

GREEN

GIANT

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

September 19, 2007

Ms. Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Bldg 1
Santa Fe, NM 87505



RE: Request for Contained-In Determination: Weir Box Soil

Dear Hope:

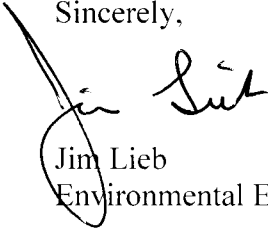
Giant (Western) Refining - Gallup Refinery experienced overflows of the weir box to the New API Separator on June 23, 2007 and July 19, 2007. Giant cleaned up the impacted soil from both events and has contained the soil in our waste soil staging area in a bermed area. The soil amounts cumulatively to approximately 8 cubic yards (five cu yds from the June 23 event and three cu yds from the July 19 event). By way of this letter Giant is requesting that NMED perform a contained-in determination for these soils based on the sampling results.

Giant followed your directive concerning sampling of the soil. We collected one composite sample and one discrete sample; the discrete sample was taken from soil showing the greatest visible contamination. The composite samples were analyzed for SVOCs full suite, Total metals – RCRA 8, reactivity, ignitibility, corrosivity, flash point and TPH. The discrete samples were analyzed for VOCs. The attached results are mostly non-detect for the SVOCs full suite.

I prepared a comparison table for each sampled. The table compares the sample results with the NMED's Soil Screening Levels. The table shows that the overall sampling results are less than the screening levels for residential soil and industrial soil.

If you need more information in assessing the soils or need to discuss this matter with me, you may contact me at (505) 722-0227.

Sincerely,

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

Jim Lieb
Environmental Engineer

Cc: Ed Riege
Cheryl Johnson
Steve Morris
Bryon Holbrook
OCD - Carl Chavez

Attachment: Summary table
HEAL Results

Comparison with NMED Soil Screening Levels Western (Giant) Ciniza Refinery
 Weir Box Overflow Cleanup Soil
 overflows at the weir box on 6/23/07 and 7/19/07

Table A-1: NMED Soil Screening Levels

| Parameter | Composite (mg/kg) | Discrete (mg/kg) | Residential Soil (mg/kg) | Industrial Occupational Soil (mg/kg) |
|---|-------------------|------------------|--------------------------|--------------------------------------|
| Metals (6010B): | | | | |
| Arsenic | <2.5 | | 3.9 | 17.7 |
| Barium | 320 | | 15600 | 100000 |
| Cadmium | <0.1 | | 39 | 564 |
| Chromium | 10 | | 100000 | 100000 |
| Lead | 3.5 | | 400 | 800 |
| Mercury | 0.16 | | 100000 | 100000 |
| Selenium | <2.5 | | 391 | 5680 |
| Silver | <0.25 | | 391 | 5680 |
| Volatiles (8260B): | | | | |
| Benzene | | <0.05 | 10.3 | 25.8 |
| Toluene | | <0.05 | 252 | 252 |
| Ethylbenzene | | <0.05 | 128 | 128 |
| MTBE | | <0.05 | 388 | 984 |
| 1,2,4-Trimethylbenzene | | <0.05 | 58.0 | 213 |
| 1,3,5-Trimethylbenzene | | <0.05 | 24.8 | 69.2 |
| Naphthalene | | <0.1 | 79.5 | 300 |
| 1-Methylnaphthalene | | <0.20 | --- | --- |
| 2-Methylnaphthalene | | <0.20 | --- | --- |
| Isopropylbenzene | | <0.05 | --- | --- |
| 4-Isopropyltoluene | | <0.05 | --- | --- |
| n-Butylbenzene | | <0.05 | 62.1 | 62.1 |
| n-Propylbenzene | | <0.05 | 62.1 | 62.1 |
| Xylenes | | <0.1 | 82.0 | 82.0 |
| SemiVolatiles (8270C): | | | | |
| | mg/kg | | | |
| Benz(a)anthracene | 3.3 | | 6.21 | 23.4 |
| Phenanthrene | 7.4 | | 1830 | 20500 |
| Pyrene | 12 | | 2290 | 30900 |
| Notes: | | | | |
| Samples collected on August 20, 2007 and received by HEAL on August 22, 2007. Samples analyzed on August 24, 27 and 30th. | | | | |



COVER LETTER

Friday, August 31, 2007

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

RE: Wier Box Clean-up

Order No.: 0708293

Dear Ed Riege:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 8/22/2007 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,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

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



Hall Environmental Analysis Laboratory, Inc.

Date: 31-Aug-07

CLIENT: Giant Refining Company
Project: Wier Box Clean-up
Lab Order: 0708293

CASE NARRATIVE

Analytical Comments for METHOD 8015DRO_S, SAMPLE 0708293-01A: DNOP not recovered due to dilution

Hall Environmental Analysis Laboratory, Inc.

