date: 1/25/2006	SeqNo: 444823						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	2.0									
1,2-Dichlorobenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
1,1-Dichloroethane	ND	2.0									
1,1-Dichloroethene	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3-Dichloropropane	ND	1.0									
2,2-Dichloropropane	ND	2.0									
1,1,1-Dichloropropene	ND	1.0									
1,1,2-Dichloropropene	ND	2.0									
1,1,2,2-Tetrachlorobutadiene	ND	10									
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Methylene Chloride	ND	3.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
tert-Butylbenzene	ND	1.0									
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
Tetrachloroethene (PCE)	ND	1.0									
trans-1,2-DCE	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									

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

CLIENT: Giant Refining Co

Work Order: 0601206

Project: OAPIS Week of 1/20/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5ml rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18046						
Client ID: ZZZZZ	Batch ID: R18046	TestNo: SW8260B		Analysis Date: 1/25/2006	SeqNo: 444823						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,2-Trichloroethane	ND	1.0									
Trichloroethene (TCE)	ND	1.0									
Trichlorofluoromethane	ND	1.0									
1,2,3-Trichloropropane	ND	2.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	1.0									

Sample ID: 100ng lcs	SampType: LCS	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18046						
Client ID: ZZZZZ	Batch ID: R18046	TestNo: SW8260B		Analysis Date: 1/25/2006	SeqNo: 444824						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1 benzene	19.75	1.0	20	0	98.7	79.3	136				
4 oluene	20.31	1.0	20	0	102	65.5	123				
1 chlorobenzene	21.15	1.0	20	0	106	80.3	134				
5 1,1-Dichloroethene	15.30	1.0	20	0	76.5	72.7	135				
Trichloroethene (TCE)	17.79	1.0	20	0	89.0	85.6	119				

Qualifiers:	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	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Receive

1/20/2006

Work Order Number 0601206

Received by AT

Checklist completed by

Signature

Date

Reviewed by

Initials

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 ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
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 ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

ANALYSIS REQUEST

Air Bubbles or Headspace (Y or N)

CHAIN-OF-CUSTODY RECORD					QA / QC Package:			
					Std ☐ Level 4 ☐			
					Other: _____			
Client: <u>Giant Refining</u>					Project Name: <u>OAPIS for</u>			
Address: <u>Company - Ciniza</u>					Week of <u>1-20-2006</u>			
Route <u>3 Box 7</u>					Project #: _____			
Gallup, NM 87301					Project Manager: _____			
Phone #: <u>505 722 3833</u>					Sampler: <u>Johnny Sanchez</u>			
Fax #: <u>505 722 0210</u>					Sample Temperature: <u>2</u>			
Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative HgCl ₂ HNO ₃		HEAL No.	
18-06	1400	H ₂ O	OAPIS	7			0601206-1	
Date: <u>17-06</u>	Time: <u>0900</u>	Relinquished By: (Signature) <u>[Signature]</u>		Received By: (Signature) <u>[Signature]</u>		Date: <u>1/20/06</u>		
Date: _____	Time: _____	Relinquished By: (Signature) _____		Received By: (Signature) _____		Date: _____		

COVER LETTER

Friday, February 10, 2006

Johnny Sanchez
Giant Refining Co
Rt. 3 Box 7
Gallup, NM 87301

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

RE: OAPIS Week of 1/27/06

Order No.: 0601270

Dear Johnny Sanchez:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/27/2006 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: 10-Feb-06

CLIENT: Giant Refining Co
Lab Order: 0601270
Project: OAPIS Week of 1/27/06
Lab ID: 0601270-01

Client Sample ID: OAPIS
Collection Date: 1/26/2006 8:00:00 AM
Date Received: 1/27/2006
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	1.3	1.0		mg/L	1	2/6/2006 7:18:12 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	2/6/2006 7:18:12 PM
Surr: DNOP	122	58-140		%REC	1	2/6/2006 7:18:12 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	22	2.0		mg/L	40	1/31/2006 5:37:23 PM
Surr: BFB	109	79.7-118		%REC	40	1/31/2006 5:37:23 PM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	220	12		µg/L	5	2/3/2006 5:10:01 PM
1-Methylnaphthalene	60	12		µg/L	5	2/3/2006 5:10:01 PM
2-Methylnaphthalene	63	12		µg/L	5	2/3/2006 5:10:01 PM
Acenaphthylene	ND	2.5		µg/L	1	2/2/2006 2:56:15 PM
Acenaphthene	3.0	2.5		µg/L	1	2/2/2006 2:56:15 PM
Fluorene	7.6	0.80		µg/L	1	2/2/2006 2:56:15 PM
Phenanthrene	10	3.0		µg/L	5	2/3/2006 5:10:01 PM
Anthracene	ND	0.60		µg/L	1	2/2/2006 2:56:15 PM
Fluoranthene	ND	0.30		µg/L	1	2/2/2006 2:56:15 PM
Pyrene	0.64	0.30		µg/L	1	2/2/2006 2:56:15 PM
Benz(a)anthracene	ND	0.020		µg/L	1	2/2/2006 2:56:15 PM
Chrysene	ND	0.20		µg/L	1	2/2/2006 2:56:15 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	2/2/2006 2:56:15 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	2/2/2006 2:56:15 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	2/2/2006 2:56:15 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	2/2/2006 2:56:15 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	2/2/2006 2:56:15 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	2/2/2006 2:56:15 PM
Surr: Benzo(e)pyrene	89.8	54-102		%REC	1	2/2/2006 2:56:15 PM
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	0.00043	0.00020		mg/L	1	2/2/2006
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	1/30/2006 10:00:34 AM
Barium	0.20	0.020		mg/L	1	1/30/2006 10:00:34 AM
Cadmium	ND	0.0020		mg/L	1	1/30/2006 10:00:34 AM
Chromium	0.016	0.0060		mg/L	1	1/30/2006 10:00:34 AM
Lead	0.011	0.0050		mg/L	1	1/30/2006 10:00:34 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 10-Feb-06

CLIENT: Giant Refining Co
Lab Order: 0601270
Project: OAPIS Week of 1/27/06
Lab ID: 0601270-01

Client Sample ID: OAPIS
Collection Date: 1/26/2006 8:00:00 AM
Date Received: 1/27/2006
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Selenium	ND	0.050		mg/L	1	1/30/2006 10:00:34 AM
Silver	ND	0.0050		mg/L	1	1/30/2006 10:00:34 AM
EPA METHOD 8260B: VOLATILES						Analyst: KTM
Benzene	2800	50		µg/L	50	2/2/2006
Toluene	8200	100		µg/L	100	2/3/2006
Ethylbenzene	540	50		µg/L	50	2/2/2006
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	2/2/2006
1,2,4-Trimethylbenzene	420	50		µg/L	50	2/2/2006
1,3,5-Trimethylbenzene	160	50		µg/L	50	2/2/2006
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	2/2/2006
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	2/2/2006
Naphthalene	110	100		µg/L	50	2/2/2006
1-Methylnaphthalene	ND	200		µg/L	50	2/2/2006
2-Methylnaphthalene	ND	200		µg/L	50	2/2/2006
Acetone	570	500		µg/L	50	2/2/2006
Bromobenzene	ND	50		µg/L	50	2/2/2006
Bromochloromethane	ND	50		µg/L	50	2/2/2006
Bromodichloromethane	ND	50		µg/L	50	2/2/2006
Bromoform	ND	50		µg/L	50	2/2/2006
Bromomethane	ND	100		µg/L	50	2/2/2006
2-Butanone	ND	500		µg/L	50	2/2/2006
Carbon disulfide	ND	500		µg/L	50	2/2/2006
Carbon Tetrachloride	ND	100		µg/L	50	2/2/2006
Chlorobenzene	ND	50		µg/L	50	2/2/2006
Chloroethane	ND	100		µg/L	50	2/2/2006
Chloroform	ND	50		µg/L	50	2/2/2006
Chloromethane	ND	50		µg/L	50	2/2/2006
2-Chlorotoluene	ND	50		µg/L	50	2/2/2006
4-Chlorotoluene	ND	50		µg/L	50	2/2/2006
cis-1,2-DCE	ND	50		µg/L	50	2/2/2006
cis-1,3-Dichloropropene	ND	50		µg/L	50	2/2/2006
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	2/2/2006
Dibromochloromethane	ND	50		µg/L	50	2/2/2006
Dibromomethane	ND	100		µg/L	50	2/2/2006
1,2-Dichlorobenzene	ND	50		µg/L	50	2/2/2006
1,3-Dichlorobenzene	ND	50		µg/L	50	2/2/2006
1,4-Dichlorobenzene	ND	50		µg/L	50	2/2/2006
Dichlorodifluoromethane	ND	50		µg/L	50	2/2/2006
1,1-Dichloroethane	ND	100		µg/L	50	2/2/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 10-Feb-06

CLIENT: Giant Refining Co
Lab Order: 0601270
Project: OAPIS Week of 1/27/06
Lab ID: 0601270-01

Client Sample ID: OAPIS
Collection Date: 1/26/2006 8:00:00 AM
Date Received: 1/27/2006
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: KTM
1,1-Dichloroethene	ND	50		µg/L	50	2/2/2006
1,2-Dichloropropane	ND	50		µg/L	50	2/2/2006
1,3-Dichloropropane	ND	50		µg/L	50	2/2/2006
2,2-Dichloropropane	ND	100		µg/L	50	2/2/2006
1,1-Dichloropropene	ND	50		µg/L	50	2/2/2006
Hexachlorobutadiene	ND	100		µg/L	50	2/2/2006
2-Hexanone	ND	500		µg/L	50	2/2/2006
Isopropylbenzene	ND	50		µg/L	50	2/2/2006
4-Isopropyltoluene	ND	50		µg/L	50	2/2/2006
4-Methyl-2-pentanone	ND	500		µg/L	50	2/2/2006
Methylene Chloride	ND	150		µg/L	50	2/2/2006
n-Butylbenzene	ND	50		µg/L	50	2/2/2006
n-Propylbenzene	61	50		µg/L	50	2/2/2006
sec-Butylbenzene	ND	50		µg/L	50	2/2/2006
Styrene	ND	50		µg/L	50	2/2/2006
tert-Butylbenzene	ND	50		µg/L	50	2/2/2006
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	2/2/2006
1,1,2,2-Tetrachloroethane	ND	50		µg/L	50	2/2/2006
Tetrachloroethene (PCE)	ND	50		µg/L	50	2/2/2006
trans-1,2-DCE	ND	50		µg/L	50	2/2/2006
trans-1,3-Dichloropropene	ND	50		µg/L	50	2/2/2006
1,2,3-Trichlorobenzene	ND	50		µg/L	50	2/2/2006
1,2,4-Trichlorobenzene	ND	50		µg/L	50	2/2/2006
1,1,1-Trichloroethane	ND	50		µg/L	50	2/2/2006
1,1,2-Trichloroethane	ND	50		µg/L	50	2/2/2006
Trichloroethene (TCE)	ND	50		µg/L	50	2/2/2006
Trichlorofluoromethane	ND	50		µg/L	50	2/2/2006
1,2,3-Trichloropropane	ND	100		µg/L	50	2/2/2006
Vinyl chloride	ND	50		µg/L	50	2/2/2006
Xylenes, Total	4200	50		µg/L	50	2/2/2006
Surr: 1,2-Dichloroethane-d4	103	69.9-130		%REC	50	2/2/2006
Surr: 4-Bromofluorobenzene	96.3	71.2-123		%REC	50	2/2/2006
Surr: Dibromofluoromethane	102	57.3-135		%REC	50	2/2/2006
Surr: Toluene-d8	90.7	81.9-122		%REC	50	2/2/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 10-Feb-06

CLIENT: Giant Refining Co

Work Order: 0601270

Project: OAPIS Week of 1/27/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DRO_W

Sample ID: MB-9682	SampType: MBLK	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 1/31/2006	RunNo: 18151
Client ID: ZZZZZ	Batch ID: 9682	TestNo: SW8015		Analysis Date: 2/6/2006	SeqNo: 447798
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 1.0
 Motor Oil Range Organics (MRO) ND 5.0

Sample ID: LCS-9682	SampType: LCS	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 1/31/2006	RunNo: 18151
Client ID: ZZZZZ	Batch ID: 9682	TestNo: SW8015		Analysis Date: 2/6/2006	SeqNo: 447799
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Diesel Range Organics (DRO) 5.643 1.0 5 0 113 81.2 149

Sample ID: LCSD-9682	SampType: LCSD	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 1/31/2006	RunNo: 18151
Client ID: ZZZZZ	Batch ID: 9682	TestNo: SW8015		Analysis Date: 2/6/2006	SeqNo: 447800
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Diesel Range Organics (DRO) 5.624 1.0 5 0 112 81.2 149 5.643 0.337 23

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0601270
Project: OAPIS Week of 1/27/06

ANALYTICAL QC SUMMARY REPORT
TestCode: 8015GRO_W

Sample ID: 5ML RB	SampType: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18110						
Client ID: ZZZZZ	Batch ID: R18110	TestNo: SW8015		Analysis Date: 1/31/2006	SeqNo: 446513						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18110						
Client ID: ZZZZZ	Batch ID: R18110	TestNo: SW8015		Analysis Date: 1/31/2006	SeqNo: 446514						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 2.5UG GRO LCSD	SampType: LCSD	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18110						
Client ID: ZZZZZ	Batch ID: R18110	TestNo: SW8015		Analysis Date: 2/1/2006	SeqNo: 446515						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)											
	0.4680	0.050	0.5	0	93.6	82.6	114	0.462	1.29	8.39	

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0601270
Project: OAPIS Week of 1/27/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: MB-9668	SampType: MBLK	TestCode: 8310_W	Units: µg/L	Prep Date: 1/27/2006	RunNo: 18162						
Client ID: ZZZZZ	Batch ID: 9668	TestNo: SW8310	(SW3510C)	Analysis Date: 2/2/2006	SeqNo: 447718						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	ND	2.5									
1-Methylnaphthalene	ND	2.5									
2-Methylnaphthalene	ND	2.5									
Acenaphthylene	ND	2.5									
Acenaphthene	ND	2.5									
Fluorene	ND	0.80									
Phenanthrene	ND	0.60									
Anthracene	ND	0.60									
Fluoranthene	ND	0.30									
Pyrene	ND	0.30									
Benz(a)anthracene	ND	0.020									
Chrysene	ND	0.20									
Benzo(b)fluoranthene	ND	0.050									
Benzo(k)fluoranthene	ND	0.020									
Benzo(a)pyrene	ND	0.020									
Dibenz(a,h)anthracene	ND	0.040									
Benzo(g,h,i)perylene	ND	0.030									
Indeno(1,2,3-cd)pyrene	ND	0.080									

6/13

Sample ID: LCS-9668	SampType: LCS	TestCode: 8310_W	Units: µg/L	Prep Date: 1/27/2006	RunNo: 18162						
Client ID: ZZZZZ	Batch ID: 9668	TestNo: SW8310	(SW3510C)	Analysis Date: 2/2/2006	SeqNo: 447719						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	21.83	2.5	40	0	54.6	34.8	97.4				
1-Methylnaphthalene	22.11	2.5	40.1	0	55.1	34.7	100				
2-Methylnaphthalene	21.94	2.5	40	0	54.8	35	98.1				
Acenaphthylene	22.69	2.5	40.1	0	56.6	48.3	95.1				
Acenaphthene	22.36	2.5	40	0	55.9	45	95				
Fluorene	2.260	0.80	4.01	0	56.4	46.8	93.4				
Phenanthrene	1.190	0.60	2.01	0	59.2	48.7	104				

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
 Work Order: 0601270
 Project: OAPIS Week of 1/27/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: LCS-9668	SampType: LCS	TestCode: 8310_W	Units: µg/L	Prep Date: 1/27/2006	RunNo: 18162						
Client ID: ZZZZZ	Batch ID: 9668	TestNo: SW8310	(SW3510C)	Analysis Date: 2/2/2006	SeqNo: 447719						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	1.210	0.60	2.01	0	60.2	47.5	102				
Fluoranthene	2.450	0.30	4.01	0	61.1	46.3	108				
Pyrene	2.590	0.30	4.01	0	64.6	43.8	109				
Benz(a)anthracene	0.2500	0.020	0.401	0	62.3	40.3	115				
Chrysene	1.250	0.20	2.01	0	62.2	42.6	107				
Benzo(b)fluoranthene	0.3200	0.050	0.501	0	63.9	48.6	107				
Benzo(k)fluoranthene	0.1500	0.020	0.25	0	60.0	23.3	136				
Benzo(a)pyrene	0.1500	0.020	0.251	0	59.8	33.4	117				
Dibenz(a,h)anthracene	0.2500	0.040	0.501	0	49.9	27.3	139				
Benzo(g,h,i)perylene	0.3200	0.030	0.5	0	64.0	38.2	117				
Indeno(1,2,3-cd)pyrene	0.6870	0.080	1.002	0	68.6	39.9	125				

Qualifiers:	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	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co

Work Order: 0601270

Project: OAPIS Week of 1/27/06

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTW

Sample ID: MB-9703	SampType: MBLK	TestCode: HG_CTW	Units: mg/L	Prep Date: 2/2/2006	RunNo: 18136						
Client ID: ZZZZZ	Batch ID: 9703	TestNo: SW7470	(SW7470)	Analysis Date: 2/2/2006	SeqNo: 447052						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.00020									

Sample ID: LCS-9703	SampType: LCS	TestCode: HG_CTW	Units: mg/L	Prep Date: 2/2/2006	RunNo: 18136						
Client ID: ZZZZZ	Batch ID: 9703	TestNo: SW7470	(SW7470)	Analysis Date: 2/2/2006	SeqNo: 447053						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004489	0.00020	0.005	0	89.8	80	120				

Sample ID: LCSD-9703	SampType: LCSD	TestCode: Hg_CTW	Units: mg/L	Prep Date: 2/2/2006	RunNo: 18136						
Client ID: ZZZZZ	Batch ID: 9703	TestNo: SW7470	(SW7470)	Analysis Date: 2/2/2006	SeqNo: 447071						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004458	0.00020	0.005	0	89.2	80	120	0.004489	0.697	0	

8 / 13

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
 Work Order: 0601270
 Project: OAPIS Week of 1/27/06

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS_TOTAL

Sample ID: MB-9665	SampleType: MBLK	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/27/2006	RunNo: 18082						
Client ID: ZZZZZ	Batch ID: 9665	TestNo: SW6010A		Analysis Date: 1/30/2006	SeqNo: 445679						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.020									
Barium	ND	0.020									
Cadmium	ND	0.0020									
Chromium	ND	0.0060									
Lead	ND	0.0050									
Selenium	ND	0.050									
Silver	ND	0.0050									

Sample ID: LCS-9665	SampleType: LCS	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/27/2006	RunNo: 18082						
Client ID: ZZZZZ	Batch ID: 9665	TestNo: SW6010A		Analysis Date: 1/30/2006	SeqNo: 445680						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.5067	0.020	0.5	0.01183	99.0	80	120				
Barium	0.4787	0.020	0.5	0	95.7	80	120				
Cadmium	0.4827	0.0020	0.5	0	96.5	80	120				
Chromium	0.4856	0.0060	0.5	0	97.1	80	120				
Lead	0.4888	0.0050	0.5	0	97.8	80	120				
Selenium	0.4637	0.050	0.5	0	92.7	80	120				

Sample ID: LCSD-9665	SampleType: LCSD	TestCode: METALS_TO	Units: mg/L	Prep Date: 1/27/2006	RunNo: 18082						
Client ID: ZZZZZ	Batch ID: 9665	TestNo: SW6010A		Analysis Date: 1/30/2006	SeqNo: 445681						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.5096	0.020	0.5	0.01183	99.5	80	120	0.5067	0.558	20	
Barium	0.4787	0.020	0.5	0	95.7	80	120	0.4787	0.00151	20	
Cadmium	0.4865	0.0020	0.5	0	97.3	80	120	0.4827	0.786	20	
Chromium	0.4868	0.0060	0.5	0	97.4	80	120	0.4856	0.231	20	
Lead	0.4925	0.0050	0.5	0	98.5	80	120	0.4888	0.758	20	
Selenium	0.4670	0.050	0.5	0	93.4	80	120	0.4637	0.693	20	

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: Giant Refining Co

Work Order: 0601270

Project: OAPIS Week of 1/27/06

TestCode: 8260_W

Sample ID: 100ng lcs-full	SampType: LCS	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18125						
Client ID: ZZZZZ	Batch ID: R18125	TestNo: SW8260B		Analysis Date: 2/1/2006	SeqNo: 446814						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.59	1.0	20	0	93.0	79.3	136				
Toluene	19.14	1.0	20	0	95.7	65.5	123				
Ethylbenzene	19.44	1.0	20	0	97.2	70	130				
Methyl tert-butyl ether (MTBE)	21.86	1.0	20	0	109	70	130				
1,2,4-Trimethylbenzene	19.08	1.0	20	0	95.4	70	130				
1,3,5-Trimethylbenzene	18.72	1.0	20	0	93.6	70	130				
1,2-Dichloroethane (EDC)	19.21	1.0	20	0	96.0	70	130				
1,2-Dibromoethane (EDB)	17.72	1.0	20	0	88.6	70	130				
Naphthalene	19.54	2.0	20	0	97.7	70	130				
1-Methylnaphthalene	22.43	4.0	20	0	112	70	130				
2-Methylnaphthalene	22.77	4.0	20	0	114	70	130				
Acetone	69.32	10	80	0	86.7	70	130				
Bromobenzene	18.42	1.0	20	0	92.1	70	130				
Bromochloromethane	17.89	1.0	20	0	89.5	70	130				
Bromodichloromethane	16.78	1.0	20	0	83.9	70	130				
Bromoform	17.93	1.0	20	0	89.6	70	130				
Bromomethane	16.48	2.0	20	0	82.4	70	130				
2-Butanone	74.22	10	80	0	92.8	70	130				
Carbon disulfide	82.15	10	80	0	103	70	130				
Carbon Tetrachloride	21.16	2.0	20	0	106	70	130				
Chlorobenzene	20.84	1.0	20	0	104	80.3	134				
Chloroethane	17.35	2.0	20	0	86.8	70	130				
Chloroform	19.64	1.0	20	0	98.2	70	130				
Chloromethane	15.70	1.0	20	0	78.5	70	130				
2-Chlorotoluene	17.44	1.0	20	0	87.2	70	130				
4-Chlorotoluene	17.50	1.0	20	0	87.5	70	130				
cis-1,2-DCE	19.00	1.0	20	0	95.0	70	130				
cis-1,3-Dichloropropene	17.44	1.0	20	0	87.2	70	130				
1,2-Dibromo-3-chloropropane	19.88	2.0	20	0	99.4	70	130				

Qualifiers: E Value above quantitation range

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0601270
Project: OAPIS Week of 1/27/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 100ng lcs-full		SampType: LCS		TestCode: 8260_W		Units: µg/L		Prep Date:		RunNo: 18125	
Client ID: ZZZZZ		Batch ID: R18125		TestNo: SW8260B				Analysis Date: 2/1/2006		SeqNo: 446814	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	17.63	1.0	20	0	88.2	70	130				
Dibromomethane	16.41	2.0	20	0	82.1	70	130				
1,2-Dichlorobenzene	19.61	1.0	20	0	98.0	70	130				
1,3-Dichlorobenzene	20.22	1.0	20	0	101	70	130				
1,4-Dichlorobenzene	20.22	1.0	20	0	101	70	130				
Dichlorodifluoromethane	13.13	1.0	20	0	65.7	70	130				
1,1-Dichloroethane	18.66	2.0	20	0	93.3	70	130				
1,1-Dichloroethene	14.97	1.0	20	0	74.8	65.5	134				
1,2-Dichloropropane	19.91	1.0	20	0	99.5	70	130				
1,3-Dichloropropane	18.14	1.0	20	0	90.7	70	130				
2,2-Dichloropropane	19.57	2.0	20	0	97.9	70	130				
1,1-Dichloropropene	16.74	1.0	20	0	83.7	70	130				
Hexachlorobutadiene	18.71	2.0	20	0	93.5	70	130				
2-Hexanone	77.10	10	80	0	96.4	70	130				
Isopropylbenzene	18.90	1.0	20	0	94.5	70	130				
4-Isopropyltoluene	19.32	1.0	20	0	96.6	70	130				
4-Methyl-2-pentanone	83.80	10	80	0	105	70	130				
Methylene Chloride	20.01	3.0	20	0	100	70	130				
n-Butylbenzene	20.05	1.0	20	0	100	70	130				
n-Propylbenzene	18.84	1.0	20	0	94.2	70	130				
sec-Butylbenzene	18.03	1.0	20	0	90.2	70	130				
Styrene	18.31	1.0	20	0	91.6	70	130				
tert-Butylbenzene	19.43	1.0	20	0	97.1	70	130				
1,1,1,2-Tetrachloroethane	19.82	1.0	20	0	99.1	70	130				
1,1,2,2-Tetrachloroethane	19.12	1.0	20	0	95.6	70	130				
Tetrachloroethene (PCE)	18.18	1.0	20	0	90.9	70	130				
trans-1,2-DCE	18.07	1.0	20	0	90.4	70	130				
trans-1,3-Dichloropropene	17.90	1.0	20	0	89.5	70	130				
1,2,3-Trichlorobenzene	19.09	1.0	20	0	95.4	70	130				
1,2,4-Trichlorobenzene	19.78	1.0	20	0	98.9	70	130				
1,1,1-Trichloroethane	20.58	1.0	20	0	103	70	130				

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

CLIENT: Giant Refining Co

Work Order: 0601270

Project: OAPIS Week of 1/27/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 100ng lcs-full	SampType: LCS	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18125						
Client ID: ZZZZZ	Batch ID: R18125	TestNo: SW8260B		Analysis Date: 2/1/2006	SeqNo: 446814						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	17.75	1.0	20	0	88.8	70	130				
Trichloroethene (TOE)	18.97	1.0	20	0	94.8	85.6	119				
Trichlorofluoromethane	16.96	1.0	20	0	84.8	70	130				
1,2,3-Trichloropropane	18.41	2.0	20	0	92.0	70	130				
Vinyl chloride	17.01	1.0	20	0	85.0	70	130				
Xylenes, Total	58.74	1.0	60	0	97.9	70	130				

Sample ID: 100ng lcs	SampType: LCS	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18154						
Client ID: ZZZZZ	Batch ID: R18154	TestNo: SW8260B		Analysis Date: 2/3/2006	SeqNo: 447447						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	22.40	1.0	20	0	112	79.3	136				
Toluene	21.41	1.0	20	0	107	65.5	123				
Chlorobenzene	21.88	1.0	20	0	109	80.3	134				
1,1-Dichloroethane	20.73	1.0	20	0	104	65.5	134				
Trichloroethene (TCE)	23.20	1.0	20	0	116	85.6	119				

12 / 13

Qualifiers: 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 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

1/27/2006

Work Order Number 0601270

Received by LMM

Checklist completed by



1/27/06

Signature

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 - pH acceptable upon receipt?

Yes ☒

No ☐

N/A ☐

Container/Temp Blank temperature?

3°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

COVER LETTER

Wednesday, March 01, 2006

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

RE: OAPIS Effluent Week of 2-10-2006

Order No.: 0602104

Dear Steve Morris:

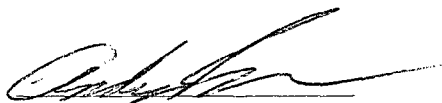
Hall Environmental Analysis Laboratory received 1 sample(s) on 2/10/2006 for the analyses presented in the following report.

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: 01-Mar-06

CLIENT: Giant Refining Co
Project: OAPIS Effluent Week of 2-10-2006
Lab Order: 0602104

CASE NARRATIVE

EPA Method 8310: The LCSD has RPD data that is slightly outside of the standard limits. All percent recoveries were within acceptable limits.

Hall Environmental Analysis Laboratory

Date: 01-Mar-06

CLIENT: Giant Refining Co
Lab Order: 0602104
Project: OAPIS Effluent Week of 2-10-2006
Lab ID: 0602104-01

Client Sample ID: OAPIS
Collection Date: 2/9/2006 8:00:00 AM
Date Received: 2/10/2006
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	5.5	1.0		mg/L	1	2/16/2006 12:01:10 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	2/16/2006 12:01:10 AM
Surr: DNOP	124	58-140		%REC	1	2/16/2006 12:01:10 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	4.1	1.0		mg/L	20	2/11/2006 3:54:35 AM
Surr: BFB	105	79.7-118		%REC	20	2/11/2006 3:54:35 AM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	230	25		µg/L	10	2/24/2006 12:53:42 PM
1-Methylnaphthalene	ND	2.5		µg/L	1	2/23/2006 11:18:00 PM
2-Methylnaphthalene	4.2	2.5		µg/L	1	2/23/2006 11:18:00 PM
Acenaphthylene	ND	2.5		µg/L	1	2/23/2006 11:18:00 PM
Acenaphthene	ND	2.5		µg/L	1	2/23/2006 11:18:00 PM
Fluorene	ND	0.80		µg/L	1	2/23/2006 11:18:00 PM
Phenanthrene	2.2	0.60		µg/L	1	2/23/2006 11:18:00 PM
Anthracene	ND	0.60		µg/L	1	2/23/2006 11:18:00 PM
Fluoranthene	0.35	0.30		µg/L	1	2/23/2006 11:18:00 PM
Pyrene	0.75	0.30		µg/L	1	2/23/2006 11:18:00 PM
Benz(a)anthracene	0.060	0.020		µg/L	1	2/23/2006 11:18:00 PM
Chrysene	0.23	0.20		µg/L	1	2/23/2006 11:18:00 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	2/23/2006 11:18:00 PM
Benzo(k)fluoranthene	0.020	0.020		µg/L	1	2/23/2006 11:18:00 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	2/23/2006 11:18:00 PM
Dibenz(a,h)anthracene	0.040	0.040		µg/L	1	2/23/2006 11:18:00 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	2/23/2006 11:18:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	2/23/2006 11:18:00 PM
Surr: Benzo(e)pyrene	69.4	54-102		%REC	1	2/23/2006 11:18:00 PM
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	ND	0.00020		mg/L	1	2/15/2006
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	2/17/2006 10:19:42 AM
Barium	0.22	0.020		mg/L	1	2/17/2006 10:19:42 AM
Cadmium	ND	0.0020		mg/L	1	2/17/2006 10:19:42 AM
Chromium	0.0090	0.0060		mg/L	1	2/17/2006 10:19:42 AM
Lead	ND	0.0050		mg/L	1	2/17/2006 10:19:42 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 01-Mar-06

CLIENT: Giant Refining Co
Lab Order: 0602104
Project: OAPIS Effluent Week of 2-10-2006
Lab ID: 0602104-01

Client Sample ID: OAPIS
Collection Date: 2/9/2006 8:00:00 AM
Date Received: 2/10/2006
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Selenium	ND	0.050		mg/L	1	2/17/2006 10:19:42 AM
Silver	ND	0.0050		mg/L	1	2/17/2006 10:19:42 AM
EPA METHOD 8260B: VOLATILES						Analyst: KTM
Benzene	340	50		µg/L	50	2/19/2006
Toluene	610	50		µg/L	50	2/19/2006
Ethylbenzene	ND	50		µg/L	50	2/19/2006
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	2/19/2006
1,2,4-Trimethylbenzene	95	50		µg/L	50	2/19/2006
1,3,5-Trimethylbenzene	60	50		µg/L	50	2/19/2006
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	2/19/2006
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	2/19/2006
Naphthalene	ND	100		µg/L	50	2/19/2006
1-Methylnaphthalene	ND	200		µg/L	50	2/19/2006
2-Methylnaphthalene	ND	200		µg/L	50	2/19/2006
Acetone	ND	500		µg/L	50	2/19/2006
Bromobenzene	ND	50		µg/L	50	2/19/2006
Bromochloromethane	ND	50		µg/L	50	2/19/2006
Bromodichloromethane	ND	50		µg/L	50	2/19/2006
Bromoform	ND	50		µg/L	50	2/19/2006
Bromomethane	ND	100		µg/L	50	2/19/2006
2-Butanone	ND	500		µg/L	50	2/19/2006
Carbon disulfide	ND	500		µg/L	50	2/19/2006
Carbon Tetrachloride	ND	100		µg/L	50	2/19/2006
Chlorobenzene	ND	50		µg/L	50	2/19/2006
Chloroethane	ND	100		µg/L	50	2/19/2006
Chloroform	ND	50		µg/L	50	2/19/2006
Chloromethane	ND	50		µg/L	50	2/19/2006
2-Chlorotoluene	ND	50		µg/L	50	2/19/2006
4-Chlorotoluene	ND	50		µg/L	50	2/19/2006
cis-1,2-DCE	ND	50		µg/L	50	2/19/2006
cis-1,3-Dichloropropene	ND	50		µg/L	50	2/19/2006
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	2/19/2006
Dibromochloromethane	ND	50		µg/L	50	2/19/2006
Dibromomethane	ND	100		µg/L	50	2/19/2006
1,2-Dichlorobenzene	ND	50		µg/L	50	2/19/2006
1,3-Dichlorobenzene	ND	50		µg/L	50	2/19/2006
1,4-Dichlorobenzene	ND	50		µg/L	50	2/19/2006
Dichlorodifluoromethane	ND	50		µg/L	50	2/19/2006
1,1-Dichloroethane	ND	100		µg/L	50	2/19/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 01-Mar-06

CLIENT: Giant Refining Co

Client Sample ID: OAPIS

Lab Order: 0602104

Collection Date: 2/9/2006 8:00:00 AM

Project: OAPIS Effluent Week of 2-10-2006

Date Received: 2/10/2006

Lab ID: 0602104-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

EPA METHOD 8260B: VOLATILES

Analyst: KTM

1,1-Dichloroethene	ND	50		µg/L	50	2/19/2006
1,2-Dichloropropane	ND	50		µg/L	50	2/19/2006
1,3-Dichloropropane	ND	50		µg/L	50	2/19/2006
2,2-Dichloropropane	ND	100		µg/L	50	2/19/2006
1,1-Dichloropropene	ND	50		µg/L	50	2/19/2006
Hexachlorobutadiene	ND	100		µg/L	50	2/19/2006
2-Hexanone	ND	500		µg/L	50	2/19/2006
Isopropylbenzene	ND	50		µg/L	50	2/19/2006
4-Isopropyltoluene	ND	50		µg/L	50	2/19/2006
4-Methyl-2-pentanone	ND	500		µg/L	50	2/19/2006
Methylene Chloride	ND	150		µg/L	50	2/19/2006
n-Butylbenzene	ND	50		µg/L	50	2/19/2006
n-Propylbenzene	ND	50		µg/L	50	2/19/2006
sec-Butylbenzene	ND	50		µg/L	50	2/19/2006
Styrene	ND	50		µg/L	50	2/19/2006
tert-Butylbenzene	ND	50		µg/L	50	2/19/2006
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	2/19/2006
1,1,2,2-Tetrachloroethane	ND	50		µg/L	50	2/19/2006
Tetrachloroethene (PCE)	ND	50		µg/L	50	2/19/2006
trans-1,2-DCE	ND	50		µg/L	50	2/19/2006
trans-1,3-Dichloropropene	ND	50		µg/L	50	2/19/2006
1,2,3-Trichlorobenzene	ND	50		µg/L	50	2/19/2006
1,2,4-Trichlorobenzene	ND	50		µg/L	50	2/19/2006
1,1,1-Trichloroethane	ND	50		µg/L	50	2/19/2006
1,1,2-Trichloroethane	ND	50		µg/L	50	2/19/2006
Trichloroethene (TCE)	ND	50		µg/L	50	2/19/2006
Trichlorofluoromethane	ND	50		µg/L	50	2/19/2006
1,2,3-Trichloropropane	ND	100		µg/L	50	2/19/2006
Vinyl chloride	ND	50		µg/L	50	2/19/2006
Xylenes, Total	810	50		µg/L	50	2/19/2006
Surr: 1,2-Dichloroethane-d4	96.6	69.9-130		%REC	50	2/19/2006
Surr: 4-Bromofluorobenzene	104	71.2-123		%REC	50	2/19/2006
Surr: Dibromofluoromethane	96.1	57.3-135		%REC	50	2/19/2006
Surr: Toluene-d8	103	81.9-122		%REC	50	2/19/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 01-Mar-06

CLIENT: Giant Refining Co

Work Order: 0602104

Project: OAPIS Effluent Week of 2-10-2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DRO_W

Sample ID: MB-9756	SampType: MBLK	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 2/13/2006	RunNo: 18235
Client ID: ZZZZZ	Batch ID: 9756	TestNo: SW8015		Analysis Date: 2/15/2006	SeqNo: 450713
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND	1.0			
Motor Oil Range Organics (MRO)	ND	5.0			

Sample ID: LCS-9756	SampType: LCS	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 2/13/2006	RunNo: 18235
Client ID: ZZZZZ	Batch ID: 9756	TestNo: SW8015		Analysis Date: 2/15/2006	SeqNo: 450714
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Diesel Range Organics (DRO)	5.134	1.0	5	0	103 81.2 149

Sample ID: LCSD-9756	SampType: LCSD	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 2/13/2006	RunNo: 18235
Client ID: ZZZZZ	Batch ID: 9756	TestNo: SW8015		Analysis Date: 2/15/2006	SeqNo: 450715
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Diesel Range Organics (DRO)	4.902	1.0	5	0	98.0 81.2 149 5.134 4.63 23

Qualifiers:	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	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: Giant Refining Co

Work Order: 0602104

Project: OAPIS Effluent Week of 2-10-2006

TestCode: 8015GRO_W

Sample ID: 5ML RB	Sample Type: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18225						
Client ID: ZZZZZ	Batch ID: R18225	TestNo: SW8015		Analysis Date: 2/10/2006	SeqNo: 449272						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050									

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18225						
Client ID: ZZZZZ	Batch ID: R18225	TestNo: SW8015		Analysis Date: 2/10/2006	SeqNo: 449273						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.5140	0.050	0.5	0	103	82.6	114				

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

CLIENT: Giant Refining Co

Work Order: 0602104

Project: OAPIS Effluent Week of 2-10-2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: MB-9801	SampType: MBLK	TestCode: 8310_W	Units: µg/L	Prep Date: 2/17/2006	RunNo: 18380						
Client ID: ZZZZZ	Batch ID: 9801	TestNo: SW8310	(SW3510C)	Analysis Date: 2/23/2006	SeqNo: 453446						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene ND 2.5
 1-Methylnaphthalene ND 2.5
 2-Methylnaphthalene ND 2.5
 Acenaphthylene ND 2.5
 Acenaphthene ND 2.5
 Fluorene ND 0.80
 Phenanthrene ND 0.60
 Anthracene ND 0.60
 Fluoranthene ND 0.30
 Pyrene ND 0.30
 Benz(a)anthracene ND 0.020
 Chrysene ND 0.20
 Benzo(b)fluoranthene ND 0.050
 Benzo(k)fluoranthene ND 0.020
 Benzo(a)pyrene ND 0.020
 Dibenzo(a,h)anthracene ND 0.040
 Benzo(g,h,i)perylene ND 0.030
 Indeno(1,2,3-cd)pyrene ND 0.080