Date: 31-Aug-07

CLIENT: Giant Refining Company
 Lab Order: 0708293
 Project: Wier Box Clean-up
 Lab ID: 0708293-01

Client Sample ID: WB Comp
 Collection Date: 8/20/2007 7:55:00 AM
 Date Received: 8/22/2007
 Matrix: SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|-----|-----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: SCC |
| Diesel Range Organics (DRO) | 8500 | 1000 | | mg/Kg | 100 | 8/27/2007 9:50:34 PM |
| Motor Oil Range Organics (MRO) | ND | 5000 | | mg/Kg | 100 | 8/27/2007 9:50:34 PM |
| Surr: DNOP | 0 | 61.7-135 | S | %REC | 100 | 8/27/2007 9:50:34 PM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: SMP |
| Gasoline Range Organics (GRO) | 23 | 5.0 | | mg/Kg | 1 | 8/27/2007 12:04:28 PM |
| Surr: BFB | 117 | 84-138 | | %REC | 1 | 8/27/2007 12:04:28 PM |
| EPA METHOD 7471: MERCURY | | | | | | Analyst: SLB |
| Mercury | 0.16 | 0.033 | | mg/Kg | 1 | 8/29/2007 3:56:14 PM |
| EPA METHOD 6010B: SOIL METALS | | | | | | Analyst: TES |
| Arsenic | ND | 2.5 | | mg/Kg | 1 | 8/30/2007 12:32:18 PM |
| Barium | 320 | 1.0 | | mg/Kg | 10 | 8/30/2007 12:48:16 PM |
| Cadmium | ND | 0.10 | | mg/Kg | 1 | 8/30/2007 12:32:18 PM |
| Chromium | 10 | 0.30 | | mg/Kg | 1 | 8/30/2007 12:32:18 PM |
| Lead | 3.5 | 0.25 | | mg/Kg | 1 | 8/30/2007 2:23:24 PM |
| Selenium | ND | 2.5 | | mg/Kg | 1 | 8/30/2007 12:32:18 PM |
| Silver | ND | 0.25 | | mg/Kg | 1 | 8/30/2007 12:32:18 PM |
| EPA METHOD 8270C: SEMIVOLATILES | | | | | | Analyst: JDC |
| Acenaphthene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Acenaphthylene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Aniline | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Anthracene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Azobenzene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Benz(a)anthracene | 3.3 | 2.5 | | mg/Kg | 10 | 8/24/2007 |
| Benzo(a)pyrene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Benzo(b)fluoranthene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Benzo(g,h,i)perylene | ND | 3.0 | | mg/Kg | 10 | 8/24/2007 |
| Benzo(k)fluoranthene | ND | 5.0 | | mg/Kg | 10 | 8/24/2007 |
| Benzoic acid | ND | 5.0 | | mg/Kg | 10 | 8/24/2007 |
| Benzyl alcohol | ND | 10 | | mg/Kg | 10 | 8/24/2007 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | | mg/Kg | 10 | 8/24/2007 |
| Bis(2-chloroethyl)ether | ND | 2.5 | | mg/Kg | 10 | 8/24/2007 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | | mg/Kg | 10 | 8/24/2007 |
| Bis(2-ethylhexyl)phthalate | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 4-Bromophenyl phenyl ether | ND | 2.5 | | mg/Kg | 10 | 8/24/2007 |
| Butyl benzyl phthalate | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Carbazole | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |

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: 31-Aug-07

CLIENT: Giant Refining Company
 Lab Order: 0708293
 Project: Wier Box Clean-up
 Lab ID: 0708293-01

Client Sample ID: WB Comp
 Collection Date: 8/20/2007 7:55:00 AM
 Date Received: 8/22/2007
 Matrix: SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|-----|------|-------|----|---------------|
| EPA METHOD 8270C: SEMIVOLATILES | | | | | | Analyst: JDC |
| 4-Chloro-3-methylphenol | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 4-Chloroaniline | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 2-Chloronaphthalene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 2-Chlorophenol | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 4-Chlorophenyl phenyl ether | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Chrysene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Di-n-butyl phthalate | ND | 5.0 | | mg/Kg | 10 | 8/24/2007 |
| Di-n-octyl phthalate | ND | 5.0 | | mg/Kg | 10 | 8/24/2007 |
| Dibenz(a,h)anthracene | ND | 2.5 | | mg/Kg | 10 | 8/24/2007 |
| Dibenzofuran | ND | 5.0 | | mg/Kg | 10 | 8/24/2007 |
| 1,2-Dichlorobenzene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 1,3-Dichlorobenzene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 1,4-Dichlorobenzene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 3,3'-Dichlorobenzidine | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Diethyl phthalate | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Dimethyl phthalate | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 2,4-Dichlorophenol | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 2,4-Dimethylphenol | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 4,6-Dinitro-2-methylphenol | ND | 5.0 | | mg/Kg | 10 | 8/24/2007 |
| 2,4-Dinitrophenol | ND | 5.0 | | mg/Kg | 10 | 8/24/2007 |
| 2,4-Dinitrotoluene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 2,6-Dinitrotoluene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Fluoranthene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Fluorene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Hexachlorobenzene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Hexachlorobuladiene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Hexachlorocyclopentadiene | ND | 2.5 | | mg/Kg | 10 | 8/24/2007 |
| Hexachloroethane | ND | 5.0 | | mg/Kg | 10 | 8/24/2007 |
| Indeno(1,2,3-cd)pyrene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Isophorone | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 2-Methylnaphthalene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 2-Methylphenol | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 3+4-Methylphenol | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| N-Nitrosodi-n-propylamine | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| N-Nitrosodiphenylamine | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Naphthalene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 2-Nitroaniline | ND | 5.0 | | mg/Kg | 10 | 8/24/2007 |
| 3-Nitroaniline | ND | 5.0 | | mg/Kg | 10 | 8/24/2007 |
| 4-Nitroaniline | ND | 2.5 | | mg/Kg | 10 | 8/24/2007 |
| Nitrobenzene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 2-Nitrophenol | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |

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CLIENT: Giant Refining Company
 Lab Order: 0708293
 Project: Wier Box Clean-up
 Lab ID: 0708293-01

Client Sample ID: WB Comp
 Collection Date: 8/20/2007 7:55:00 AM
 Date Received: 8/22/2007
 Matrix: SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|---------------|
| EPA METHOD 8270C: SEMIVOLATILES | | | | | | Analyst: JDC |
| 4-Nitrophenol | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Pentachlorophenol | ND | 5.0 | | mg/Kg | 10 | 8/24/2007 |
| Phenanthrene | 7.4 | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Phenol | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Pyrene | 12 | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Pyridine | ND | 5.0 | | mg/Kg | 10 | 8/24/2007 |
| 1,2,4-Trichlorobenzene | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 2,4,5-Trichlorophenol | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| 2,4,6-Trichlorophenol | ND | 2.0 | | mg/Kg | 10 | 8/24/2007 |
| Surr: 2,4,6-Tribromophenol | 84.8 | 35.5-141 | | %REC | 10 | 8/24/2007 |
| Surr: 2-Fluorobiphenyl | 87.4 | 30.4-128 | | %REC | 10 | 8/24/2007 |
| Surr: 2-Fluorophenol | 83.3 | 28.1-129 | | %REC | 10 | 8/24/2007 |
| Surr: 4-Terphenyl-d14 | 78.2 | 34.6-151 | | %REC | 10 | 8/24/2007 |
| Surr: Nitrobenzene-d5 | 56.9 | 26.5-122 | | %REC | 10 | 8/24/2007 |
| Surr: Phenol-d5 | 78.5 | 37.6-118 | | %REC | 10 | 8/24/2007 |

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Hall Environmental Analysis Laboratory, Inc.

Date: 31-Aug-07

CLIENT: Giant Refining Company
 Lab Order: 0708293
 Project: Wier Box Clean-up
 Lab ID: 0708293-02

Client Sample ID: WB Soil
 Collection Date: 8/20/2007 7:55:00 AM
 Date Received: 8/22/2007
 Matrix: SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|------------------------------------|--------|-------|------|-------|----|----------------------|
| EPA METHOD 9056A: ANIONS | | | | | | |
| Chloride | 960 | 6.0 | | mg/Kg | 20 | 8/31/2007 3:39:00 AM |
| EPA METHOD 8260B: VOLATILES | | | | | | |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Methyl tert-butyl ether (MTBE) | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,2,4-Trimethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,3,5-Trimethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,2-Dichloroethane (EDC) | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,2-Dibromoethane (EDB) | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Naphthalene | ND | 0.10 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1-Methylnaphthalene | ND | 0.20 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 2-Methylnaphthalene | ND | 0.20 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Acetone | ND | 0.75 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Bromobenzene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Bromochloromethane | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Bromodichloromethane | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Bromoform | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Bromomethane | ND | 0.10 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 2-Butanone | ND | 0.50 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Carbon disulfide | ND | 0.50 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Carbon tetrachloride | ND | 0.10 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Chlorobenzene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Chloroethane | ND | 0.10 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Chloroform | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Chloromethane | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 2-Chlorotoluene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 4-Chlorotoluene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| cis-1,2-DCE | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| cis-1,3-Dichloropropene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.10 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Dibromochloromethane | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Dibromomethane | ND | 0.10 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,2-Dichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,3-Dichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,4-Dichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Dichlorodifluoromethane | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,1-Dichloroethane | ND | 0.10 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,1-Dichloroethene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,2-Dichloropropane | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |

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 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: 31-Aug-07

CLIENT: Giant Refining Company
 Lab Order: 0708293
 Project: Wier Box Clean-up
 Lab ID: 0708293-02

Client Sample ID: WB Soil
 Collection Date: 8/20/2007 7:55:00 AM
 Date Received: 8/22/2007
 Matrix: SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|------------------------------------|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst: LMM |
| 1,3-Dichloropropane | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 2,2-Dichloropropane | ND | 0.10 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,1-Dichloropropene | ND | 0.10 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Hexachlorobutadiene | ND | 0.10 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 2-Hexanone | ND | 0.50 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Isopropylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 4-Isopropyltoluene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 4-Methyl-2-pentanone | ND | 0.50 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Methylene chloride | ND | 0.15 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| n-Butylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| n-Propylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| sec-Butylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Styrene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| tert-Butylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,1,1,2-Tetrachloroethane | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Tetrachloroethene (PCE) | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| trans-1,2-DCE | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| trans-1,3-Dichloropropene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,2,3-Trichlorobenzene | ND | 0.10 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,2,4-Trichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,1,1-Trichloroethane | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,1,2-Trichloroethane | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Trichloroethene (TCE) | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Trichlorofluoromethane | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| 1,2,3-Trichloropropane | ND | 0.10 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Vinyl chloride | ND | 0.050 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 8/27/2007 3:41:41 PM |
| Surr: 1,2-Dichloroethane-d1 | 98.1 | 68.7-122 | | %REC | 1 | 8/27/2007 3:41:41 PM |
| Surr: 4-Bromofluorobenzene | 103 | 79.3-126 | | %REC | 1 | 8/27/2007 3:41:41 PM |
| Surr: Dibromofluoromethane | 99.5 | 64.4-119 | | %REC | 1 | 8/27/2007 3:41:41 PM |
| Surr: Toluene-d8 | 97.9 | 86.5-121 | | %REC | 1 | 8/27/2007 3:41:41 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

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
 Project: 0708293
 Lab ID: C07081256-001
 Client Sample ID WB Comp