Sample ID: MB-9785	SampType: MBLK	TestCode: 8310_W	Units: µg/L	Prep Date: 2/15/2006	RunNo: 18380						
Client ID: ZZZZZ	Batch ID: 9785	TestNo: SW8310	(SW3510C)	Analysis Date: 2/23/2006	SeqNo: 453453						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene ND 2.5
 1-Methylnaphthalene ND 2.5
 2-Methylnaphthalene ND 2.5
 Acenaphthylene ND 2.5
 Acenaphthene ND 2.5
 Fluorene ND 0.80
 Phenanthrene ND 0.60

Qualifiers: E Value above quantitation range

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
 Work Order: 0602104
 Project: OAPIS Effluent Week of 2-10-2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: MB-9785	SampType: MBLK	TestCode: 8310_W	Units: µg/L	Prep Date: 2/15/2006	RunNo: 18380						
Client ID: ZZZZZ	Batch ID: 9785	TestNo: SW8310	(SW3510C)	Analysis Date: 2/23/2006	SeqNo: 453453						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	ND	0.60									
Fluoranthene	ND	0.30									
Pyrene	ND	0.30									
Benz(a)anthracene	ND	0.020									
Chrysene	ND	0.20									
Benzo(b)fluoranthene	ND	0.050									
Benzo(k)fluoranthene	ND	0.020									
Benzo(a)pyrene	ND	0.020									
Dibenz(a,h)anthracene	ND	0.040									
Benzo(g,h,i)perylene	ND	0.030									
Indeno(1,2,3-cd)pyrene	ND	0.080									

Sample ID: LCS-9801	SampType: LCS	TestCode: 8310_W	Units: µg/L	Prep Date: 2/17/2006	RunNo: 18380						
Client ID: ZZZZZ	Batch ID: 9801	TestNo: SW8310	(SW3510C)	Analysis Date: 2/23/2006	SeqNo: 453447						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	22.76	2.5	40	0	56.9	34.8	97.4				
1-Methylnaphthalene	22.85	2.5	40.1	0	57.0	34.7	100				
2-Methylnaphthalene	22.32	2.5	40	0	55.8	35	98.1				
Acenaphthylene	24.16	2.5	40.1	0	60.2	48.3	95.1				
Acenaphthene	23.38	2.5	40	0	58.4	45	95				
Fluorene	2.320	0.80	4.01	0	57.9	46.8	93.4				
Phenanthrene	1.310	0.60	2.01	0	65.2	48.7	104				
Anthracene	1.230	0.60	2.01	0	61.2	47.5	102				
Fluoranthene	2.570	0.30	4.01	0	64.1	46.3	108				
Pyrene	2.690	0.30	4.01	0	67.1	43.8	109				
Benz(a)anthracene	0.2600	0.020	0.401	0	64.8	40.3	115				
Chrysene	1.370	0.20	2.01	0	68.2	42.6	107				
Benzo(b)fluoranthene	0.3100	0.050	0.501	0	61.9	48.6	107				
Benzo(k)fluoranthene	0.1600	0.020	0.25	0	64.0	23.3	136				

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

CLIENT: Giant Refining Co

Work Order: 0602104

Project: OAPIS Effluent Week of 2-10-2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: LCS-9801	SampType: LCS	TestCode: 8310_W	Units: µg/L	Prep Date: 2/17/2006	RunNo: 18380						
Client ID: ZZZZZ	Batch ID: 9801	TestNo: SW8310	(SW3510C)	Analysis Date: 2/23/2006	SeqNo: 453447						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzo(a)pyrene	0.1700	0.020	0.251	0	67.7	33.4	117				
Dibenz(a,h)anthracene	0.3400	0.040	0.501	0	67.9	27.3	139				
Benzo(g,h,i)perylene	0.3600	0.030	0.5	0	72.0	38.2	117				
Indeno(1,2,3-cd)pyrene	0.6520	0.080	1.002	0	65.1	39.9	125				

Sample ID: LCS-9785	SampType: LCS	TestCode: 8310_W	Units: µg/L	Prep Date: 2/15/2006	RunNo: 18380						
Client ID: ZZZZZ	Batch ID: 9785	TestNo: SW8310	(SW3510C)	Analysis Date: 2/23/2006	SeqNo: 453454						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	24.25	2.5	40	0	60.6	34.8	97.4				
1-Methylnaphthalene	24.06	2.5	40.1	0	60.0	34.7	100				
2-Methylnaphthalene	23.56	2.5	40	0	58.9	35	98.1				
2-Methylnaphthalene	26.32	2.5	40.1	0	65.6	48.3	95.1				
1-Methylnaphthalene	25.79	2.5	40	0	64.5	45	95				
Fluorene	2.670	0.80	4.01	0	66.6	46.8	93.4				
Phenanthrene	1.430	0.60	2.01	0	71.1	48.7	104				
Anthracene	1.480	0.60	2.01	0	73.6	47.5	102				
Fluoranthene	3.100	0.30	4.01	0	77.3	46.3	108				
Pyrene	3.150	0.30	4.01	0	78.6	43.8	109				
Benzo(a)anthracene	0.3000	0.020	0.401	0	74.8	40.3	115				
Chrysene	1.540	0.20	2.01	0	76.6	42.6	107				
Benzo(b)fluoranthene	0.3900	0.050	0.501	0	77.8	48.6	107				
Benzo(k)fluoranthene	0.1900	0.020	0.25	0	76.0	23.3	136				
Benzo(a)pyrene	0.2000	0.020	0.251	0	79.7	33.4	117				
Dibenz(a,h)anthracene	0.4000	0.040	0.501	0	79.8	27.3	139				
Benzo(g,h,i)perylene	0.4200	0.030	0.5	0	84.0	38.2	117				
Indeno(1,2,3-cd)pyrene	0.7800	0.080	1.002	0	77.8	39.9	125				

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0602104
Project: OAPIS Effluent Week of 2-10-2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: LCSD-9801	SampType: LCSD	TestCode: 8310_W	Units: µg/L	Prep Date: 2/17/2006	RunNo: 18380						
Client ID: ZZZZZ	Batch ID: 9801	TestNo: SW8310	(SW3510C)	Analysis Date: 2/23/2006	SeqNo: 453448						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	24.66	2.5	40	0	61.6	34.8	97.4	22.76	8.01	32.1	
1-Methylnaphthalene	23.80	2.5	40.1	0	59.4	34.7	100	22.85	4.07	32.7	
2-Methylnaphthalene	23.36	2.5	40	0	58.4	35	98.1	22.32	4.55	34	
Acenaphthylene	24.98	2.5	40.1	0	62.3	48.3	95.1	24.16	3.35	38.8	
Acenaphthene	24.39	2.5	40	0	61.0	45	95	23.38	4.23	38.6	
Fluorene	2.420	0.80	4.01	0	60.3	46.8	93.4	2.32	4.22	39.3	
Phenanthrene	1.270	0.60	2.01	0	63.2	48.7	104	1.31	3.10	25	
Anthracene	1.300	0.60	2.01	0	64.7	47.5	102	1.23	5.53	23.9	
Fluoranthene	2.720	0.30	4.01	0	67.8	46.3	108	2.57	5.67	15.7	
Pyrene	2.860	0.30	4.01	0	71.3	43.8	109	2.69	6.13	15.3	
Benz(a)anthracene	0.2800	0.020	0.401	0	69.8	40.3	115	0.26	7.41	119	
Chrysene	1.400	0.20	2.01	0	69.7	42.6	107	1.37	2.17	16.6	
Benzo(b)fluoranthene	0.3200	0.050	0.501	0	63.9	48.6	107	0.31	3.17	21.7	
Benzo(k)fluoranthene	0.1700	0.020	0.25	0	68.0	23.3	136	0.16	6.06	19.4	
Benzo(a)pyrene	0.1900	0.020	0.251	0	75.7	33.4	117	0.17	11.1	16.7	
Dibenz(a,h)anthracene	0.3500	0.040	0.501	0	69.9	27.3	139	0.34	2.90	17.3	
Benzo(g,h,i)perylene	0.3800	0.030	0.5	0	76.0	38.2	117	0.36	5.41	118	
Indeno(1,2,3-cd)pyrene	0.6920	0.080	1.002	0	69.1	39.9	125	0.652	5.95	17.7	

Sample ID: LCSD-9785	SampType: LCSD	TestCode: 8310_W	Units: µg/L	Prep Date: 2/15/2006	RunNo: 18380						
Client ID: ZZZZZ	Batch ID: 9785	TestNo: SW8310	(SW3510C)	Analysis Date: 2/23/2006	SeqNo: 453455						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	16.55	2.5	40	0	41.4	34.8	97.4	24.25	37.7	32.1	R
1-Methylnaphthalene	17.15	2.5	40.1	0	42.8	34.7	100	24.06	33.5	32.7	R
2-Methylnaphthalene	16.72	2.5	40	0	41.8	35	98.1	23.56	34.0	34	
Acenaphthylene	20.10	2.5	40.1	0	50.1	48.3	95.1	26.32	26.8	38.8	
Acenaphthene	19.67	2.5	40	0	49.2	45	95	25.79	26.9	38.6	
Fluorene	2.100	0.80	4.01	0	52.4	46.8	93.4	2.67	23.9	39.3	
Phenanthrene	1.150	0.60	2.01	0	57.2	48.7	104	1.43	21.7	25	

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

CLIENT: Giant Refining Co
 Work Order: 0602104
 Project: OAPIS Effluent Week of 2-10-2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: LCSD-9785		SampType: LCSD		TestCode: 8310_W		Units: µg/L		Prep Date: 2/15/2006		RunNo: 18380	
Client ID: ZZZZZ		Batch ID: 9785		TestNo: SW8310		(SW3510C)		Analysis Date: 2/23/2006		SeqNo: 453455	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	1.180	0.60	2.01	0	58.7	47.5	102	1.48	22.6	23.9	
Fluoranthene	2.620	0.30	4.01	0	65.3	46.3	108	3.1	16.8	15.7	R
Pyrene	2.590	0.30	4.01	0	64.6	43.8	109	3.15	19.5	15.3	R
Benz(a)anthracene	0.2400	0.020	0.401	0	59.9	40.3	115	0.3	22.2	119	
Chrysene	1.260	0.20	2.01	0	62.7	42.6	107	1.54	20.0	16.6	R
Benzo(b)fluoranthene	0.3100	0.050	0.501	0	61.9	48.6	107	0.39	22.9	21.7	R
Benzo(k)fluoranthene	0.1600	0.020	0.25	0	64.0	23.3	136	0.19	17.1	19.4	
Benzo(a)pyrene	0.1700	0.020	0.251	0	67.7	33.4	117	0.2	16.2	16.7	
Dibenz(a,h)anthracene	0.3300	0.040	0.501	0	65.9	27.3	139	0.4	19.2	17.3	R
Benzo(g,h,i)perylene	0.3500	0.030	0.5	0	70.0	38.2	117	0.42	18.2	118	
Indeno(1,2,3-cd)pyrene	0.6300	0.080	1.002	0	62.9	39.9	125	0.78	21.3	17.7	R

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

CLIENT: Giant Refining Co
Work Order: 0602104
Project: OAPIS Effluent Week of 2-10-2006

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTW

Sample ID: MB-9774	SampType: MBLK	TestCode: HG_CTW	Units: mg/L	Prep Date: 2/15/2006	RunNo: 18273						
Client ID: ZZZZZ	Batch ID: 9774	TestNo: SW7470	(SW7470)	Analysis Date: 2/15/2006	SeqNo: 450494						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.00020									

Sample ID: LCS-9774	SampType: LCS	TestCode: HG_CTW	Units: mg/L	Prep Date: 2/15/2006	RunNo: 18273						
Client ID: ZZZZZ	Batch ID: 9774	TestNo: SW7470	(SW7470)	Analysis Date: 2/15/2006	SeqNo: 450495						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004592	0.00020	0.005	0	91.8	80	120				

Qualifiers:	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	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
 Work Order: 0602104
 Project: OAPIS Effluent Week of 2-10-2006

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS_TOTAL

Sample ID: MB-9790	SampType: MBLK	TestCode: METALS_TOTAL	Units: mg/L	Prep Date: 2/16/2006	RunNo: 18305						
Client ID: ZZZZZ	Batch ID: 9790	TestNo: SW6010A		Analysis Date: 2/17/2006	SeqNo: 451487						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.020									
Barium	ND	0.020									
Cadmium	ND	0.0020									
Chromium	ND	0.0060									
Lead	ND	0.0050									
Selenium	ND	0.050									
Silver	ND	0.0050									

Sample ID: LCS-9790	SampType: LCS	TestCode: METALS_TOTAL	Units: mg/L	Prep Date: 2/16/2006	RunNo: 18305						
Client ID: ZZZZZ	Batch ID: 9790	TestNo: SW6010A		Analysis Date: 2/17/2006	SeqNo: 451488						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.5078	0.020	0.5	0	102	80	120				
Barium	0.4677	0.020	0.5	0	93.5	80	120				
Cadmium	0.4914	0.0020	0.5	0	98.3	80	120				
Chromium	0.4802	0.0060	0.5	0	96.0	80	120				
Lead	0.4686	0.0050	0.5	0	93.7	80	120				
Selenium	0.4994	0.050	0.5	0	99.9	80	120				
Silver	0.4998	0.0050	0.5	0.001336	99.6	80	120				

Sample ID: LCSD-9790	SampType: LCSD	TestCode: METALS_TO	Units: mg/L	Prep Date: 2/16/2006	RunNo: 18305						
Client ID: ZZZZZ	Batch ID: 9790	TestNo: SW6010A		Analysis Date: 2/17/2006	SeqNo: 451489						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.5035	0.020	0.5	0	101	80	120	0.5078	0.848	20	
Barium	0.4740	0.020	0.5	0	94.8	80	120	0.4677	1.34	20	
Cadmium	0.4902	0.0020	0.5	0	98.0	80	120	0.4914	0.239	20	
Chromium	0.4776	0.0060	0.5	0	95.5	80	120	0.4802	0.533	20	
Lead	0.4659	0.0050	0.5	0	93.2	80	120	0.4686	0.589	20	
Selenium	0.5076	0.050	0.5	0	102	80	120	0.4994	1.63	20	

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: Giant Refining Co
 Work Order: 0602104
 Project: OAPIS Effluent Week of 2-10-2006

TestCode: METALS_TOTAL

Sample ID: LCSD-9790	SampType: LCSD	TestCode: METALS_TO	Units: mg/L	Prep Date: 2/16/2006	RunNo: 18305						
Client ID: ZZZZZ	Batch ID: 9790	TestNo: SW6010A		Analysis Date: 2/17/2006	SeqNo: 451489						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.5082	0.0050	0.5	0.001836	101	80	120	0.4998	1.66	20	

Qualifiers:	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	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

Full Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

2/10/2006

Work Order Number 0602104

Received by

LMM

Checklist completed by

Lisa Healy
Signature

2/10/06
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 - pH acceptable upon receipt?

Yes ☒

No ☐

N/A ☐

Container/Temp Blank temperature?

3°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.3976
www.hallenvironmental.com

ANALYSIS REQUEST

8270 (Semi)-VOA)	
8260B (VOA)	
8081 Pesticides / PCB's (8082)	
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
RCRA 8 Metals	<i>Total</i>
8310 LEA or PAH)	
EDC (Method 8021)	
EDB (Method 504.1)	
TPH (Method 418.1)	
TPH Method 8015B (Gas/Diesel)	
BTEX + MTBE + TPH (Gasoline Or	
BTEX + MTBE + TMB's (8021)	

Remarks: Ruch

CHAIN-OF-CUSTODY RECORD					QA / QC Package:		
					Std ☐	Level 4 ☐	
Client: <u>Giant Refining</u>					Other:		
Company: <u>Limpa</u>					Project Name: <u>OAPIS Effluent</u>		
Address: <u>Route 3 Box 7</u>					Project #: <u>Week of 2-10-2006</u>		
<u>Falling 87301</u>					Project Manager: <u>Steve Albright</u>		
Phone #: <u>505 722 3833</u>					Sampler: <u>Steve Albright</u>		
Fax #: <u>505 722 0210</u>					Sample Temperature: <u>30</u>		
Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
12/06	0800	H ₂ O	OAPIS		HgCl ₂	HNO ₃	0602104
							-1
Date: <u>12/9/06</u>	Time: <u>0700</u>	Relinquished By: (Signature) <u>Steve Albright</u>		Received By: (Signature) <u>Steve Albright</u>	1147		
Date:	Time:	Relinquished By: (Signature)		Received By: (Signature)			

COVER LETTER

Monday, December 11, 2006

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

RE: Secondary Containment Oil Water Sep. (4t

Order No.: 0611288

Dear Steve Morris:

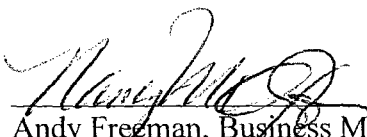
Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 11/21/2006 for the analyses presented in the following report.

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

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001



Hall Environmental Analysis Laboratory, Inc.

Date: 11-Dec-06

CLIENT:	Giant Refining Co	Client Sample ID:	Oil Water Sep. H2O
Lab Order:	0611288	Collection Date:	11/21/2006 10:15:00 AM
Project:	Secondary Containment Oil Water Sep. (4th QT	Date Received:	11/21/2006
Lab ID:	0611288-01	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: ADM
Diesel Range Organics (DRO)	7.4	1.0		mg/L	1	11/30/2006 1:41:16 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/30/2006 1:41:16 AM
Surr: DNOP	86.1	58-140		%REC	1	11/30/2006 1:41:16 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	1.4	0.25		mg/L	5	12/4/2006 1:37:34 PM
Surr: BFB	109	79.2-121		%REC	5	12/4/2006 1:37:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	39	12		µg/L	5	12/4/2006 1:37:34 PM
Benzene	140	5.0		µg/L	5	12/4/2006 1:37:34 PM
Toluene	340	5.0		µg/L	5	12/4/2006 1:37:34 PM
Ethylbenzene	13	5.0		µg/L	5	12/4/2006 1:37:34 PM
Xylenes, Total	110	15		µg/L	5	12/4/2006 1:37:34 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/L	5	12/4/2006 1:37:34 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/L	5	12/4/2006 1:37:34 PM
Surr: 4-Bromofluorobenzene	84.3	70.2-105		%REC	5	12/4/2006 1:37:34 PM
EPA METHOD 7470: MERCURY						Analyst: MAP
Mercury	ND	0.00020		mg/L	1	12/7/2006
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	0.051	0.020		mg/L	1	11/29/2006 10:03:14 AM
Barium	0.030	0.020		mg/L	1	11/29/2006 10:03:14 AM
Cadmium	ND	0.0020		mg/L	1	11/29/2006 10:03:14 AM
Chromium	ND	0.0060		mg/L	1	11/29/2006 10:03:14 AM
Lead	ND	0.0050		mg/L	1	11/29/2006 10:03:14 AM
Selenium	ND	0.050		mg/L	1	11/29/2006 10:03:14 AM
Silver	ND	0.0050		mg/L	1	11/29/2006 10:03:14 AM

Qualifiers:	* 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	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: Giant Refining Co
 Project: Secondary Containment Oil Water Sep. (4th QT)

Work Order: 0611288

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8015									
Sample ID: MB-11850		MBLK							
Diesel Range Organics (DRO)	ND	mg/L	1.0						
Motor Oil Range Organics (MRO)	ND	mg/L	5.0						
Sample ID: LCS-11850		LCS							
Diesel Range Organics (DRO)	5.254	mg/L	1.0	105	74	157			
Sample ID: LCSD-11850		LCSD							
Diesel Range Organics (DRO)	5.562	mg/L	1.0	111	74	157	5.70	23	
Method: SW8015									
Sample ID: 5ML RB		MBLK							
Gasoline Range Organics (GRO)	ND	mg/L	0.050						
Sample ID: B		MBLK							
Gasoline Range Organics (GRO)	ND	mg/L	0.050						
Sample ID: 2.5UG GRO LCS		LCS							
Gasoline Range Organics (GRO)	0.4474	mg/L	0.050	89.5	80	115			
Sample ID: 2.5UG GRO LCS		LCS							
Gasoline Range Organics (GRO)	0.4532	mg/L	0.050	90.6	80	115			
Sample ID: 2.5UG GRO LCSD		LCSD							
Gasoline Range Organics (GRO)	0.4486	mg/L	0.050	89.7	80	115	0.268	8.39	
Sample ID: 2.5UG GRO LCSD		LCSD							
Gasoline Range Organics (GRO)	0.4570	mg/L	0.050	91.4	80	115	0.835	8.39	

Qualifiers:

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
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: Secondary Containment Oil Water Sep. (4th QT)

Work Order: 0611288

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8021

Sample ID: 5ML RB

MBLK

Batch ID: R21633 Analysis Date: 11/30/2006 8:50:27 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	3.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						

Sample ID: B

MBLK

Batch ID: R21651 Analysis Date: 12/4/2006 10:18:30 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	3.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						

Sample ID: 125NG BTEX CCV-B

LCS

Batch ID: R21633 Analysis Date: 12/1/2006 8:28:43 AM

Methyl tert-butyl ether (MTBE)	50.13	µg/L	2.5	100	51.2	138			
Benzene	24.67	µg/L	1.0	98.7	85.9	113			
Toluene	24.24	µg/L	1.0	97.0	86.4	113			
Ethylbenzene	23.65	µg/L	1.0	94.6	83.5	118			
Xylenes, Total	71.15	µg/L	3.0	94.9	83.4	122			
1,2,4-Trimethylbenzene	23.62	µg/L	1.0	94.5	83.5	115			
1,3,5-Trimethylbenzene	23.75	µg/L	1.0	95.0	85.2	113			

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R21651 Analysis Date: 12/4/2006 10:24:45 PM

Methyl tert-butyl ether (MTBE)	37.85	µg/L	2.5	94.6	51.2	138			
Benzene	18.14	µg/L	1.0	90.7	85.9	113			
Toluene	17.86	µg/L	1.0	89.3	86.4	113			
Ethylbenzene	17.30	µg/L	1.0	86.5	83.5	118			
Xylenes, Total	52.11	µg/L	3.0	86.8	83.4	122			
1,2,4-Trimethylbenzene	17.90	µg/L	1.0	89.5	83.5	115			
1,3,5-Trimethylbenzene	17.93	µg/L	1.0	89.7	85.2	113			

Sample ID: 100NG BTEX LCSD

LCSD

Batch ID: R21651 Analysis Date: 12/4/2006 10:54:40 PM

Methyl tert-butyl ether (MTBE)	36.81	µg/L	2.5	92.0	51.2	138	2.79	28	
Benzene	18.02	µg/L	1.0	90.1	85.9	113	0.686	27	
Toluene	17.73	µg/L	1.0	88.7	86.4	113	0.719	19	
Ethylbenzene	17.17	µg/L	1.0	85.9	83.5	118	0.766	10	
Xylenes, Total	51.71	µg/L	3.0	86.2	83.4	122	0.774	13	
1,2,4-Trimethylbenzene	17.63	µg/L	1.0	88.2	83.5	115	1.53	21	
1,3,5-Trimethylbenzene	17.60	µg/L	1.0	88.0	85.2	113	1.87	10	

Qualifiers:

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
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Giant Refining Co
Project: Secondary Containment Oil Water Sep. (4th QT)

Work Order: 0611288

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW7470

Sample ID: MB-11934

MBLK

Batch ID: 11934 Analysis Date: 12/7/2006

Mercury ND mg/L 0.00020

Sample ID: LCS-11934

LCS

Batch ID: 11934 Analysis Date: 12/7/2006

Mercury 0.004878 mg/L 0.00020 96.4 80 120

Method: SW6010A

Sample ID: MB-11852

MBLK

Batch ID: 11852 Analysis Date: 11/29/2006 9:06:59 AM

Arsenic ND mg/L 0.020

Barium ND mg/L 0.020

Cadmium ND mg/L 0.0020

Chromium ND mg/L 0.0060

Lead ND mg/L 0.0050

Selenium ND mg/L 0.050

Silver ND mg/L 0.0050

Sample ID: LCS-11852

LCS

Batch ID: 11852 Analysis Date: 11/29/2006 9:10:03 AM

Arsenic 0.5132 mg/L 0.020 103 80 120

Barium 0.4694 mg/L 0.020 93.9 80 120

Cadmium 0.4746 mg/L 0.0020 94.8 80 120

Chromium 0.4779 mg/L 0.0060 95.6 80 120

Lead 0.4836 mg/L 0.0050 96.7 80 120

Selenium 0.4631 mg/L 0.050 92.6 80 120

Silver 0.4764 mg/L 0.0050 95.0 80 120

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, Inc.

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

11/21/2006

Work Order Number 0611288

Received by GLS

Checklist completed by

Signature

Date

Matrix

Carrier name

Client drop-off

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?

3°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

**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

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline 0
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 ₃ , PO ₄ , SO ₄)	8081 Pesticides / PCB's (8082)
8260B (VOA)	8270 (Semi-VOA)
Air Bubbles or Headspace (Y or N)	

Remarks:

CHAIN-OF-CUSTODY RECORD					QA / QC Package: Std ☐ Level 4 ☐				
Client: <u>Grant Refinery</u> <u>Cruz</u>					Other: _____				
Address: <u>Rt 3 Box 17</u> <u>Callup NM 87301</u>					Project Name: <u>Ordinary Containment</u> <u>Oil Water Sep. (4th flr)</u>				
Phone #: <u>505.722-0231</u>					Project #: _____				
Fax #: <u>505.722-0268</u>					Project Manager: _____				
Date: _____					Sampler: <u>Chem Johnson</u>				
Time: _____					Sample Temperature: <u>3°</u>				
Matrix: _____					Number/Volume: _____				
Sample I.D. No. _____					Preservative: _____				
Date: _____					HEAL No. _____				
1-21-06	10:15	H ₂ O	Oil Water Sep. H ₂ O	3/NOA		HNO ₃	HCl	HCl	0611288
21-06	10:15	"	"	3/3DA			HCl	HCl	-
21-06	10:15	"	"	1/500ml		X			-





COVER LETTER

Tuesday, July 18, 2006

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

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

RE: Pilot Travel Center 2nd Quarter 2006

Order No.: 0606101

Dear Steve Morris:

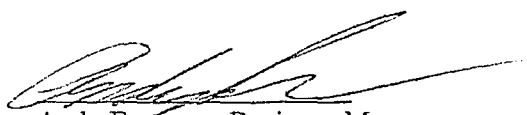
Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 6/9/2006 for the analyses presented in the following report.

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, Inc.

Date: 18-Jul-06

CLIENT: Giant Refining Co
Project: Pilot Travel Center 2nd Quarter 2006

Lab Order: 0606101

Lab ID: 0606101-01
Client Sample ID: Pilot TC-2 QTR.

Collection Date: 6/8/2006 8:45:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7470: MERCURY						
Mercury	ND	0.00020		mg/L	1	Analyst: CMC 6/20/2006
EPA 6010: TOTAL RECOVERABLE METALS						
Arsenic	ND	0.020		mg/L	1	Analyst: NMO 6/21/2006 2:42:32 PM
Barium	ND	0.020		mg/L	1	6/21/2006 2:42:32 PM
Cadmium	ND	0.0020		mg/L	1	6/21/2006 2:42:32 PM
Chromium	ND	0.0060		mg/L	1	6/21/2006 2:42:32 PM
Lead	ND	0.0050		mg/L	1	6/21/2006 2:42:32 PM
Selenium	ND	0.050		mg/L	1	6/21/2006 2:42:32 PM
Silver	ND	0.0050		mg/L	1	6/21/2006 2:42:32 PM
EPA METHOD 8270C: SEMIVOLATILES						
Acenaphthene	ND	100		µg/L	5	Analyst: BL 7/14/2006
Acenaphthylene	ND	100		µg/L	5	7/14/2006
Aniline	ND	200		µg/L	5	7/14/2006
Anthracene	ND	100		µg/L	5	7/14/2006
Azobenzene	ND	100		µg/L	5	7/14/2006
Benz(a)anthracene	ND	150		µg/L	5	7/14/2006
Benzo(a)pyrene	ND	150		µg/L	5	7/14/2006
Benzo(b)fluoranthene	ND	150		µg/L	5	7/14/2006
Benzo(g,h,i)perylene	ND	100		µg/L	5	7/14/2006
Benzo(k)fluoranthene	ND	100		µg/L	5	7/14/2006
Benzoic acid	770	500		µg/L	5	7/14/2006
Benzyl alcohol	ND	200		µg/L	5	7/14/2006
Bis(2-chloroethoxy)methane	ND	100		µg/L	5	7/14/2006
Bis(2-chloroethyl)ether	ND	150		µg/L	5	7/14/2006
Bis(2-chloroisopropyl)ether	ND	150		µg/L	5	7/14/2006
Bis(2-ethylhexyl)phthalate	ND	150		µg/L	5	7/14/2006
4-Bromophenyl phenyl ether	ND	100		µg/L	5	7/14/2006
Butyl benzyl phthalate	ND	150		µg/L	5	7/14/2006
Carbazole	ND	100		µg/L	5	7/14/2006
4-Chloro-3-methylphenol	ND	200		µg/L	5	7/14/2006
4-Chloroaniline	ND	200		µg/L	5	7/14/2006
2-Chloronaphthalene	ND	100		µg/L	5	7/14/2006
2-Chlorophenol	ND	100		µg/L	5	7/14/2006
4-Chlorophenyl phenyl ether	ND	150		µg/L	5	7/14/2006
Chrysene	ND	150		µg/L	5	7/14/2006
Di-n-butyl phthalate	ND	100		µg/L	5	7/14/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 18-Jul-06

CLIENT: Giant Refining Co
Project: Pilot Travel Center 2nd Quarter 2006

Lab Order: 0606101

EPA METHOD 8270C: SEMIVOLATILES

Analyst: BL

Di-n-octyl phthalate	ND	150	µg/L	5	7/14/2006
Dibenz(a,h)anthracene	ND	100	µg/L	5	7/14/2006
Dibenzofuran	ND	100	µg/L	5	7/14/2006
1,2-Dichlorobenzene	ND	100	µg/L	5	7/14/2006
1,3-Dichlorobenzene	ND	100	µg/L	5	7/14/2006
1,4-Dichlorobenzene	ND	100	µg/L	5	7/14/2006
3,3'-Dichlorobenzidine	ND	150	µg/L	5	7/14/2006
Diethyl phthalate	ND	100	µg/L	5	7/14/2006
Dimethyl phthalate	ND	100	µg/L	5	7/14/2006
2,4-Dichlorophenol	ND	100	µg/L	5	7/14/2006
2,4-Dimethylphenol	ND	100	µg/L	5	7/14/2006
4,6-Dinitro-2-methylphenol	ND	500	µg/L	5	7/14/2006
2,4-Dinitrophenol	ND	500	µg/L	5	7/14/2006
2,4-Dinitrotoluene	ND	100	µg/L	5	7/14/2006
2,6-Dinitrotoluene	ND	100	µg/L	5	7/14/2006
Fluoranthene	ND	100	µg/L	5	7/14/2006
Fluorene	ND	100	µg/L	5	7/14/2006
Hexachlorobenzene	ND	100	µg/L	5	7/14/2006
Hexachlorobutadiene	ND	100	µg/L	5	7/14/2006
Hexachlorocyclopentadiene	ND	100	µg/L	5	7/14/2006
Hexachloroethane	ND	100	µg/L	5	7/14/2006
Indeno(1,2,3-cd)pyrene	ND	100	µg/L	5	7/14/2006
Isophorone	ND	100	µg/L	5	7/14/2006
2-Methylnaphthalene	ND	100	µg/L	5	7/14/2006
2-Methylphenol	ND	150	µg/L	5	7/14/2006
3+4-Methylphenol	330	200	µg/L	5	7/14/2006
N-Nitrosodi-n-propylamine	ND	100	µg/L	5	7/14/2006
N-Nitrosodimethylamine	ND	100	µg/L	5	7/14/2006
N-Nitrosodiphenylamine	ND	100	µg/L	5	7/14/2006
Naphthalene	ND	100	µg/L	5	7/14/2006
2-Nitroaniline	ND	500	µg/L	5	7/14/2006
3-Nitroaniline	ND	500	µg/L	5	7/14/2006
4-Nitroaniline	ND	200	µg/L	5	7/14/2006
Nitrobenzene	ND	100	µg/L	5	7/14/2006
2-Nitrophenol	ND	150	µg/L	5	7/14/2006
4-Nitrophenol	ND	500	µg/L	5	7/14/2006
Pentachlorophenol	ND	500	µg/L	5	7/14/2006
Phenanthrene	ND	100	µg/L	5	7/14/2006
Phenol	ND	100	µg/L	5	7/14/2006
Pyrene	ND	150	µg/L	5	7/14/2006
Pyridine	ND	300	µg/L	5	7/14/2006
1,2,4-Trichlorobenzene	ND	100	µg/L	5	7/14/2006
2,4,5-Trichlorophenol	ND	100	µg/L	5	7/14/2006
2,4,6-Trichlorophenol	ND	150	µg/L	5	7/14/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 18-Jul-06

CLIENT: Giant Refining Co
Project: Pilot Travel Center 2nd Quarter 2006

Lab Order: 0606101

EPA METHOD 8270C: SEMIVOLATILES

Analyst: BL

Surr: 2,4,6-Tribromophenol	83.6	16.6-150	%REC	5	7/14/2006
Surr: 2-Fluorobiphenyl	68.7	19.6-134	%REC	5	7/14/2006
Surr: 2-Fluorophenol	47.6	9.54-113	%REC	5	7/14/2006
Surr: 4-Terphenyl-d14	84.8	22.7-145	%REC	5	7/14/2006
Surr: Nitrobenzene-d5	64.1	14.6-134	%REC	5	7/14/2006
Surr: Phenol-d5	38.4	10.7-80.3	%REC	5	7/14/2006

EPA METHOD 8260B: VOLATILES

Analyst: KTM

Benzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Toluene	9.8	1.0	µg/L	1	6/12/2006 6:10:59 PM
Ethylbenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Methyl tert-butyl ether (MTBE)	ND	1.5	µg/L	1	6/12/2006 6:10:59 PM
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,2-Dichloroethane (EDC)	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Naphthalene	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
1-Methylnaphthalene	ND	4.0	µg/L	1	6/12/2006 6:10:59 PM
2-Methylnaphthalene	ND	4.0	µg/L	1	6/12/2006 6:10:59 PM
Acetone	900	100	µg/L	10	6/10/2006 6:17:34 AM
Bromobenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Bromochloromethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Bromodichloromethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Bromoform	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Bromomethane	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
2-Butanone	ND	10	µg/L	1	6/12/2006 6:10:59 PM
Carbon disulfide	ND	10	µg/L	1	6/12/2006 6:10:59 PM
Carbon Tetrachloride	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
Chlorobenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Chloroethane	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
Chloroform	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Chloromethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
2-Chlorotoluene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
4-Chlorotoluene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
cis-1,2-DCE	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
Dibromochloromethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Dibromomethane	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
1,2-Dichlorobenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,3-Dichlorobenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,4-Dichlorobenzene	5.1	1.0	µg/L	1	6/12/2006 6:10:59 PM
Dichlorodifluoromethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,1-Dichloroethane	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 18-Jul-06

CLIENT: Giant Refining Co
Project: Pilot Travel Center 2nd Quarter 2006

Lab Order: 0606101

EPA METHOD 8260B: VOLATILES

Analyst: KTM

1,1-Dichloroethene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,2-Dichloropropane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,3-Dichloropropane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
2,2-Dichloropropane	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
1,1-Dichloropropene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Hexachlorobutadiene	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
2-Hexanone	ND	10	µg/L	1	6/12/2006 6:10:59 PM
Isopropylbenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
4-Isopropyltoluene	6.6	1.0	µg/L	1	6/12/2006 6:10:59 PM
4-Methyl-2-pentanone	ND	10	µg/L	1	6/12/2006 6:10:59 PM
Methylene Chloride	ND	3.0	µg/L	1	6/12/2006 6:10:59 PM
n-Butylbenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
n-Propylbenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
sec-Butylbenzene	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
Styrene	ND	1.5	µg/L	1	6/12/2006 6:10:59 PM
tert-Butylbenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
trans-1,2-DCE	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,1,1-Trichloroethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,1,2-Trichloroethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Trichloroethene (TCE)	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Trichlorofluoromethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,2,3-Trichloropropane	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
Vinyl chloride	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Xylenes, Total	ND	3.0	µg/L	1	6/12/2006 6:10:59 PM
Surr: 1,2-Dichloroethane-d4	87.9	69.9-130	%REC	1	6/12/2006 6:10:59 PM
Surr: 4-Bromofluorobenzene	103	75-139	%REC	1	6/12/2006 6:10:59 PM
Surr: Dibromofluoromethane	92.3	57.3-135	%REC	1	6/12/2006 6:10:59 PM
Surr: Toluene-d8	97.3	81.9-122	%REC	1	6/12/2006 6:10:59 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

HALL ENVIRONMENTAL
attn: ANDY FREEMAN
4901 HAWKINS NE, SUITE D
ALBUQUERQUE NM 87109-4372

Explanation of codes	
B	Analyte Detected in Method Blank
E	Result is Estimated
H	Analyzed Out of Hold Time
N	Tentatively Identified Compound
S	Subcontracted
1-9	See Footnote

STANDARD

Assaigal Analytical Laboratories, Inc.

Certificate of Analysis

All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).

Client: HALL ENVIRONMENTAL
Project: 0606101
Order: 0606215 HAL03 Receipt: 06-09-06

William P. Blava: President of Assaigal Analytical Laboratories, Inc.

Sample: 0606101-01D/ PILOT TC-2 QTR.

Collected: 06-08-06 8:45:00 By:

Matrix: AQUEOUS

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0606215-0001A			EPA 405.1 Biochemical Oxygen Demand					By: NJL		
BOD06071	WC.2006.1470.5	10-26-4	Biochemical Oxygen Demand	472	mg/L	1	2		06-09-06	06-14-06

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND Indicates Not Detected, i.e. result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

Analytical results are not corrected for method blank or field blank contamination.