Report Date: 08/30/07
 Collection Date: 08/20/07 07:55
 Date Received: 08/23/07
 Matrix: Soil

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------|--------|-------|------------|-------|-------------|-------------|------------------------|
| PHYSICAL PROPERTIES | | | | | | | |
| Corrosivity - pH | 7.51 | s.u. | H | 0.01 | | SW9045C | 08/29/07 11:34 / mkl |
| Flash Point (Ignitability) | >140 | °F | | 60 | 140 | SW 1010 | 08/24/07 13:51 / cjs |
| REACTIVITY | | | | | | | |
| Sulfide, Reactive | ND | mg/kg | | 20.0 | 500 | SW 846 Ch 7 | 08/24/07 14:07 / jl |
| Cyanide, Reactive | ND | mg/kg | | 0.050 | 250 | SW 846 Ch 7 | 08/24/07 12:52 / eli-t |

Report RL - Analyte reporting limit. MCL - Maximum contaminant level.
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.

QA/QC Summary Report

Client: Hall Environmental
Project: 0708293

Report Date: 08/30/07
Work Order: C07081256

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|------------------------------|-------------------------------|-------|------|------|-----------|------------|-----|----------|--|
| Method: SW1010 | | | | | | | | | Batch: 070824A-FLSHPNT-S |
| Sample ID: MBLK1_070824A | Method Blank | | | | | | | | Run: PM_FLASHPOINT B_070825 08/24/07 16:34 |
| Flash Point (Ignitability) | ND | °F | 60 | | | | | | |
| Sample ID: LCS1_070824A | Laboratory Control Sample | | | | | | | | Run: PM_FLASHPOINT B_070825 08/24/07 12:30 |
| Flash Point (Ignitability) | 82.0 | °F | 60 | 100 | 96 | 104 | | | |
| Method: SW846 Ch 7 | | | | | | | | | Batch: 15813 |
| Sample ID: MB-15813 | Method Blank | | | | | | | | Run: TITRATION_070824A 08/24/07 09:13 |
| Sulfide, Reactive | ND | mg/kg | 1 | | | | | | |
| Sample ID: C07081256-001CMS | Sample Matrix Spike | | | | | | | | Run: TITRATION_070824A 08/24/07 14:09 |
| Sulfide, Reactive | 812 | mg/kg | 20 | 107 | 80 | 120 | | | |
| Sample ID: C07081256-001CMSD | Sample Matrix Spike Duplicate | | | | | | | | Run: TITRATION_070824A 08/24/07 14:11 |
| Sulfide, Reactive | 748 | mg/kg | 20 | 99 | 80 | 120 | 8.2 | 20 | |
| Method: SW846 Ch 7 | | | | | | | | | Batch: B_28428 |
| Sample ID: MB-28428 | Method Blank | | | | | | | | Run: SUB-B98406 08/24/07 12:56 |
| Cyanide, Reactive | ND | mg/kg | 0.05 | | | | | | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit

QA/QC SUMMARY REPORT

Client: Giant Refining Company
 Project: Wier Box Clean-up

Work Order: 0708293

| Analyte | Result | Units | PQL | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|--------------------------------|--------|-------|------|------|----------|-----------|------|----------|------|
| Method: SW9056A | | | | | | | | | |
| Sample ID: MB-13724 | | MBLK | | | | | | | |
| Chloride | ND | mg/Kg | 0.30 | | | | | | |
| Sample ID: LCS-13724 | | LCS | | | | | | | |
| Chloride | 15.05 | mg/Kg | 0.30 | 100 | 90 | 110 | | | |
| Method: SW8015 | | | | | | | | | |
| Sample ID: MB-13693 | | MBLK | | | | | | | |
| Diesel Range Organics (DRO) | ND | mg/Kg | 10 | | | | | | |
| Motor Oil Range Organics (MRO) | ND | mg/Kg | 50 | | | | | | |
| Sample ID: LCS-13693 | | LCS | | | | | | | |
| Diesel Range Organics (DRO) | 42.00 | mg/Kg | 10 | 84.0 | 64.6 | 116 | | | |
| Sample ID: LCSD-13693 | | LCSD | | | | | | | |
| Diesel Range Organics (DRO) | 48.40 | mg/Kg | 10 | 96.8 | 64.6 | 116 | 14.2 | 17.4 | |
| Method: SW8015 | | | | | | | | | |
| Sample ID: MB-13673 | | MBLK | | | | | | | |
| Gasoline Range Organics (GRO) | ND | mg/Kg | 5.0 | | | | | | |
| Sample ID: LCS-13673 | | LCS | | | | | | | |
| Gasoline Range Organics (GRO) | 21.03 | mg/Kg | 5.0 | 84.1 | 69.5 | 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 Company
 Project: Wier Box Clean-up

Work Order: 0708293

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

Method: SW8270C

Sample ID: mb-13683

MBLK

Batch ID: 13683

Analysis Date:

8/24/2007

| | | | |
|-----------------------------|----|-------|------|
| Acenaphthene | ND | mg/Kg | 0.20 |
| Acenaphthylene | ND | mg/Kg | 0.20 |
| Aniline | ND | mg/Kg | 0.20 |
| Anthracene | ND | mg/Kg | 0.20 |
| Azobenzene | ND | mg/Kg | 0.20 |
| Benzo(a)anthracene | ND | mg/Kg | 0.25 |
| Benzo(a)pyrene | ND | mg/Kg | 0.20 |
| Benzo(b)fluoranthene | ND | mg/Kg | 0.20 |
| Benzo(g,h,i)perylene | ND | mg/Kg | 0.30 |
| Benzo(k)fluoranthene | ND | mg/Kg | 0.50 |
| Benzoic acid | ND | mg/Kg | 0.50 |
| Benzyl alcohol | ND | mg/Kg | 1.0 |
| Bis(2-chloroethoxy)methane | ND | mg/Kg | 0.50 |
| Bis(2-chloroethyl)ether | ND | mg/Kg | 0.25 |
| Bis(2-chloroisopropyl)ether | ND | mg/Kg | 0.50 |
| Bis(2-ethylhexyl)phthalate | ND | mg/Kg | 0.20 |
| 4-Bromophenyl phenyl ether | ND | mg/Kg | 0.25 |
| Butyl benzyl phthalate | ND | mg/Kg | 0.20 |
| Carbazole | ND | mg/Kg | 0.20 |
| 4-Chloro-3-methylphenol | ND | mg/Kg | 0.20 |
| 4-Chloroaniline | ND | mg/Kg | 0.20 |
| 2-Chloronaphthalene | ND | mg/Kg | 0.20 |
| 2-Chlorophenol | ND | mg/Kg | 0.20 |
| 4-Chlorophenyl phenyl ether | ND | mg/Kg | 0.20 |
| Chrysene | ND | mg/Kg | 0.20 |
| Di-n-butyl phthalate | ND | mg/Kg | 0.50 |
| Di-n-octyl phthalate | ND | mg/Kg | 0.50 |
| Dibenz(a,h)anthracene | ND | mg/Kg | 0.25 |
| Dibenzofuran | ND | mg/Kg | 0.50 |
| 1,2-Dichlorobenzene | ND | mg/Kg | 0.20 |
| 1,3-Dichlorobenzene | ND | mg/Kg | 0.20 |
| 1,4-Dichlorobenzene | ND | mg/Kg | 0.20 |
| 3,3'-Dichlorobenzidine | ND | mg/Kg | 0.20 |
| Diethyl phthalate | ND | mg/Kg | 0.20 |
| Dimethyl phthalate | ND | mg/Kg | 0.20 |
| 2,4-Dichlorophenol | ND | mg/Kg | 0.20 |
| 2,4-Dimethylphenol | ND | mg/Kg | 0.20 |
| 4,6-Dinitro-2-methylphenol | ND | mg/Kg | 0.50 |
| 2,4-Dinitrophenol | ND | mg/Kg | 0.50 |
| 2,4-Dinitrotoluene | ND | mg/Kg | 0.20 |
| 2,6-Dinitrotoluene | ND | mg/Kg | 0.20 |
| Fluoranthene | ND | mg/Kg | 0.20 |
| Fluorene | ND | mg/Kg | 0.20 |
| Hexachlorobenzene | ND | mg/Kg | 0.20 |

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 Company

Project: Wier Box Clean-up

Work Order: 0708293

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

Method: SW8270C

Sample ID: mb-13683

MBLK

Batch ID: 13683 Analysis Date: 8/24/2007

| | | | | | | | | | |
|---------------------------|----|-------|------|--|--|--|--|--|--|
| Hexachlorobutadiene | ND | mg/Kg | 0.20 | | | | | | |
| Hexachlorocyclopentadiene | ND | mg/Kg | 0.25 | | | | | | |
| Hexachloroethane | ND | mg/Kg | 0.50 | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | mg/Kg | 0.20 | | | | | | |
| Isophorone | ND | mg/Kg | 0.20 | | | | | | |
| 2-Methylnaphthalene | ND | mg/Kg | 0.20 | | | | | | |
| 2-Methylphenol | ND | mg/Kg | 0.20 | | | | | | |
| 3+4-Methylphenol | ND | mg/Kg | 0.20 | | | | | | |
| N-Nitrosodi-n-propylamine | ND | mg/Kg | 0.20 | | | | | | |
| N-Nitrosodiphenylamine | ND | mg/Kg | 0.20 | | | | | | |
| Naphthalene | ND | mg/Kg | 0.20 | | | | | | |
| 2-Nitroaniline | ND | mg/Kg | 0.50 | | | | | | |
| 3-Nitroaniline | ND | mg/Kg | 0.50 | | | | | | |
| 4-Nitroaniline | ND | mg/Kg | 0.25 | | | | | | |
| Nitrobenzene | ND | mg/Kg | 0.20 | | | | | | |
| 2-Nitrophenol | ND | mg/Kg | 0.20 | | | | | | |
| 4-Nitrophenol | ND | mg/Kg | 0.20 | | | | | | |
| Pentachlorophenol | ND | mg/Kg | 0.50 | | | | | | |
| Phenanthrene | ND | mg/Kg | 0.20 | | | | | | |
| Phenol | ND | mg/Kg | 0.20 | | | | | | |
| Pyrene | ND | mg/Kg | 0.20 | | | | | | |
| Pyridine | ND | mg/Kg | 0.50 | | | | | | |
| 1,2,4-Trichlorobenzene | ND | mg/Kg | 0.20 | | | | | | |
| 2,4,5-Trichlorophenol | ND | mg/Kg | 0.20 | | | | | | |
| 2,4,6-Trichlorophenol | ND | mg/Kg | 0.20 | | | | | | |