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: Pilot Travel Center 2nd Quarter 2006

Work Order: 0606101

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8270C

Sample ID: MB-10617

MBLK

Batch ID: 10617 Analysis Date: 7/14/2006

Acenaphthene	ND	µg/L	10
Acenaphthylene	ND	µg/L	10
Aniline	ND	µg/L	20
Anthracene	ND	µg/L	10
Azobenzene	ND	µg/L	10
Benz(a)anthracene	ND	µg/L	15
Benzo(a)pyrene	ND	µg/L	15
Benzo(b)fluoranthene	ND	µg/L	15
Benzo(g,h,i)perylene	ND	µg/L	10
Benzo(k)fluoranthene	ND	µg/L	10
Benzoic acid	ND	µg/L	50
Benzyl alcohol	ND	µg/L	20
Bis(2-chloroethoxy)methane	ND	µg/L	10
Bis(2-chloroethyl)ether	ND	µg/L	15
Bis(2-chloroisopropyl)ether	ND	µg/L	15
Bis(2-ethylhexyl)phthalate	ND	µg/L	15
4-Bromophenyl phenyl ether	ND	µg/L	10
Butyl benzyl phthalate	ND	µg/L	15
Carbazole	ND	µg/L	10
4-Chloro-3-methylphenol	ND	µg/L	20
4-Chloroaniline	ND	µg/L	20
2-Chloronaphthalene	ND	µg/L	10
2-Chlorophenol	ND	µg/L	10
4-Chlorophenyl phenyl ether	ND	µg/L	15
Chrysene	ND	µg/L	15
Di-n-butyl phthalate	ND	µg/L	10
Di-n-octyl phthalate	ND	µg/L	15
Dibenz(a,h)anthracene	ND	µg/L	10
Dibenzofuran	ND	µg/L	10
1,2-Dichlorobenzene	ND	µg/L	10
1,3-Dichlorobenzene	ND	µg/L	10
1,4-Dichlorobenzene	ND	µg/L	10
3,3'-Dichlorobenzidine	ND	µg/L	15
Diethyl phthalate	ND	µg/L	10
Dimethyl phthalate	ND	µg/L	10
2,4-Dichlorophenol	ND	µg/L	10
2,4-Dimethylphenol	ND	µg/L	10
4,6-Dinitro-2-methylphenol	ND	µg/L	50
2,4-Dinitrophenol	ND	µg/L	50
2,4-Dinitrotoluene	ND	µg/L	10
2,6-Dinitrotoluene	ND	µg/L	10
Fluoranthene	ND	µg/L	10
Fluorene	ND	µg/L	10
Hexachlorobenzene	ND	µg/L	10

Qualifiers:

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
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: Pilot Travel Center 2nd Quarter 2006

Work Order: 0606101

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8270C

Sample ID: MB-10617

MBLK

Batch ID:

10617

Analysis Date:

7/14/2006

Hexachlorobutadiene	ND	µg/L	10
Hexachlorocyclopentadiene	ND	µg/L	10
Hexachloroethane	ND	µg/L	10
Indeno(1,2,3-cd)pyrene	ND	µg/L	10
Isophorone	ND	µg/L	10
2-Methylnaphthalene	ND	µg/L	10
2-Methylphenol	ND	µg/L	15
3+4-Methylphenol	ND	µg/L	20
N-Nitrosodi-n-propylamine	ND	µg/L	10
N-Nitrosodimethylamine	ND	µg/L	10
N-Nitrosodiphenylamine	ND	µg/L	10
Naphthalene	ND	µg/L	10
2-Nitroaniline	ND	µg/L	50
3-Nitroaniline	ND	µg/L	50
4-Nitroaniline	ND	µg/L	20
Nitrobenzene	ND	µg/L	10
2-Nitrophenol	ND	µg/L	15
4-Nitrophenol	ND	µg/L	50
Pentachlorophenol	ND	µg/L	50
Phenanthrene	ND	µg/L	10
Phenol	ND	µg/L	10
Pyrene	ND	µg/L	15
Pyridine	ND	µg/L	30
1,2,4-Trichlorobenzene	ND	µg/L	10
2,4,5-Trichlorophenol	ND	µg/L	10
2,4,6-Trichlorophenol	ND	µg/L	15

Sample ID: LCS-10617

LCS

Batch ID:

10617

Analysis Date:

7/14/2006

Acenaphthene	72.64	µg/L	10	72.6	11	123
4-Chloro-3-methylphenol	132.4	µg/L	20	66.2	15.4	119
2-Chlorophenol	105.1	µg/L	10	52.6	12.2	122
1,4-Dichlorobenzene	43.10	µg/L	10	43.1	16.9	100
2,4-Dinitrotoluene	62.40	µg/L	10	62.4	13	138
N-Nitrosodi-n-propylamine	60.56	µg/L	10	60.6	9.93	122
4-Nitrophenol	89.46	µg/L	50	44.7	12.5	87.4
Pentachlorophenol	140.9	µg/L	50	70.4	3.55	114
Phenol	59.16	µg/L	10	29.6	7.53	73.1
Pyrene	68.16	µg/L	15	68.2	12.6	140
1,2,4-Trichlorobenzene	52.22	µg/L	10	52.2	17.4	98.7

Sample ID: LCSD-10617

LCSD

Batch ID:

10617

Analysis Date:

7/17/2006

Acenaphthene	66.58	µg/L	10	66.6	11	123	8.71	30.5
4-Chloro-3-methylphenol	130.9	µg/L	20	65.4	15.4	119	1.14	28.6
2-Chlorophenol	101.7	µg/L	10	50.9	12.2	122	3.29	107
1,4-Dichlorobenzene	45.50	µg/L	10	45.5	16.9	100	5.42	62.1
2,4-Dinitrotoluene	59.42	µg/L	10	59.4	13	138	4.89	14.7

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

QA/QC SUMMARY REPORT

Client: Giant Refining Co
Project: Pilot Travel Center 2nd Quarter 2006

Work Order: 0606101

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8270C

Sample ID: LCSD-10617

LCSD

Batch ID: 10617

Analysis Date:

7/17/2006

N-Nitrosodi-n-propylamine	64.20	µg/L	10	64.2	9.93	122	5.84	30.3	
4-Nitrophenol	81.02	µg/L	50	40.5	12.5	87.4	9.90	36.3	
Pentachlorophenol	143.6	µg/L	50	71.8	3.55	114	1.90	49	
Phenol	59.46	µg/L	10	29.7	7.53	73.1	0.506	52.4	
Pyrene	66.34	µg/L	15	66.3	12.6	140	2.71	16.3	
1,2,4-Trichlorobenzene	54.60	µg/L	10	54.6	17.4	98.7	4.46	36.4	

Method: SW7470

Sample ID: MB-10646

MBLK

Batch ID: 10646

Analysis Date:

6/20/2006

Mercury ND mg/L 0.00020

Sample ID: LCS-10646

LCS

Batch ID: 10646

Analysis Date:

6/20/2006

Mercury 0.004830 mg/L 0.00020 96.6 80 120

Method: SW6010A

Sample ID: MB-10640

MBLK

Batch ID: 10640

Analysis Date:

6/21/2006 2:25:56 PM

Arsenic	ND	mg/L	0.020						
Barium	ND	mg/L	0.020						
Cadmium	ND	mg/L	0.0020						
Chromium	ND	mg/L	0.0060						
Lead	ND	mg/L	0.0050						
Selenium	ND	mg/L	0.050						
Silver	ND	mg/L	0.0050						

Sample ID: LCS-10640

LCS

Batch ID: 10640

Analysis Date:

6/21/2006 2:28:59 PM

Barium	0.4993	mg/L	0.020	99.9	80	120			
Cadmium	0.5070	mg/L	0.0020	101	80	120			
Chromium	0.5076	mg/L	0.0060	101	80	120			
Lead	0.4989	mg/L	0.0050	99.8	80	120			
Selenium	0.4945	mg/L	0.050	98.9	80	120			
Silver	0.5125	mg/L	0.0050	103	80	120			

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

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: Pilot Travel Center 2nd Quarter 2006

Work Order: 0606101

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8260B

Sample ID: 5mL rb2

MBLK

Batch ID: R19563 Analysis Date: 6/9/2006 1:12:59 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	1.5
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
Bromochloromethane	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	2.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	2.0
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	2.0
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	2.0
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	2.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0

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

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: Pilot Travel Center 2nd Quarter 2006

Work Order: 0606101

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8260B

Sample ID: 5mL rb2

MBLK

Batch ID: R19563 Analysis Date: 6/9/2006 1:12:59 PM

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	2.0
Styrene	ND	µg/L	1.5
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	1.0
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	3.0

Sample ID: 5mL rb-f

MBLK

Batch ID: R19579 Analysis Date: 6/12/2006 11:31:16 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	1.5
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
Bromochloromethane	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	2.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	2.0
Chlorobenzene	ND	µg/L	1.0

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

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: Pilot Travel Center 2nd Quarter 2006

Work Order: 0606101

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8260B

Sample ID: 5mL rb-f

MBLK

Batch ID: R19579 Analysis Date: 6/12/2006 11:31:16 AM

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	2.0
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	2.0
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	2.0
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	2.0
Styrene	ND	µg/L	1.5
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	1.0
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

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

QA/QC SUMMARY REPORT

Client: Giant Refining Co
Project: Pilot Travel Center 2nd Quarter 2006

Work Order: 0606101

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8260B									
Sample ID: 5mL rb-f		MBLK			Batch ID: R19579	Analysis Date: 6/12/2006 11:31:16 AM			
Xylenes, Total	ND	µg/L	3.0						
Sample ID: 100ng lcs		LCS			Batch ID: R19563	Analysis Date: 6/9/2006 2:57:32 PM			
Benzene	18.70	µg/L	1.0	93.5	71	124			
Toluene	18.04	µg/L	1.0	90.2	81.5	118			
Chlorobenzene	18.06	µg/L	1.0	90.3	81.2	132			
1,1-Dichloroethene	16.38	µg/L	1.0	81.9	65.5	134			
Trichloroethene (TCE)	16.64	µg/L	1.0	83.2	69.5	119			
Sample ID: 100ng lcs		LCS			Batch ID: R19579	Analysis Date: 6/12/2006 12:55:56 PM			
Benzene	19.76	µg/L	1.0	98.8	71	124			
Toluene	18.70	µg/L	1.0	93.5	81.5	118			
Chlorobenzene	18.11	µg/L	1.0	90.5	81.2	132			
1,1-Dichloroethene	16.06	µg/L	1.0	80.3	65.5	134			
Trichloroethene (TCE)	17.96	µg/L	1.0	89.8	69.5	119			

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:

6/9/2006

Work Order Number 0606101

Received by GLS

Checklist completed by

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 - pH acceptable upon receipt?	Yes ☒	No ☐	N/A ☐
Container/Temp Blank temperature?	2°	4° C ± 2 Acceptable If given sufficient time to cool.	

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Client: Giant Refining
Company - Tinza
Address: P.O. Box 7
Telling NM 87301

Project Name: Pilot Training Center
2nd Quarter 2006

Project #:

Project Manager:

Phone #: 505 777 2833

Fax #: 505 722 0219

Date	Time	Matrix	Sample I.D. No.
------	------	--------	-----------------

Matrix

Time

Sample I.D. No.

Number/Volume

Preservative

HgCl ₂	HNO ₃
-------------------	------------------

HEAL No.

HEAL No.

6/8/06	0845	H ₂ O	Pulst TC-2QTR.
--------	------	------------------	----------------

5

Date: _____ Time: _____

Relinquished By: (Signature)

Received By: (Signature)

Date:	Time:
-------	-------

Relinquished By: (Signature)

Received By: (Signature)

6-9-2008

6-9-2008

Remarks:	
----------	--

**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

[illegible]

COVER LETTER

Wednesday, November 15, 2006

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

RE: NMED Quarterly Samples 4th Qtr. 2006

Order No.: 0611012

Dear Steve Morris:

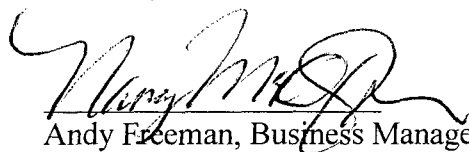
Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 11/1/2006 for the analyses presented in the following report.

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

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001



CLIENT: Giant Refining Co
Project: NMED Quarterly Samples 4th Qtr. 2006
Lab Order: 0611012

CASE NARRATIVE

Analytical Comments for METHOD 8015GRO_W, SAMPLE 0611012-01A: Elevated surrogate due to matrix interference. See Corrective Action: [400] Low recovery for Se in 0611012-2 MS/MSD.

Hall Environmental Analysis Laboratory, Inc.

Date: 15-Nov-06

CLIENT:	Giant Refining Co	Client Sample ID:	AL-2 to EP-1
Lab Order:	0611012	Collection Date:	10/30/2006 3:45:00 PM
Project:	NMED Quarterly Samples 4th Qtr. 2006	Date Received:	11/1/2006
Lab ID:	0611012-01	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	28	0.50		mg/L	10	11/6/2006 12:19:30 PM
Surr: BFB	142	84.5-129	S	%REC	10	11/6/2006 12:19:30 PM

EPA METHOD 7470: MERCURY						Analyst: CMS
Mercury	0.0011	0.00020		mg/L	1	11/8/2006

EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	11/9/2006 2:35:03 PM
Barium	0.16	0.020		mg/L	1	11/9/2006 2:35:03 PM
Cadmium	ND	0.0020		mg/L	1	11/9/2006 2:35:03 PM
Chromium	0.011	0.0060		mg/L	1	11/9/2006 2:35:03 PM
Lead	0.018	0.0050		mg/L	1	11/9/2006 2:35:03 PM
Selenium	ND	0.050		mg/L	1	11/9/2006 2:35:03 PM
Silver	ND	0.0050		mg/L	1	11/9/2006 2:35:03 PM

EPA METHOD 8260B: VOLATILES						Analyst: LMM
Benzene	ND	10		µg/L	10	11/8/2006
Toluene	ND	10		µg/L	10	11/8/2006
Ethylbenzene	ND	10		µg/L	10	11/8/2006
Methyl tert-butyl ether (MTBE)	ND	15		µg/L	10	11/8/2006
1,2,4-Trimethylbenzene	110	10		µg/L	10	11/8/2006
1,3,5-Trimethylbenzene	30	10		µg/L	10	11/8/2006
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	11/8/2006
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	11/8/2006
Naphthalene	54	20		µg/L	10	11/8/2006
1-Methylnaphthalene	440	40		µg/L	10	11/8/2006
2-Methylnaphthalene	550	40		µg/L	10	11/8/2006
Acetone	1100	100		µg/L	10	11/8/2006
Bromobenzene	ND	10		µg/L	10	11/8/2006
Bromochloromethane	ND	10		µg/L	10	11/8/2006
Bromodichloromethane	ND	10		µg/L	10	11/8/2006
Bromoform	ND	10		µg/L	10	11/8/2006
Bromomethane	ND	20		µg/L	10	11/8/2006
2-Butanone	110	100		µg/L	10	11/8/2006
Carbon disulfide	ND	100		µg/L	10	11/8/2006
Carbon Tetrachloride	ND	20		µg/L	10	11/8/2006
Chlorobenzene	ND	10		µg/L	10	11/8/2006
Chloroethane	ND	20		µg/L	10	11/8/2006
Chloroform	ND	10		µg/L	10	11/8/2006

Qualifiers:	* 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	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-Nov-06

CLIENT: Giant Refining Co

Client Sample ID: AL-2 to EP-1

Lab Order: 0611012

Collection Date: 10/30/2006 3:45:00 PM

Project: NMED Quarterly Samples 4th Qtr. 2006

Date Received: 11/1/2006

Lab ID: 0611012-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: LMM
Chloromethane	ND	10		µg/L	10	11/8/2006
2-Chlorotoluene	ND	10		µg/L	10	11/8/2006
4-Chlorotoluene	ND	10		µg/L	10	11/8/2006
cis-1,2-DCE	ND	10		µg/L	10	11/8/2006
cis-1,3-Dichloropropene	ND	10		µg/L	10	11/8/2006
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	11/8/2006
Dibromochloromethane	ND	10		µg/L	10	11/8/2006
Dibromomethane	ND	20		µg/L	10	11/8/2006
1,2-Dichlorobenzene	ND	10		µg/L	10	11/8/2006
1,3-Dichlorobenzene	ND	10		µg/L	10	11/8/2006
1,4-Dichlorobenzene	ND	10		µg/L	10	11/8/2006
Dichlorodifluoromethane	ND	10		µg/L	10	11/8/2006
1,1-Dichloroethane	ND	20		µg/L	10	11/8/2006
1,1-Dichloroethene	ND	10		µg/L	10	11/8/2006
1,2-Dichloropropane	ND	10		µg/L	10	11/8/2006
1,3-Dichloropropane	ND	10		µg/L	10	11/8/2006
2,2-Dichloropropane	ND	20		µg/L	10	11/8/2006
1,1-Dichloropropene	ND	10		µg/L	10	11/8/2006
Hexachlorobutadiene	ND	20		µg/L	10	11/8/2006
2-Hexanone	ND	100		µg/L	10	11/8/2006
Isopropylbenzene	ND	10		µg/L	10	11/8/2006
4-Isopropyltoluene	ND	10		µg/L	10	11/8/2006
4-Methyl-2-pentanone	ND	100		µg/L	10	11/8/2006
Methylene Chloride	ND	30		µg/L	10	11/8/2006
n-Butylbenzene	47	10		µg/L	10	11/8/2006
n-Propylbenzene	ND	10		µg/L	10	11/8/2006
sec-Butylbenzene	ND	20		µg/L	10	11/8/2006
Styrene	ND	15		µg/L	10	11/8/2006
tert-Butylbenzene	ND	10		µg/L	10	11/8/2006
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	11/8/2006
1,1,2,2-Tetrachloroethane	ND	10		µg/L	10	11/8/2006
Tetrachloroethene (PCE)	ND	10		µg/L	10	11/8/2006
trans-1,2-DCE	ND	10		µg/L	10	11/8/2006
trans-1,3-Dichloropropene	ND	10		µg/L	10	11/8/2006
1,2,3-Trichlorobenzene	ND	10		µg/L	10	11/8/2006
1,2,4-Trichlorobenzene	ND	10		µg/L	10	11/8/2006
1,1,1-Trichloroethane	ND	10		µg/L	10	11/8/2006
1,1,2-Trichloroethane	ND	10		µg/L	10	11/8/2006
Trichloroethene (TCE)	ND	10		µg/L	10	11/8/2006
Trichlorofluoromethane	ND	10		µg/L	10	11/8/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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: 15-Nov-06

CLIENT: Giant Refining Co**Client Sample ID:** AL-2 to EP-1**Lab Order:** 0611012**Collection Date:** 10/30/2006 3:45:00 PM**Project:** NMED Quarterly Samples 4th Qtr. 2006**Date Received:** 11/1/2006**Lab ID:** 0611012-01**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: LMM
1,2,3-Trichloropropane	ND	20		µg/L	10	11/8/2006
Vinyl chloride	ND	10		µg/L	10	11/8/2006
Xylenes, Total	62	30		µg/L	10	11/8/2006
Surr: 1,2-Dichloroethane-d4	84.2	69.9-130		%REC	10	11/8/2006
Surr: 4-Bromofluorobenzene	109	75-139		%REC	10	11/8/2006
Surr: Dibromofluoromethane	89.1	57.3-135		%REC	10	11/8/2006
Surr: Toluene-d8	86.0	81.9-122		%REC	10	11/8/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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: 15-Nov-06

CLIENT: Giant Refining Co

Client Sample ID: Pilot TC Eff

Lab Order: 0611012

Collection Date: 10/30/2006 2:45:00 PM

Project: NMED Quarterly Samples 4th Qtr. 2006

Date Received: 11/1/2006

Lab ID: 0611012-02

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.17	0.10		mg/L	2	11/6/2006 2:30:16 PM
Surr: BFB	103	84.5-129		%REC	2	11/6/2006 2:30:16 PM
EPA METHOD 7470: MERCURY						Analyst: CMS
Mercury	ND	0.00020		mg/L	1	11/8/2006
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	11/9/2006 2:37:44 PM
Barium	ND	0.020		mg/L	1	11/9/2006 2:37:44 PM
Cadmium	ND	0.0020		mg/L	1	11/9/2006 2:37:44 PM
Chromium	ND	0.0060		mg/L	1	11/9/2006 2:37:44 PM
Lead	ND	0.0050		mg/L	1	11/9/2006 2:37:44 PM
Selenium	ND	0.050		mg/L	1	11/9/2006 2:37:44 PM
Silver	ND	0.0050		mg/L	1	11/9/2006 2:37:44 PM
EPA METHOD 8260B: VOLATILES						Analyst: LMM
Benzene	ND	1.0		µg/L	1	11/13/2006
Toluene	5.1	1.0		µg/L	1	11/13/2006
Ethylbenzene	ND	1.0		µg/L	1	11/13/2006
Methyl tert-butyl ether (MTBE)	ND	1.5		µg/L	1	11/13/2006
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/13/2006
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/13/2006
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/13/2006
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/13/2006
Naphthalene	ND	2.0		µg/L	1	11/13/2006
1-Methylnaphthalene	ND	4.0		µg/L	1	11/13/2006
2-Methylnaphthalene	ND	4.0		µg/L	1	11/13/2006
Acetone	150	10		µg/L	1	11/13/2006
Bromobenzene	ND	1.0		µg/L	1	11/13/2006
Bromochloromethane	ND	1.0		µg/L	1	11/13/2006
Bromodichloromethane	ND	1.0		µg/L	1	11/13/2006
Bromoform	ND	1.0		µg/L	1	11/13/2006
Bromomethane	ND	2.0		µg/L	1	11/13/2006
2-Butanone	ND	10		µg/L	1	11/13/2006
Carbon disulfide	ND	10		µg/L	1	11/13/2006
Carbon Tetrachloride	ND	2.0		µg/L	1	11/13/2006
Chlorobenzene	ND	1.0		µg/L	1	11/13/2006
Chloroethane	ND	2.0		µg/L	1	11/13/2006
Chloroform	1.8	1.0		µg/L	1	11/13/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: 15-Nov-06

CLIENT: Giant Refining Co

Client Sample ID: Pilot TC Eff

Lab Order: 0611012

Collection Date: 10/30/2006 2:45:00 PM

Project: NMED Quarterly Samples 4th Qtr. 2006

Date Received: 11/1/2006

Lab ID: 0611012-02

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: LMM
Chloromethane	ND	1.0		µg/L	1	11/13/2006
2-Chlorotoluene	ND	1.0		µg/L	1	11/13/2006
4-Chlorotoluene	ND	1.0		µg/L	1	11/13/2006
cis-1,2-DCE	ND	1.0		µg/L	1	11/13/2006
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/13/2006
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/13/2006
Dibromochloromethane	ND	1.0		µg/L	1	11/13/2006
Dibromomethane	ND	2.0		µg/L	1	11/13/2006
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/13/2006
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/13/2006
1,4-Dichlorobenzene	2.8	1.0		µg/L	1	11/13/2006
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/13/2006
1,1-Dichloroethane	ND	2.0		µg/L	1	11/13/2006
1,1-Dichloroethene	ND	1.0		µg/L	1	11/13/2006
1,2-Dichloropropane	ND	1.0		µg/L	1	11/13/2006
1,3-Dichloropropane	ND	1.0		µg/L	1	11/13/2006
2,2-Dichloropropane	ND	2.0		µg/L	1	11/13/2006
1,1-Dichloropropene	ND	1.0		µg/L	1	11/13/2006
Hexachlorobutadiene	ND	2.0		µg/L	1	11/13/2006
2-Hexanone	ND	10		µg/L	1	11/13/2006
Isopropylbenzene	ND	1.0		µg/L	1	11/13/2006
4-Isopropyltoluene	1.6	1.0		µg/L	1	11/13/2006
4-Methyl-2-pentanone	ND	10		µg/L	1	11/13/2006
Methylene Chloride	ND	3.0		µg/L	1	11/13/2006
n-Butylbenzene	ND	1.0		µg/L	1	11/13/2006
n-Propylbenzene	ND	1.0		µg/L	1	11/13/2006
sec-Butylbenzene	ND	2.0		µg/L	1	11/13/2006
Styrene	ND	1.5		µg/L	1	11/13/2006
tert-Butylbenzene	ND	1.0		µg/L	1	11/13/2006
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/13/2006
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	11/13/2006
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/13/2006
trans-1,2-DCE	ND	1.0		µg/L	1	11/13/2006
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/13/2006
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/13/2006
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/13/2006
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/13/2006
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/13/2006
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/13/2006
Trichlorofluoromethane	ND	1.0		µg/L	1	11/13/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: 15-Nov-06

CLIENT: Giant Refining Co

Client Sample ID: Pilot TC Eff

Lab Order: 0611012

Collection Date: 10/30/2006 2:45:00 PM

Project: NMED Quarterly Samples 4th Qtr. 2006

Date Received: 11/1/2006

Lab ID: 0611012-02

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: LMM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/13/2006
Vinyl chloride	ND	1.0		µg/L	1	11/13/2006
Xylenes, Total	ND	3.0		µg/L	1	11/13/2006
Surr: 1,2-Dichloroethane-d4	86.3	69.9-130		%REC	1	11/13/2006
Surr: 4-Bromofluorobenzene	120	75-139		%REC	1	11/13/2006
Surr: Dibromofluoromethane	93.2	57.3-135		%REC	1	11/13/2006
Surr: Toluene-d8	91.0	81.9-122		%REC	1	11/13/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
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: 15-Nov-06

CLIENT: Giant Refining Co

Client Sample ID: NAPIS Eff

Lab Order: 0611012

Collection Date: 10/30/2006 3:15:00 PM

Project: NMED Quarterly Samples 4th Qtr. 2006

Date Received: 11/1/2006

Lab ID: 0611012-03

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	39	1.0		mg/L	20	11/6/2006 1:24:52 PM
Surr: BFB	103	84.5-129		%REC	20	11/6/2006 1:24:52 PM
EPA METHOD 8260B: VOLATILES						Analyst: LMM
Benzene	6600	100		µg/L	100	11/8/2006
Toluene	9800	100		µg/L	100	11/8/2006
Ethylbenzene	760	100		µg/L	100	11/8/2006
Methyl tert-butyl ether (MTBE)	300	150		µg/L	100	11/8/2006
1,2,4-Trimethylbenzene	570	100		µg/L	100	11/8/2006
1,3,5-Trimethylbenzene	170	100		µg/L	100	11/8/2006
1,2-Dichloroethane (EDC)	ND	100		µg/L	100	11/8/2006
1,2-Dibromoethane (EDB)	ND	100		µg/L	100	11/8/2006
Naphthalene	330	200		µg/L	100	11/8/2006
1-Methylnaphthalene	ND	400		µg/L	100	11/8/2006
2-Methylnaphthalene	ND	400		µg/L	100	11/8/2006
Acetone	1800	1000		µg/L	100	11/8/2006
Bromobenzene	ND	100		µg/L	100	11/8/2006
Bromochloromethane	ND	100		µg/L	100	11/8/2006
Bromodichloromethane	ND	100		µg/L	100	11/8/2006
Bromoform	ND	100		µg/L	100	11/8/2006
Bromomethane	ND	200		µg/L	100	11/8/2006
2-Butanone	ND	1000		µg/L	100	11/8/2006
Carbon disulfide	ND	1000		µg/L	100	11/8/2006
Carbon Tetrachloride	ND	200		µg/L	100	11/8/2006
Chlorobenzene	ND	100		µg/L	100	11/8/2006
Chloroethane	ND	200		µg/L	100	11/8/2006
Chloroform	ND	100		µg/L	100	11/8/2006
Chloromethane	ND	100		µg/L	100	11/8/2006
2-Chlorotoluene	ND	100		µg/L	100	11/8/2006
4-Chlorotoluene	ND	100		µg/L	100	11/8/2006
cis-1,2-DCE	ND	100		µg/L	100	11/8/2006
cis-1,3-Dichloropropene	ND	100		µg/L	100	11/8/2006
1,2-Dibromo-3-chloropropane	ND	200		µg/L	100	11/8/2006
Dibromochloromethane	ND	100		µg/L	100	11/8/2006
Dibromomethane	ND	200		µg/L	100	11/8/2006
1,2-Dichlorobenzene	ND	100		µg/L	100	11/8/2006
1,3-Dichlorobenzene	ND	100		µg/L	100	11/8/2006
1,4-Dichlorobenzene	ND	100		µg/L	100	11/8/2006
Dichlorodifluoromethane	ND	100		µg/L	100	11/8/2006
1,1-Dichloroethane	ND	200		µg/L	100	11/8/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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: 15-Nov-06

CLIENT: Giant Refining Co

Client Sample ID: NAPIS Eff

Lab Order: 0611012

Collection Date: 10/30/2006 3:15:00 PM

Project: NMED Quarterly Samples 4th Qtr. 2006

Date Received: 11/1/2006

Lab ID: 0611012-03

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: LMM
1,1-Dichloroethene	ND	100		µg/L	100	11/8/2006
1,2-Dichloropropane	ND	100		µg/L	100	11/8/2006
1,3-Dichloropropane	ND	100		µg/L	100	11/8/2006
2,2-Dichloropropane	ND	200		µg/L	100	11/8/2006
1,1-Dichloropropene	ND	100		µg/L	100	11/8/2006
Hexachlorobutadiene	ND	200		µg/L	100	11/8/2006
2-Hexanone	ND	1000		µg/L	100	11/8/2006
Isopropylbenzene	ND	100		µg/L	100	11/8/2006
4-Isopropyltoluene	ND	100		µg/L	100	11/8/2006
4-Methyl-2-pentanone	ND	1000		µg/L	100	11/8/2006
Methylene Chloride	ND	300		µg/L	100	11/8/2006
n-Butylbenzene	ND	100		µg/L	100	11/8/2006
n-Propylbenzene	ND	100		µg/L	100	11/8/2006
sec-Butylbenzene	ND	200		µg/L	100	11/8/2006
Styrene	ND	150		µg/L	100	11/8/2006
tert-Butylbenzene	ND	100		µg/L	100	11/8/2006
1,1,1,2-Tetrachloroethane	ND	100		µg/L	100	11/8/2006
1,1,2,2-Tetrachloroethane	ND	100		µg/L	100	11/8/2006
Tetrachloroethene (PCE)	ND	100		µg/L	100	11/8/2006
trans-1,2-DCE	ND	100		µg/L	100	11/8/2006
trans-1,3-Dichloropropene	ND	100		µg/L	100	11/8/2006
1,2,3-Trichlorobenzene	ND	100		µg/L	100	11/8/2006
1,2,4-Trichlorobenzene	ND	100		µg/L	100	11/8/2006
1,1,1-Trichloroethane	ND	100		µg/L	100	11/8/2006
1,1,2-Trichloroethane	ND	100		µg/L	100	11/8/2006
Trichloroethene (TCE)	ND	100		µg/L	100	11/8/2006
Trichlorofluoromethane	ND	100		µg/L	100	11/8/2006
1,2,3-Trichloropropane	ND	200		µg/L	100	11/8/2006
Vinyl chloride	ND	100		µg/L	100	11/8/2006
Xylenes, Total	3500	300		µg/L	100	11/8/2006
Surr: 1,2-Dichloroethane-d4	89.3	69.9-130		%REC	100	11/8/2006
Surr: 4-Bromofluorobenzene	89.1	75-139		%REC	100	11/8/2006
Surr: Dibromofluoromethane	97.8	57.3-135		%REC	100	11/8/2006
Surr: Toluene-d8	87.0	81.9-122		%REC	100	11/8/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: 15-Nov-06

CLIENT: Giant Refining Co
 Lab Order: 0611012
 Project: NMED Quarterly Samples 4th Qtr. 2006
 Lab ID: 0611012-04

Client Sample ID: Trip Blank
 Collection Date:
 Date Received: 11/1/2006
 Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: LMM
Benzene	ND	1.0		µg/L	1	11/8/2006
Toluene	ND	1.0		µg/L	1	11/8/2006
Ethylbenzene	ND	1.0		µg/L	1	11/8/2006
Methyl tert-butyl ether (MTBE)	ND	1.5		µg/L	1	11/8/2006
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/8/2006
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/8/2006
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/8/2006
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/8/2006
Naphthalene	ND	2.0		µg/L	1	11/8/2006
1-Methylnaphthalene	ND	4.0		µg/L	1	11/8/2006
2-Methylnaphthalene	ND	4.0		µg/L	1	11/8/2006
Acetone	ND	10		µg/L	1	11/8/2006
Bromobenzene	ND	1.0		µg/L	1	11/8/2006
Bromochloromethane	ND	1.0		µg/L	1	11/8/2006
Bromodichloromethane	ND	1.0		µg/L	1	11/8/2006
Bromoform	ND	1.0		µg/L	1	11/8/2006
Bromomethane	ND	2.0		µg/L	1	11/8/2006
2-Butanone	ND	10		µg/L	1	11/8/2006
Carbon disulfide	ND	10		µg/L	1	11/8/2006
Carbon Tetrachloride	ND	2.0		µg/L	1	11/8/2006
Chlorobenzene	ND	1.0		µg/L	1	11/8/2006
Chloroethane	ND	2.0		µg/L	1	11/8/2006
Chloroform	ND	1.0		µg/L	1	11/8/2006
Chloromethane	ND	1.0		µg/L	1	11/8/2006
2-Chlorotoluene	ND	1.0		µg/L	1	11/8/2006
4-Chlorotoluene	ND	1.0		µg/L	1	11/8/2006
cis-1,2-DCE	ND	1.0		µg/L	1	11/8/2006
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/8/2006
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/8/2006
Dibromochloromethane	ND	1.0		µg/L	1	11/8/2006
Dibromomethane	ND	2.0		µg/L	1	11/8/2006
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/8/2006
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/8/2006
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/8/2006
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/8/2006
1,1-Dichloroethane	ND	2.0		µg/L	1	11/8/2006
1,1-Dichloroethene	ND	1.0		µg/L	1	11/8/2006
1,2-Dichloropropane	ND	1.0		µg/L	1	11/8/2006
1,3-Dichloropropane	ND	1.0		µg/L	1	11/8/2006
2,2-Dichloropropane	ND	2.0		µg/L	1	11/8/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: 15-Nov-06

CLIENT: Giant Refining Co

Client Sample ID: Trip Blank

Lab Order: 0611012

Collection Date:

Project: NMED Quarterly Samples 4th Qtr. 2006

Date Received: 11/1/2006

Lab ID: 0611012-04

Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: LMM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/8/2006
Hexachlorobutadiene	ND	2.0		µg/L	1	11/8/2006
2-Hexanone	ND	10		µg/L	1	11/8/2006
Isopropylbenzene	ND	1.0		µg/L	1	11/8/2006
4-Isopropyltoluene	ND	1.0		µg/L	1	11/8/2006
4-Methyl-2-pentanone	ND	10		µg/L	1	11/8/2006
Methylene Chloride	ND	3.0		µg/L	1	11/8/2006
n-Butylbenzene	ND	1.0		µg/L	1	11/8/2006
n-Propylbenzene	ND	1.0		µg/L	1	11/8/2006
sec-Butylbenzene	ND	2.0		µg/L	1	11/8/2006
Styrene	ND	1.5		µg/L	1	11/8/2006
tert-Butylbenzene	ND	1.0		µg/L	1	11/8/2006
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/8/2006
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	11/8/2006
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/8/2006
trans-1,2-DCE	ND	1.0		µg/L	1	11/8/2006
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/8/2006
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/8/2006
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/8/2006
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/8/2006
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/8/2006
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/8/2006
Trichlorofluoromethane	ND	1.0		µg/L	1	11/8/2006
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/8/2006
Vinyl chloride	ND	1.0		µg/L	1	11/8/2006
Xylenes, Total	ND	3.0		µg/L	1	11/8/2006
Surr: 1,2-Dichloroethane-d4	91.2	69.9-130		%REC	1	11/8/2006
Surr: 4-Bromofluorobenzene	92.7	75-139		%REC	1	11/8/2006
Surr: Dibromofluoromethane	94.6	57.3-135		%REC	1	11/8/2006
Surr: Toluene-d8	87.8	81.9-122		%REC	1	11/8/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: Giant Refining Co
 Project: NMED Quarterly Samples 4th Qtr. 2006

Work Order: 0611012

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8015									
Sample ID: 5ML REAGENT BLA		MBLK				Batch ID: R21301	Analysis Date: 11/6/2006 8:43:27 AM		
Gasoline Range Organics (GRO)	ND	mg/L	0.050						
Sample ID: 2.5UG GRO LCS		LCS				Batch ID: R21301	Analysis Date: 11/6/2006 11:04:03 PM		
Gasoline Range Organics (GRO)	0.4578	mg/L	0.050	91.6	73.3	119			
Sample ID: 2.5UG GRO LCSD		LCSD				Batch ID: R21301	Analysis Date: 11/6/2006 11:34:09 PM		
Gasoline Range Organics (GRO)	0.4564	mg/L	0.050	91.3	73.3	119	0.306	8.39	
Method: SW7470									
Sample ID: MB-11705		MBLK				Batch ID: 11705	Analysis Date: 11/8/2006		
Mercury	ND	mg/L	0.00020						
Sample ID: LCS-11705		LCS				Batch ID: 11705	Analysis Date: 11/8/2006		
Mercury	0.004995	mg/L	0.00020	99.9	80	120			
Method: SW6010A									
Sample ID: 0611012-02B MSD		MSD				Batch ID: 11672	Analysis Date: 11/9/2006 2:42:22 PM		
Arsenic	0.5203	mg/L	0.020	104	75	125	0.0224	20	
Barium	0.5108	mg/L	0.020	99.6	75	125	6.39	20	
Cadmium	0.5056	mg/L	0.0020	101	75	125	3.91	20	
Chromium	0.5020	mg/L	0.0060	100	75	125	4.89	20	
Lead	0.4873	mg/L	0.0050	97.5	75	125	1.87	20	
Selenium	0.1100	mg/L	0.050	22.0	75	125	61.1	20	SR
Sample ID: MB-11672		MBLK				Batch ID: 11672	Analysis Date: 11/9/2006 2:12:50 PM		
Arsenic	ND	mg/L	0.020						
Barium	ND	mg/L	0.020						
Cadmium	ND	mg/L	0.0020						
Chromium	ND	mg/L	0.0060						
Lead	ND	mg/L	0.0050						
Selenium	ND	mg/L	0.050						
Silver	ND	mg/L	0.0050						
Sample ID: LCS-11672		LCS				Batch ID: 11672	Analysis Date: 11/9/2006 2:14:44 PM		
Arsenic	0.5281	mg/L	0.020	106	80	120			
Barium	0.4898	mg/L	0.020	97.8	80	120			
Cadmium	0.5102	mg/L	0.0020	102	80	120			
Chromium	0.5026	mg/L	0.0060	101	80	120			
Lead	0.4912	mg/L	0.0050	98.2	80	120			
Selenium	0.4423	mg/L	0.050	88.5	80	120			
Silver	0.4926	mg/L	0.0050	98.3	80	120			
Sample ID: 0611012-02B MS		MS				Batch ID: 11672	Analysis Date: 11/9/2006 2:40:23 PM		
Arsenic	0.5204	mg/L	0.020	104	75	125			
Barium	0.4791	mg/L	0.020	93.3	75	125			
Cadmium	0.4862	mg/L	0.0020	97.2	75	125			
Chromium	0.4780	mg/L	0.0060	95.6	75	125			
Lead	0.4783	mg/L	0.0050	95.7	75	125			
Selenium	0.05851	mg/L	0.050	11.7	75	125			S

Qualifiers:

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
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: NMED Quarterly Samples 4th Qtr. 2006

Work Order: 0611012

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8260B

Sample ID: 5mL rb

MBLK

Batch ID: R21342

Analysis Date:

11/8/2006

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	1.5
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
Bromochloromethane	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	2.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	2.0
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	2.0
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	2.0
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	2.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0

Qualifiers:

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
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: NMED Quarterly Samples 4th Qtr. 2006

Work Order: 0611012

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8260B

Sample ID: 5mL rb

MBLK

Batch ID: R21342

Analysis Date:

11/8/2006

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	2.0
Styrene	ND	µg/L	1.5
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	1.0
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	3.0

Sample ID: 5mL rb

MBLK

Batch ID: R21378

Analysis Date:

11/10/2006

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	1.5
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
Bromochloromethane	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	2.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	2.0
Chlorobenzene	ND	µg/L	1.0

Qualifiers:

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
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: NMED Quarterly Samples 4th Qtr. 2006

Work Order: 0611012

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8260B

Sample ID: 5mL rb

MBLK

Batch ID: R21378

Analysis Date:

11/10/2006

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	2.0
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	2.0
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	2.0
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	2.0
Styrene	ND	µg/L	1.5
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	1.0
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

Qualifiers:

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
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: NMED Quarterly Samples 4th Qtr. 2006

Work Order: 0611012

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8260B									
Sample ID: 5mL rb		MBLK				Batch ID: R21378	Analysis Date:		11/10/2006
Xylenes, Total	ND	µg/L	3.0						
Sample ID: 5mL rb		MBLK				Batch ID: R21387	Analysis Date:		11/13/2006
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	1.5						
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						
Bromochloromethane	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	2.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	2.0						
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	2.0						
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	2.0						
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	2.0						

Qualifiers:

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
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: NMED Quarterly Samples 4th Qtr. 2006

Work Order: 0611012

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8260B

Sample ID: 5mL rb

MBLK

Batch ID: R21387

Analysis Date:

11/13/2006

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	2.0
Styrene	ND	µg/L	1.5
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	1.0
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	3.0

Sample ID: 100ng lcs

LCS

Batch ID: R21342

Analysis Date:

11/8/2006

Benzene	18.16	µg/L	1.0	90.8	74.9	113
Toluene	16.22	µg/L	1.0	81.1	80.4	111
Chlorobenzene	18.37	µg/L	1.0	91.9	83.2	120
1,1-Dichloroethene	19.73	µg/L	1.0	98.6	72	127
Trichloroethene (TCE)	17.89	µg/L	1.0	89.5	58.2	131

Sample ID: 100ng lcs

LCS

Batch ID: R21378

Analysis Date:

11/10/2006

Benzene	19.07	µg/L	1.0	95.4	74.9	113
Toluene	17.81	µg/L	1.0	89.0	80.4	111
Chlorobenzene	18.54	µg/L	1.0	92.7	83.2	120
1,1-Dichloroethene	18.36	µg/L	1.0	91.8	72	127
Trichloroethene (TCE)	17.39	µg/L	1.0	87.0	58.2	131

Sample ID: 100ng lcs

LCS

Batch ID: R21387

Analysis Date:

11/13/2006

Benzene	18.29	µg/L	1.0	91.4	74.9	113
Toluene	17.64	µg/L	1.0	88.2	80.4	111
Chlorobenzene	18.67	µg/L	1.0	93.4	83.2	120
1,1-Dichloroethene	19.07	µg/L	1.0	95.4	72	127
Trichloroethene (TCE)	20.48	µg/L	1.0	102	58.2	131

Qualifiers:

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
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

11/1/2006

Work Order Number 0611012

Received by AT

Checklist completed by

Signature

Date

Matrix

Carrier name Client drop-off

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?

3°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

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

CHAIN-OF-CUSTODY RECORD						
Client: <u>Giant Refining</u> <u>Company - Ciniza</u> Address: <u>Route 3 Box 7</u> <u>Gallop, NM 87301</u>						
Project Name: <u>NMED Quarterly</u> <u>Sample 4th Qtr. 2006</u>						
Project #: _____						
Project Manager: <u>Steve Morris</u>						
Sampler: <u>Steve Morris</u>						
Sample Temperature: <u>3rd</u>						
Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative HgCl ₂ HNO ₃	HEAL No.
1/30/06	1545	H ₂ O	AL-2 to EP-1			06/1012
1/30/06	1445	"	Pilot TC Eff.			-1
1/30/06	1515	"	NAPIS Eff.			-2
			Top Blank			-3
						-4
Date: <u>1-1-06</u>	Time: <u>1100</u>	Relinquished By: (Signature) <u>Steve Morris</u>		Received By: (Signature) <u>[Signature]</u> <u>11/1/06</u>		
Date: _____	Time: _____	Relinquished By: (Signature) _____		Received By: (Signature) _____		

COVER LETTER

Wednesday, March 08, 2006

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

RE: NMED Monthly Water Samples

Order No.: 0602238

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 4 sample(s) on 2/24/2006 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: 08-Mar-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples

Lab Order: 0602238

Lab ID: 0602238-01

Collection Date: 2/23/2006 8:00:00 AM

Client Sample ID: AL-2 to EP-1

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	52	3.0		mg/L	1	2/28/2006 10:08:02 AM
Motor Oil Range Organics (MRO)	ND	15		mg/L	1	2/28/2006 10:08:02 AM
Surr: DNOP	137	58-140		%REC	1	2/28/2006 10:08:02 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	2.4	1.0		mg/L	20	3/6/2006 11:39:39 AM
Surr: BFB	110	79.7-118		%REC	20	3/6/2006 11:39:39 AM
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	0.0017	0.00020		mg/L	1	3/2/2006
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: CMC
Arsenic	0.028	0.020		mg/L	1	3/6/2006 12:16:52 PM
Barium	0.16	0.020		mg/L	1	3/6/2006 12:16:52 PM
Cadmium	ND	0.0020		mg/L	1	3/6/2006 12:16:52 PM
Chromium	0.0094	0.0060		mg/L	1	3/6/2006 12:16:52 PM
Lead	ND	0.0050		mg/L	1	3/6/2006 12:16:52 PM
Selenium	ND	0.050		mg/L	1	3/6/2006 12:16:52 PM
Silver	ND	0.0050		mg/L	1	3/6/2006 12:16:52 PM
EPA METHOD 8260B: VOLATILES						Analyst: KTM
Benzene	120	50		µg/L	50	3/2/2006
Toluene	160	50		µg/L	50	3/2/2006
Ethylbenzene	ND	50		µg/L	50	3/2/2006
Methyl tert-butyl ether (MTBE)	1100	50		µg/L	50	3/2/2006
1,2,4-Trimethylbenzene	ND	50		µg/L	50	3/2/2006
1,3,5-Trimethylbenzene	ND	50		µg/L	50	3/2/2006
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	3/2/2006
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	3/2/2006
Naphthalene	ND	100		µg/L	50	3/2/2006
1-Methylnaphthalene	ND	200		µg/L	50	3/2/2006
2-Methylnaphthalene	ND	200		µg/L	50	3/2/2006
Acetone	4600	500		µg/L	50	3/2/2006
Bromobenzene	ND	50		µg/L	50	3/2/2006
Bromochloromethane	ND	50		µg/L	50	3/2/2006
Bromodichloromethane	ND	50		µg/L	50	3/2/2006
Bromoform	ND	50		µg/L	50	3/2/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 08-Mar-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples

Lab Order: 0602238

EPA METHOD 8260B: VOLATILES

Analyst: KTM

Bromomethane	ND	100	µg/L	50	3/2/2006
2-Butanone	680	500	µg/L	50	3/2/2006
Carbon disulfide	ND	500	µg/L	50	3/2/2006
Carbon Tetrachloride	ND	100	µg/L	50	3/2/2006
Chlorobenzene	ND	50	µg/L	50	3/2/2006
Chloroethane	ND	100	µg/L	50	3/2/2006
Chloroform	ND	50	µg/L	50	3/2/2006
Chloromethane	ND	50	µg/L	50	3/2/2006
2-Chlorotoluene	ND	50	µg/L	50	3/2/2006
4-Chlorotoluene	ND	50	µg/L	50	3/2/2006
cis-1,2-DCE	ND	50	µg/L	50	3/2/2006
cis-1,3-Dichloropropene	ND	50	µg/L	50	3/2/2006
1,2-Dibromo-3-chloropropane	ND	100	µg/L	50	3/2/2006
Dibromochloromethane	ND	50	µg/L	50	3/2/2006
Dibromomethane	ND	100	µg/L	50	3/2/2006
1,2-Dichlorobenzene	ND	50	µg/L	50	3/2/2006
1,3-Dichlorobenzene	ND	50	µg/L	50	3/2/2006
1,4-Dichlorobenzene	ND	50	µg/L	50	3/2/2006
Dichlorodifluoromethane	ND	50	µg/L	50	3/2/2006
1,1-Dichloroethane	ND	100	µg/L	50	3/2/2006
1,1-Dichloroethene	ND	50	µg/L	50	3/2/2006
1,2-Dichloropropane	ND	50	µg/L	50	3/2/2006
1,3-Dichloropropane	ND	50	µg/L	50	3/2/2006
2,2-Dichloropropane	ND	100	µg/L	50	3/2/2006
1,1-Dichloropropene	ND	50	µg/L	50	3/2/2006
Hexachlorobutadiene	ND	100	µg/L	50	3/2/2006
2-Hexanone	ND	500	µg/L	50	3/2/2006
Isopropylbenzene	ND	50	µg/L	50	3/2/2006
4-Isopropyltoluene	ND	50	µg/L	50	3/2/2006
4-Methyl-2-pentanone	ND	500	µg/L	50	3/2/2006
Methylene Chloride	ND	150	µg/L	50	3/2/2006
n-Butylbenzene	ND	50	µg/L	50	3/2/2006
n-Propylbenzene	ND	50	µg/L	50	3/2/2006
sec-Butylbenzene	ND	100	µg/L	50	3/2/2006
Styrene	ND	50	µg/L	50	3/2/2006
tert-Butylbenzene	ND	50	µg/L	50	3/2/2006
1,1,1,2-Tetrachloroethane	ND	50	µg/L	50	3/2/2006
1,1,2,2-Tetrachloroethane	ND	50	µg/L	50	3/2/2006
Tetrachloroethene (PCE)	ND	50	µg/L	50	3/2/2006
trans-1,2-DCE	ND	50	µg/L	50	3/2/2006
trans-1,3-Dichloropropene	ND	50	µg/L	50	3/2/2006
1,2,3-Trichlorobenzene	ND	50	µg/L	50	3/2/2006
1,2,4-Trichlorobenzene	ND	50	µg/L	50	3/2/2006
1,1,1-Trichloroethane	ND	50	µg/L	50	3/2/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 08-Mar-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples

Lab Order: 0602238

EPA METHOD 8260B: VOLATILES

Analyst: KTM

1,1,2-Trichloroethane	ND	50	µg/L	50	3/2/2006
Trichloroethene (TCE)	ND	50	µg/L	50	3/2/2006
Trichlorofluoromethane	ND	50	µg/L	50	3/2/2006
1,2,3-Trichloropropane	ND	100	µg/L	50	3/2/2006
Vinyl chloride	ND	50	µg/L	50	3/2/2006
Xylenes, Total	98	50	µg/L	50	3/2/2006
Surr: 1,2-Dichloroethane-d4	103	69.9-130	%REC	50	3/2/2006
Surr: 4-Bromofluorobenzene	90.5	71.2-123	%REC	50	3/2/2006
Surr: Dibromofluoromethane	102	57.3-135	%REC	50	3/2/2006
Surr: Toluene-d8	92.8	81.9-122	%REC	50	3/2/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 08-Mar-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples

Lab Order: 0602238

Lab ID: 0602238-02

Collection Date: 2/23/2006 7:30:00 AM

Client Sample ID: OAPIS

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						
Diesel Range Organics (DRO)	2.8	1.0		mg/L	1	2/28/2006 10:40:46 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	2/28/2006 10:40:46 AM
Surr: DNOP	114	58-140		%REC	1	2/28/2006 10:40:46 AM

Analyst: SCC

EPA METHOD 8015B: GASOLINE RANGE

Analyst: NSB

Gasoline Range Organics (GRO)	0.80	0.25		mg/L	5	3/3/2006 12:24:11 PM
Surr: BFB	101	79.7-118		%REC	5	3/3/2006 12:24:11 PM

EPA METHOD 8310: PAHS

Analyst: JMP

Naphthalene	290	25		µg/L	10	3/7/2006 2:21:22 PM
1-Methylnaphthalene	ND	2.5		µg/L	1	3/7/2006 3:09:22 PM
2-Methylnaphthalene	ND	2.5		µg/L	1	3/7/2006 3:09:22 PM
Acenaphthylene	ND	2.5		µg/L	1	3/7/2006 3:09:22 PM
Acenaphthene	ND	2.5		µg/L	1	3/7/2006 3:09:22 PM
Fluorene	ND	0.80		µg/L	1	3/7/2006 3:09:22 PM
Phenanthrene	ND	0.60		µg/L	1	3/7/2006 3:09:22 PM
Anthracene	ND	0.60		µg/L	1	3/7/2006 3:09:22 PM
Fluoranthene	ND	0.30		µg/L	1	3/7/2006 3:09:22 PM
Pyrene	0.32	0.30		µg/L	1	3/7/2006 3:09:22 PM
Benz(a)anthracene	ND	0.020		µg/L	1	3/7/2006 3:09:22 PM
Chrysene	ND	0.20		µg/L	1	3/7/2006 3:09:22 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	3/7/2006 3:09:22 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	3/7/2006 3:09:22 PM
Benzo(a)pyrene	ND	0.020		µg/L	1	3/7/2006 3:09:22 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	3/7/2006 3:09:22 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	3/7/2006 3:09:22 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	3/7/2006 3:09:22 PM
Surr: Benzo(e)pyrene	89.2	54-102		%REC	1	3/7/2006 3:09:22 PM

EPA METHOD 7470: MERCURY

Analyst: CMC

Mercury	ND	0.00020		mg/L	1	3/2/2006
---------	----	---------	--	------	---	----------

EPA 6010: TOTAL RECOVERABLE METALS

Analyst: CMC

Arsenic	0.033	0.020		mg/L	1	3/6/2006 12:20:49 PM
Barium	0.29	0.020		mg/L	1	3/6/2006 12:20:49 PM
Cadmium	ND	0.0020		mg/L	1	3/6/2006 12:20:49 PM
Chromium	0.0081	0.0060		mg/L	1	3/6/2006 12:20:49 PM

Qualifiers:	* 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: 08-Mar-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples

Lab Order: 0602238

EPA 6010: TOTAL RECOVERABLE METALS

Analyst: CMC

Lead	ND	0.0050	mg/L	1	3/6/2006 12:20:49 PM
Selenium	ND	0.050	mg/L	1	3/6/2006 12:20:49 PM
Silver	ND	0.0050	mg/L	1	3/6/2006 12:20:49 PM

EPA METHOD 8260B: VOLATILES

Analyst: KTM

Benzene	ND	5.0	µg/L	5	3/7/2006
Toluene	ND	5.0	µg/L	5	3/7/2006
Ethylbenzene	ND	5.0	µg/L	5	3/7/2006
Methyl tert-butyl ether (MTBE)	8.4	5.0	µg/L	5	3/7/2006
1,2,4-Trimethylbenzene	12	5.0	µg/L	5	3/7/2006
1,3,5-Trimethylbenzene	31	5.0	µg/L	5	3/7/2006
1,2-Dichloroethane (EDC)	ND	5.0	µg/L	5	3/7/2006
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	5	3/7/2006
Naphthalene	12	10	µg/L	5	3/7/2006
1-Methylnaphthalene	98	20	µg/L	5	3/7/2006
2-Methylnaphthalene	60	20	µg/L	5	3/7/2006
Acetone	99	50	µg/L	5	3/7/2006
Bromobenzene	ND	5.0	µg/L	5	3/7/2006
Bromochloromethane	ND	5.0	µg/L	5	3/7/2006
Bromodichloromethane	ND	5.0	µg/L	5	3/7/2006
Bromoform	ND	5.0	µg/L	5	3/7/2006
Bromomethane	ND	10	µg/L	5	3/7/2006
2-Butanone	ND	50	µg/L	5	3/7/2006
Carbon disulfide	ND	50	µg/L	5	3/7/2006
Carbon Tetrachloride	ND	10	µg/L	5	3/7/2006
Chlorobenzene	ND	5.0	µg/L	5	3/7/2006
Chloroethane	ND	10	µg/L	5	3/7/2006
Chloroform	ND	5.0	µg/L	5	3/7/2006
Chloromethane	ND	5.0	µg/L	5	3/7/2006
2-Chlorotoluene	ND	5.0	µg/L	5	3/7/2006
4-Chlorotoluene	ND	5.0	µg/L	5	3/7/2006
cis-1,2-DCE	ND	5.0	µg/L	5	3/7/2006
cis-1,3-Dichloropropene	ND	5.0	µg/L	5	3/7/2006
1,2-Dibromo-3-chloropropane	ND	10	µg/L	5	3/7/2006
Dibromochloromethane	ND	5.0	µg/L	5	3/7/2006
Dibromomethane	ND	10	µg/L	5	3/7/2006
1,2-Dichlorobenzene	ND	5.0	µg/L	5	3/7/2006
1,3-Dichlorobenzene	ND	5.0	µg/L	5	3/7/2006
1,4-Dichlorobenzene	ND	5.0	µg/L	5	3/7/2006
Dichlorodifluoromethane	ND	5.0	µg/L	5	3/7/2006
1,1-Dichloroethane	ND	10	µg/L	5	3/7/2006
1,1-Dichloroethene	ND	5.0	µg/L	5	3/7/2006
1,2-Dichloropropane	ND	5.0	µg/L	5	3/7/2006
1,3-Dichloropropane	ND	5.0	µg/L	5	3/7/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Value above quantitation range
J	Analyte detected below quantitation limits
S	Spike Recovery outside accepted recovery limits

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 08-Mar-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples

Lab Order: 0602238

EPA METHOD 8260B: VOLATILES

Analyst: KTM

2,2-Dichloropropane	ND	10	µg/L	5	3/7/2006
1,1-Dichloropropene	ND	5.0	µg/L	5	3/7/2006
Hexachlorobutadiene	ND	10	µg/L	5	3/7/2006
2-Hexanone	ND	50	µg/L	5	3/7/2006
Isopropylbenzene	ND	5.0	µg/L	5	3/7/2006
4-Isopropyltoluene	ND	5.0	µg/L	5	3/7/2006
4-Methyl-2-pentanone	ND	50	µg/L	5	3/7/2006
Methylene Chloride	ND	15	µg/L	5	3/7/2006
n-Butylbenzene	7.5	5.0	µg/L	5	3/7/2006
n-Propylbenzene	ND	5.0	µg/L	5	3/7/2006
sec-Butylbenzene	ND	10	µg/L	5	3/7/2006
Styrene	ND	5.0	µg/L	5	3/7/2006
tert-Butylbenzene	ND	5.0	µg/L	5	3/7/2006
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	5	3/7/2006
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	5	3/7/2006
Tetrachloroethene (PCE)	ND	5.0	µg/L	5	3/7/2006
trans-1,2-DCE	ND	5.0	µg/L	5	3/7/2006
trans-1,3-Dichloropropene	ND	5.0	µg/L	5	3/7/2006
1,2,3-Trichlorobenzene	ND	5.0	µg/L	5	3/7/2006
1,2,4-Trichlorobenzene	ND	5.0	µg/L	5	3/7/2006
1,1,1-Trichloroethane	ND	5.0	µg/L	5	3/7/2006
1,1,2-Trichloroethane	ND	5.0	µg/L	5	3/7/2006
Trichloroethene (TCE)	ND	5.0	µg/L	5	3/7/2006
Trichlorofluoromethane	ND	5.0	µg/L	5	3/7/2006
1,2,3-Trichloropropane	ND	10	µg/L	5	3/7/2006
Vinyl chloride	ND	5.0	µg/L	5	3/7/2006
Xylenes, Total	25	5.0	µg/L	5	3/7/2006
Surr: 1,2-Dichloroethane-d4	95.6	69.9-130	%REC	5	3/7/2006
Surr: 4-Bromofluorobenzene	98.6	71.2-123	%REC	5	3/7/2006
Surr: Dibromofluoromethane	96.3	57.3-135	%REC	5	3/7/2006
Surr: Toluene-d8	90.8	81.9-122	%REC	5	3/7/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 08-Mar-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples

Lab Order: 0602238

Lab ID: 0602238-03

Collection Date: 2/23/2006 8:30:00 AM

Client Sample ID: NAPIS

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

EPA METHOD 8015B: DIESEL RANGE

Analyst: SCC

Diesel Range Organics (DRO)	140	3.0		mg/L	1	2/28/2006 11:13:30 AM
Motor Oil Range Organics (MRO)	ND	15		mg/L	1	2/28/2006 11:13:30 AM
Surr: DNOP	123	58-140		%REC	1	2/28/2006 11:13:30 AM

EPA METHOD 8015B: GASOLINE RANGE

Analyst: NSB

Gasoline Range Organics (GRO)	50	2.5		mg/L	50	3/3/2006 12:55:09 PM
Surr: BFB	100	79.7-118		%REC	50	3/3/2006 12:55:09 PM

EPA METHOD 8260B: VOLATILES

Analyst: KTM

Benzene	15000	1000		µg/L	1000	3/7/2006
Toluene	9800	1000		µg/L	1000	3/7/2006
Ethylbenzene	610	100		µg/L	100	3/2/2006
Methyl tert-butyl ether (MTBE)	19000	1000		µg/L	1000	3/7/2006
1,2,4-Trimethylbenzene	690	100		µg/L	100	3/2/2006
1,3,5-Trimethylbenzene	250	100		µg/L	100	3/2/2006
1,2-Dichloroethane (EDC)	ND	100		µg/L	100	3/2/2006
1,2-Dibromoethane (EDB)	ND	100		µg/L	100	3/2/2006
Naphthalene	410	200		µg/L	100	3/2/2006
1-Methylnaphthalene	ND	400		µg/L	100	3/2/2006
2-Methylnaphthalene	ND	400		µg/L	100	3/2/2006
Acetone	19000	10000		µg/L	1000	3/7/2006
Bromobenzene	ND	100		µg/L	100	3/2/2006
Bromochloromethane	ND	100		µg/L	100	3/2/2006
Bromodichloromethane	ND	100		µg/L	100	3/2/2006
Bromoform	ND	100		µg/L	100	3/2/2006
Bromomethane	ND	200		µg/L	100	3/2/2006
2-Butanone	4400	1000		µg/L	100	3/2/2006
Carbon disulfide	ND	1000		µg/L	100	3/2/2006
Carbon Tetrachloride	ND	200		µg/L	100	3/2/2006
Chlorobenzene	ND	100		µg/L	100	3/2/2006
Chloroethane	ND	200		µg/L	100	3/2/2006
Chloroform	ND	100		µg/L	100	3/2/2006
Chloromethane	ND	100		µg/L	100	3/2/2006
2-Chlorotoluene	ND	100		µg/L	100	3/2/2006
4-Chlorotoluene	ND	100		µg/L	100	3/2/2006
cis-1,2-DCE	ND	100		µg/L	100	3/2/2006
cis-1,3-Dichloropropene	ND	100		µg/L	100	3/2/2006
1,2-Dibromo-3-chloropropane	ND	200		µg/L	100	3/2/2006

Qualifiers:	*	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: 08-Mar-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples

Lab Order: 0602238

EPA METHOD 8260B: VOLATILES

Analyst: KTM

Dibromochloromethane	ND	100	µg/L	100	3/2/2006
Dibromomethane	ND	200	µg/L	100	3/2/2006
1,2-Dichlorobenzene	ND	100	µg/L	100	3/2/2006
1,3-Dichlorobenzene	ND	100	µg/L	100	3/2/2006
1,4-Dichlorobenzene	ND	100	µg/L	100	3/2/2006
Dichlorodifluoromethane	ND	100	µg/L	100	3/2/2006
1,1-Dichloroethane	ND	200	µg/L	100	3/2/2006
1,1-Dichloroethene	ND	100	µg/L	100	3/2/2006
1,2-Dichloropropane	ND	100	µg/L	100	3/2/2006
1,3-Dichloropropane	ND	100	µg/L	100	3/2/2006
2,2-Dichloropropane	ND	200	µg/L	100	3/2/2006
1,1-Dichloropropene	ND	100	µg/L	100	3/2/2006
Hexachlorobutadiene	ND	200	µg/L	100	3/2/2006
2-Hexanone	ND	1000	µg/L	100	3/2/2006
Isopropylbenzene	ND	100	µg/L	100	3/2/2006
4-Isopropyltoluene	ND	100	µg/L	100	3/2/2006
4-Methyl-2-pentanone	ND	1000	µg/L	100	3/2/2006
Methylene Chloride	ND	300	µg/L	100	3/2/2006
n-Butylbenzene	120	100	µg/L	100	3/2/2006
n-Propylbenzene	100	100	µg/L	100	3/2/2006
sec-Butylbenzene	ND	200	µg/L	100	3/2/2006
Styrene	ND	100	µg/L	100	3/2/2006
tert-Butylbenzene	ND	100	µg/L	100	3/2/2006
1,1,1,2-Tetrachloroethane	ND	100	µg/L	100	3/2/2006
1,1,2,2-Tetrachloroethane	ND	100	µg/L	100	3/2/2006
Tetrachloroethene (PCE)	ND	100	µg/L	100	3/2/2006
trans-1,2-DCE	ND	100	µg/L	100	3/2/2006
trans-1,3-Dichloropropene	ND	100	µg/L	100	3/2/2006
1,2,3-Trichlorobenzene	ND	100	µg/L	100	3/2/2006
1,2,4-Trichlorobenzene	ND	100	µg/L	100	3/2/2006
1,1,1-Trichloroethane	ND	100	µg/L	100	3/2/2006
1,1,2-Trichloroethane	ND	100	µg/L	100	3/2/2006
Trichloroethene (TCE)	ND	100	µg/L	100	3/2/2006
Trichlorofluoromethane	ND	100	µg/L	100	3/2/2006
1,2,3-Trichloropropane	ND	200	µg/L	100	3/2/2006
Vinyl chloride	ND	100	µg/L	100	3/2/2006
Xylenes, Total	3900	100	µg/L	100	3/2/2006
Surr: 1,2-Dichloroethane-d4	103	69.9-130	%REC	100	3/2/2006
Surr: 4-Bromofluorobenzene	89.7	71.2-123	%REC	100	3/2/2006
Surr: Dibromofluoromethane	103	57.3-135	%REC	100	3/2/2006
Surr: Toluene-d8	89.5	81.9-122	%REC	100	3/2/2006

Qualifiers:	*	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: 08-Mar-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples

Lab Order: 0602238

Lab ID: 0602238-04

Collection Date: 2/23/2006 8:45:00 AM

Client Sample ID: Pilot TC

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	7.0	3.0		mg/L	1	2/28/2006 11:46:00 AM
Motor Oil Range Organics (MRO)	ND	15		mg/L	1	2/28/2006 11:46:00 AM
Surr: DNOP	135	58-140		%REC	1	2/28/2006 11:46:00 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.067	0.050		mg/L	1	3/3/2006 1:23:18 PM
Surr: BFB	99.8	79.7-118		%REC	1	3/3/2006 1:23:18 PM
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	ND	0.00020		mg/L	1	3/2/2006
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: CMC
Arsenic	ND	0.020		mg/L	1	3/6/2006 12:24:46 PM
Barium	0.039	0.020		mg/L	1	3/6/2006 12:24:46 PM
Cadmium	ND	0.0020		mg/L	1	3/6/2006 12:24:46 PM
Chromium	ND	0.0060		mg/L	1	3/6/2006 12:24:46 PM
Lead	ND	0.0050		mg/L	1	3/6/2006 12:24:46 PM
Selenium	ND	0.050		mg/L	1	3/6/2006 12:24:46 PM
Silver	ND	0.0050		mg/L	1	3/6/2006 12:24:46 PM
EPA METHOD 8260B: VOLATILES						Analyst: KTM
Benzene	ND	1.0		µg/L	1	3/2/2006
Toluene	3.1	1.0		µg/L	1	3/2/2006
Ethylbenzene	ND	1.0		µg/L	1	3/2/2006
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/2/2006
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/2/2006
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/2/2006
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/2/2006
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/2/2006
Naphthalene	ND	2.0		µg/L	1	3/2/2006
1-Methylnaphthalene	ND	4.0		µg/L	1	3/2/2006
2-Methylnaphthalene	ND	4.0		µg/L	1	3/2/2006
Acetone	200	10		µg/L	1	3/2/2006
Bromobenzene	ND	1.0		µg/L	1	3/2/2006
Bromochloromethane	ND	1.0		µg/L	1	3/2/2006
Bromodichloromethane	ND	1.0		µg/L	1	3/2/2006
Bromoform	ND	1.0		µg/L	1	3/2/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 08-Mar-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples

Lab Order: 0602238

EPA METHOD 8260B: VOLATILES

Analyst: KTM

Bromomethane	ND	2.0	µg/L	1	3/2/2006
2-Butanone	ND	10	µg/L	1	3/2/2006
Carbon disulfide	ND	10	µg/L	1	3/2/2006
Carbon Tetrachloride	ND	2.0	µg/L	1	3/2/2006
Chlorobenzene	ND	1.0	µg/L	1	3/2/2006
Chloroethane	ND	2.0	µg/L	1	3/2/2006
Chloroform	4.0	1.0	µg/L	1	3/2/2006
Chloromethane	ND	1.0	µg/L	1	3/2/2006
2-Chlorotoluene	ND	1.0	µg/L	1	3/2/2006
4-Chlorotoluene	ND	1.0	µg/L	1	3/2/2006
cis-1,2-DCE	ND	1.0	µg/L	1	3/2/2006
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	3/2/2006
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	3/2/2006
Dibromochloromethane	ND	1.0	µg/L	1	3/2/2006
Dibromomethane	ND	2.0	µg/L	1	3/2/2006
1,2-Dichlorobenzene	ND	1.0	µg/L	1	3/2/2006
1,3-Dichlorobenzene	ND	1.0	µg/L	1	3/2/2006
1,4-Dichlorobenzene	ND	1.0	µg/L	1	3/2/2006
Dichlorodifluoromethane	ND	1.0	µg/L	1	3/2/2006
1,1-Dichloroethane	ND	2.0	µg/L	1	3/2/2006
1,1-Dichloroethene	ND	1.0	µg/L	1	3/2/2006
1,2-Dichloropropane	ND	1.0	µg/L	1	3/2/2006
1,3-Dichloropropane	ND	1.0	µg/L	1	3/2/2006
2,2-Dichloropropane	ND	2.0	µg/L	1	3/2/2006
1,1-Dichloropropene	ND	1.0	µg/L	1	3/2/2006
Hexachlorobutadiene	ND	2.0	µg/L	1	3/2/2006
2-Hexanone	ND	10	µg/L	1	3/2/2006
Isopropylbenzene	ND	1.0	µg/L	1	3/2/2006
4-Isopropyltoluene	1.7	1.0	µg/L	1	3/2/2006
4-Methyl-2-pentanone	ND	10	µg/L	1	3/2/2006
Methylene Chloride	ND	3.0	µg/L	1	3/2/2006
n-Butylbenzene	ND	1.0	µg/L	1	3/2/2006
n-Propylbenzene	ND	1.0	µg/L	1	3/2/2006
sec-Butylbenzene	ND	2.0	µg/L	1	3/2/2006
Styrene	ND	1.0	µg/L	1	3/2/2006
tert-Butylbenzene	ND	1.0	µg/L	1	3/2/2006
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1	3/2/2006
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1	3/2/2006
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	3/2/2006
trans-1,2-DCE	ND	1.0	µg/L	1	3/2/2006
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	3/2/2006
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	3/2/2006
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	3/2/2006
1,1,1-Trichloroethane	ND	1.0	µg/L	1	3/2/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 08-Mar-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples

Lab Order: 0602238

EPA METHOD 8260B: VOLATILES

Analyst: KTM

1,1,2-Trichloroethane	ND	1.0	µg/L	1	3/2/2006
Trichloroethene (TCE)	ND	1.0	µg/L	1	3/2/2006
Trichlorofluoromethane	ND	1.0	µg/L	1	3/2/2006
1,2,3-Trichloropropane	ND	2.0	µg/L	1	3/2/2006
Vinyl chloride	ND	1.0	µg/L	1	3/2/2006
Xylenes, Total	ND	1.0	µg/L	1	3/2/2006
Surr: 1,2-Dichloroethane-d4	103	69.9-130	%REC	1	3/2/2006
Surr: 4-Bromofluorobenzene	90.6	71.2-123	%REC	1	3/2/2006
Surr: Dibromofluoromethane	103	57.3-135	%REC	1	3/2/2006
Surr: Toluene-d8	91.0	81.9-122	%REC	1	3/2/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

HALL ENVIRONMENTAL
attn: ANDY FREEMAN
4901 HAWKINS NE, SUITE D
ALBUQUERQUE NM 87109-4372

Explanation of codes	
B	Analyte Detected in Method Blank
E	Result is Estimated
H	Analyzed Out of Hold Time
N	Tentatively Identified Compound
S	Subcontracted
1-9	See Footnote

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).

Client: HALL ENVIRONMENTAL
Project: 0602238
Order: 0602539 HAL03 Receipt: 02-24-06

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Sample: 0602238-01C/AL-2 TO EP-1 Collected: 02-23-06 8:00:00 By:
Matrix: AQUEOUS

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0602539-0001A			EPA 405.1 Biochemical Oxygen Demand					By: MKM		
BOD06026	WC.2006.531.15	10-26-4	Biochemical Oxygen Demand	550	mg/L	1	2	1	02-24-06	03-01-06

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

Analytical results are not corrected for method blank or field blank contamination.

1 The percent recoveries of the LCS and LCSD are outside of QA/QC criteria (low). This should be taken into account when reviewing the data.