Sample ID: lcs-13683

LCS

Batch ID: 13683 Analysis Date: 8/24/2007

| | | | | | | | | | |
|---------------------------|--------|-------|------|------|------|-----|--|--|--|
| Acenaphthene | 1.178 | mg/Kg | 0.20 | 70.6 | 24 | 125 | | | |
| 4-Chloro-3-methylphenol | 2.423 | mg/Kg | 0.20 | 72.8 | 14.6 | 154 | | | |
| 2-Chlorophenol | 2.070 | mg/Kg | 0.20 | 62.2 | 13.3 | 149 | | | |
| 1,4-Dichlorobenzene | 0.9470 | mg/Kg | 0.20 | 56.7 | 23.6 | 118 | | | |
| 2,4-Dinitrotoluene | 1.079 | mg/Kg | 0.20 | 64.6 | 28 | 136 | | | |
| N-Nitrosodi-n-propylamine | 1.168 | mg/Kg | 0.20 | 69.9 | 28 | 114 | | | |
| 4-Nitrophenol | 2.414 | mg/Kg | 0.20 | 72.5 | 13.1 | 150 | | | |
| Pentachlorophenol | 2.790 | mg/Kg | 0.50 | 83.8 | 20.1 | 139 | | | |
| Phenol | 2.004 | mg/Kg | 0.20 | 60.2 | 17.3 | 141 | | | |
| Pyrene | 0.8817 | mg/Kg | 0.20 | 52.8 | 29 | 131 | | | |
| 1,2,4-Trichlorobenzene | 1.027 | mg/Kg | 0.20 | 61.5 | 17.9 | 126 | | | |

Sample ID: lcsd-13683

LCS D

Batch ID: 13683 Analysis Date: 8/24/2007

| | | | | | | | | | |
|---------------------------|--------|-------|------|------|------|-----|------|----|--|
| Acenaphthene | 1.074 | mg/Kg | 0.20 | 64.3 | 24 | 125 | 9.26 | 25 | |
| 4-Chloro-3-methylphenol | 2.289 | mg/Kg | 0.20 | 68.7 | 14.6 | 154 | 5.67 | 25 | |
| 2-Chlorophenol | 1.928 | mg/Kg | 0.20 | 57.9 | 13.3 | 149 | 7.10 | 25 | |
| 1,4-Dichlorobenzene | 0.9350 | mg/Kg | 0.20 | 56.0 | 23.6 | 118 | 1.28 | 25 | |
| 2,4-Dinitrotoluene | 1.008 | mg/Kg | 0.20 | 60.4 | 28 | 136 | 6.77 | 25 | |
| N-Nitrosodi-n-propylamine | 1.140 | mg/Kg | 0.20 | 68.3 | 28 | 114 | 2.40 | 25 | |

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 Company
 Project: Wier Box Clean-up

Work Order: 0708293

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

Method: SW8270C

| | | | | | | | | | |
|------------------------|--------|-------|------|------|-----------------|-----|--------------------------|----|--|
| Sample ID: lcsd-13683 | | LCS | | | Batch ID: 13683 | | Analysis Date: 8/24/2007 | | |
| 4-Nitrophenol | 2.248 | mg/Kg | 0.20 | 67.5 | 13.1 | 150 | 7.11 | 25 | |
| Pentachlorophenol | 2.514 | mg/Kg | 0.50 | 75.5 | 20.1 | 139 | 10.4 | 25 | |
| Phenol | 1.831 | mg/Kg | 0.20 | 55.0 | 17.3 | 141 | 9.06 | 25 | |
| Pyrene | 1.026 | mg/Kg | 0.20 | 61.4 | 29 | 131 | 15.1 | 25 | |
| 1,2,4-Trichlorobenzene | 0.9390 | mg/Kg | 0.20 | 56.2 | 17.9 | 126 | 6.98 | 25 | |

Method: SW7471

| | | | | | | | | | |
|----------------------------|--------|-------|-------|------|-----------------|-----|-------------------------------------|----|----|
| Sample ID: 0708293-01C MSD | | MSD | | | Batch ID: 13711 | | Analysis Date: 8/28/2007 3:31:03 PM | | |
| Mercury | 0.2973 | mg/Kg | 0.033 | 14.6 | 75 | 125 | 42.6 | 20 | SR |
| Sample ID: 0708293-01C MSD | | MSD | | | Batch ID: 13725 | | Analysis Date: 8/29/2007 3:59:22 PM | | |
| Mercury | 0.3122 | mg/Kg | 0.033 | 91.5 | 75 | 125 | 0.808 | 20 | |
| Sample ID: MB-13725 | | MBLK | | | Batch ID: 13725 | | Analysis Date: 8/29/2007 3:53:07 PM | | |
| Mercury | ND | mg/Kg | 0.033 | | | | | | |
| Sample ID: LCS-13725 | | LCS | | | Batch ID: 13725 | | Analysis Date: 8/29/2007 3:54:40 PM | | |
| Mercury | 0.1640 | mg/Kg | 0.033 | 98.4 | 80 | 120 | | | |
| Sample ID: 0708293-01C MS | | MS | | | Batch ID: 13711 | | Analysis Date: 8/28/2007 3:29:21 PM | | |
| Mercury | 0.4584 | mg/Kg | 0.033 | 112 | 75 | 125 | | | |
| Sample ID: 0708293-01C MS | | MS | | | Batch ID: 13725 | | Analysis Date: 8/29/2007 3:57:48 PM | | |
| Mercury | 0.3097 | mg/Kg | 0.033 | 90.3 | 75 | 125 | | | |