Hall Environmental Analysis Laboratory

Date: 08-Mar-06

CLIENT: Giant Refining Co

Work Order: 0602238

Project: NMED Monthly Water Samples

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DRO_W

Sample ID: MB-9869	SampType: MBLK	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 2/27/2006	RunNo: 18412
Client ID: ZZZZZ	Batch ID: 9869	TestNo: SW8015		Analysis Date: 2/28/2006	SeqNo: 454270
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND	1.0			
Motor Oil Range Organics (MRO)	ND	5.0			

Sample ID: LCS-9869	SampType: LCS	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 2/27/2006	RunNo: 18412
Client ID: ZZZZZ	Batch ID: 9869	TestNo: SW8015		Analysis Date: 2/28/2006	SeqNo: 454271
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Diesel Range Organics (DRO)	6.746	1.0	5	0	135 81.2 149

Sample ID: LCSD-9869	SampType: LCSD	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 2/27/2006	RunNo: 18412
Client ID: ZZZZZ	Batch ID: 9869	TestNo: SW8015		Analysis Date: 2/28/2006	SeqNo: 454272
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Diesel Range Organics (DRO)	6.353	1.0	5	0	127 81.2 149 6.746 6.00 23

Qualifiers: 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 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0602238
Project: NMED Monthly Water Samples

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GRO_W

Sample ID: 5ML RB-2	SampType: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18480
Client ID: ZZZZZ	Batch ID: R18480	TestNo: SW8015		Analysis Date: 3/4/2006	SeqNo: 456357
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND	0.050			

Sample ID: 5ML RB	SampType: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18489
Client ID: ZZZZZ	Batch ID: R18489	TestNo: SW8015		Analysis Date: 3/6/2006	SeqNo: 456575
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND	0.050			

Sample ID: 2.5UG GRO LCS-2	SampType: LCS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18480
Client ID: ZZZZZ	Batch ID: R18480	TestNo: SW8015		Analysis Date: 3/4/2006	SeqNo: 456358
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	0.4520	0.050	0.5	0	90.4 82.6 114

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18489
Client ID: ZZZZZ	Batch ID: R18489	TestNo: SW8015		Analysis Date: 3/6/2006	SeqNo: 456577
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	0.4980	0.050	0.5	0	99.6 82.6 114

Qualifiers: 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 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
 Work Order: 0602238
 Project: NMED Monthly Water Samples

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: MB-9882	SampType: MBLK	TestCode: 8310_W	Units: µg/L	Prep Date: 2/28/2006	RunNo: 18497						
Client ID: ZZZZZ	Batch ID: 9882	TestNo: SW8310	(SW3510C)	Analysis Date: 3/7/2006	SeqNo: 456803						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	ND	2.5									
1-Methylnaphthalene	ND	2.5									
2-Methylnaphthalene	ND	2.5									
Acenaphthylene	ND	2.5									
Acenaphthene	ND	2.5									
Fluorene	ND	0.80									
Phenanthrene	ND	0.60									
Anthracene	ND	0.60									
Fluoranthene	ND	0.30									
Pyrene	ND	0.30									
Benz(a)anthracene	ND	0.020									
Chrysene	ND	0.20									
Benzo(b)fluoranthene	ND	0.050									
Benzo(k)fluoranthene	ND	0.020									
Benzo(a)pyrene	ND	0.020									
Dibenz(a,h)anthracene	ND	0.040									
Benzo(g,h,i)perylene	ND	0.030									
Indeno(1,2,3-cd)pyrene	ND	0.080									

1
2
3

Sample ID: LCS-9882	SampType: LCS	TestCode: 8310_W	Units: µg/L	Prep Date: 2/28/2006	RunNo: 18497						
Client ID: ZZZZZ	Batch ID: 9882	TestNo: SW8310	(SW3510C)	Analysis Date: 3/7/2006	SeqNo: 456814						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	26.50	2.5	40	0	66.2	34.8	97.4				
1-Methylnaphthalene	27.27	2.5	40.1	0	68.0	34.7	100				
2-Methylnaphthalene	25.31	2.5	40	0	63.3	35	98.1				
Acenaphthylene	26.17	2.5	40.1	0	65.3	48.3	95.1				
Acenaphthene	27.51	2.5	40	0	68.8	45	95				
Fluorene	2.870	0.80	4.01	0	71.6	46.8	93.4				
Phenanthrene	1.590	0.60	2.01	0	79.1	48.7	104				

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

CLIENT: Giant Refining Co

Work Order: 0602238

Project: NMED Monthly Water Samples

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: LCS-9882	SampType: LCS	TestCode: 8310_W	Units: µg/L	Prep Date: 2/28/2006	RunNo: 18497						
Client ID: ZZZZZ	Batch ID: 9882	TestNo: SW8310	(SW3510C)	Analysis Date: 3/7/2006	SeqNo: 456814						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	1.490	0.60	2.01	0	74.1	47.5	102				
Fluoranthene	3.520	0.30	4.01	0	87.8	46.3	108				
Pyrene	3.770	0.30	4.01	0	94.0	43.8	109				
Benz(a)anthracene	0.3600	0.020	0.401	0	89.8	40.3	115				
Chrysene	1.860	0.20	2.01	0	92.5	42.6	107				
Benzo(b)fluoranthene	0.4400	0.050	0.501	0	87.8	48.6	107				
Benzo(k)fluoranthene	0.2200	0.020	0.25	0	88.0	23.3	136				
Benzo(a)pyrene	0.2000	0.020	0.251	0	79.7	33.4	117				
Dibenz(a,h)anthracene	0.4300	0.040	0.501	0	85.8	27.3	139				
Benzo(g,h,i)perylene	0.4400	0.030	0.5	0	88.0	38.2	117				
Indeno(1,2,3-cd)pyrene	0.8530	0.080	1.002	0	85.1	39.9	125				

Sample ID: LCSD-9882	SampType: LCSD	TestCode: 8310_W	Units: µg/L	Prep Date: 2/28/2006	RunNo: 18497						
Client ID: ZZZZZ	Batch ID: 9882	TestNo: SW8310	(SW3510C)	Analysis Date: 3/7/2006	SeqNo: 456839						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	27.23	2.5	40	0	68.1	34.8	97.4				
1-Methylnaphthalene	25.84	2.5	40.1	0	64.4	34.7	100				
2-Methylnaphthalene	25.32	2.5	40	0	63.3	35	98.1				
Acenaphthylene	28.29	2.5	40.1	0	70.5	48.3	95.1				
Acenaphthene	27.25	2.5	40	0	68.1	45	95				
Fluorene	2.840	0.80	4.01	0	70.8	46.8	93.4				
Phenanthrene	1.560	0.60	2.01	0	77.6	48.7	104				
Anthracene	1.520	0.60	2.01	0	75.6	47.5	102				
Fluoranthene	3.160	0.30	4.01	0	78.8	46.3	108				
Pyrene	3.210	0.30	4.01	0	80.0	43.8	109				
Benzo(a)anthracene	0.3100	0.020	0.401	0	77.3	40.3	115				
Chrysene	1.630	0.20	2.01	0	81.1	42.6	107				
Benzo(b)fluoranthene	0.3900	0.050	0.501	0	77.8	48.6	107				
Benzo(k)fluoranthene	0.1900	0.020	0.25	0	76.0	23.3	136				

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co

Work Order: 0602238

Project: NMED Monthly Water Samples

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: LCSD-9882	SampType: LCSD	TestCode: 8310_W	Units: µg/L	Prep Date: 2/28/2006	RunNo: 18497						
Client ID: ZZZZZ	Batch ID: 9882	TestNo: SW8310	(SW3510C)	Analysis Date: 3/7/2006	SeqNo: 456839						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	0.1700	0.020	0.251	0	67.7	33.4	117				
Dibenz(a,h)anthracene	0.3900	0.040	0.501	0	77.8	27.3	139				
Benzo(g,h,i)perylene	0.3700	0.030	0.5	0	74.0	38.2	117				
Indeno(1,2,3-cd)pyrene	0.7800	0.080	1.002	0	77.8	39.9	125				

Qualifiers: 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 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT:

Giant Refining Co

Work Order:

0602238

Project:

NMED Monthly Water Samples

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTW

Sample ID: MB-9905	SampType: MBLK	TestCode: HG_CTW	Units: mg/L	Prep Date: 3/2/2006	RunNo: 18454
Client ID: ZZZZZ	Batch ID: 9905	TestNo: SW7470	(SW7470)	Analysis Date: 3/2/2006	SeqNo: 455693
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	ND	0.00020			

Sample ID: LCS-9905	SampType: LCS	TestCode: HG_CTW	Units: mg/L	Prep Date: 3/2/2006	RunNo: 18454
Client ID: ZZZZZ	Batch ID: 9905	TestNo: SW7470	(SW7470)	Analysis Date: 3/2/2006	SeqNo: 455694
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.004476	0.00020	0.005	0	89.5 80 120

Sample ID: LCSD-9905	SampType: LCSD	TestCode: HG_CTW	Units: mg/L	Prep Date: 3/2/2006	RunNo: 18454
Client ID: ZZZZZ	Batch ID: 9905	TestNo: SW7470	(SW7470)	Analysis Date: 3/2/2006	SeqNo: 455707
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.004543	0.00020	0.005	0	90.9 80 120 0.004476 1.48 0

18 / 29

Qualifiers: 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 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co

Work Order: 0602238

Project: NMED Monthly Water Samples

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS_TOTAL

Sample ID: MB-9915	SampType: MBLK	TestCode: METALS_TO	Units: mg/L	Prep Date: 3/3/2006	RunNo: 18483						
Client ID: ZZZZZ	Batch ID: 9915	TestNo: SW6010A		Analysis Date: 3/6/2006	SeqNo: 456420						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.020									
Barium	ND	0.020									
Cadmium	ND	0.0020									
Chromium	ND	0.0060									
Lead	ND	0.0050									
Selenium	ND	0.050									
Silver	ND	0.0050									

Sample ID: LCS-9915	SampType: LCS	TestCode: METALS_TO	Units: mg/L	Prep Date: 3/3/2006	RunNo: 18483						
Client ID: ZZZZZ	Batch ID: 9915	TestNo: SW6010A		Analysis Date: 3/6/2006	SeqNo: 456421						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5621	0.020	0.5	0	112	80	120				
Barium	0.4882	0.020	0.5	0	97.6	80	120				
Cadmium	0.5037	0.0020	0.5	0	101	80	120				
Chromium	0.4889	0.0060	0.5	0	97.8	80	120				
Lead	0.4994	0.0050	0.5	0	99.9	80	120				
Selenium	0.5433	0.050	0.5	0	109	80	120				
Silver	0.4980	0.0050	0.5	0	99.6	80	120				

Sample ID: LCSD-9915	SampType: LCSD	TestCode: METALS_TO	Units: mg/L	Prep Date: 3/3/2006	RunNo: 18483						
Client ID: ZZZZZ	Batch ID: 9915	TestNo: SW6010A		Analysis Date: 3/6/2006	SeqNo: 456422						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5479	0.020	0.5	0	110	80	120	0.5621	2.56	20	
Barium	0.4847	0.020	0.5	0	96.9	80	120	0.4882	0.706	20	
Cadmium	0.5021	0.0020	0.5	0	100	80	120	0.5037	0.313	20	
Chromium	0.4881	0.0060	0.5	0	97.6	80	120	0.4889	0.166	20	
Lead	0.4988	0.0050	0.5	0	99.8	80	120	0.4994	0.111	20	
Selenium	0.5338	0.050	0.5	0	107	80	120	0.5433	1.77	20	

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT:

Giant Refining Co

Work Order:

0602238

Project:

NMED Monthly Water Samples

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS_TOTAL

Sample ID: LCSD-9915	SampType: LCSD	TestCode: METALS_TO	Units: mg/L	Prep Date: 3/3/2006	RunNo: 18483						
Client ID: ZZZZZ	Batch ID: 9915	TestNo: SW6010A		Analysis Date: 3/6/2006	SeqNo: 456422						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.4954	0.0050	0.5	0	99.1	80	120	0.498	0.530	20	

Qualifiers:

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

Hall Environmental Analysis Laboratory

Date: 08-Mar-06

CLIENT: Giant Refining Co

Work Order: 0602238

Project: NMED Monthly Water Samples

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5mL rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18457						
Client ID: ZZZZ	Batch ID: R18457	TestNo: SW8260B		Analysis Date: 3/2/2006	SeqNo: 455862						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Methyl tert-butyl ether (MTBE)	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,2-Dichloroethane (EDC)	ND	1.0									
1,2-Dibromoethane (EDB)	ND	1.0									
Naphthalene	ND	2.0									
1-Methylnaphthalene	ND	4.0									
2-Methylnaphthalene	ND	4.0									
Acetone	ND	10									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	2.0									
2-Butanone	ND	10									
Carbon disulfide	ND	10									
Carbon Tetrachloride	ND	2.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	2.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
cis-1,2-DCE	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									

Qualifiers:	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	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0602238
Project: NMED Monthly Water Samples

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5mL rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18457						
Client ID: ZZZZ	Batch ID: R18457	TestNo: SW8260B		Analysis Date: 3/2/2006	SeqNo: 455862						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	2.0									
1,2-Dichlorobenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
1,1-Dichloroethane	ND	2.0									
1,1-Dichloroethene	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3-Dichloropropane	ND	1.0									
2,2-Dichloropropane	ND	2.0									
1,1-Dichloropropene	ND	1.0									
Hexachlorobutadiene	ND	2.0									
2-Hexanone	ND	10									
Isopropylbenzene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Methylene Chloride	ND	3.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
sec-Butylbenzene	ND	2.0									
Styrene	ND	1.0									
tert-Butylbenzene	ND	1.0									
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
Tetrachloroethene (PCE)	ND	1.0									
trans-1,2-DCE	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									

Qualifiers: 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 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0602238
Project: NMED Monthly Water Samples

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5mL rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18457						
Client ID: ZZZZZ	Batch ID: R18457	TestNo: SW8260B		Analysis Date: 3/2/2006	SeqNo: 455862						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,2-Trichloroethane	ND	1.0									
Trichloroethene (TCE)	ND	1.0									
Trichlorofluoromethane	ND	1.0									
1,2,3-Trichloropropane	ND	2.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	1.0									

Sample ID: 5mL rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18474						
Client ID: ZZZZZ	Batch ID: R18474	TestNo: SW8260B		Analysis Date: 3/3/2006	SeqNo: 456180						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Methyl tert-butyl ether (MTBE)	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,2-Dichloroethane (EDC)	ND	1.0									
1,2-Dibromoethane (EDB)	ND	1.0									
Naphthalene	ND	2.0									
1-Methylnaphthalene	ND	4.0									
2-Methylnaphthalene	ND	4.0									
Acetone	ND	10									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	2.0									
2-Butanone	ND	10									
Carbon disulfide	ND	10									

Qualifiers:	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	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co

Work Order: 0602238

Project: NMED Monthly Water Samples

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5mL rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18474						
Client ID: ZZZZZ	Batch ID: R18474	TestNo: SW8260B		Analysis Date: 3/3/2006	SeqNo: 456180						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Tetrachloride	ND	2.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	2.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
cis-1,2-DCE	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	2.0									
1,2-Dichlorobenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
1,1-Dichloroethane	ND	2.0									
1,1-Dichloroethene	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3-Dichloropropane	ND	1.0									
2,2-Dichloropropane	ND	2.0									
1,1-Dichloropropene	ND	1.0									
Hexachlorobutadiene	ND	2.0									
2-Hexanone	ND	10									
Isopropylbenzene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Methylene Chloride	ND	3.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
sec-Butylbenzene	ND	2.0									

Qualifiers:	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	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0602238
Project: NMED Monthly Water Samples

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5mL rb	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18474						
Client ID: ZZZZZ	Batch ID: R18474	TestNo: SW8260B		Analysis Date: 3/3/2006	SeqNo: 456180						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Styrene	ND	1.0									
tert-Butylbenzene	ND	1.0									
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
Tetrachloroethene (PCE)	ND	1.0									
trans-1,2-DCE	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
Trichloroethene (TCE)	ND	1.0									
Trichlorofluoromethane	ND	1.0									
1,2,3-Trichloropropane	ND	2.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	1.0									

25
29

Sample ID: 5mL rb-b	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18502						
Client ID: ZZZZZ	Batch ID: R18502	TestNo: SW8260B		Analysis Date: 3/7/2006	SeqNo: 456977						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Methyl tert-butyl ether (MTBE)	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,2-Dichloroethane (EDC)	ND	1.0									
1,2-Dibromoethane (EDB)	ND	1.0									
Naphthalene	ND	2.0									

Qualifiers:	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	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co

Work Order: 0602238

Project: NMED Monthly Water Samples

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5mL rb-b	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18502						
Client ID: ZZZZZ	Batch ID: R18502	TestNo: SW8260B		Analysis Date: 3/7/2006	SeqNo: 456977						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	4.0									
2-Methylnaphthalene	ND	4.0									
Acetone	ND	10									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	2.0									
2-Butanone	ND	10									
Carbon disulfide	ND	10									
Carbon Tetrachloride	ND	2.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	2.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
cis-1,2-DCE	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	2.0									
1,2-Dichlorobenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
1,1-Dichloroethane	ND	2.0									
1,1-Dichloroethene	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3-Dichloropropane	ND	1.0									
2,2-Dichloropropane	ND	2.0									

Qualifiers: E Value above quantitation range ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits

R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0602238
Project: NMED Monthly Water Samples

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5mL rb-b	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18502						
Client ID: ZZZZZ	Batch ID: R18502	TestNo: SW8260B		Analysis Date: 3/7/2006	SeqNo: 456977						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0									
Hexachlorobutadiene	ND	2.0									
2-Hexanone	ND	10									
Isopropylbenzene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Methylene Chloride	ND	3.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
sec-Butylbenzene	ND	2.0									
Styrene	ND	1.0									
tert-Butylbenzene	ND	1.0									
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
Tetrachloroethene (PCE)	ND	1.0									
trans-1,2-DCE	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
Trichloroethene (TCE)	ND	1.0									
Trichlorofluoromethane	ND	1.0									
1,2,3-Trichloropropane	ND	2.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	1.0									

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

CLIENT: Giant Refining Co
 Work Order: 0602238
 Project: NMED Monthly Water Samples

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 100ng Ics	SampType: LCS	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18457						
Client ID: ZZZZZ	Batch ID: R18457	TestNo: SW8260B		Analysis Date: 3/2/2006	SeqNo: 455863						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	19.75	1.0	20	0	98.7	79.2	130				
Toluene	18.63	1.0	20	0	93.2	81.5	118				
Chlorobenzene	19.31	1.0	20	0	96.6	81.2	132				
1,1-Dichloroethene	19.44	1.0	20	0	97.2	65.5	134				
Trichloroethene (TCE)	18.19	1.0	20	0	91.0	67	131				

Sample ID: 100ng Ics	SampType: LCS	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18474						
Client ID: ZZZZZ	Batch ID: R18474	TestNo: SW8260B		Analysis Date: 3/3/2006	SeqNo: 456181						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	19.74	1.0	20	0	98.7	79.2	130				
Toluene	17.72	1.0	20	0	88.6	81.5	118				
Chlorobenzene	18.95	1.0	20	0	94.8	81.2	132				
1,1-Dichloroethene	18.87	1.0	20	0	94.3	65.5	134				
Trichloroethene (TCE)	18.60	1.0	20	0	93.0	67	131				

Sample ID: 100ng Ics	SampType: LCS	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18502						
Client ID: ZZZZZ	Batch ID: R18502	TestNo: SW8260B		Analysis Date: 3/7/2006	SeqNo: 456978						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	19.19	1.0	20	0	95.9	79.2	130				
Toluene	18.39	1.0	20	0	91.9	81.5	118				
Chlorobenzene	19.84	1.0	20	0	99.2	81.2	132				
1,1-Dichloroethene	19.77	1.0	20	0	98.8	65.5	134				
Trichloroethene (TCE)	18.19	1.0	20	0	90.9	67	131				

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

2/24/2006

Work Order Number 0602238

Received by AT

Checklist completed by


Signature2/24/08
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 ☐

11 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? 3° 4° C ± 2 Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87106
Tel. 505.345.3975 Fax 505.345.3976
www.hallenenvironmental.com

Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenviroental.com

ANALYSIS REQUEST

CHAIN-OF-CUSTODY RECORD						QA / QC Package: Std ☐ Level 4 ☒		
Other:								
Client: Giant Refining Company - Cimiza						Project Name: NMEO Monthly		
Address: Route 13, Box 7 Gallup, NM 87301						Water Samples		
Phone #: 505-722-3833						Project #:		
Fax #: 505-722-0210						Project Manager: Steve Morris		
Sampler: Steve Morris						Sample Temperature: 3°		
Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative HgCl ₂ HNO ₃		HEAL No.	
-23-06	0800	H ₂ O	AL-2 LEP-1				000223811	
"	0730	"	OAPIS				-2	
"	0830	"	NAPIS				-3	
"	0845	"	Pilata TC				-4	
Date: 12/23/06	Time: 0915	Relinquished By: (Signature) [Signature]		Received By: (Signature) [Signature]		1143		
Date:	Time:	Relinquished By: (Signature)		Received By: (Signature)				

COVER LETTER

Friday, February 17, 2006

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

TEL: (505) 722-3833

FAX (505) 722-0210

RE: NMED Monthly Water Samples 1/31/2006

Order No.: 0602041

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 4 sample(s) on 2/3/2006 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: 17-Feb-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples 1/31/2006
Lab Order: 0602041

CASE NARRATIVE

Analytical Comments for METHOD 8015GRO_W, SAMPLE 0602041-01A: Elevated surrogate due to matrix interference. Analytical Comments for METHOD 8015DRO_W, SAMPLE 0602041-01A: DNOP not recovered due to dilution



Hall Environmental Analysis Laboratory

Date: 17-Feb-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples 1/31/2006

Lab Order: 0602041

Lab ID: 0602041-01

Collection Date: 1/31/2006 11:30:00 AM

Client Sample ID: AL-2 to EP-1

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	1300	150		mg/L	50	2/7/2006 7:19:43 PM
Motor Oil Range Organics (MRO)	ND	750		mg/L	50	2/7/2006 7:19:43 PM
Surr: DNOP	0	58-140	S	%REC	50	2/7/2006 7:19:43 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	9.7	1.0		mg/L	20	2/6/2006 11:08:34 PM
Surr: BFB	218	79.7-118	S	%REC	20	2/6/2006 11:08:34 PM
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	0.012	0.0010		mg/L	5	2/15/2006
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	2/9/2006 2:12:38 PM
Barium	0.53	0.020		mg/L	1	2/9/2006 2:12:38 PM
Cadmium	ND	0.0020		mg/L	1	2/9/2006 2:12:38 PM
Chromium	0.014	0.0060		mg/L	1	2/9/2006 2:12:38 PM
Lead	0.017	0.0050		mg/L	1	2/9/2006 2:12:38 PM
Selenium	ND	0.050		mg/L	1	2/9/2006 2:12:38 PM
Silver	ND	0.0050		mg/L	1	2/9/2006 2:12:38 PM
EPA METHOD 8260B: VOLATILES						Analyst: KTM
Benzene	410	100		µg/L	100	2/9/2006
Toluene	1000	100		µg/L	100	2/9/2006
Ethylbenzene	ND	100		µg/L	100	2/9/2006
Methyl tert-butyl ether (MTBE)	ND	100		µg/L	100	2/9/2006
1,2,4-Trimethylbenzene	290	100		µg/L	100	2/9/2006
1,3,5-Trimethylbenzene	ND	100		µg/L	100	2/9/2006
1,2-Dichloroethane (EDC)	ND	100		µg/L	100	2/9/2006
1,2-Dibromoethane (EDB)	ND	100		µg/L	100	2/9/2006
Naphthalene	320	200		µg/L	100	2/9/2006
1-Methylnaphthalene	ND	400		µg/L	100	2/9/2006
2-Methylnaphthalene	540	400		µg/L	100	2/9/2006
Acetone	4600	1000		µg/L	100	2/9/2006
Bromobenzene	ND	100		µg/L	100	2/9/2006
Bromochloromethane	ND	100		µg/L	100	2/9/2006
Bromodichloromethane	ND	100		µg/L	100	2/9/2006
Bromoform	ND	100		µg/L	100	2/9/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 17-Feb-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples 1/31/2006

Lab Order: 0602041

EPA METHOD 8260B: VOLATILES

Analyst: KTM

Bromomethane	ND	200	µg/L	100	2/9/2006
2-Butanone	ND	1000	µg/L	100	2/9/2006
Carbon disulfide	ND	1000	µg/L	100	2/9/2006
Carbon Tetrachloride	ND	200	µg/L	100	2/9/2006
Chlorobenzene	ND	100	µg/L	100	2/9/2006
Chloroethane	ND	200	µg/L	100	2/9/2006
Chloroform	ND	100	µg/L	100	2/9/2006
Chloromethane	ND	100	µg/L	100	2/9/2006
2-Chlorotoluene	ND	100	µg/L	100	2/9/2006
4-Chlorotoluene	ND	100	µg/L	100	2/9/2006
cis-1,2-DCE	ND	100	µg/L	100	2/9/2006
cis-1,3-Dichloropropene	ND	100	µg/L	100	2/9/2006
1,2-Dibromo-3-chloropropane	ND	200	µg/L	100	2/9/2006
Dibromochloromethane	ND	100	µg/L	100	2/9/2006
Dibromomethane	ND	200	µg/L	100	2/9/2006
1,2-Dichlorobenzene	ND	100	µg/L	100	2/9/2006
1,3-Dichlorobenzene	ND	100	µg/L	100	2/9/2006
1,4-Dichlorobenzene	ND	100	µg/L	100	2/9/2006
Dichlorodifluoromethane	ND	100	µg/L	100	2/9/2006
1,1-Dichloroethane	ND	200	µg/L	100	2/9/2006
1,1-Dichloroethene	ND	100	µg/L	100	2/9/2006
1,2-Dichloropropane	ND	100	µg/L	100	2/9/2006
1,3-Dichloropropane	ND	100	µg/L	100	2/9/2006
2,2-Dichloropropane	ND	200	µg/L	100	2/9/2006
1,1-Dichloropropene	ND	100	µg/L	100	2/9/2006
Hexachlorobutadiene	ND	200	µg/L	100	2/9/2006
2-Hexanone	ND	1000	µg/L	100	2/9/2006
Isopropylbenzene	ND	100	µg/L	100	2/9/2006
4-Isopropyltoluene	ND	100	µg/L	100	2/9/2006
4-Methyl-2-pentanone	ND	1000	µg/L	100	2/9/2006
Methylene Chloride	ND	300	µg/L	100	2/9/2006
n-Butylbenzene	ND	100	µg/L	100	2/9/2006
n-Propylbenzene	ND	100	µg/L	100	2/9/2006
sec-Butylbenzene	ND	100	µg/L	100	2/9/2006
Styrene	ND	100	µg/L	100	2/9/2006
tert-Butylbenzene	ND	100	µg/L	100	2/9/2006
1,1,1,2-Tetrachloroethane	ND	100	µg/L	100	2/9/2006
1,1,2,2-Tetrachloroethane	ND	100	µg/L	100	2/9/2006
Tetrachloroethene (PCE)	ND	100	µg/L	100	2/9/2006
trans-1,2-DCE	ND	100	µg/L	100	2/9/2006
trans-1,3-Dichloropropene	ND	100	µg/L	100	2/9/2006
1,2,3-Trichlorobenzene	ND	100	µg/L	100	2/9/2006
1,2,4-Trichlorobenzene	ND	100	µg/L	100	2/9/2006
1,1,1-Trichloroethane	ND	100	µg/L	100	2/9/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 17-Feb-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples 1/31/2006

Lab Order: 0602041

EPA METHOD 8260B: VOLATILES

Analyst: KTM

1,1,2-Trichloroethane	ND	100	µg/L	100	2/9/2006
Trichloroethene (TCE)	ND	100	µg/L	100	2/9/2006
Trichlorofluoromethane	ND	100	µg/L	100	2/9/2006
1,2,3-Trichloropropane	ND	200	µg/L	100	2/9/2006
Vinyl chloride	ND	100	µg/L	100	2/9/2006
Xylenes, Total	610	100	µg/L	100	2/9/2006
Surr: 1,2-Dichloroethane-d4	101	69.9-130	%REC	100	2/9/2006
Surr: 4-Bromofluorobenzene	117	71.2-123	%REC	100	2/9/2006
Surr: Dibromofluoromethane	104	57.3-135	%REC	100	2/9/2006
Surr: Toluene-d8	100	81.9-122	%REC	100	2/9/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 17-Feb-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples 1/31/2006

Lab Order: 0602041

Lab ID: 0602041-02 Collection Date: 1/31/2006 11:00:00 AM

Client Sample ID: OAPIS Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

EPA METHOD 8015B: DIESEL RANGE

Analyst: SCC

Diesel Range Organics (DRO)	2.1	1.0		mg/L	1	2/7/2006 7:52:31 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	2/7/2006 7:52:31 PM
Surr: DNOP	119	58-140		%REC	1	2/7/2006 7:52:31 PM

EPA METHOD 8015B: GASOLINE RANGE

Analyst: NSB

Gasoline Range Organics (GRO)	7.2	2.0		mg/L	40	2/7/2006 12:08:45 AM
Surr: BFB	108	79.7-118		%REC	40	2/7/2006 12:08:45 AM

EPA METHOD 8310: PAHS

Analyst: JMP

Naphthalene	170	12		µg/L	5	2/16/2006 4:59:04 PM
1-Methylnaphthalene	38	2.5		µg/L	1	2/13/2006 2:47:46 PM
2-Methylnaphthalene	7.1	2.5		µg/L	1	2/13/2006 2:47:46 PM
Acenaphthylene	ND	2.5		µg/L	1	2/13/2006 2:47:46 PM
Acenaphthene	6.0	2.5		µg/L	1	2/13/2006 2:47:46 PM
Fluorene	3.2	0.80		µg/L	1	2/13/2006 2:47:46 PM
Phenanthrene	2.0	0.60		µg/L	1	2/13/2006 2:47:46 PM
Anthracene	ND	0.60		µg/L	1	2/13/2006 2:47:46 PM
Fluoranthene	0.31	0.30		µg/L	1	2/13/2006 2:47:46 PM
Pyrene	0.57	0.30		µg/L	1	2/13/2006 2:47:46 PM
Benz(a)anthracene	0.070	0.020		µg/L	1	2/13/2006 2:47:46 PM
Chrysene	0.22	0.20		µg/L	1	2/13/2006 2:47:46 PM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	2/13/2006 2:47:46 PM
Benzo(k)fluoranthene	0.020	0.020		µg/L	1	2/13/2006 2:47:46 PM
Benzo(a)pyrene	0.030	0.020		µg/L	1	2/13/2006 2:47:46 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	2/13/2006 2:47:46 PM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	2/13/2006 2:47:46 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	2/13/2006 2:47:46 PM
Surr: Benzo(e)pyrene	72.2	54-102		%REC	1	2/13/2006 2:47:46 PM

EPA METHOD 7470: MERCURY

Analyst: CMC

Mercury	ND	0.00020		mg/L	1	2/15/2006
---------	----	---------	--	------	---	-----------

EPA 6010: TOTAL RECOVERABLE METALS

Analyst: NMO

Arsenic	0.022	0.020		mg/L	1	2/9/2006 2:17:08 PM
Barium	0.12	0.020		mg/L	1	2/9/2006 2:17:08 PM
Cadmium	ND	0.0020		mg/L	1	2/9/2006 2:17:08 PM
Chromium	0.011	0.0060		mg/L	1	2/9/2006 2:17:08 PM

Qualifiers:	* 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	

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples 1/31/2006

Lab Order: 0602041

EPA 6010: TOTAL RECOVERABLE METALS

Analyst: NMO

Lead	ND	0.0050	mg/L	1	2/9/2006 2:17:08 PM
Selenium	ND	0.050	mg/L	1	2/9/2006 2:17:08 PM
Silver	ND	0.0050	mg/L	1	2/9/2006 2:17:08 PM

EPA METHOD 8260B: VOLATILES

Analyst: KTM

Benzene	880	20	µg/L	20	2/9/2006
Toluene	1500	20	µg/L	20	2/9/2006
Ethylbenzene	ND	20	µg/L	20	2/9/2006
Methyl tert-butyl ether (MTBE)	ND	20	µg/L	20	2/9/2006
1,2,4-Trimethylbenzene	120	20	µg/L	20	2/9/2006
1,3,5-Trimethylbenzene	66	20	µg/L	20	2/9/2006
1,2-Dichloroethane (EDC)	ND	20	µg/L	20	2/9/2006
1,2-Dibromoethane (EDB)	ND	20	µg/L	20	2/9/2006
Naphthalene	46	40	µg/L	20	2/9/2006
1-Methylnaphthalene	81	80	µg/L	20	2/9/2006
2-Methylnaphthalene	84	80	µg/L	20	2/9/2006
Acetone	ND	200	µg/L	20	2/9/2006
Bromobenzene	ND	20	µg/L	20	2/9/2006
Bromochloromethane	ND	20	µg/L	20	2/9/2006
Bromodichloromethane	ND	20	µg/L	20	2/9/2006
Bromoform	ND	20	µg/L	20	2/9/2006
Bromomethane	ND	40	µg/L	20	2/9/2006
2-Butanone	ND	200	µg/L	20	2/9/2006
Carbon disulfide	ND	200	µg/L	20	2/9/2006
Carbon Tetrachloride	ND	40	µg/L	20	2/9/2006
Chlorobenzene	ND	20	µg/L	20	2/9/2006
Chloroethane	ND	40	µg/L	20	2/9/2006
Chloroform	ND	20	µg/L	20	2/9/2006
Chloromethane	ND	20	µg/L	20	2/9/2006
2-Chlorotoluene	ND	20	µg/L	20	2/9/2006
4-Chlorotoluene	ND	20	µg/L	20	2/9/2006
cis-1,2-DCE	ND	20	µg/L	20	2/9/2006
cis-1,3-Dichloropropene	ND	20	µg/L	20	2/9/2006
1,2-Dibromo-3-chloropropane	ND	40	µg/L	20	2/9/2006
Dibromochloromethane	ND	20	µg/L	20	2/9/2006
Dibromomethane	ND	40	µg/L	20	2/9/2006
1,2-Dichlorobenzene	ND	20	µg/L	20	2/9/2006
1,3-Dichlorobenzene	ND	20	µg/L	20	2/9/2006
1,4-Dichlorobenzene	ND	20	µg/L	20	2/9/2006
Dichlorodifluoromethane	ND	20	µg/L	20	2/9/2006
1,1-Dichloroethane	ND	40	µg/L	20	2/9/2006
1,1-Dichloroethene	ND	20	µg/L	20	2/9/2006
1,2-Dichloropropane	ND	20	µg/L	20	2/9/2006
1,3-Dichloropropane	ND	20	µg/L	20	2/9/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit



Hall Environmental Analysis Laboratory

Date: 17-Feb-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples 1/31/2006

Lab Order: 0602041

EPA METHOD 8260B: VOLATILES

Analyst: KTM

2,2-Dichloropropane	ND	40	µg/L	20	2/9/2006
1,1-Dichloropropene	ND	20	µg/L	20	2/9/2006
Hexachlorobutadiene	ND	40	µg/L	20	2/9/2006
2-Hexanone	ND	200	µg/L	20	2/9/2006
Isopropylbenzene	ND	20	µg/L	20	2/9/2006
4-Isopropyltoluene	ND	20	µg/L	20	2/9/2006
4-Methyl-2-pentanone	ND	200	µg/L	20	2/9/2006
Methylene Chloride	ND	60	µg/L	20	2/9/2006
n-Butylbenzene	ND	20	µg/L	20	2/9/2006
n-Propylbenzene	ND	20	µg/L	20	2/9/2006
sec-Butylbenzene	ND	20	µg/L	20	2/9/2006
Styrene	ND	20	µg/L	20	2/9/2006
tert-Butylbenzene	ND	20	µg/L	20	2/9/2006
1,1,1,2-Tetrachloroethane	ND	20	µg/L	20	2/9/2006
1,1,2,2-Tetrachloroethane	ND	20	µg/L	20	2/9/2006
Tetrachloroethene (PCE)	ND	20	µg/L	20	2/9/2006
trans-1,2-DCE	ND	20	µg/L	20	2/9/2006
trans-1,3-Dichloropropene	ND	20	µg/L	20	2/9/2006
1,2,3-Trichlorobenzene	ND	20	µg/L	20	2/9/2006
1,2,4-Trichlorobenzene	ND	20	µg/L	20	2/9/2006
1,1,1-Trichloroethane	ND	20	µg/L	20	2/9/2006
1,1,2-Trichloroethane	ND	20	µg/L	20	2/9/2006
Trichloroethene (TCE)	ND	20	µg/L	20	2/9/2006
Trichlorofluoromethane	ND	20	µg/L	20	2/9/2006
1,2,3-Trichloropropane	ND	40	µg/L	20	2/9/2006
Vinyl chloride	ND	20	µg/L	20	2/9/2006
Xylenes, Total	1500	20	µg/L	20	2/9/2006
Surr: 1,2-Dichloroethane-d4	102	69.9-130	%REC	20	2/9/2006
Surr: 4-Bromofluorobenzene	98.4	71.2-123	%REC	20	2/9/2006
Surr: Dibromofluoromethane	104	57.3-135	%REC	20	2/9/2006
Surr: Toluene-d8	95.9	81.9-122	%REC	20	2/9/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit



Hall Environmental Analysis Laboratory

Date: 17-Feb-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples 1/31/2006

Lab Order: 0602041

Lab ID: 0602041-03

Collection Date: 1/31/2006 1:00:00 PM

Client Sample ID: NAPIS

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

EPA METHOD 8015B: DIESEL RANGE

Analyst: SCC

Diesel Range Organics (DRO)	120	3.0		mg/L	1	2/7/2006 8:25:34 PM
Motor Oil Range Organics (MRO)	ND	15		mg/L	1	2/7/2006 8:25:34 PM
Surr: DNOP	112	58-140		%REC	1	2/7/2006 8:25:34 PM

EPA METHOD 8015B: GASOLINE RANGE

Analyst: NSB

Gasoline Range Organics (GRO)	12	5.0		mg/L	100	2/7/2006 12:38:45 AM
Surr: BFB	113	79.7-118		%REC	100	2/7/2006 12:38:45 AM

EPA METHOD 8260B: VOLATILES

Analyst: KTM

Benzene	3200	50		µg/L	50	2/9/2006
Toluene	2900	50		µg/L	50	2/9/2006
Ethylbenzene	150	50		µg/L	50	2/9/2006
Methyl tert-butyl ether (MTBE)	5100	50		µg/L	50	2/9/2006
1,2,4-Trimethylbenzene	260	50		µg/L	50	2/9/2006
1,3,5-Trimethylbenzene	58	50		µg/L	50	2/9/2006
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	2/9/2006
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	2/9/2006
Naphthalene	240	100		µg/L	50	2/9/2006
1-Methylnaphthalene	240	200		µg/L	50	2/9/2006
2-Methylnaphthalene	350	200		µg/L	50	2/9/2006
Acetone	11000	2000		µg/L	200	2/9/2006
Bromobenzene	ND	50		µg/L	50	2/9/2006
Bromochloromethane	ND	50		µg/L	50	2/9/2006
Bromodichloromethane	ND	50		µg/L	50	2/9/2006
Bromoform	ND	50		µg/L	50	2/9/2006
Bromomethane	ND	100		µg/L	50	2/9/2006
2-Butanone	2500	500		µg/L	50	2/9/2006
Carbon disulfide	ND	500		µg/L	50	2/9/2006
Carbon Tetrachloride	ND	100		µg/L	50	2/9/2006
Chlorobenzene	ND	50		µg/L	50	2/9/2006
Chloroethane	ND	100		µg/L	50	2/9/2006
Chloroform	ND	50		µg/L	50	2/9/2006
Chloromethane	ND	50		µg/L	50	2/9/2006
2-Chlorotoluene	ND	50		µg/L	50	2/9/2006
4-Chlorotoluene	ND	50		µg/L	50	2/9/2006
cis-1,2-DCE	ND	50		µg/L	50	2/9/2006
cis-1,3-Dichloropropene	ND	50		µg/L	50	2/9/2006
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	2/9/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit



Hall Environmental Analysis Laboratory

Date: 17-Feb-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples 1/31/2006

Lab Order: 0602041

EPA METHOD 8260B: VOLATILES

Analyst: KTM

Dibromochloromethane	ND	50	µg/L	50	2/9/2006
Dibromomethane	ND	100	µg/L	50	2/9/2006
1,2-Dichlorobenzene	ND	50	µg/L	50	2/9/2006
1,3-Dichlorobenzene	ND	50	µg/L	50	2/9/2006
1,4-Dichlorobenzene	ND	50	µg/L	50	2/9/2006
Dichlorodifluoromethane	ND	50	µg/L	50	2/9/2006
1,1-Dichloroethane	ND	100	µg/L	50	2/9/2006
1,1-Dichloroethene	ND	50	µg/L	50	2/9/2006
1,2-Dichloropropane	ND	50	µg/L	50	2/9/2006
1,3-Dichloropropane	ND	50	µg/L	50	2/9/2006
2,2-Dichloropropane	ND	100	µg/L	50	2/9/2006
1,1-Dichloropropene	ND	50	µg/L	50	2/9/2006
Hexachlorobutadiene	ND	100	µg/L	50	2/9/2006
2-Hexanone	ND	500	µg/L	50	2/9/2006
Isopropylbenzene	ND	50	µg/L	50	2/9/2006
4-Isopropyltoluene	ND	50	µg/L	50	2/9/2006
4-Methyl-2-pentanone	ND	500	µg/L	50	2/9/2006
Methylene Chloride	ND	150	µg/L	50	2/9/2006
n-Butylbenzene	ND	50	µg/L	50	2/9/2006
n-Propylbenzene	ND	50	µg/L	50	2/9/2006
sec-Butylbenzene	ND	50	µg/L	50	2/9/2006
Styrene	ND	50	µg/L	50	2/9/2006
tert-Butylbenzene	ND	50	µg/L	50	2/9/2006
1,1,1,2-Tetrachloroethane	ND	50	µg/L	50	2/9/2006
1,1,2,2-Tetrachloroethane	ND	50	µg/L	50	2/9/2006
Tetrachloroethene (PCE)	ND	50	µg/L	50	2/9/2006
trans-1,2-DCE	ND	50	µg/L	50	2/9/2006
trans-1,3-Dichloropropene	ND	50	µg/L	50	2/9/2006
1,2,3-Trichlorobenzene	ND	50	µg/L	50	2/9/2006
1,2,4-Trichlorobenzene	ND	50	µg/L	50	2/9/2006
1,1,1-Trichloroethane	ND	50	µg/L	50	2/9/2006
1,1,2-Trichloroethane	ND	50	µg/L	50	2/9/2006
Trichloroethene (TCE)	ND	50	µg/L	50	2/9/2006
Trichlorofluoromethane	ND	50	µg/L	50	2/9/2006
1,2,3-Trichloropropane	ND	100	µg/L	50	2/9/2006
Vinyl chloride	ND	50	µg/L	50	2/9/2006
Xylenes, Total	1000	50	µg/L	50	2/9/2006
Surr: 1,2-Dichloroethane-d4	106	69.9-130	%REC	50	2/9/2006
Surr: 4-Bromofluorobenzene	114	71.2-123	%REC	50	2/9/2006
Surr: Dibromofluoromethane	110	57.3-135	%REC	50	2/9/2006
Surr: Toluene-d8	98.3	81.9-122	%REC	50	2/9/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit



Hall Environmental Analysis Laboratory

Date: 17-Feb-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples 1/31/2006

Lab Order: 0602041

Lab ID: 0602041-04

Collection Date: 1/31/2006 2:00:00 PM

Client Sample ID: Pilot TC

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	14	1.0		mg/L	1	2/7/2006 9:31:39 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	2/7/2006 9:31:39 PM
Surr: DNOP	139	58-140		%REC	1	2/7/2006 9:31:39 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	2/7/2006 1:08:51 AM
Surr: BFB	109	79.7-118		%REC	1	2/7/2006 1:08:51 AM
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	ND	0.00020		mg/L	1	2/15/2006
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	2/9/2006 2:21:04 PM
Barium	0.024	0.020		mg/L	1	2/9/2006 2:21:04 PM
Cadmium	ND	0.0020		mg/L	1	2/9/2006 2:21:04 PM
Chromium	ND	0.0060		mg/L	1	2/9/2006 2:21:04 PM
Lead	ND	0.0050		mg/L	1	2/9/2006 2:21:04 PM
Selenium	ND	0.050		mg/L	1	2/9/2006 2:21:04 PM
Silver	ND	0.0050		mg/L	1	2/9/2006 2:21:04 PM
EPA METHOD 8260B: VOLATILES						Analyst: KTM
Benzene	ND	1.0		µg/L	1	2/9/2006
Toluene	1.5	1.0		µg/L	1	2/9/2006
Ethylbenzene	ND	1.0		µg/L	1	2/9/2006
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/9/2006
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/9/2006
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/9/2006
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/9/2006
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/9/2006
Naphthalene	ND	2.0		µg/L	1	2/9/2006
1-Methylnaphthalene	ND	4.0		µg/L	1	2/9/2006
2-Methylnaphthalene	ND	4.0		µg/L	1	2/9/2006
Acetone	180	10		µg/L	1	2/9/2006
Bromobenzene	ND	1.0		µg/L	1	2/9/2006
Bromochloromethane	ND	1.0		µg/L	1	2/9/2006
Bromodichloromethane	ND	1.0		µg/L	1	2/9/2006
Bromoform	ND	1.0		µg/L	1	2/9/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 17-Feb-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples 1/31/2006

Lab Order: 0602041

EPA METHOD 8260B: VOLATILES

Analyst: KTM

Bromomethane	ND	2.0	µg/L	1	2/9/2006
2-Butanone	ND	10	µg/L	1	2/9/2006
Carbon disulfide	ND	10	µg/L	1	2/9/2006
Carbon Tetrachloride	ND	2.0	µg/L	1	2/9/2006
Chlorobenzene	ND	1.0	µg/L	1	2/9/2006
Chloroethane	ND	2.0	µg/L	1	2/9/2006
Chloroform	2.5	1.0	µg/L	1	2/9/2006
Chloromethane	ND	1.0	µg/L	1	2/9/2006
2-Chlorotoluene	ND	1.0	µg/L	1	2/9/2006
4-Chlorotoluene	ND	1.0	µg/L	1	2/9/2006
cis-1,2-DCE	ND	1.0	µg/L	1	2/9/2006
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	2/9/2006
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	2/9/2006
Dibromochloromethane	ND	1.0	µg/L	1	2/9/2006
Dibromomethane	ND	2.0	µg/L	1	2/9/2006
1,2-Dichlorobenzene	ND	1.0	µg/L	1	2/9/2006
1,3-Dichlorobenzene	ND	1.0	µg/L	1	2/9/2006
1,4-Dichlorobenzene	ND	1.0	µg/L	1	2/9/2006
Dichlorodifluoromethane	ND	1.0	µg/L	1	2/9/2006
1,1-Dichloroethane	ND	2.0	µg/L	1	2/9/2006
1,1-Dichloroethene	ND	1.0	µg/L	1	2/9/2006
1,2-Dichloropropane	ND	1.0	µg/L	1	2/9/2006
1,3-Dichloropropane	ND	1.0	µg/L	1	2/9/2006
2,2-Dichloropropane	ND	2.0	µg/L	1	2/9/2006
1,1-Dichloropropene	ND	1.0	µg/L	1	2/9/2006
Hexachlorobutadiene	ND	2.0	µg/L	1	2/9/2006
2-Hexanone	ND	10	µg/L	1	2/9/2006
Isopropylbenzene	ND	1.0	µg/L	1	2/9/2006
4-Isopropyltoluene	1.1	1.0	µg/L	1	2/9/2006
4-Methyl-2-pentanone	ND	10	µg/L	1	2/9/2006
Methylene Chloride	ND	3.0	µg/L	1	2/9/2006
n-Butylbenzene	ND	1.0	µg/L	1	2/9/2006
n-Propylbenzene	ND	1.0	µg/L	1	2/9/2006
sec-Butylbenzene	ND	1.0	µg/L	1	2/9/2006
Styrene	ND	1.0	µg/L	1	2/9/2006
tert-Butylbenzene	ND	1.0	µg/L	1	2/9/2006
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1	2/9/2006
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1	2/9/2006
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	2/9/2006
trans-1,2-DCE	ND	1.0	µg/L	1	2/9/2006
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	2/9/2006
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	2/9/2006
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	2/9/2006
1,1,1-Trichloroethane	ND	1.0	µg/L	1	2/9/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit



Hall Environmental Analysis Laboratory

Date: 17-Feb-06

CLIENT: Giant Refining Co
Project: NMED Monthly Water Samples 1/31/2006

Lab Order: 0602041

EPA METHOD 8260B: VOLATILES

Analyst: KTM

1,1,2-Trichloroethane	ND	1.0	µg/L	1	2/9/2006
Trichloroethene (TCE)	ND	1.0	µg/L	1	2/9/2006
Trichlorofluoromethane	ND	1.0	µg/L	1	2/9/2006
1,2,3-Trichloropropane	ND	2.0	µg/L	1	2/9/2006
Vinyl chloride	ND	1.0	µg/L	1	2/9/2006
Xylenes, Total	ND	1.0	µg/L	1	2/9/2006
Surr: 1,2-Dichloroethane-d4	95.0	69.9-130	%REC	1	2/9/2006
Surr: 4-Bromofluorobenzene	107	71.2-123	%REC	1	2/9/2006
Surr: Dibromofluoromethane	99.6	57.3-135	%REC	1	2/9/2006
Surr: Toluene-d8	97.3	81.9-122	%REC	1	2/9/2006



Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

CLIENT: Giant Refining Co

Work Order: 0602041

Project: NMED Monthly Water Samples 1/31/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DRO_W

Sample ID: MB-9709	SampType: MBLK	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 2/6/2006	RunNo: 18170						
Client ID: ZZZZZ	Batch ID: 9709	TestNo: SW8015		Analysis Date: 2/7/2006	SeqNo: 447883						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: LCS-9709	SampType: LCS	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 2/6/2006	RunNo: 18170						
Client ID: ZZZZ	Batch ID: 9709	TestNo: SW8015		Analysis Date: 2/7/2006	SeqNo: 447884						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.945	1.0	5	0	119	81.2	149				

Sample ID: LCSD-9709	SampType: LCSD	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 2/6/2006	RunNo: 18170						
Client ID: ZZZZ	Batch ID: 9709	TestNo: SW8015		Analysis Date: 2/7/2006	SeqNo: 447885						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.781	1.0	5	0	116	81.2	149	5.945	2.80		23

13
2
3

Qualifiers: 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 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT:

Giant Refining Co

Work Order:

0602041

Project:

NMED Monthly Water Samples 1/31/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GRO_W

Sample ID: 5ML RB	SampType: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18169						
Client ID: ZZZZZ	Batch ID: R18169	TestNo: SW8015		Analysis Date: 2/6/2006	SeqNo: 447863						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)											
	ND		0.050								

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18169						
Client ID: ZZZZZ	Batch ID: R18169	TestNo: SW8015		Analysis Date: 2/6/2006	SeqNo: 447864						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4920	0.050	0.5	0	98.4	82.6	114				

Sample ID: 2.5UG GRO LCSD	SampType: LCSD	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18169						
Client ID: ZZZZZ	Batch ID: R18169	TestNo: SW8015		Analysis Date: 2/7/2006	SeqNo: 447865						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4860	0.050	0.5	0	97.2	82.6	114	0.492	1.23	8.39	

14/23

Qualifiers:

E Value above quantitation range

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co

Work Order: 0602041

Project: NMED Monthly Water Samples 1/31/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: MB-9712	SampType: MBLK	TestCode: 8310_W	Units: µg/L	Prep Date: 2/6/2006	RunNo: 18291						
Client ID: ZZZZ	Batch ID: 9712	TestNo: SW8310	(SW3510C)	Analysis Date: 2/13/2006	SeqNo: 450970						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	2.5									
1-Methylnaphthalene	ND	2.5									
2-Methylnaphthalene	ND	2.5									
Acenaphthylene	ND	2.5									
Acenaphthene	ND	2.5									
Fluorene	ND	0.80									
Phenanthrene	ND	0.60									
Anthracene	ND	0.60									
Fluoranthene	ND	0.30									
Pyrene	ND	0.30									
Benz(a)anthracene	ND	0.020									
Chrysene	ND	0.20									
Benzo(b)fluoranthene	ND	0.050									
Benzo(k)fluoranthene	ND	0.020									
Benzo(a)pyrene	ND	0.020									
Dibenz(a,h)anthracene	ND	0.040									
Benzo(g,h,i)perylene	ND	0.030									
Indeno(1,2,3-cd)pyrene	ND	0.080									

Sample ID: LCS-9712	SampType: LCS	TestCode: 8310_W	Units: µg/L	Prep Date: 2/6/2006	RunNo: 18291						
Client ID: ZZZZ	Batch ID: 9712	TestNo: SW8310	(SW3510C)	Analysis Date: 2/13/2006	SeqNo: 450973						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	23.55	2.5	40	0	58.9	34.8	97.4				
1-Methylnaphthalene	23.19	2.5	40.1	0	57.8	34.7	100				
2-Methylnaphthalene	22.54	2.5	40	0	56.4	35	98.1				
Acenaphthylene	25.07	2.5	40.1	0	62.5	48.3	95.1				
Acenaphthene	24.30	2.5	40	0	60.8	45	95				
Fluorene	2.460	0.80	4.01	0	61.3	46.8	93.4				
Phenanthrene	1.290	0.60	2.01	0	64.2	48.7	104				

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting LimitH Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limitsJ Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
 Work Order: 0602041
 Project: NMED Monthly Water Samples 1/31/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8310_W

Sample ID: LCS-9712	SampType: LCS	TestCode: 8310_W	Units: µg/L	Prep Date: 2/6/2006	RunNo: 18291						
Client ID: ZZZZZ	Batch ID: 9712	TestNo: SW8310	(SW3510C)	Analysis Date: 2/13/2006	SeqNo: 450973						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	1.330	0.60	2.01	0	66.2	47.5	102				
Fluoranthene	2.730	0.30	4.01	0	68.1	46.3	108				
Pyrene	2.700	0.30	4.01	0	67.3	43.8	109				
Benz(a)anthracene	0.2800	0.020	0.401	0	69.8	40.3	115				
Chrysene	1.350	0.20	2.01	0	67.2	42.6	107				
Benzo(b)fluoranthene	0.3300	0.050	0.501	0	65.9	48.6	107				
Benzo(k)fluoranthene	0.1700	0.020	0.25	0	68.0	23.3	136				
Benzo(a)pyrene	0.1800	0.020	0.251	0	71.7	33.4	117				
Dibenz(a,h)anthracene	0.3300	0.040	0.501	0	65.9	27.3	139				
Benzo(g,h,i)perylene	0.3600	0.030	0.5	0	72.0	38.2	117				
Indeno(1,2,3-cd)pyrene	0.7650	0.080	1.002	0	76.3	39.9	125				

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co

Work Order: 0602041

Project: NMED Monthly Water Samples 1/31/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTW

Sample ID: MB-9774	SampType: MBLK	TestCode: HG_CTW	Units: mg/L	Prep Date: 2/15/2006	RunNo: 18273						
Client ID: ZZZZZ	Batch ID: 9774	TestNo: SW7470	(SW7470)	Analysis Date: 2/15/2006	SeqNo: 450494						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.00020									

Sample ID: LCS-9774	SampType: LCS	TestCode: HG_CTW	Units: mg/L	Prep Date: 2/15/2006	RunNo: 18273						
Client ID: ZZZZZ	Batch ID: 9774	TestNo: SW7470	(SW7470)	Analysis Date: 2/15/2006	SeqNo: 450495						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004592	0.00020	0.005	0	91.8	80	120				

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0602041
Project: NMED Monthly Water Samples 1/31/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS_TOTAL

Sample ID: MB-9729	SampType: MBLK	TestCode: METALS_TO	Units: mg/L	Prep Date: 2/8/2006	RunNo: 18204						
Client ID: ZZZZZ	Batch ID: 9729	TestNo: SW6010A		Analysis Date: 2/9/2006	SeqNo: 448810						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.020									
Barium	ND	0.020									
Cadmium	ND	0.0020									
Chromium	ND	0.0060									
Lead	ND	0.0050									
Selenium	ND	0.050									
Silver	ND	0.0050									

Sample ID: LCS-9729	SampType: LCS	TestCode: METALS_TO	Units: mg/L	Prep Date: 2/8/2006	RunNo: 18204						
Client ID: ZZZZZ	Batch ID: 9729	TestNo: SW6010A		Analysis Date: 2/9/2006	SeqNo: 448811						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.5173	0.020	0.5	0	103	80	120				
Barium	0.4809	0.020	0.5	0.0004845	96.1	80	120				
Cadmium	0.4939	0.0020	0.5	0	98.8	80	120				
Chromium	0.4842	0.0060	0.5	0	96.8	80	120				
Lead	0.4799	0.0050	0.5	0	96.0	80	120				
Selenium	0.4987	0.050	0.5	0	99.7	80	120				
Silver	0.5003	0.0050	0.5	0	100	80	120				

Sample ID: LCSD-9729	SampType: LCSD	TestCode: METALS_TO	Units: mg/L	Prep Date: 2/8/2006	RunNo: 18204						
Client ID: ZZZZZ	Batch ID: 9729	TestNo: SW6010A		Analysis Date: 2/9/2006	SeqNo: 448812						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.5084	0.020	0.5	0	102	80	120	0.5173	1.73	20	
Barium	0.4860	0.020	0.5	0.0004845	97.1	80	120	0.4809	1.06	20	
Cadmium	0.4907	0.0020	0.5	0	98.1	80	120	0.4939	0.644	20	
Chromium	0.4889	0.0060	0.5	0	97.8	80	120	0.4842	0.986	20	
Lead	0.4790	0.0050	0.5	0	95.8	80	120	0.4799	0.178	20	
Selenium	0.4941	0.050	0.5	0	98.8	80	120	0.4987	0.928	20	

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

CLIENT:

Giant Refining Co

Work Order:

0602041

Project:

NMED Monthly Water Samples 1/31/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS_TOTAL

Sample ID: LCSD-9729	SampType: LCSD	TestCode: METALS_TO	Units: mg/L	Prep Date: 2/8/2006	RunNo: 18204						
Client ID: ZZZZZ	Batch ID: 9729	TestNo: SW6010A		Analysis Date: 2/9/2006	SeqNo: 448812						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.5066	0.0050	0.5	0	101	80	120	0.5003	1.26	20	

Qualifiers:

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

Hall Environmental Analysis Laboratory

Date: 17-Feb-06

CLIENT: Giant Refining Co

Work Order: 0602041

Project: NMED Monthly Water Samples 1/31/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5mL rb-b	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18209						
Client ID: ZZZZZ	Batch ID: R18209	TestNo: SW8260B		Analysis Date: 2/9/2006	SeqNo: 448981						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Methyl tert-butyl ether (MTBE)	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,2-Dichloroethane (EDC)	ND	1.0									
1,2-Dibromoethane (EDB)	ND	1.0									
Naphthalene	ND	2.0									
1-Methylnaphthalene	ND	4.0									
2-Methylnaphthalene	ND	4.0									
Acetone	ND	10									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	2.0									
2-Butanone	ND	10									
Carbon disulfide	ND	10									
Carbon Tetrachloride	ND	2.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	2.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
cis-1,2-DCE	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									

Qualifiers: E Value above quantitation range

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0602041
Project: NMED Monthly Water Samples 1/31/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5mL rb-b	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18209						
Client ID: ZZZZZ	Batch ID: R18209	TestNo: SW8260B		Analysis Date: 2/9/2006	SeqNo: 448981						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dibromochloromethane	ND	1.0									
Dibromomethane	ND	2.0									
1,2-Dichlorobenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
1,1-Dichloroethane	ND	2.0									
1,1-Dichloroethene	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3-Dichloropropane	ND	1.0									
2,2-Dichloropropane	ND	2.0									
1,1-Dichloropropene	ND	1.0									
Hexachlorobutadiene	ND	2.0									
2-Hexanone	ND	10									
Isopropylbenzene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Methylene Chloride	ND	3.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
tert-Butylbenzene	ND	1.0									
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
Tetrachloroethene (PCE)	ND	1.0									
trans-1,2-DCE	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
Work Order: 0602041
Project: NMED Monthly Water Samples 1/31/2006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 5mL rb-b	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18209						
Client ID: ZZZZZ	Batch ID: R18209	TestNo: SW8260B		Analysis Date: 2/9/2006	SeqNo: 448981						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,2-Trichloroethane	ND	1.0									
Trichloroethene (TCE)	ND	1.0									
Trichlorofluoromethane	ND	1.0									
1,2,3-Trichloropropane	ND	2.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	1.0									

Sample ID: 100ng lcs	SampType: LCS	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18209						
Client ID: ZZZZZ	Batch ID: R18209	TestNo: SW8260B		Analysis Date: 2/9/2006	SeqNo: 448982						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	22.54	1.0	20	0	113	79.3	136				
Toluene	20.83	1.0	20	0	104	65.5	123				
Chlorobenzene	21.50	1.0	20	0	108	80.3	134				
1,1-Dichloroethene	22.89	1.0	20	0	114	65.5	134				
Trichloroethene (TCE)	21.51	1.0	20	0	108	85.6	119				

Sample ID: 100ng lcsd	SampType: LCSD	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18209						
Client ID: ZZZZZ	Batch ID: R18209	TestNo: SW8260B		Analysis Date: 2/9/2006	SeqNo: 448983						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	21.29	1.0	20	0	106	81.4	130	22.54	5.68	11	
Toluene	21.23	1.0	20	0	106	65.5	123	20.83	1.89	12.2	
Chlorobenzene	21.02	1.0	20	0	105	80.3	134	21.5	2.26	12	
1,1-Dichloroethene	21.18	1.0	20	0	106	65.5	134	22.89	7.76	19.3	
Trichloroethene (TCE)	20.76	1.0	20	0	104	75.8	110	21.51	3.57	15.5	

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

2/3/2006

Work Order Number 0602041

Received by

LMM

Checklist completed by

Lisa M. Harkins
Signature

2/3/06
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 - pH acceptable upon receipt?	Yes ☒	No ☐	N/A ☐	
Container/Temp Blank temperature?	3°	4° C ± 2 Acceptable If given sufficient time to cool.		

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Project #:

Project Manager:

Project Manager: 

Sampler: John J. Smith

Sample Temperature: 30

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)

Remarks: Rush

COVER LETTER

Tuesday, May 09, 2006

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

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

RE: NMED-OCD Monthly Water Samples 4/28

Order No.: 0605009

Dear Steve Morris:

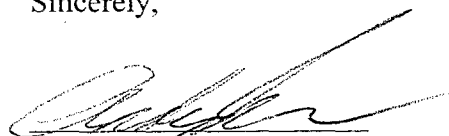
Hall Environmental Analysis Laboratory received 3 sample(s) on 5/2/2006 for the analyses presented in the following report.

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: 09-May-06

CLIENT: Giant Refining Co
Project: NMED-OCD Monthly Water Samples 4/28/06

Lab Order: 0605009

Lab ID: 0605009-01

Collection Date: 4/28/2006 1:30:00 PM

Client Sample ID: Pilot TC Eff.

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

EPA METHOD 8015B: DIESEL RANGE

Analyst: SCC

Diesel Range Organics (DRO)	18	3.0		mg/L	1	5/4/2006 4:07:47 PM
Motor Oil Range Organics (MRO)	ND	15		mg/L	1	5/4/2006 4:07:47 PM
Surr: DNOP	140	58-140		%REC	1	5/4/2006 4:07:47 PM

EPA METHOD 8015B: GASOLINE RANGE

Analyst: HLM

Gasoline Range Organics (GRO)	0.084	0.050		mg/L	1	5/2/2006 11:55:21 AM
Surr: BFB	97.6	80-123		%REC	1	5/2/2006 11:55:21 AM

EPA METHOD 7470: MERCURY

Analyst: CMC

Mercury	ND	0.00020		mg/L	1	5/5/2006
---------	----	---------	--	------	---	----------

EPA 6010: TOTAL RECOVERABLE METALS

Analyst: NMO

Arsenic	ND	0.020		mg/L	1	5/4/2006 12:10:37 PM
Barium	ND	0.020		mg/L	1	5/4/2006 12:10:37 PM
Cadmium	ND	0.0020		mg/L	1	5/4/2006 12:10:37 PM
Chromium	ND	0.0060		mg/L	1	5/4/2006 12:10:37 PM
Lead	ND	0.0050		mg/L	1	5/4/2006 12:10:37 PM
Selenium	ND	0.050		mg/L	1	5/4/2006 12:10:37 PM
Silver	ND	0.0050		mg/L	1	5/4/2006 12:10:37 PM

EPA METHOD 8260B: VOLATILES

Analyst: BDH

Benzene	ND	1.0		µg/L	1	5/2/2006
Toluene	4.1	1.0		µg/L	1	5/2/2006
Ethylbenzene	ND	1.0		µg/L	1	5/2/2006
Methyl tert-butyl ether (MTBE)	ND	1.5		µg/L	1	5/2/2006
1,2,4-Trimethylbenzene	4.0	1.0		µg/L	1	5/2/2006
1,3,5-Trimethylbenzene	1.2	1.0		µg/L	1	5/2/2006
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/2/2006
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/2/2006
Naphthalene	ND	2.0		µg/L	1	5/2/2006
1-Methylnaphthalene	ND	4.0		µg/L	1	5/2/2006
2-Methylnaphthalene	ND	4.0		µg/L	1	5/2/2006
Acetone	ND	10		µg/L	1	5/2/2006
Bromobenzene	ND	1.0		µg/L	1	5/2/2006
Bromochloromethane	ND	1.0		µg/L	1	5/2/2006
Bromodichloromethane	ND	1.0		µg/L	1	5/2/2006
Bromoform	ND	1.0		µg/L	1	5/2/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit



Hall Environmental Analysis Laboratory

Date: 09-May-06

CLIENT: Giant Refining Co
Project: NMED-OCD Monthly Water Samples 4/28/06

Lab Order: 0605009

EPA METHOD 8260B: VOLATILES

Analyst: BDH

Bromomethane	ND	2.0	µg/L	1	5/2/2006
2-Butanone	ND	10	µg/L	1	5/2/2006
Carbon disulfide	ND	10	µg/L	1	5/2/2006
Carbon Tetrachloride	ND	2.0	µg/L	1	5/2/2006
Chlorobenzene	ND	1.0	µg/L	1	5/2/2006
Chloroethane	ND	2.0	µg/L	1	5/2/2006
Chloroform	ND	1.0	µg/L	1	5/2/2006
Chloromethane	ND	1.0	µg/L	1	5/2/2006
2-Chlorotoluene	ND	1.0	µg/L	1	5/2/2006
4-Chlorotoluene	ND	1.0	µg/L	1	5/2/2006
cis-1,2-DCE	ND	1.0	µg/L	1	5/2/2006
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	5/2/2006
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	5/2/2006
Dibromochloromethane	ND	1.0	µg/L	1	5/2/2006
Dibromomethane	ND	2.0	µg/L	1	5/2/2006
1,2-Dichlorobenzene	ND	1.0	µg/L	1	5/2/2006
1,3-Dichlorobenzene	ND	1.0	µg/L	1	5/2/2006
1,4-Dichlorobenzene	1.7	1.0	µg/L	1	5/2/2006
Dichlorodifluoromethane	ND	1.0	µg/L	1	5/2/2006
1,1-Dichloroethane	ND	2.0	µg/L	1	5/2/2006
1,1-Dichloroethene	ND	1.0	µg/L	1	5/2/2006
1,2-Dichloropropane	ND	1.0	µg/L	1	5/2/2006
1,3-Dichloropropane	ND	1.0	µg/L	1	5/2/2006
2,2-Dichloropropane	ND	2.0	µg/L	1	5/2/2006
1,1-Dichloropropene	ND	1.0	µg/L	1	5/2/2006
Hexachlorobutadiene	ND	2.0	µg/L	1	5/2/2006
2-Hexanone	ND	10	µg/L	1	5/2/2006
Isopropylbenzene	ND	1.0	µg/L	1	5/2/2006
4-Isopropyltoluene	3.1	1.0	µg/L	1	5/2/2006
4-Methyl-2-pentanone	ND	10	µg/L	1	5/2/2006
Methylene Chloride	ND	3.0	µg/L	1	5/2/2006
n-Butylbenzene	ND	1.0	µg/L	1	5/2/2006
n-Propylbenzene	ND	1.0	µg/L	1	5/2/2006
sec-Butylbenzene	ND	2.0	µg/L	1	5/2/2006
Styrene	ND	1.5	µg/L	1	5/2/2006
tert-Butylbenzene	ND	1.0	µg/L	1	5/2/2006
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1	5/2/2006
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1	5/2/2006
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	5/2/2006
trans-1,2-DCE	ND	1.0	µg/L	1	5/2/2006
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	5/2/2006
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	5/2/2006
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	5/2/2006
1,1,1-Trichloroethane	ND	1.0	µg/L	1	5/2/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 09-May-06

CLIENT: Giant Refining Co

Lab Order: 0605009

Project: NMED-OCD Monthly Water Samples 4/28/06

EPA METHOD 8260B: VOLATILES

Analyst: BDH

1,1,2-Trichloroethane	ND	1.0	µg/L	1	5/2/2006
Trichloroethene (TCE)	ND	1.0	µg/L	1	5/2/2006
Trichlorofluoromethane	ND	1.0	µg/L	1	5/2/2006
1,2,3-Trichloropropane	ND	2.0	µg/L	1	5/2/2006
Vinyl chloride	ND	1.0	µg/L	1	5/2/2006
Xylenes, Total	ND	3.0	µg/L	1	5/2/2006
Surr: 1,2-Dichloroethane-d4	99.4	69.9-130	%REC	1	5/2/2006
Surr: 4-Bromofluorobenzene	99.2	75-139	%REC	1	5/2/2006
Surr: Dibromofluoromethane	91.7	57.3-135	%REC	1	5/2/2006
Surr: Toluene-d8	90.3	81.9-122	%REC	1	5/2/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 09-May-06

CLIENT: Giant Refining Co
Project: NMED-OCD Monthly Water Samples 4/28/06

Lab Order: 0605009

Lab ID: 0605009-02

Collection Date: 4/28/2006 1:15:00 PM

Client Sample ID: NAPIS Eff.

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

EPA METHOD 8015B: DIESEL RANGE

Analyst: SCC

Diesel Range Organics (DRO)	83	3.0		mg/L	1	5/4/2006 4:41:08 PM
Motor Oil Range Organics (MRO)	ND	15		mg/L	1	5/4/2006 4:41:08 PM
Surr: DNOP	135	58-140		%REC	1	5/4/2006 4:41:08 PM

EPA METHOD 8015B: GASOLINE RANGE

Analyst: HLM

Gasoline Range Organics (GRO)	22	2.5		mg/L	50	5/2/2006 12:27:04 PM
Surr: BFB	89.6	80-123		%REC	50	5/2/2006 12:27:04 PM

EPA METHOD 8260B: VOLATILES

Analyst: BDH

Benzene	6100	100		µg/L	100	5/2/2006
Toluene	8800	250		µg/L	250	5/2/2006
Ethylbenzene	910	100		µg/L	100	5/2/2006
Methyl tert-butyl ether (MTBE)	ND	150		µg/L	100	5/2/2006
1,2,4-Trimethylbenzene	900	100		µg/L	100	5/2/2006
1,3,5-Trimethylbenzene	230	100		µg/L	100	5/2/2006
1,2-Dichloroethane (EDC)	ND	100		µg/L	100	5/2/2006
1,2-Dibromoethane (EDB)	ND	100		µg/L	100	5/2/2006
Naphthalene	580	200		µg/L	100	5/2/2006
1-Methylnaphthalene	ND	400		µg/L	100	5/2/2006
2-Methylnaphthalene	ND	400		µg/L	100	5/2/2006
Acetone	18000	1000		µg/L	100	5/2/2006
Bromobenzene	ND	100		µg/L	100	5/2/2006
Bromochloromethane	ND	100		µg/L	100	5/2/2006
Bromodichloromethane	ND	100		µg/L	100	5/2/2006
Bromoform	ND	100		µg/L	100	5/2/2006
Bromomethane	ND	200		µg/L	100	5/2/2006
2-Butanone	4000	1000		µg/L	100	5/2/2006
Carbon disulfide	ND	1000		µg/L	100	5/2/2006
Carbon Tetrachloride	ND	200		µg/L	100	5/2/2006
Chlorobenzene	ND	100		µg/L	100	5/2/2006
Chloroethane	ND	200		µg/L	100	5/2/2006
Chloroform	ND	100		µg/L	100	5/2/2006
Chloromethane	ND	100		µg/L	100	5/2/2006
2-Chlorotoluene	ND	100		µg/L	100	5/2/2006
4-Chlorotoluene	ND	100		µg/L	100	5/2/2006
cis-1,2-DCE	ND	100		µg/L	100	5/2/2006
cis-1,3-Dichloropropene	ND	100		µg/L	100	5/2/2006
1,2-Dibromo-3-chloropropane	ND	200		µg/L	100	5/2/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 09-May-06

CLIENT: Giant Refining Co
Project: NMED-OCD Monthly Water Samples 4/28/06

Lab Order: 0605009

EPA METHOD 8260B: VOLATILES

Analyst: BDH

Dibromochloromethane	ND	100	µg/L	100	5/2/2006
Dibromomethane	ND	200	µg/L	100	5/2/2006
1,2-Dichlorobenzene	ND	100	µg/L	100	5/2/2006
1,3-Dichlorobenzene	ND	100	µg/L	100	5/2/2006
1,4-Dichlorobenzene	ND	100	µg/L	100	5/2/2006
Dichlorodifluoromethane	ND	100	µg/L	100	5/2/2006
1,1-Dichloroethane	ND	200	µg/L	100	5/2/2006
1,1-Dichloroethene	ND	100	µg/L	100	5/2/2006
1,2-Dichloropropane	ND	100	µg/L	100	5/2/2006
1,3-Dichloropropane	ND	100	µg/L	100	5/2/2006
2,2-Dichloropropane	ND	200	µg/L	100	5/2/2006
1,1-Dichloropropene	ND	100	µg/L	100	5/2/2006
Hexachlorobutadiene	ND	200	µg/L	100	5/2/2006
2-Hexanone	ND	1000	µg/L	100	5/2/2006
Isopropylbenzene	ND	100	µg/L	100	5/2/2006
4-Isopropyltoluene	ND	100	µg/L	100	5/2/2006
4-Methyl-2-pentanone	ND	1000	µg/L	100	5/2/2006
Methylene Chloride	ND	300	µg/L	100	5/2/2006
n-Butylbenzene	ND	100	µg/L	100	5/2/2006
n-Propylbenzene	130	100	µg/L	100	5/2/2006
sec-Butylbenzene	ND	200	µg/L	100	5/2/2006
Styrene	ND	150	µg/L	100	5/2/2006
tert-Butylbenzene	ND	100	µg/L	100	5/2/2006
1,1,1,2-Tetrachloroethane	ND	100	µg/L	100	5/2/2006
1,1,2,2-Tetrachloroethane	ND	100	µg/L	100	5/2/2006
Tetrachloroethene (PCE)	ND	100	µg/L	100	5/2/2006
trans-1,2-DCE	ND	100	µg/L	100	5/2/2006
trans-1,3-Dichloropropene	ND	100	µg/L	100	5/2/2006
1,2,3-Trichlorobenzene	ND	100	µg/L	100	5/2/2006
1,2,4-Trichlorobenzene	ND	100	µg/L	100	5/2/2006
1,1,1-Trichloroethane	ND	100	µg/L	100	5/2/2006
1,1,2-Trichloroethane	ND	100	µg/L	100	5/2/2006
Trichloroethene (TCE)	ND	100	µg/L	100	5/2/2006
Trichlorofluoromethane	ND	100	µg/L	100	5/2/2006
1,2,3-Trichloropropane	ND	200	µg/L	100	5/2/2006
Vinyl chloride	ND	100	µg/L	100	5/2/2006
Xylenes, Total	6100	300	µg/L	100	5/2/2006
Surr: 1,2-Dichloroethane-d4	94.4	69.9-130	%REC	100	5/2/2006
Surr: 4-Bromofluorobenzene	102	75-139	%REC	100	5/2/2006
Surr: Dibromofluoromethane	93.7	57.3-135	%REC	100	5/2/2006
Surr: Toluene-d8	89.3	81.9-122	%REC	100	5/2/2006

Qualifiers:	*	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: 09-May-06

CLIENT: Giant Refining Co
Project: NMED-OCD Monthly Water Samples 4/28/06

Lab Order: 0605009

Lab ID: 0605009-03 Collection Date: 4/28/2006 1:05:00 PM
Client Sample ID: AL-2 to EP-1 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

EPA METHOD 8015B: DIESEL RANGE

Analyst: SCC

Diesel Range Organics (DRO)	42	3.0		mg/L	1	5/4/2006 5:14:10 PM
Motor Oil Range Organics (MRO)	ND	15		mg/L	1	5/4/2006 5:14:10 PM
Surr: DNOP	132	58-140		%REC	1	5/4/2006 5:14:10 PM

EPA METHOD 8015B: GASOLINE RANGE

Analyst: HLM

Gasoline Range Organics (GRO)	1.1	0.25		mg/L	5	5/2/2006 12:58:47 PM
Surr: BFB	110	80-123		%REC	5	5/2/2006 12:58:47 PM

EPA METHOD 7470: MERCURY

Analyst: CMC

Mercury	0.0071	0.00020		mg/L	1	5/5/2006
---------	--------	---------	--	------	---	----------

EPA 6010: TOTAL RECOVERABLE METALS

Analyst: NMO

Arsenic	ND	0.020		mg/L	1	5/4/2006 12:21:48 PM
Barium	0.11	0.020		mg/L	1	5/4/2006 12:21:48 PM
Cadmium	ND	0.0020		mg/L	1	5/4/2006 12:21:48 PM
Chromium	0.0068	0.0060		mg/L	1	5/4/2006 12:21:48 PM
Lead	0.0080	0.0050		mg/L	1	5/4/2006 12:21:48 PM
Selenium	ND	0.050		mg/L	1	5/4/2006 12:21:48 PM
Silver	ND	0.0050		mg/L	1	5/4/2006 12:21:48 PM

EPA METHOD 8260B: VOLATILES

Analyst: BDH

Benzene	9.3	1.0		µg/L	1	5/2/2006
Toluene	24	1.0		µg/L	1	5/2/2006
Ethylbenzene	4.7	1.0		µg/L	1	5/2/2006
Methyl tert-butyl ether (MTBE)	ND	1.5		µg/L	1	5/2/2006
1,2,4-Trimethylbenzene	24	1.0		µg/L	1	5/2/2006
1,3,5-Trimethylbenzene	6.7	1.0		µg/L	1	5/2/2006
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/2/2006
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/2/2006
Naphthalene	7.8	2.0		µg/L	1	5/2/2006
1-Methylnaphthalene	390	40		µg/L	10	5/4/2006
2-Methylnaphthalene	180	40		µg/L	10	5/4/2006
Acetone	ND	10		µg/L	1	5/2/2006
Bromobenzene	ND	1.0		µg/L	1	5/2/2006
Bromochloromethane	ND	1.0		µg/L	1	5/2/2006
Bromodichloromethane	ND	1.0		µg/L	1	5/2/2006
Bromoform	ND	1.0		µg/L	1	5/2/2006