Method: SW6010A

| | | | | | | | | | |
|----------------------|-------|-------|------|------|-----------------|-----|--------------------------------------|--|--|
| Sample ID: MB-13722 | | MBLK | | | Batch ID: 13722 | | Analysis Date: 8/30/2007 1:26:32 PM | | |
| Arsenic | ND | mg/Kg | 2.5 | | | | | | |
| Barium | ND | mg/Kg | 0.10 | | | | | | |
| Cadmium | ND | mg/Kg | 0.10 | | | | | | |
| Chromium | ND | mg/Kg | 0.30 | | | | | | |
| Selenium | ND | mg/Kg | 2.5 | | | | | | |
| Silver | ND | mg/Kg | 0.25 | | | | | | |
| Sample ID: MB-13722 | | MBLK | | | Batch ID: 13722 | | Analysis Date: 8/30/2007 2:53:31 PM | | |
| Lead | ND | mg/Kg | 0.25 | | | | | | |
| Sample ID: LCS-13722 | | LCS | | | Batch ID: 13722 | | Analysis Date: 8/30/2007 12:29:06 PM | | |
| Arsenic | 24.95 | mg/Kg | 2.5 | 99.8 | 80 | 120 | | | |
| Barium | 24.79 | mg/Kg | 0.10 | 99.1 | 80 | 120 | | | |
| Cadmium | 25.06 | mg/Kg | 0.10 | 100 | 80 | 120 | | | |
| Chromium | 25.36 | mg/Kg | 0.30 | 101 | 80 | 120 | | | |
| Selenium | 26.00 | mg/Kg | 2.5 | 104 | 80 | 120 | | | |
| Silver | 25.12 | mg/Kg | 0.25 | 100 | 80 | 120 | | | |
| Sample ID: LCS-13722 | | LCS | | | Batch ID: 13722 | | Analysis Date: 8/30/2007 2:20:56 PM | | |
| Lead | 23.42 | mg/Kg | 0.25 | 92.9 | 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 Company
 Project: Wier Box Clean-up

Work Order: 0708293

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

Method: SW8260B

Sample ID: MB-13673

MBLK

Batch ID: 13673 Analysis Date: 8/25/2007 21:18 PM

| | | | | | | | | | |
|--------------------------------|----|-------|-------|--|--|--|--|--|--|
| Benzene | ND | mg/Kg | 0.050 | | | | | | |
| Toluene | ND | mg/Kg | 0.050 | | | | | | |
| Ethylbenzene | ND | mg/Kg | 0.050 | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | mg/Kg | 0.050 | | | | | | |
| 1,2,4-Trimethylbenzene | ND | mg/Kg | 0.050 | | | | | | |
| 1,3,5-Trimethylbenzene | ND | mg/Kg | 0.050 | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | mg/Kg | 0.050 | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | mg/Kg | 0.050 | | | | | | |
| Naphthalene | ND | mg/Kg | 0.10 | | | | | | |
| 1-Methylnaphthalene | ND | mg/Kg | 0.20 | | | | | | |
| 2-Methylnaphthalene | ND | mg/Kg | 0.20 | | | | | | |
| Acetone | ND | mg/Kg | 0.75 | | | | | | |
| Bromobenzene | ND | mg/Kg | 0.050 | | | | | | |
| Bromochloromethane | ND | mg/Kg | 0.050 | | | | | | |
| Bromodichloromethane | ND | mg/Kg | 0.050 | | | | | | |
| Bromoform | ND | mg/Kg | 0.050 | | | | | | |
| Bromomethane | ND | mg/Kg | 0.10 | | | | | | |
| 2-Butanone | ND | mg/Kg | 0.50 | | | | | | |
| Carbon disulfide | ND | mg/Kg | 0.50 | | | | | | |
| Carbon tetrachloride | ND | mg/Kg | 0.10 | | | | | | |
| Chlorobenzene | ND | mg/Kg | 0.050 | | | | | | |
| Chloroethane | ND | mg/Kg | 0.10 | | | | | | |
| Chloroform | ND | mg/Kg | 0.050 | | | | | | |
| Chloromethane | ND | mg/Kg | 0.050 | | | | | | |
| 2-Chlorotoluene | ND | mg/Kg | 0.050 | | | | | | |
| 4-Chlorotoluene | ND | mg/Kg | 0.050 | | | | | | |
| cis-1,2-DCE | ND | mg/Kg | 0.050 | | | | | | |
| cis-1,3-Dichloropropene | ND | mg/Kg | 0.050 | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | mg/Kg | 0.10 | | | | | | |
| Dibromochloromethane | ND | mg/Kg | 0.050 | | | | | | |
| Dibromomethane | ND | mg/Kg | 0.10 | | | | | | |
| 1,2-Dichlorobenzene | ND | mg/Kg | 0.050 | | | | | | |
| 1,3-Dichlorobenzene | ND | mg/Kg | 0.050 | | | | | | |
| 1,4-Dichlorobenzene | ND | mg/Kg | 0.050 | | | | | | |
| Dichlorodifluoromethane | ND | mg/Kg | 0.050 | | | | | | |
| 1,1-Dichloroethane | ND | mg/Kg | 0.10 | | | | | | |
| 1,1-Dichloroethene | ND | mg/Kg | 0.050 | | | | | | |
| 1,2-Dichloropropane | ND | mg/Kg | 0.050 | | | | | | |
| 1,3-Dichloropropane | ND | mg/Kg | 0.050 | | | | | | |
| 2,2-Dichloropropane | ND | mg/Kg | 0.10 | | | | | | |
| 1,1-Dichloropropene | ND | mg/Kg | 0.10 | | | | | | |
| Hexachlorobutadiene | ND | mg/Kg | 0.10 | | | | | | |
| 2-Hexanone | ND | mg/Kg | 0.50 | | | | | | |
| Isopropylbenzene | ND | mg/Kg | 0.050 | | | | | | |