Qualifiers: * 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: 09-May-06

CLIENT: Giant Refining Co
Project: NMED-OCD Monthly Water Samples 4/28/06

Lab Order: 0605009

EPA METHOD 8260B: VOLATILES

Analyst: BDH

Bromomethane	ND	2.0	µg/L	1	5/2/2006
2-Butanone	ND	10	µg/L	1	5/2/2006
Carbon disulfide	ND	10	µg/L	1	5/2/2006
Carbon Tetrachloride	ND	2.0	µg/L	1	5/2/2006
Chlorobenzene	ND	1.0	µg/L	1	5/2/2006
Chloroethane	ND	2.0	µg/L	1	5/2/2006
Chloroform	ND	1.0	µg/L	1	5/2/2006
Chloromethane	ND	1.0	µg/L	1	5/2/2006
2-Chlorotoluene	ND	1.0	µg/L	1	5/2/2006
4-Chlorotoluene	ND	1.0	µg/L	1	5/2/2006
cis-1,2-DCE	ND	1.0	µg/L	1	5/2/2006
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	5/2/2006
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	5/2/2006
Dibromochloromethane	ND	1.0	µg/L	1	5/2/2006
Dibromomethane	ND	2.0	µg/L	1	5/2/2006
1,2-Dichlorobenzene	ND	1.0	µg/L	1	5/2/2006
1,3-Dichlorobenzene	ND	1.0	µg/L	1	5/2/2006
1,4-Dichlorobenzene	ND	1.0	µg/L	1	5/2/2006
Dichlorodifluoromethane	ND	1.0	µg/L	1	5/2/2006
1,1-Dichloroethane	ND	2.0	µg/L	1	5/2/2006
1,1-Dichloroethene	ND	1.0	µg/L	1	5/2/2006
1,2-Dichloropropane	ND	1.0	µg/L	1	5/2/2006
1,3-Dichloropropane	ND	1.0	µg/L	1	5/2/2006
2,2-Dichloropropane	ND	2.0	µg/L	1	5/2/2006
1,1-Dichloropropene	ND	1.0	µg/L	1	5/2/2006
Hexachlorobutadiene	ND	2.0	µg/L	1	5/2/2006
2-Hexanone	ND	10	µg/L	1	5/2/2006
Isopropylbenzene	ND	1.0	µg/L	1	5/2/2006
4-Isopropyltoluene	1.5	1.0	µg/L	1	5/2/2006
4-Methyl-2-pentanone	ND	10	µg/L	1	5/2/2006
Methylene Chloride	ND	3.0	µg/L	1	5/2/2006
n-Butylbenzene	ND	1.0	µg/L	1	5/2/2006
n-Propylbenzene	ND	1.0	µg/L	1	5/2/2006
sec-Butylbenzene	ND	2.0	µg/L	1	5/2/2006
Styrene	ND	1.5	µg/L	1	5/2/2006
tert-Butylbenzene	ND	1.0	µg/L	1	5/2/2006
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1	5/2/2006
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1	5/2/2006
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	5/2/2006
trans-1,2-DCE	ND	1.0	µg/L	1	5/2/2006
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	5/2/2006
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	5/2/2006
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	5/2/2006
1,1,1-Trichloroethane	ND	1.0	µg/L	1	5/2/2006

Qualifiers:	*	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: 09-May-06

CLIENT: Giant Refining Co
Project: NMED-OCD Monthly Water Samples 4/28/06

Lab Order: 0605009

EPA METHOD 8260B: VOLATILES

Analyst: BDH

1,1,2-Trichloroethane	ND	1.0	µg/L	1	5/2/2006
Trichloroethene (TCE)	ND	1.0	µg/L	1	5/2/2006
Trichlorofluoromethane	ND	1.0	µg/L	1	5/2/2006
1,2,3-Trichloropropane	ND	2.0	µg/L	1	5/2/2006
Vinyl chloride	ND	1.0	µg/L	1	5/2/2006
Xylenes, Total	40	3.0	µg/L	1	5/2/2006
Surr: 1,2-Dichloroethane-d4	94.5	69.9-130	%REC	1	5/2/2006
Surr: 4-Bromofluorobenzene	96.1	75-139	%REC	1	5/2/2006
Surr: Dibromofluoromethane	95.6	57.3-135	%REC	1	5/2/2006
Surr: Toluene-d8	84.7	81.9-122	%REC	1	5/2/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

QA/QC SUMMARY REPORT



Giant Refining Co

Project: NMED-OCD Monthly Water Samples 4/28/06

Work Order: 0605009

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8015									Batch ID: 10314
Sample ID: MB-10314		MBLK							Analysis Date: 5/4/2006
iesel Range Organics (DRO)	ND	mg/L	1.0						
otor Oil Range Organics (MRO)	ND	mg/L	5.0						
Sample ID: LCS-10314		LCS							Analysis Date: 5/4/2006
iesel Range Organics (DRO)	6.106	mg/L	1.0	122	74	157			
Sample ID: LCSD-10314		LCSD							Analysis Date: 5/4/2006
iesel Range Organics (DRO)	5.398	mg/L	1.0	108	74	157	12.3	23	
Method: SW8015									Batch ID: R19125
Sample ID: 5ML REAGENT BLA		MBLK							Analysis Date: 5/2/2006
Gasoline Range Organics (GRO)	ND	mg/L	0.050						
Sample ID: 2.5UG GRO LCS		LCS							Analysis Date: 5/2/2006
Gasoline Range Organics (GRO)	0.5340	mg/L	0.050	107	73.3	119			
Sample ID: 2.5ug gro lcsd 13		LCSD							Analysis Date: 5/2/2006
Gasoline Range Organics (GRO)	0.5000	mg/L	0.050	100	73.3	119	6.58	8.39	
Method: SW7470									Batch ID: 10362
Sample ID: MB-10362		MBLK							Analysis Date: 5/5/2006
Mercury	ND	mg/L	0.00020						
Sample ID: LCS-10362		LCS							Analysis Date: 5/5/2006
Mercury	0.005040	mg/L	0.00020	101	80	120			

Qualifiers:

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
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

QA/QC SUMMARY REPORT



Giant Refining Co

Project: NMED-OCD Monthly Water Samples 4/28/06

Work Order: 0605009

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW6010A									
Sample ID: MB-10315									
		MBLK							
Arsenic	ND	mg/L	0.020						
Barium	ND	mg/L	0.020						
Cadmium	ND	mg/L	0.0020						
Chromium	ND	mg/L	0.0060						
Lead	ND	mg/L	0.0050						
Selenium	ND	mg/L	0.050						
Silver	ND	mg/L	0.0050						
Sample ID: LCS-10315									
		LCS							
Arsenic	0.4965	mg/L	0.020	99.3	80	120			
Barium	0.4816	mg/L	0.020	96.3	80	120			
Cadmium	0.4976	mg/L	0.0020	99.5	80	120			
Chromium	0.4887	mg/L	0.0060	97.6	80	120			
Lead	0.4692	mg/L	0.0050	93.8	80	120			
Selenium	0.4775	mg/L	0.050	95.5	80	120			
Silver	0.4972	mg/L	0.0050	99.4	80	120			
Sample ID: 0605009-03BMS									
		MS							
Arsenic	0.5254	mg/L	0.020	101	75	125			
Barium	0.6030	mg/L	0.020	98.0	75	125			
Cadmium	0.4987	mg/L	0.0020	99.7	75	125			
Chromium	0.4872	mg/L	0.0060	96.1	75	125			
Lead	0.4552	mg/L	0.0050	89.4	75	125			
Selenium	0.4588	mg/L	0.050	91.8	75	125			
Silver	0.5204	mg/L	0.0050	104	75	125			
Sample ID: 0605009-03BMSD									
		MSD							
Arsenic	0.5194	mg/L	0.020	100	75	125	1.16	20	
Barium	0.6045	mg/L	0.020	98.3	75	125	0.245	20	
Cadmium	0.4914	mg/L	0.0020	98.3	75	125	1.49	20	
Chromium	0.4807	mg/L	0.0060	94.8	75	125	1.33	20	
Lead	0.4449	mg/L	0.0050	87.4	75	125	2.28	20	
Selenium	0.4430	mg/L	0.050	88.6	75	125	3.50	20	
Silver	0.5037	mg/L	0.0050	101	75	125	3.26	20	

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

QA/QC SUMMARY REPORT

Client: Giant Refining Co
Project: NMED-OCD Monthly Water Samples 4/28/06

Work Order: 0605009

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8260B									Batch ID: R19124
Sample ID: 100ng lcs		LCS							Analysis Date: 5/1/2006
Benzene	18.22	µg/L	1.0	91.1	71	124			
Toluene	19.59	µg/L	1.0	98.0	81.5	118			
Chlorobenzene	19.42	µg/L	1.0	94.2	81.2	132			
1,1-Dichloroethene	20.79	µg/L	1.0	104	65.5	134			
Trichloroethene (TCE)	18.12	µg/L	1.0	90.6	69.5	119			
Sample ID: 100ng lcs		LCS							Analysis Date: 5/4/2006
Benzene	18.02	µg/L	1.0	90.1	71	124			
Toluene	17.66	µg/L	1.0	88.3	81.5	118			
Chlorobenzene	19.77	µg/L	1.0	98.9	81.2	132			
1,1-Dichloroethene	17.33	µg/L	1.0	86.7	65.5	134			
Trichloroethene (TCE)	17.29	µg/L	1.0	86.5	69.5	119			

Qualifiers:

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
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

Full Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

5/2/2006

Work Order Number 0605009

Received by

GLS

Checklist completed by

Signature

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 ☐	
1 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?

10°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: Sample 0605009-3 One of the five VOAS in the
set was broken in transit. GS 5-2-06
-added 3mL HNO₃ to HEAL-1 & -3 to pH (m)

Corrective Action _____

**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

8270 (Semi-VOA)	8268 (VOA)	8081 Pesticides / PCB's (8082)	Anions (F ⁻ , Cl ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ⁻ , SO ₄ ⁻)	RCRA 8 Metals <i>Total</i>	8310 (PNA or PAH)	EDC (Method 8021)	EDB (Method 504.1)	TPH (Method 418.1)	TPH Method 8015B (Gas/Diesel)	BTX + MTBE + TPH (Gasoline Or	BTX + MTBE + TMB's (8021)
-----------------	------------	--------------------------------	--	-------------------------------	-------------------	-------------------	--------------------	--------------------	-------------------------------	-------------------------------	---------------------------

Remarks:

marks: Rush.
PLEASE SEND 500ML PLASTIC

CHAIN-OF-CUSTODY RECORD					QA/QC Package:		
					Std ☐	Level 4 ☐	Other: _____
Client: Giant Refining Company - Ciniza					Project Name: NMED - OCD		
Address: Route 3 Box 7					Monthly Water Samples 4/28/06		
Gallup, NM 87301					Project #:		
					Project Manager: STEVE MORRIS		
Phone #: 505 722 3833					Sampler: <i>[Signature]</i>		
Fax #: 505 722 0210					Sample temperature: 10°		
Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative HgCl ₂ HNO ₃		HEAL No.
12/8/06	13:30	H ₂ O	Pick TC Eff.				0605009
"	13:15	"	NAPIS Eff.				1
"	13:45	"	AL-2 LEP-1				2
							3
Date: 12-1-06	Time: 0800	Relinquished By: (Signature) <i>[Signature]</i>		Received By: (Signature) <i>[Signature]</i>		S-206	
Date:	Time:	Relinquished By: (Signature)		Received By: (Signature)		25	

COVER LETTER

Wednesday, April 12, 2006

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

RE: NMED Mntly & OCD Qtly Samp 3/30/06

Order No.: 0603345

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/31/2006 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



CLIENT: Giant Refining Co

Project: NMED Mntly & OCD Qtly Samp 3/30/06

Lab Order: 0603345

CASE NARRATIVE

Analytical Comments for METHOD 8260_W, SAMPLE 0603345-01a: Dilution necessary due to sulfur dioxide

Hall Environmental Analysis Laboratory

Date: 12-Apr-06

CLIENT:	Giant Refining Co	Client Sample ID:	Pilot Eff
Lab Order:	0603345	Collection Date:	3/30/2006 9:45:00 AM
Project:	NMED Mntly & OCD Qtly Samp 3/30/06	Date Received:	3/31/2006
Lab ID:	0603345-01	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	22	3.0		mg/L	1	4/4/2006 9:22:58 AM
Motor Oil Range Organics (MRO)	ND	15		mg/L	1	4/4/2006 9:22:58 AM
Surr: DNOP	96.4	58-140		%REC	1	4/4/2006 9:22:58 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.078	0.050		mg/L	1	4/10/2006 2:01:51 PM
Surr: BFB	114	79.7-119		%REC	1	4/10/2006 2:01:51 PM
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	ND	0.00020		mg/L	1	4/5/2006
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	4/11/2006 2:50:18 PM
Barium	0.15	0.020		mg/L	1	4/11/2006 2:50:18 PM
Cadmium	0.0027	0.0020		mg/L	1	4/11/2006 2:50:18 PM
Chromium	0.023	0.0060		mg/L	1	4/11/2006 2:50:18 PM
Lead	0.0081	0.0050		mg/L	1	4/11/2006 2:50:18 PM
Selenium	ND	0.050		mg/L	1	4/11/2006 2:50:18 PM
Silver	0.0061	0.0050		mg/L	1	4/11/2006 6:03:48 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	100		µg/L	2	4/11/2006
Acenaphthylene	ND	100		µg/L	2	4/11/2006
Aniline	ND	200		µg/L	2	4/11/2006
Anthracene	ND	100		µg/L	2	4/11/2006
Azobenzene	ND	100		µg/L	2	4/11/2006
Benz(a)anthracene	ND	150		µg/L	2	4/11/2006
Benzo(a)pyrene	ND	150		µg/L	2	4/11/2006
Benzo(b)fluoranthene	ND	150		µg/L	2	4/11/2006
Benzo(g,h,i)perylene	ND	100		µg/L	2	4/11/2006
Benzo(k)fluoranthene	ND	100		µg/L	2	4/11/2006
Benzoic acid	1300	500		µg/L	2	4/11/2006
Benzyl alcohol	ND	200		µg/L	2	4/11/2006
Bis(2-chloroethoxy)methane	ND	100		µg/L	2	4/11/2006
Bis(2-chloroethyl)ether	ND	150		µg/L	2	4/11/2006
Bis(2-chloroisopropyl)ether	ND	150		µg/L	2	4/11/2006
Bis(2-ethylhexyl)phthalate	ND	150		µg/L	2	4/11/2006
4-Bromophenyl phenyl ether	ND	100		µg/L	2	4/11/2006

Qualifiers:	*	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: 12-Apr-06

CLIENT:	Giant Refining Co	Client Sample ID:	Pilot Eff
Lab Order:	0603345	Collection Date:	3/30/2006 9:45:00 AM
Project:	NMED Mntly & OCD Qily Samp 3/30/06	Date Received:	3/31/2006
Lab ID:	0603345-01	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Butyl benzyl phthalate	ND	150		µg/L	2	4/11/2006
Carbazole	ND	100		µg/L	2	4/11/2006
4-Chloro-3-methylphenol	ND	200		µg/L	2	4/11/2006
4-Chloroaniline	ND	200		µg/L	2	4/11/2006
2-Chloronaphthalene	ND	100		µg/L	2	4/11/2006
2-Chlorophenol	ND	100		µg/L	2	4/11/2006
4-Chlorophenyl phenyl ether	ND	150		µg/L	2	4/11/2006
Chrysene	ND	150		µg/L	2	4/11/2006
Di-n-butyl phthalate	ND	100		µg/L	2	4/11/2006
Di-n-octyl phthalate	ND	150		µg/L	2	4/11/2006
Dibenz(a,h)anthracene	ND	100		µg/L	2	4/11/2006
Dibenzofuran	ND	100		µg/L	2	4/11/2006
1,2-Dichlorobenzene	ND	100		µg/L	2	4/11/2006
1,3-Dichlorobenzene	ND	100		µg/L	2	4/11/2006
1,4-Dichlorobenzene	ND	100		µg/L	2	4/11/2006
3,3'-Dichlorobenzidine	ND	150		µg/L	2	4/11/2006
Diethyl phthalate	ND	100		µg/L	2	4/11/2006
Dimethyl phthalate	ND	100		µg/L	2	4/11/2006
2,4-Dichlorophenol	ND	100		µg/L	2	4/11/2006
2,4-Dimethylphenol	ND	100		µg/L	2	4/11/2006
4,6-Dinitro-2-methylphenol	ND	500		µg/L	2	4/11/2006
2,4-Dinitrophenol	ND	500		µg/L	2	4/11/2006
2,4-Dinitrotoluene	ND	100		µg/L	2	4/11/2006
2,6-Dinitrotoluene	ND	100		µg/L	2	4/11/2006
Fluoranthene	ND	100		µg/L	2	4/11/2006
Fluorene	ND	100		µg/L	2	4/11/2006
Hexachlorobenzene	ND	100		µg/L	2	4/11/2006
Hexachlorobutadiene	ND	100		µg/L	2	4/11/2006
Hexachlorocyclopentadiene	ND	100		µg/L	2	4/11/2006
Hexachloroethane	ND	100		µg/L	2	4/11/2006
Indeno(1,2,3-cd)pyrene	ND	100		µg/L	2	4/11/2006
Isophorone	ND	100		µg/L	2	4/11/2006
2-Methylnaphthalene	ND	100		µg/L	2	4/11/2006
2-Methylphenol	ND	150		µg/L	2	4/11/2006
3+4-Methylphenol	370	200		µg/L	2	4/11/2006
N-Nitrosodi-n-propylamine	ND	100		µg/L	2	4/11/2006
N-Nitrosodimethylamine	ND	100		µg/L	2	4/11/2006
N-Nitrosodiphenylamine	ND	100		µg/L	2	4/11/2006
Naphthalene	ND	100		µg/L	2	4/11/2006
2-Nitroaniline	ND	500		µg/L	2	4/11/2006

Qualifiers:	* 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: 12-Apr-06

CLIENT:	Giant Refining Co	Client Sample ID:	Pilot Eff
Lab Order:	0603345	Collection Date:	3/30/2006 9:45:00 AM
Project:	NMED Mtly & OCD Qtly Samp 3/30/06	Date Received:	3/31/2006
Lab ID:	0603345-01	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
3-Nitroaniline	ND	500		µg/L	2	4/11/2006
4-Nitroaniline	ND	200		µg/L	2	4/11/2006
Nitrobenzene	ND	100		µg/L	2	4/11/2006
2-Nitrophenol	ND	150		µg/L	2	4/11/2006
4-Nitrophenol	ND	500		µg/L	2	4/11/2006
Pentachlorophenol	ND	500		µg/L	2	4/11/2006
Phenanthrene	ND	100		µg/L	2	4/11/2006
Phenol	ND	100		µg/L	2	4/11/2006
Pyrene	ND	150		µg/L	2	4/11/2006
Pyridine	ND	300		µg/L	2	4/11/2006
1,2,4-Trichlorobenzene	ND	100		µg/L	2	4/11/2006
2,4,5-Trichlorophenol	ND	100		µg/L	2	4/11/2006
2,4,6-Trichlorophenol	ND	150		µg/L	2	4/11/2006
Surr: 2,4,6-Tribromophenol	96.5	16.6-150		%REC	2	4/11/2006
Surr: 2-Fluorobiphenyl	67.8	19.6-134		%REC	2	4/11/2006
Surr: 2-Fluorophenol	59.3	9.54-113		%REC	2	4/11/2006
Surr: 4-Terphenyl-d14	61.8	22.7-145		%REC	2	4/11/2006
Surr: Nitrobenzene-d5	65.3	14.6-134		%REC	2	4/11/2006
Surr: Phenol-d5	47.0	10.7-80.3		%REC	2	4/11/2006
EPA METHOD 8260B: VOLATILES						Analyst: HLM
Benzene	ND	10		µg/L	10	4/4/2006
Toluene	10	10		µg/L	10	4/4/2006
Ethylbenzene	ND	10		µg/L	10	4/4/2006
Methyl tert-butyl ether (MTBE)	ND	15		µg/L	10	4/4/2006
1,2,4-Trimethylbenzene	ND	10		µg/L	10	4/4/2006
1,3,5-Trimethylbenzene	ND	10		µg/L	10	4/4/2006
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	4/4/2006
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	4/4/2006
Naphthalene	ND	20		µg/L	10	4/4/2006
1-Methylnaphthalene	ND	40		µg/L	10	4/4/2006
2-Methylnaphthalene	ND	40		µg/L	10	4/4/2006
Acetone	ND	100		µg/L	10	4/4/2006
Bromobenzene	ND	10		µg/L	10	4/4/2006
Bromochloromethane	ND	10		µg/L	10	4/4/2006
Bromodichloromethane	ND	10		µg/L	10	4/4/2006
Bromoform	ND	10		µg/L	10	4/4/2006
Bromomethane	ND	20		µg/L	10	4/4/2006
2-Butanone	ND	100		µg/L	10	4/4/2006
Carbon disulfide	ND	100		µg/L	10	4/4/2006

Qualifiers:	* 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: 12-Apr-06

CLIENT:	Giant Refining Co	Client Sample ID:	Pilot Eff
Lab Order:	0603345	Collection Date:	3/30/2006 9:45:00 AM
Project:	NMED Mntly & OCD Qtly Samp 3/30/06	Date Received:	3/31/2006
Lab ID:	0603345-01	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

EPA METHOD 8260B: VOLATILES

Analyst: HLM

Carbon Tetrachloride	ND	20		µg/L	10	4/4/2006
Chlorobenzene	ND	10		µg/L	10	4/4/2006
Chloroethane	ND	20		µg/L	10	4/4/2006
Chloroform	20	10		µg/L	10	4/4/2006
Chloromethane	ND	10		µg/L	10	4/4/2006
2-Chlorotoluene	ND	10		µg/L	10	4/4/2006
4-Chlorotoluene	ND	10		µg/L	10	4/4/2006
cis-1,2-DCE	ND	10		µg/L	10	4/4/2006
cis-1,3-Dichloropropene	ND	10		µg/L	10	4/4/2006
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	4/4/2006
Dibromochloromethane	ND	10		µg/L	10	4/4/2006
Dibromomethane	ND	20		µg/L	10	4/4/2006
1,2-Dichlorobenzene	ND	10		µg/L	10	4/4/2006
1,3-Dichlorobenzene	ND	10		µg/L	10	4/4/2006
1,4-Dichlorobenzene	ND	10		µg/L	10	4/4/2006
Dichlorodifluoromethane	ND	10		µg/L	10	4/4/2006
1,1-Dichloroethane	ND	20		µg/L	10	4/4/2006
1,1-Dichloroethene	ND	10		µg/L	10	4/4/2006
1,2-Dichloropropane	ND	10		µg/L	10	4/4/2006
1,3-Dichloropropane	ND	10		µg/L	10	4/4/2006
2,2-Dichloropropane	ND	20		µg/L	10	4/4/2006
1,1-Dichloropropene	ND	10		µg/L	10	4/4/2006
Hexachlorobutadiene	ND	20		µg/L	10	4/4/2006
2-Hexanone	ND	100		µg/L	10	4/4/2006
Isopropylbenzene	ND	10		µg/L	10	4/4/2006
4-Isopropyltoluene	ND	10		µg/L	10	4/4/2006
4-Methyl-2-pentanone	ND	100		µg/L	10	4/4/2006
Methylene Chloride	ND	30		µg/L	10	4/4/2006
n-Butylbenzene	ND	10		µg/L	10	4/4/2006
n-Propylbenzene	ND	10		µg/L	10	4/4/2006
sec-Butylbenzene	ND	20		µg/L	10	4/4/2006
Styrene	ND	15		µg/L	10	4/4/2006
tert-Butylbenzene	ND	10		µg/L	10	4/4/2006
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	4/4/2006
1,1,2,2-Tetrachloroethane	ND	10		µg/L	10	4/4/2006
Tetrachloroethene (PCE)	ND	10		µg/L	10	4/4/2006
trans-1,2-DCE	ND	10		µg/L	10	4/4/2006
trans-1,3-Dichloropropene	ND	10		µg/L	10	4/4/2006
1,2,3-Trichlorobenzene	ND	10		µg/L	10	4/4/2006
1,2,4-Trichlorobenzene	ND	10		µg/L	10	4/4/2006

Qualifiers:	*	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: 12-Apr-06

CLIENT:	Giant Refining Co	Client Sample ID:	Pilot Eff
Lab Order:	0603345	Collection Date:	3/30/2006 9:45:00 AM
Project:	NMED Mntly & OCD Qtly Samp 3/30/06	Date Received:	3/31/2006
Lab ID:	0603345-01	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HLM
1,1,1-Trichloroethane	ND	10		µg/L	10	4/4/2006
1,1,2-Trichloroethane	ND	10		µg/L	10	4/4/2006
Trichloroethene (TCE)	ND	10		µg/L	10	4/4/2006
Trichlorofluoromethane	ND	10		µg/L	10	4/4/2006
1,2,3-Trichloropropane	ND	20		µg/L	10	4/4/2006
Vinyl chloride	ND	10		µg/L	10	4/4/2006
Xylenes, Total	ND	30		µg/L	10	4/4/2006
Surr: 1,2-Dichloroethane-d4	101	69.9-130		%REC	10	4/4/2006
Surr: 4-Bromofluorobenzene	90.4	71.2-123		%REC	10	4/4/2006
Surr: Dibromofluoromethane	108	57.3-135		%REC	10	4/4/2006
Surr: Toluene-d8	98.6	81.9-122		%REC	10	4/4/2006

Qualifiers:	* 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: 12-Apr-06

CLIENT: Giant Refining Co
Lab Order: 0603345
Project: NMED Mntly & OCD Qtly Samp 3/30/06
Lab ID: 0603345-02

Client Sample ID: NAPIS Eff
Collection Date: 3/30/2006 10:10:00 AM
Date Received: 3/31/2006
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	520	30		mg/L	10	4/4/2006 11:45:13 AM
Motor Oil Range Organics (MRO)	ND	150		mg/L	10	4/4/2006 11:45:13 AM
Surr: DNOP	118	58-140		%REC	10	4/4/2006 11:45:13 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	64	12		mg/L	250	4/7/2006 1:41:57 PM
Surr: BFB	103	79.7-118		%REC	250	4/7/2006 1:41:57 PM
EPA METHOD 8260B: VOLATILES						Analyst: HLM
Benzene	8600	250		µg/L	250	4/4/2006
Toluene	12000	250		µg/L	250	4/4/2006
Ethylbenzene	790	250		µg/L	250	4/4/2006
Methyl tert-butyl ether (MTBE)	1500	380		µg/L	250	4/4/2006
1,2,4-Trimethylbenzene	1000	250		µg/L	250	4/4/2006
1,3,5-Trimethylbenzene	ND	250		µg/L	250	4/4/2006
1,2-Dichloroethane (EDC)	ND	250		µg/L	250	4/4/2006
1,2-Dibromoethane (EDB)	ND	250		µg/L	250	4/4/2006
Naphthalene	1100	500		µg/L	250	4/4/2006
1-Methylnaphthalene	ND	1000		µg/L	250	4/4/2006
2-Methylnaphthalene	1200	1000		µg/L	250	4/4/2006
Acetone	42000	2500		µg/L	250	4/4/2006
Bromobenzene	ND	250		µg/L	250	4/4/2006
Bromochloromethane	ND	250		µg/L	250	4/4/2006
Bromodichloromethane	ND	250		µg/L	250	4/4/2006
Bromoform	ND	250		µg/L	250	4/4/2006
Bromomethane	ND	500		µg/L	250	4/4/2006
2-Butanone	15000	2500		µg/L	250	4/4/2006
Carbon disulfide	ND	2500		µg/L	250	4/4/2006
Carbon Tetrachloride	ND	500		µg/L	250	4/4/2006
Chlorobenzene	ND	250		µg/L	250	4/4/2006
Chloroethane	ND	500		µg/L	250	4/4/2006
Chloroform	ND	250		µg/L	250	4/4/2006
Chloromethane	ND	250		µg/L	250	4/4/2006
2-Chlorotoluene	ND	250		µg/L	250	4/4/2006
4-Chlorotoluene	ND	250		µg/L	250	4/4/2006
cis-1,2-DCE	ND	250		µg/L	250	4/4/2006
cis-1,3-Dichloropropene	ND	250		µg/L	250	4/4/2006
1,2-Dibromo-3-chloropropane	ND	500		µg/L	250	4/4/2006
Dibromochloromethane	ND	250		µg/L	250	4/4/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory

Date: 12-Apr-06

CLIENT:	Giant Refining Co	Client Sample ID:	NAPIS Eff
Lab Order:	0603345	Collection Date:	3/30/2006 10:10:00 AM
Project:	NMED Mntly & OCD Qtly Samp 3/30/06	Date Received:	3/31/2006
Lab ID:	0603345-02	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HLM
Dibromomethane	ND	500		µg/L	250	4/4/2006
1,2-Dichlorobenzene	ND	250		µg/L	250	4/4/2006
1,3-Dichlorobenzene	ND	250		µg/L	250	4/4/2006
1,4-Dichlorobenzene	ND	250		µg/L	250	4/4/2006
Dichlorodifluoromethane	ND	250		µg/L	250	4/4/2006
1,1-Dichloroethane	ND	500		µg/L	250	4/4/2006
1,1-Dichloroethene	ND	250		µg/L	250	4/4/2006
1,2-Dichloropropane	ND	250		µg/L	250	4/4/2006
1,3-Dichloropropane	ND	250		µg/L	250	4/4/2006
2,2-Dichloropropane	ND	500		µg/L	250	4/4/2006
1,1-Dichloropropene	ND	250		µg/L	250	4/4/2006
Hexachlorobutadiene	ND	500		µg/L	250	4/4/2006
2-Hexanone	ND	2500		µg/L	250	4/4/2006
Isopropylbenzene	ND	250		µg/L	250	4/4/2006
4-Isopropyltoluene	ND	250		µg/L	250	4/4/2006
4-Methyl-2-pentanone	ND	2500		µg/L	250	4/4/2006
Methylene Chloride	ND	750		µg/L	250	4/4/2006
n-Butylbenzene	ND	250		µg/L	250	4/4/2006
n-Propylbenzene	ND	250		µg/L	250	4/4/2006
sec-Butylbenzene	ND	500		µg/L	250	4/4/2006
Styrene	ND	380		µg/L	250	4/4/2006
tert-Butylbenzene	ND	250		µg/L	250	4/4/2006
1,1,1,2-Tetrachloroethane	ND	250		µg/L	250	4/4/2006
1,1,2,2-Tetrachloroethane	ND	250		µg/L	250	4/4/2006
Tetrachloroethene (PCE)	ND	250		µg/L	250	4/4/2006
trans-1,2-DCE	ND	250		µg/L	250	4/4/2006
trans-1,3-Dichloropropene	ND	250		µg/L	250	4/4/2006
1,2,3-Trichlorobenzene	ND	250		µg/L	250	4/4/2006
1,2,4-Trichlorobenzene	ND	250		µg/L	250	4/4/2006
1,1,1-Trichloroethane	ND	250		µg/L	250	4/4/2006
1,1,2-Trichloroethane	ND	250		µg/L	250	4/4/2006
Trichloroethene (TCE)	ND	250		µg/L	250	4/4/2006
Trichlorofluoromethane	ND	250		µg/L	250	4/4/2006
1,2,3-Trichloropropane	ND	500		µg/L	250	4/4/2006
Vinyl chloride	ND	250		µg/L	250	4/4/2006
Xylenes, Total	4700	750		µg/L	250	4/4/2006
Surr: 1,2-Dichloroethane-d4	107	69.9-130		%REC	250	4/4/2006
Surr: 4-Bromofluorobenzene	90.6	71.2-123		%REC	250	4/4/2006
Surr: Dibromofluoromethane	92.4	57.3-135		%REC	250	4/4/2006
Surr: Toluene-d8	102	81.9-122		%REC	250	4/4/2006

Qualifiers:	* 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: 12-Apr-06

CLIENT:	Giant Refining Co	Client Sample ID:	AL-2 to EP-1
Lab Order:	0603345	Collection Date:	3/30/2006 10:30:00 AM
Project:	NMED Mntly & OCD Qtly Samp 3/30/06	Date Received:	3/31/2006
Lab ID:	0603345-03	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	64	3.0		mg/L	1	4/4/2006 10:08:17 AM
Motor Oil Range Organics (MRO)	ND	15		mg/L	1	4/4/2006 10:08:17 AM
Surr: DNOP	90.2	58-140		%REC	1	4/4/2006 10:08:17 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	3.5	2.5		mg/L	50	4/7/2006 2:40:33 PM
Surr: BFB	109	79.7-118		%REC	50	4/7/2006 2:40:33 PM
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	0.0017	0.00020		mg/L	1	4/5/2006
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	4/11/2006 2:53:13 PM
Barium	0.22	0.020		mg/L	1	4/11/2006 2:53:13 PM
Cadmium	ND	0.0020		mg/L	1	4/11/2006 2:53:13 PM
Chromium	0.010	0.0060		mg/L	1	4/11/2006 2:53:13 PM
Lead	0.011	0.0050		mg/L	1	4/11/2006 2:53:13 PM
Selenium	ND	0.050		mg/L	1	4/11/2006 2:53:13 PM
Silver	ND	0.0050		mg/L	1	4/11/2006 6:06:18 PM
EPA METHOD 8260B: VOLATILES						Analyst: HLM
Benzene	210	50		µg/L	50	4/4/2006
Toluene	440	50		µg/L	50	4/4/2006
Ethylbenzene	60	50		µg/L	50	4/4/2006
Methyl tert-butyl ether (MTBE)	ND	75		µg/L	50	4/4/2006
1,2,4-Trimethylbenzene	170	50		µg/L	50	4/4/2006
1,3,5-Trimethylbenzene	ND	50		µg/L	50	4/4/2006
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	4/4/2006
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	4/4/2006
Naphthalene	200	100		µg/L	50	4/4/2006
1-Methylnaphthalene	410	200		µg/L	50	4/4/2006
2-Methylnaphthalene	620	200		µg/L	50	4/4/2006
Acetone	2500	500		µg/L	50	4/4/2006
Bromobenzene	ND	50		µg/L	50	4/4/2006
Bromochloromethane	ND	50		µg/L	50	4/4/2006
Bromodichloromethane	ND	50		µg/L	50	4/4/2006
Bromoform	ND	50		µg/L	50	4/4/2006
Bromomethane	ND	100		µg/L	50	4/4/2006

Qualifiers:	* 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: 12-Apr-06

CLIENT:	Giant Refining Co	Client Sample ID:	AL-2 to EP-1
Lab Order:	0603345	Collection Date:	3/30/2006 10:30:00 AM
Project:	NMED Mntly & OCD Qtly Samp 3/30/06	Date Received:	3/31/2006
Lab ID:	0603345-03	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HLM
2-Butanone	820	500		µg/L	50	4/4/2006
Carbon disulfide	ND	500		µg/L	50	4/4/2006
Carbon Tetrachloride	ND	100		µg/L	50	4/4/2006
Chlorobenzene	ND	50		µg/L	50	4/4/2006
Chloroethane	ND	100		µg/L	50	4/4/2006
Chloroform	ND	50		µg/L	50	4/4/2006
Chloromethane	ND	50		µg/L	50	4/4/2006
2-Chlorotoluene	ND	50		µg/L	50	4/4/2006
4-Chlorotoluene	ND	50		µg/L	50	4/4/2006
cis-1,2-DCE	ND	50		µg/L	50	4/4/2006
cis-1,3-Dichloropropene	ND	50		µg/L	50	4/4/2006
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	4/4/2006
Dibromochloromethane	ND	50		µg/L	50	4/4/2006
Dibromomethane	ND	100		µg/L	50	4/4/2006
1,2-Dichlorobenzene	ND	50		µg/L	50	4/4/2006
1,3-Dichlorobenzene	ND	50		µg/L	50	4/4/2006
1,4-Dichlorobenzene	ND	50		µg/L	50	4/4/2006
Dichlorodifluoromethane	ND	50		µg/L	50	4/4/2006
1,1-Dichloroethane	ND	100		µg/L	50	4/4/2006
1,1-Dichloroethene	ND	50		µg/L	50	4/4/2006
1,2-Dichloropropane	ND	50		µg/L	50	4/4/2006
1,3-Dichloropropane	ND	50		µg/L	50	4/4/2006
2,2-Dichloropropane	ND	100		µg/L	50	4/4/2006
1,1-Dichloropropene	ND	50		µg/L	50	4/4/2006
Hexachlorobutadiene	ND	100		µg/L	50	4/4/2006
2-Hexanone	ND	500		µg/L	50	4/4/2006
Isopropylbenzene	ND	50		µg/L	50	4/4/2006
4-Isopropyltoluene	ND	50		µg/L	50	4/4/2006
4-Methyl-2-pentanone	ND	500		µg/L	50	4/4/2006
Methylene Chloride	ND	150		µg/L	50	4/4/2006
n-Butylbenzene	ND	50		µg/L	50	4/4/2006
n-Propylbenzene	ND	50		µg/L	50	4/4/2006
sec-Butylbenzene	ND	100		µg/L	50	4/4/2006
Styrene	ND	75		µg/L	50	4/4/2006
tert-Butylbenzene	ND	50		µg/L	50	4/4/2006
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	4/4/2006
1,1,2,2-Tetrachloroethane	ND	50		µg/L	50	4/4/2006
Tetrachloroethene (PCE)	ND	50		µg/L	50	4/4/2006
trans-1,2-DCE	ND	50		µg/L	50	4/4/2006
trans-1,3-Dichloropropene	ND	50		µg/L	50	4/4/2006

Qualifiers:	*	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: 12-Apr-06

CLIENT: Giant Refining Co
Lab Order: 0603345
Project: NMED Mntly & OCD Qtly Samp 3/30/06
Lab ID: 0603345-03

Client Sample ID: AL-2 to EP-1
Collection Date: 3/30/2006 10:30:00 AM
Date Received: 3/31/2006
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

EPA METHOD 8260B: VOLATILES

Analyst: HLM

1,2,3-Trichlorobenzene	ND	50		µg/L	50	4/4/2006
1,2,4-Trichlorobenzene	ND	50		µg/L	50	4/4/2006
1,1,1-Trichloroethane	ND	50		µg/L	50	4/4/2006
1,1,2-Trichloroethane	ND	50		µg/L	50	4/4/2006
Trichloroethene (TCE)	ND	50		µg/L	50	4/4/2006
Trichlorofluoromethane	ND	50		µg/L	50	4/4/2006
1,2,3-Trichloropropane	ND	100		µg/L	50	4/4/2006
Vinyl chloride	ND	50		µg/L	50	4/4/2006
Xylenes, Total	430	150		µg/L	50	4/4/2006
Surr: 1,2-Dichloroethane-d4	94.5	69.9-130		%REC	50	4/4/2006
Surr: 4-Bromofluorobenzene	84.4	71.2-123		%REC	50	4/4/2006
Surr: Dibromofluoromethane	105	57.3-135		%REC	50	4/4/2006
Surr: Toluene-d8	96.4	81.9-122		%REC	50	4/4/2006



Qualifiers:	* 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
attn: ANDY FREEMAN
4901 HAWKINS NE, SUITE D
ALBUQUERQUE NM 87109-4372

Explanation of codes	
B	Analyte Detected in Method Blank
E	Result is Estimated
H	Analyzed Out of Hold Time
N	Tentatively Identified Compound
S	Subcontracted
1-9	See Footnote

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).