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 Company

Project: Wier Box Clean-up

Work Order: 0708293

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

Method: SW8260B

Sample ID: MB-13673

MBLK

Batch ID: 13673 Analysis Date: 8/25/2007 2:11:18 PM

| | | | |
|---------------------------|----|-------|-------|
| 4-Isopropyltoluene | ND | mg/Kg | 0.050 |
| 4-Methyl-2-pentanone | ND | mg/Kg | 0.50 |
| Methylene chloride | ND | mg/Kg | 0.15 |
| n-Butylbenzene | ND | mg/Kg | 0.050 |
| n-Propylbenzene | ND | mg/Kg | 0.050 |
| sec-Butylbenzene | ND | mg/Kg | 0.050 |
| Styrene | ND | mg/Kg | 0.050 |
| tert-Butylbenzene | ND | mg/Kg | 0.050 |
| 1,1,1,2-Tetrachloroethane | ND | mg/Kg | 0.050 |
| 1,1,2,2-Tetrachloroethane | ND | mg/Kg | 0.050 |
| Tetrachloroethene (PCE) | ND | mg/Kg | 0.050 |
| trans-1,2-DCE | ND | mg/Kg | 0.050 |
| trans-1,3-Dichloropropene | ND | mg/Kg | 0.050 |
| 1,2,3-Trichlorobenzene | ND | mg/Kg | 0.10 |
| 1,2,4-Trichlorobenzene | ND | mg/Kg | 0.050 |
| 1,1,1-Trichloroethane | ND | mg/Kg | 0.050 |
| 1,1,2-Trichloroethane | ND | mg/Kg | 0.050 |
| Trichloroethene (TCE) | ND | mg/Kg | 0.050 |
| Trichlorofluoromethane | ND | mg/Kg | 0.050 |
| 1,2,3-Trichloropropane | ND | mg/Kg | 0.10 |
| Vinyl chloride | ND | mg/Kg | 0.050 |
| Xylenes, Total | ND | mg/Kg | 0.10 |

Sample ID: LCS-13673

LCS

Batch ID: 13673 Analysis Date: 8/25/2007 2:47:06 PM

| | | | | | | |
|-----------------------|--------|-------|-------|------|------|-----|
| Benzene | 1.002 | mg/Kg | 0.050 | 100 | 78.2 | 123 |
| Toluene | 0.9685 | mg/Kg | 0.050 | 96.8 | 72.6 | 128 |
| Chlorobenzene | 1.018 | mg/Kg | 0.050 | 102 | 82.2 | 116 |
| 1,1-Dichloroethene | 1.092 | mg/Kg | 0.050 | 109 | 64.9 | 132 |
| Trichloroethene (TCE) | 0.9958 | mg/Kg | 0.050 | 99.6 | 65.1 | 108 |

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:

8/22/07

Work Order Number 0708293

Received by TLS

Checklist completed by

May [Signature]
Signature

8/22/07
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 - Preservation labels on bottle and cap match? Yes No N/A
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature?

16°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Per Jim changed sample id to WB Soil. T3 8/22/07

Corrective Action

CHAIN-OF-CUSTODY RECORD

QA/QC Package:
 Std Level 4
 Other: _____

Client: Western Refining/Gallup
Gallup Refinery

Project Name: Wier Box Clean-up

Address: Rt 3 Box 7
Gallup NM 87301

Project #:

Jlieb@giant.com
cjohnson@giant.com

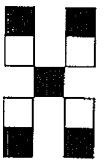
Project Manager: Ed Riege

Phone #: 505-722-0231

Sampler: J Lieb & C Johnson

Fax #: 505-722-0210

Sample Temperature: 16°



HALL ENVIRONMENTAL ANALYSIS LABORATORY
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 Albuquerque, New Mexico 87109
 Tel. 505.345.3975 Fax 505.345.4107
 www.hallenvironmental.com

ANALYSIS REQUEST

| Date | Time | Matrix | Sample I.D. No. | Number/Volume | Preservative | | | HEAL No. | BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gasoline Only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 41B.1) | EDB (Method 504.1) | EDC (Method 8021) | 8810 (PNA or PAH) | RCRA 8 Metals | Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄) | 8081 Pesticides / PCB's (8082) | 8260B (VOA) | 8270 (Semi-VOA) | Corrosivity, PH, Fugitives Electrode point | Reactivity, Cyanide, Sulf | 9056A Chloride | Air Bubbles or Headspace (Y or N) |
|---------|------|--------|---------------------------------------|---------------|-------------------|------------------|--|----------|----------------------------|-----------------------------------|-------------------------------|--------------------|--------------------|-------------------|-------------------|---------------|--|--------------------------------|-------------|-----------------|---|---------------------------|----------------|-----------------------------------|
| | | | | | HgCl ₂ | HNO ₃ | | | | | | | | | | | | | | | | | | |
| 8/20/07 | 0755 | Soil | WB Comp. | 4/4oz | | none | | 0108293 | | | X | | | | | | | | | | X | X | X | |
| 8/20/07 | 0755 | Soil | WB DISE Soil ¹⁷ | 4/4oz | | none | | 2 | | | | | | | | | | X | | | | | X | |

Date: 8/20/07 Time: 1010
 Relinquished By: (Signature) _____

Received By: (Signature) Jmrc 8/22/07
 Received By: (Signature) _____

Remarks: Rush Analysis