Client: HALL ENVIRONMENTAL
Project: 0603345
Order: 0603760 HAL03 Receipt: 03-31-06

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Sample: 0603345-01D/PILOT EFF
Matrix: AQUEOUS

Collected: 03-30-06 9:45:00 By:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0603760-0001A			EPA 405.1 Biochemical Oxygen Demand					By: NJL		
BOD06041	WC.2006.856.15	10-26-4	Biochemical Oxygen Demand	886	mg/L	1	2		03-31-06	04-05-06

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

Analytical results are not corrected for method blank or field blank contamination.

Hall Environmental Analysis Laboratory

Date: 12-Apr-06

CLIENT: Giant Refining Co

Work Order: 0603345

Project: NMED Mntly & OCD Qlty Samp 3/30/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DRO_W

Sample ID: MB-10106	SampType: MBLK	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 4/3/2006	RunNo: 18797
Client ID: ZZZZZ	Batch ID: 10106	TestNo: SW8015		Analysis Date: 4/3/2006	SeqNo: 466527
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND	1.0			
Motor Oil Range Organics (MRO)	ND	5.0			

Sample ID: LCS-10106	SampType: LCS	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 4/3/2006	RunNo: 18797
Client ID: ZZZZZ	Batch ID: 10106	TestNo: SW8015		Analysis Date: 4/3/2006	SeqNo: 466528
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Diesel Range Organics (DRO)	6.125	1.0	5	0	123 81.2 149

Sample ID: LCSD-10106	SampType: LCSD	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 4/3/2006	RunNo: 18797
Client ID: ZZZZZ	Batch ID: 10106	TestNo: SW8015		Analysis Date: 4/3/2006	SeqNo: 466578
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Diesel Range Organics (DRO)	5.983	1.0	5	0	120 81.2 149 6.125 2.36 23

13 / 22

Qualifiers:	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	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: Giant Refining Co
 Work Order: 0603345
 Project: NMED Mntly & OCD Qlty Samp 3/30/06

TestCode: 8015GRO_W

Sample ID: 5ML REAGENT BLA	SampType: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18874
Client ID: ZZZZZ	Batch ID: R18874	TestNo: SW8015		Analysis Date: 4/7/2006	SeqNo: 468349
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND	0.050			

Sample ID: 5ML REAGENT BLA	SampType: MBLK	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18885
Client ID: ZZZZZ	Batch ID: R18885	TestNo: SW8015		Analysis Date: 4/10/2006	SeqNo: 468621
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND	0.050			

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18874
Client ID: ZZZZZ	Batch ID: R18874	TestNo: SW8015		Analysis Date: 4/7/2006	SeqNo: 468350
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	0.5440	0.050	0.5	0	109 82.6 114

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18885
Client ID: ZZZZZ	Batch ID: R18885	TestNo: SW8015		Analysis Date: 4/10/2006	SeqNo: 468622
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	0.5300	0.050	0.5	0	106 82.6 114

Sample ID: 2.5UG GRO LCSD	SampType: LCSD	TestCode: 8015GRO_W	Units: mg/L	Prep Date:	RunNo: 18885
Client ID: ZZZZZ	Batch ID: R18885	TestNo: SW8015		Analysis Date: 4/10/2006	SeqNo: 468623
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	0.5200	0.050	0.5	0	104 82.6 114 0.53 1.90 8.39

Qualifiers: 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 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co

Work Order: 0603345

Project: NMED Mntly & OCD Qlty Samp 3/30/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W

Sample ID: MB-10111	SampleType: MBLK	TestCode: 8270_W	Units: µg/L	Prep Date: 4/3/2006	RunNo: 18907						
Client ID: ZZZZZ	Batch ID: 10111	TestNo: SW8270C	(SW3510)	Analysis Date: 4/12/2006	SeqNo: 469635						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	10									
Acenaphthylene	ND	10									
Aniline	ND	20									
Anthracene	ND	10									
Azobenzene	ND	10									
Benzo(a)anthracene	ND	15									
Benzo(a)pyrene	ND	15									
Benzo(b)fluoranthene	ND	15									
Benzo(g,h,i)perylene	ND	10									
Benzo(k)fluoranthene	ND	10									
Benzoic acid	ND	50									
Benzyl alcohol	ND	20									
Bis(2-chloroethoxy)methane	ND	10									
Bis(2-chloroethyl)ether	ND	15									
Bis(2-chloroisopropyl)ether	ND	15									
Bis(2-ethylhexyl)phthalate	ND	15									
4-Bromophenyl phenyl ether	ND	10									
Butyl benzyl phthalate	ND	15									
Carbazole	ND	10									
4-Chloro-3-methylphenol	ND	20									
4-Chloroaniline	ND	20									
2-Chloronaphthalene	ND	10									
2-Chlorophenol	ND	10									
4-Chlorophenyl phenyl ether	ND	15									
Chrysene	ND	15									
Di-n-butyl phthalate	ND	10									
Di-n-octyl phthalate	ND	15									
Dibenz(a,h)anthracene	ND	10									
Dibenzofuran	ND	10									
1,2-Dichlorobenzene	ND	10									
1,3-Dichlorobenzene	ND	10									

Qualifiers:	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	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co

Work Order: 0603345

Project: NMED Mntly & OCD Quty Samp 3/30/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W

Sample ID: MB-10111	SampType: MBLK	TestCode: 8270_W	Units: µg/L	Prep Date: 4/3/2006	RunNo: 18907						
Client ID: ZZZZZ	Batch ID: 10111	TestNo: SW8270C	(SW3510)	Analysis Date: 4/12/2006	SeqNo: 469635						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	10									
3,3'-Dichlorobenzidine	ND	15									
Diethyl phthalate	ND	10									
Dimethyl phthalate	ND	10									
2,4-Dichlorophenol	ND	10									
2,4-Dimethylphenol	ND	10									
4,6-Dinitro-2-methylphenol	ND	50									
2,4-Dinitrophenol	ND	50									
2,4-Dinitrotoluene	ND	10									
2,6-Dinitrotoluene	ND	10									
Fluoranthene	ND	10									
Fluorene	ND	10									
Hexachlorobenzene	ND	10									
Hexachlorobutadiene	ND	10									
Hexachlorocyclopentadiene	ND	10									
Hexachloroethane	ND	10									
Indeno(1,2,3-cd)pyrene	ND	10									
Isophorone	ND	10									
2-Methylnaphthalene	ND	10									
2-Methylphenol	ND	15									
3+4-Methylphenol	ND	20									
N-Nitrosodi-n-propylamine	ND	10									
N-Nitrosodimethylamine	ND	10									
N-Nitrosodiphenylamine	ND	10									
Naphthalene	ND	10									
2-Nitroaniline	ND	50									
3-Nitroaniline	ND	50									
4-Nitroaniline	ND	20									
Nitrobenzene	ND	10									
2-Nitrophenol	ND	15									
4-Nitrophenol	ND	50									

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: Giant Refining Co
 Work Order: 0603345
 Project: NMED Mntly & OCD Qlty Samp 3/30/06

TestCode: 8270_W

Sample ID: MB-10111	SampType: MBLK	TestCode: 8270_W	Units: µg/L	Prep Date: 4/3/2006	RunNo: 18907						
Client ID: ZZZZZ	Batch ID: 10111	TestNo: SW8270C	(SW3510)	Analysis Date: 4/12/2006	SeqNo: 469635						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Pentachlorophenol	ND	50									
Phenanthrene	ND	10									
Phenol	ND	10									
Pyrene	ND	15									
Pyridine	ND	30									
1,2,4-Trichlorobenzene	ND	10									
2,4,5-Trichlorophenol	ND	10									
2,4,6-Trichlorophenol	ND	15									

Sample ID: LCS-10111	SampType: LCS	TestCode: 8270_W	Units: µg/L	Prep Date: 4/3/2006	RunNo: 18903						
Client ID: ZZZZZ	Batch ID: 10111	TestNo: SW8270C	(SW3510)	Analysis Date: 4/11/2006	SeqNo: 469567						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	64.06	10	100	0	64.1	11	123				
4-Chloro-3-methylphenol	120.3	20	200	0	60.2	15.4	119				
2-Chlorophenol	104.8	10	200	0	52.4	12.2	122				
1,4-Dichlorobenzene	46.16	10	100	0	46.2	16.9	100				
2,4-Dinitrotoluene	71.60	10	100	0	71.6	13	138				
N-Nitrosodi-n-propylamine	58.62	10	100	0	58.6	9.93	122				
4-Nitrophenol	89.78	50	200	0	44.9	-20.5	87.4				
Pentachlorophenol	147.3	50	200	0	73.6	-0.355	114				
Phenol	61.38	10	200	0	30.7	7.53	73.1				
Pyrene	65.36	15	100	0	65.4	12.6	140				
1,2,4-Trichlorobenzene	52.00	10	100	0	52.0	17.4	98.7				

Sample ID: LCSD-10111	SampType: LCSD	TestCode: 8270_W	Units: µg/L	Prep Date: 4/3/2006	RunNo: 18903						
Client ID: ZZZZZ	Batch ID: 10111	TestNo: SW8270C	(SW3510)	Analysis Date: 4/11/2006	SeqNo: 469570						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	65.06	10	100	0	65.1	11	123	64.06	1.55	30.5	
--------------	-------	----	-----	---	------	----	-----	-------	------	------	--

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

CLIENT: Giant Refining Co
Work Order: 0603345
Project: NMED Mntly & OCD Qlty Samp 3/30/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W

Sample ID: LCSD-10111		SampType: LCSD		TestCode: 8270_W		Units: µg/L		Prep Date: 4/3/2006		RunNo: 18903	
Client ID: ZZZZZ		Batch ID: 10111		TestNo: SW8270C		(SW3510)		Analysis Date: 4/11/2006		SeqNo: 469570	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	123.3	20	200	0	61.6	15.4	119	120.3	2.45	28.6	
2-Chlorophenol	116.4	10	200	0	58.2	12.2	122	104.8	10.5	107	
1,4-Dichlorobenzene	54.84	10	100	0	54.8	16.9	100	46.16	17.2	62.1	
2,4-Dinitrotoluene	70.20	10	100	0	70.2	13	138	71.6	1.97	14.7	
N-Nitrosodi-n-propylamine	64.04	10	100	0	64.0	9.93	122	58.62	8.84	30.3	
4-Nitrophenol	92.74	50	200	0	46.4	12.5	87.4	89.78	3.24	36.3	
Pentachlorophenol	143.8	50	200	0	71.9	3.55	114	147.3	2.35	49	
Phenol	66.90	10	200	0	33.4	7.53	73.1	61.38	8.61	52.4	
Pyrene	64.96	15	100	0	65.0	12.6	140	65.36	0.614	16.3	
1,2,4-Trichlorobenzene	51.70	10	100	0	51.7	17.4	98.7	52	0.579	36.4	

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: Giant Refining Co
 Work Order: 0603345
 Project: NMED Mntly & OCD Qlty Samp 3/30/06

TestCode: HG_CTW

Sample ID: MB-10119	SampleType: MBLK	TestCode: HG_CTW	Units: mg/L	Prep Date: 4/4/2006 ^a	RunNo: 18829						
Client ID: ZZZZZ	Batch ID: 10119	TestNo: SW7470	(SW7470)	Analysis Date: 4/5/2006	SeqNo: 467172						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.00020

Sample ID: LCS-10119	SampType: LCS	TestCode: HG_CTW	Units: mg/L	Prep Date: 4/4/2006	RunNo: 18829						
Client ID: ZZZZZ	Batch ID: 10119	TestNo: SW7470	(SW7470)	Analysis Date: 4/5/2006	SeqNo: 467173						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004770	0.00020	0.005	0	95.4	80	120				

Mercury 0.004770 0.00020 0.00020 0.005 0 95.4 80 120

Qualifiers: 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 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Giant Refining Co
 Work Order: 0603345
 Project: NMED Mntly & OCD Qily Samp 3/30/06

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS_TOTAL

Sample ID: MB-10143	SampType: MBLK	TestCode: METALS_TO	Units: mg/L	Prep Date: 4/8/2006	RunNo: 18898						
Client ID: ZZZZZ	Batch ID: 10143	TestNo: SW6010A		Analysis Date: 4/11/2006	SeqNo: 468949						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	ND	0.0050									

Sample ID: LCS-10143	SampType: LCS	TestCode: METALS_TO	Units: mg/L	Prep Date: 4/8/2006	RunNo: 18898						
Client ID: ZZZZZ	Batch ID: 10143	TestNo: SW6010A		Analysis Date: 4/11/2006	SeqNo: 468950						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.4908	0.0050	0.5	0	98.2	80	120				

Sample ID: LCS-10143	SampType: LCS	TestCode: METALS_TO	Units: mg/L	Prep Date: 4/8/2006	RunNo: 18898						
Client ID: ZZZZZ	Batch ID: 10143	TestNo: SW6010A		Analysis Date: 4/11/2006	SeqNo: 468965						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5072	0.020	0.5	0	101	80	120				
Barium	0.4720	0.020	0.5	0	94.4	80	120				
Cadmium	0.4770	0.0020	0.5	0	95.4	80	120				
Chromium	0.4800	0.0060	0.5	0	96.0	80	120				
Lead	0.4760	0.0050	0.5	0	95.2	80	120				
Selenium	0.4500	0.050	0.5	0	90.0	80	120				

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

CLIENT: Giant Refining Co

Work Order: 0603345

Project: NMED Mntly & OCD Qtly Samp 3/30/06

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 100ng lcs	SampType: LCS	TestCode: 8260_W	Units: µg/L	Prep Date:	RunNo: 18824						
Client ID: ZZZZZ	Batch ID: R18824	TestNo: SW8260B		Analysis Date: 4/4/2006	SeqNo: 467040						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.05	1.0	20	0	100	79.2	130				
Toluene	19.07	1.0	20	0	95.3	81.5	118				
Chlorobenzene	20.94	1.0	20	0	105	81.2	132				
1,1-Dichloroethene	18.70	1.0	20	0	93.5	65.5	134				
Trichloroethene (TCE)	20.53	1.0	20	0	103	67	131				

Qualifiers:	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	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

3/31/2006

Work Order Number 0603345

Received by AT

Checklist completed by

Signature

Date

3/31/06

Matrix

Carrier name Client drop-off

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 ☐		
1 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?	2°	4° C ± 2 Acceptable If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

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

CHAIN-OF-CUSTODY RECORD					QA/QC Package:		
					Std ☐	Level 4 ☐	
					Other: _____		
Client: <u>Giant Refining</u>					Project Name: <u>NMED quarterly and</u>		
Company: <u>Ciniza</u>					OCD Quarterly Water		
Address: <u>Route 3 Box 7</u>					<u>Samples 3-30-2006</u>		
<u>Fedrup, NM 87301</u>							
					Project Manager: _____		
					<u>Steve Morris</u>		
Phone #: <u>505 7223833</u>					Sampler: <u>Steve Morris</u>		
Fax #: <u>505 7220210</u>					Sample Temperature: <u>25</u>		
Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
<u>3/30/06</u>	<u>0945</u>	<u>H₂O</u>	<u>Pilot Eff.</u>		HgCl ₂	HNO ₃	<u>26033451</u>
<u>"</u>	<u>1010</u>	<u>"</u>	<u>NAPIS Eff.</u>				<u>-2</u>
<u>"</u>	<u>1030</u>	<u>"</u>	<u>AL-2 to EP-1</u>				<u>-3</u>
Date: <u>3/31/06</u>	Time: <u>0905</u>	Relinquished By: (Signature) <u>[Signature]</u>		Received By: (Signature) <u>[Signature]</u>			
Date: <u> </u>	Time: <u> </u>	Relinquished By: (Signature) <u> </u>		Received By: (Signature) <u> </u>		<u>3/31/06</u>	

COVER LETTER

Tuesday, July 18, 2006

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

TEL: (505) 722-3833

FAX (505) 722-0210

RE: Pilot Travel Center 2nd Quarter 2006

Order No.: 0606101

Dear Steve Morris:

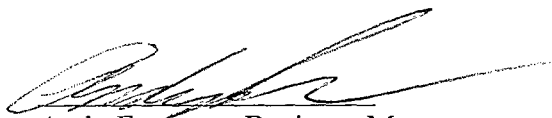
Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 6/9/2006 for the analyses presented in the following report.

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, Inc.

Date: 18-Jul-06

CLIENT: Giant Refining Co
Project: Pilot Travel Center 2nd Quarter 2006

Lab Order: 0606101

Lab ID: 0606101-01
Client Sample ID: Pilot TC-2 QTR.

Collection Date: 6/8/2006 8:45:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7470: MERCURY						
Mercury	ND	0.00020		mg/L	1	Analyst: CMC 6/20/2006
EPA 6010: TOTAL RECOVERABLE METALS						
Arsenic	ND	0.020		mg/L	1	Analyst: NMO 6/21/2006 2:42:32 PM
Barium	ND	0.020		mg/L	1	6/21/2006 2:42:32 PM
Cadmium	ND	0.0020		mg/L	1	6/21/2006 2:42:32 PM
Chromium	ND	0.0060		mg/L	1	6/21/2006 2:42:32 PM
Lead	ND	0.0050		mg/L	1	6/21/2006 2:42:32 PM
Selenium	ND	0.050		mg/L	1	6/21/2006 2:42:32 PM
Silver	ND	0.0050		mg/L	1	6/21/2006 2:42:32 PM
EPA METHOD 8270C: SEMIVOLATILES						
Acenaphthene	ND	100		µg/L	5	Analyst: BL 7/14/2006
Acenaphthylene	ND	100		µg/L	5	7/14/2006
Aniline	ND	200		µg/L	5	7/14/2006
Anthracene	ND	100		µg/L	5	7/14/2006
Azobenzene	ND	100		µg/L	5	7/14/2006
Benz(a)anthracene	ND	150		µg/L	5	7/14/2006
Benzo(a)pyrene	ND	150		µg/L	5	7/14/2006
Benzo(b)fluoranthene	ND	150		µg/L	5	7/14/2006
Benzo(g,h,i)perylene	ND	100		µg/L	5	7/14/2006
Benzo(k)fluoranthene	ND	100		µg/L	5	7/14/2006
Benzoic acid	770	500		µg/L	5	7/14/2006
Benzyl alcohol	ND	200		µg/L	5	7/14/2006
Bis(2-chloroethoxy)methane	ND	100		µg/L	5	7/14/2006
Bis(2-chloroethyl)ether	ND	150		µg/L	5	7/14/2006
Bis(2-chloroisopropyl)ether	ND	150		µg/L	5	7/14/2006
Bis(2-ethylhexyl)phthalate	ND	150		µg/L	5	7/14/2006
4-Bromophenyl phenyl ether	ND	100		µg/L	5	7/14/2006
Butyl benzyl phthalate	ND	150		µg/L	5	7/14/2006
Carbazole	ND	100		µg/L	5	7/14/2006
4-Chloro-3-methylphenol	ND	200		µg/L	5	7/14/2006
4-Chloroaniline	ND	200		µg/L	5	7/14/2006
2-Chloronaphthalene	ND	100		µg/L	5	7/14/2006
2-Chlorophenol	ND	100		µg/L	5	7/14/2006
4-Chlorophenyl phenyl ether	ND	150		µg/L	5	7/14/2006
Chrysene	ND	150		µg/L	5	7/14/2006
Di-n-butyl phthalate	ND	100		µg/L	5	7/14/2006

Qualifiers:
 * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 18-Jul-06

CLIENT: Giant Refining Co
Project: Pilot Travel Center 2nd Quarter 2006

Lab Order: 0606101

EPA METHOD 8270C: SEMIVOLATILES

Analyst: BL

Di-n-octyl phthalate	ND	150	µg/L	5	7/14/2006
Dibenz(a,h)anthracene	ND	100	µg/L	5	7/14/2006
Dibenzofuran	ND	100	µg/L	5	7/14/2006
1,2-Dichlorobenzene	ND	100	µg/L	5	7/14/2006
1,3-Dichlorobenzene	ND	100	µg/L	5	7/14/2006
1,4-Dichlorobenzene	ND	100	µg/L	5	7/14/2006
3,3'-Dichlorobenzidine	ND	150	µg/L	5	7/14/2006
Diethyl phthalate	ND	100	µg/L	5	7/14/2006
Dimethyl phthalate	ND	100	µg/L	5	7/14/2006
2,4-Dichlorophenol	ND	100	µg/L	5	7/14/2006
2,4-Dimethylphenol	ND	100	µg/L	5	7/14/2006
4,6-Dinitro-2-methylphenol	ND	500	µg/L	5	7/14/2006
2,4-Dinitrophenol	ND	500	µg/L	5	7/14/2006
2,4-Dinitrotoluene	ND	100	µg/L	5	7/14/2006
2,6-Dinitrotoluene	ND	100	µg/L	5	7/14/2006
Fluoranthene	ND	100	µg/L	5	7/14/2006
Fluorene	ND	100	µg/L	5	7/14/2006
Hexachlorobenzene	ND	100	µg/L	5	7/14/2006
Hexachlorobutadiene	ND	100	µg/L	5	7/14/2006
Hexachlorocyclopentadiene	ND	100	µg/L	5	7/14/2006
Hexachloroethane	ND	100	µg/L	5	7/14/2006
Indeno(1,2,3-cd)pyrene	ND	100	µg/L	5	7/14/2006
Isophorone	ND	100	µg/L	5	7/14/2006
2-Methylnaphthalene	ND	100	µg/L	5	7/14/2006
2-Methylphenol	ND	150	µg/L	5	7/14/2006
3+4-Methylphenol	330	200	µg/L	5	7/14/2006
N-Nitrosodi-n-propylamine	ND	100	µg/L	5	7/14/2006
N-Nitrosodimethylamine	ND	100	µg/L	5	7/14/2006
N-Nitrosodiphenylamine	ND	100	µg/L	5	7/14/2006
Naphthalene	ND	100	µg/L	5	7/14/2006
2-Nitroaniline	ND	500	µg/L	5	7/14/2006
3-Nitroaniline	ND	500	µg/L	5	7/14/2006
4-Nitroaniline	ND	200	µg/L	5	7/14/2006
Nitrobenzene	ND	100	µg/L	5	7/14/2006
2-Nitrophenol	ND	150	µg/L	5	7/14/2006
4-Nitrophenol	ND	500	µg/L	5	7/14/2006
Pentachlorophenol	ND	500	µg/L	5	7/14/2006
Phenanthrene	ND	100	µg/L	5	7/14/2006
Phenol	ND	100	µg/L	5	7/14/2006
Pyrene	ND	150	µg/L	5	7/14/2006
Pyridine	ND	300	µg/L	5	7/14/2006
1,2,4-Trichlorobenzene	ND	100	µg/L	5	7/14/2006
2,4,5-Trichlorophenol	ND	100	µg/L	5	7/14/2006
2,4,6-Trichlorophenol	ND	150	µg/L	5	7/14/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 18-Jul-06

CLIENT: Giant Refining Co
Project: Pilot Travel Center 2nd Quarter 2006

Lab Order: 0606101

EPA METHOD 8270C: SEMIVOLATILES

Analyst: BL

Surr: 2,4,6-Tribromophenol	83.6	16.6-150	%REC	5	7/14/2006
Surr: 2-Fluorobiphenyl	68.7	19.6-134	%REC	5	7/14/2006
Surr: 2-Fluorophenol	47.6	9.54-113	%REC	5	7/14/2006
Surr: 4-Terphenyl-d14	84.8	22.7-145	%REC	5	7/14/2006
Surr: Nitrobenzene-d5	64.1	14.6-134	%REC	5	7/14/2006
Surr: Phenol-d5	38.4	10.7-80.3	%REC	5	7/14/2006

EPA METHOD 8260B: VOLATILES

Analyst: KTM

Benzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Toluene	9.8	1.0	µg/L	1	6/12/2006 6:10:59 PM
Ethylbenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Methyl tert-butyl ether (MTBE)	ND	1.5	µg/L	1	6/12/2006 6:10:59 PM
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,2-Dichloroethane (EDC)	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Naphthalene	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
1-Methylnaphthalene	ND	4.0	µg/L	1	6/12/2006 6:10:59 PM
2-Methylnaphthalene	ND	4.0	µg/L	1	6/12/2006 6:10:59 PM
Acetone	900	100	µg/L	10	6/10/2006 6:17:34 AM
Bromobenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Bromochloromethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Bromodichloromethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Bromoform	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Bromomethane	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
2-Butanone	ND	10	µg/L	1	6/12/2006 6:10:59 PM
Carbon disulfide	ND	10	µg/L	1	6/12/2006 6:10:59 PM
Carbon Tetrachloride	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
Chlorobenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Chloroethane	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
Chloroform	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Chloromethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
2-Chlorotoluene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
4-Chlorotoluene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
cis-1,2-DCE	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
Dibromochloromethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Dibromomethane	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
1,2-Dichlorobenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,3-Dichlorobenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,4-Dichlorobenzene	5.1	1.0	µg/L	1	6/12/2006 6:10:59 PM
Dichlorodifluoromethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,1-Dichloroethane	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 18-Jul-06

CLIENT: Giant Refining Co
Project: Pilot Travel Center 2nd Quarter 2006

Lab Order: 0606101

EPA METHOD 8260B: VOLATILES

Analyst: KTM

1,1-Dichloroethene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,2-Dichloropropane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,3-Dichloropropane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
2,2-Dichloropropane	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
1,1-Dichloropropene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Hexachlorobutadiene	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
2-Hexanone	ND	10	µg/L	1	6/12/2006 6:10:59 PM
Isopropylbenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
4-Isopropyltoluene	6.6	1.0	µg/L	1	6/12/2006 6:10:59 PM
4-Methyl-2-pentanone	ND	10	µg/L	1	6/12/2006 6:10:59 PM
Methylene Chloride	ND	3.0	µg/L	1	6/12/2006 6:10:59 PM
n-Butylbenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
n-Propylbenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
sec-Butylbenzene	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
Styrene	ND	1.5	µg/L	1	6/12/2006 6:10:59 PM
tert-Butylbenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
trans-1,2-DCE	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,1,1-Trichloroethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,1,2-Trichloroethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Trichloroethene (TCE)	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Trichlorofluoromethane	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
1,2,3-Trichloropropane	ND	2.0	µg/L	1	6/12/2006 6:10:59 PM
Vinyl chloride	ND	1.0	µg/L	1	6/12/2006 6:10:59 PM
Xylenes, Total	ND	3.0	µg/L	1	6/12/2006 6:10:59 PM
Surr: 1,2-Dichloroethane-d4	87.9	69.9-130	%REC	1	6/12/2006 6:10:59 PM
Surr: 4-Bromofluorobenzene	103	75-139	%REC	1	6/12/2006 6:10:59 PM
Surr: Dibromofluoromethane	92.3	57.3-135	%REC	1	6/12/2006 6:10:59 PM
Surr: Toluene-d8	97.3	81.9-122	%REC	1	6/12/2006 6:10:59 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

HALL ENVIRONMENTAL
attn: ANDY FREEMAN
4901 HAWKINS NE, SUITE D
ALBUQUERQUE NM 87109-4372

Explanation of codes	
B	Analyte Detected in Method Blank
E	Result is Estimated
H	Analyzed Out of Hold Time
N	Tentatively Identified Compound
S	Subcontracted
1-9	See Footnote

Assaigai Analytical Laboratories, Inc.

STANDARD

Certificate of Analysis

All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).

Client: HALL ENVIRONMENTAL
Project: 0606101
Order: 0606215 HAL03 Receipt: 06-09-06

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Sample: 0606101-01D/ PILOT TC-2 QTR.

Collected: 06-08-06 8:45:00 By:

Matrix: AQUEOUS

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0606215-0001A			EPA 405.1 Biochemical Oxygen Demand					By: NJL		
BOD06071	WC.2006.1470.5	10-26-4	Biochemical Oxygen Demand	472	mg/L	1	2		06-09-06	06-14-06

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

Analytical results are not corrected for method blank or field blank contamination.

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: Pilot Travel Center 2nd Quarter 2006

Work Order: 0606101

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8270C									
Sample ID: MB-10617		MBLK			Batch ID: 10617		Analysis Date:		7/14/2006
Acenaphthene	ND	µg/L	10						
Acenaphthylene	ND	µg/L	10						
Aniline	ND	µg/L	20						
Anthracene	ND	µg/L	10						
Azobenzene	ND	µg/L	10						
Benz(a)anthracene	ND	µg/L	15						
Benzo(a)pyrene	ND	µg/L	15						
Benzo(b)fluoranthene	ND	µg/L	15						
Benzo(g,h,i)perylene	ND	µg/L	10						
Benzo(k)fluoranthene	ND	µg/L	10						
Benzoic acid	ND	µg/L	50						
Benzyl alcohol	ND	µg/L	20						
Bis(2-chloroethoxy)methane	ND	µg/L	10						
Bis(2-chloroethyl)ether	ND	µg/L	15						
Bis(2-chloroisopropyl)ether	ND	µg/L	15						
Bis(2-ethylhexyl)phthalate	ND	µg/L	15						
4-Bromophenyl phenyl ether	ND	µg/L	10						
Butyl benzyl phthalate	ND	µg/L	15						
Carbazole	ND	µg/L	10						
4-Chloro-3-methylphenol	ND	µg/L	20						
4-Chloroaniline	ND	µg/L	20						
2-Chloronaphthalene	ND	µg/L	10						
2-Chlorophenol	ND	µg/L	10						
4-Chlorophenyl phenyl ether	ND	µg/L	15						
Chrysene	ND	µg/L	15						
Di-n-butyl phthalate	ND	µg/L	10						
Di-n-octyl phthalate	ND	µg/L	15						
Dibenz(a,h)anthracene	ND	µg/L	10						
Dibenzofuran	ND	µg/L	10						
1,2-Dichlorobenzene	ND	µg/L	10						
1,3-Dichlorobenzene	ND	µg/L	10						
1,4-Dichlorobenzene	ND	µg/L	10						
3,3'-Dichlorobenzidine	ND	µg/L	15						
Diethyl phthalate	ND	µg/L	10						
Dimethyl phthalate	ND	µg/L	10						
2,4-Dichlorophenol	ND	µg/L	10						
2,4-Dimethylphenol	ND	µg/L	10						
4,6-Dinitro-2-methylphenol	ND	µg/L	50						
2,4-Dinitrophenol	ND	µg/L	50						
2,4-Dinitrotoluene	ND	µg/L	10						
2,6-Dinitrotoluene	ND	µg/L	10						
Fluoranthene	ND	µg/L	10						
Fluorene	ND	µg/L	10						
Hexachlorobenzene	ND	µg/L	10						

Qualifiers:

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
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Giant Refining Co
Project: Pilot Travel Center 2nd Quarter 2006

Work Order: 0606101

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8270C

Sample ID: MB-10617

MBLK

Batch ID: 10617 Analysis Date: 7/14/2006

Hexachlorobutadiene	ND	µg/L	10
Hexachlorocyclopentadiene	ND	µg/L	10
Hexachloroethane	ND	µg/L	10
Indeno(1,2,3-cd)pyrene	ND	µg/L	10
Isophorone	ND	µg/L	10
2-Methylnaphthalene	ND	µg/L	10
2-Methylphenol	ND	µg/L	15
3+4-Methylphenol	ND	µg/L	20
N-Nitrosodi-n-propylamine	ND	µg/L	10
N-Nitrosodimethylamine	ND	µg/L	10
N-Nitrosodiphenylamine	ND	µg/L	10
Naphthalene	ND	µg/L	10
2-Nitroaniline	ND	µg/L	50
3-Nitroaniline	ND	µg/L	50
4-Nitroaniline	ND	µg/L	20
Nitrobenzene	ND	µg/L	10
2-Nitrophenol	ND	µg/L	15
4-Nitrophenol	ND	µg/L	50
Pentachlorophenol	ND	µg/L	50
Phenanthrene	ND	µg/L	10
Phenol	ND	µg/L	10
Pyrene	ND	µg/L	15
Pyridine	ND	µg/L	30
1,2,4-Trichlorobenzene	ND	µg/L	10
2,4,5-Trichlorophenol	ND	µg/L	10
2,4,6-Trichlorophenol	ND	µg/L	15

Sample ID: LCS-10617

LCS

Batch ID: 10617 Analysis Date: 7/14/2006

Acenaphthene	72.64	µg/L	10	72.6	11	123
4-Chloro-3-methylphenol	132.4	µg/L	20	66.2	15.4	119
2-Chlorophenol	105.1	µg/L	10	52.6	12.2	122
1,4-Dichlorobenzene	43.10	µg/L	10	43.1	16.9	100
2,4-Dinitrotoluene	62.40	µg/L	10	62.4	13	138
N-Nitrosodi-n-propylamine	60.56	µg/L	10	60.6	9.93	122
4-Nitrophenol	89.46	µg/L	50	44.7	12.5	87.4
Pentachlorophenol	140.9	µg/L	50	70.4	3.55	114
Phenol	59.16	µg/L	10	29.6	7.53	73.1
Pyrene	68.16	µg/L	15	68.2	12.6	140
1,2,4-Trichlorobenzene	52.22	µg/L	10	52.2	17.4	98.7

Sample ID: LCSD-10617

LCSD

Batch ID: 10617 Analysis Date: 7/17/2006

Acenaphthene	66.58	µg/L	10	66.6	11	123	8.71	30.5
4-Chloro-3-methylphenol	130.9	µg/L	20	65.4	15.4	119	1.14	28.6
2-Chlorophenol	101.7	µg/L	10	50.9	12.2	122	3.29	107
1,4-Dichlorobenzene	45.50	µg/L	10	45.5	16.9	100	5.42	62.1
2,4-Dinitrotoluene	59.42	µg/L	10	59.4	13	138	4.89	14.7

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

QA/QC SUMMARY REPORT

Client: Giant Refining Co
Project: Pilot Travel Center 2nd Quarter 2006

Work Order: 0606101

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8270C									
Sample ID: LCSD-10617		LCSD			Batch ID: 10617		Analysis Date:		7/17/2006
N-Nitrosodi-n-propylamine	64.20	µg/L	10	64.2	9.93	122	5.84	30.3	
4-Nitrophenol	81.02	µg/L	50	40.5	12.5	87.4	9.90	36.3	
Pentachlorophenol	143.6	µg/L	50	71.8	3.55	114	1.90	49	
Phenol	59.46	µg/L	10	29.7	7.53	73.1	0.506	52.4	
Pyrene	66.34	µg/L	15	66.3	12.6	140	2.71	16.3	
1,2,4-Trichlorobenzene	54.60	µg/L	10	54.6	17.4	98.7	4.46	36.4	
Method: SW7470									
Sample ID: MB-10646		MBLK			Batch ID: 10646		Analysis Date:		6/20/2006
Mercury	ND	mg/L	0.00020						
Sample ID: LCS-10646		LCS			Batch ID: 10646		Analysis Date:		6/20/2006
Mercury	0.004830	mg/L	0.00020	96.6	80	120			
Method: SW6010A									
Sample ID: MB-10640		MBLK			Batch ID: 10640		Analysis Date:		6/21/2006 2:25:56 PM
Arsenic	ND	mg/L	0.020						
Barium	ND	mg/L	0.020						
Cadmium	ND	mg/L	0.0020						
Chromium	ND	mg/L	0.0060						
Lead	ND	mg/L	0.0050						
Selenium	ND	mg/L	0.050						
Silver	ND	mg/L	0.0050						
Sample ID: LCS-10640		LCS			Batch ID: 10640		Analysis Date:		6/21/2006 2:28:59 PM
Barium	0.4993	mg/L	0.020	99.9	80	120			
Cadmium	0.5070	mg/L	0.0020	101	80	120			
Chromium	0.5076	mg/L	0.0060	101	80	120			
Lead	0.4989	mg/L	0.0050	99.8	80	120			
Selenium	0.4945	mg/L	0.050	98.9	80	120			
Silver	0.5125	mg/L	0.0050	103	80	120			

Qualifiers:

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
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: Pilot Travel Center 2nd Quarter 2006

Work Order: 0606101

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8260B

Sample ID: 5mL rb2

MBLK

Batch ID: R19563 Analysis Date: 6/9/2006 1:12:59 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	1.5
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
Bromochloromethane	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	2.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	2.0
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	2.0
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	2.0
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	2.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0

Qualifiers:

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
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: Pilot Travel Center 2nd Quarter 2006

Work Order: 0606101

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8260B

Sample ID: 5mL rb2

MBLK

Batch ID: R19563 Analysis Date: 6/9/2006 1:12:59 PM

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	2.0
Styrene	ND	µg/L	1.5
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	1.0
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	3.0

Sample ID: 5mL rb-f

MBLK

Batch ID: R19579 Analysis Date: 6/12/2006 11:31:16 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	1.5
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
Bromochloromethane	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	2.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	2.0
Chlorobenzene	ND	µg/L	1.0

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

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: Pilot Travel Center 2nd Quarter 2006

Work Order: 0606101

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8260B

Sample ID: 5mL rb-f

MBLK

Batch ID: R19579 Analysis Date: 6/12/2006 11:31:16 AM

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	2.0
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	2.0
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	2.0
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	2.0
Styrene	ND	µg/L	1.5
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	1.0
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

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

QA/QC SUMMARY REPORT

Client: Giant Refining Co
 Project: Pilot Travel Center 2nd Quarter 2006

Work Order: 0606101

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8260B

Sample ID: 5mL rb-f

MBLK

Batch ID: R19579 Analysis Date: 6/12/2006 11:31:16 AM

Xylenes, Total

ND

µg/L

3.0

Sample ID: 100ng lcs

LCS

Batch ID: R19563 Analysis Date: 6/9/2006 2:57:32 PM

Benzene

18.70

µg/L

1.0

93.5

71

124

Toluene

18.04

µg/L

1.0

90.2

81.5

118

Chlorobenzene

18.06

µg/L

1.0

90.3

81.2

132

1,1-Dichloroethene

16.38

µg/L

1.0

81.9

65.5

134

Trichloroethene (TCE)

16.64

µg/L

1.0

83.2

69.5

119

Sample ID: 100ng lcs

LCS

Batch ID: R19579 Analysis Date: 6/12/2006 12:55:56 PM

Benzene

19.76

µg/L

1.0

98.8

71

124

Toluene

18.70

µg/L

1.0

93.5

81.5

118

Chlorobenzene

18.11

µg/L

1.0

90.5

81.2

132

1,1-Dichloroethene

16.06

µg/L

1.0

80.3

65.5

134

Trichloroethene (TCE)

17.96

µg/L

1.0

89.8

69.5

119

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:

6/9/2006

Work Order Number 0606101

Received by GLS

Checklist completed by

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 - pH acceptable upon receipt?

Yes ☒

No ☐

N/A ☐

Container/Temp Blank temperature?

2°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Damanko.