

GW - 32

**GENERAL
CORRESPONDENCE**

YEAR(S):

9/05 → 8/05

From: James Romero [mailto:jromero@giant.com]

Sent: Tue 9/6/2005 9:52 AM

To: James Romero; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD

Cc: Steve Morris

Subject: RE: Spill Report (daily update for 8/

Daily update for Sept 2,3,4, and 5

I was out of the office on Friday for the holiday weekend. Below is a summary of the weekend activities

- 1) 58 trucks of wastewater/oilywater removed over the weekend
- 2) 400 barrels of slop oil was removed from east tank (55,000 barrel tank) and reintroduced
- 3) Visual inspections over the weekend were good

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From: James Romero

Sent: Thursday, September 01, 2005 3:10 PM

To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us'

Cc: Steve Morris

Subject: RE: Spill Report (daily update for 8/

Daily update for 9/1/05

- 1) Continued to clean ponds
- 2) All equipment and material has been scheduled for receipt on or before 10 September 2005
- 3) All new instrumentation has been specified and material requests have been submitted to purchasing
- 4) All new electrical equipment and materials have been specified and material requests have been submitted to purchasing
- 5) Maintenance work on API bay east bay is underway to repair sludge roller
- 6) Visual inspections thru the night were good

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From: James Romero

Sent: Wednesday, August 31, 2005 3:04 PM

To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us'

Cc: Steve Morris

Subject: RE: Spill Report (daily update for 8/

Daily update for 8/31/05

- 1) Removed 17 trucks of water at the 55,000 barrel tanks
- 2) Utilized a 200 barrel truck (underway) to remove sludge from other tank, this will be reintroduced
- 3) visual inspections thru the night were good

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Cc: Steve Morris

Subject: RE: Spill Report (daily update for 8/

Daily update for 8/30/05

- 1) New techniques were used today in an effort to suck more oil and less water
- 2) Water is being drained from the water tank and is being put back into the system
- 3) The oil tank will be pumped out later this week and oil reintroduced into the process
- 4) Conducted our second weekly grab sample per NMED (test results on the first sample have not been received)
- 5) Visual inspection thru the night were good

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From: James Romero
Sent: Monday, August 29, 2005 2:37 PM
To: James Romero; 'Price, Wayne, EMNRD';
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Cc: Steve Morris
Subject: RE: Spill Report (daily update for 8/

Daily update for 8/29/05

- 1) Riley is continuing operations to clean ponds
- 2) Water is now being removed from 55,000 barrel tanks and sent back to API
As of 28Aug05 61 trucks (60barrels/each) of water has been removed from tanks
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Attached are spreadsheets showing truck numbers for pond clean out water from tanks to API

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'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us'
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From: James Romero
Sent: Thursday, August 18, 2005 3:17 PM
To: 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'
Cc: Ed Riege; Steve Morris; James Romero; Johnny Sanchez
Subject: RE: Spill Report (daily update for 8/18/05)

Daily update for 8/18/05

- 1) Riley started operations to clean ponds, approximately 4000 barrels were removed today
- 2) Visual inspections thru the night were all good
- 3) Started release of water from lower storm water basin
- 4) Completed spill/remediation plan (should go out tomorrow Friday)

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From: Price, Wayne, EMNRD
[mailto:wayne.price@state.nm.us]
Sent: Thursday, August 18, 2005 7:30 AM

To: James Romero
Cc: Ed Rios; Ed Riege; Steve Morris; Johnny Sanchez; David Kirby
Subject: RE: Spill Report (daily update for 8/17/05)

OCD hereby approves of your request.

Please be advised that NMOCD approval of this request does not relieve (Giant) of responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (Giant) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Wayne Price-Senior Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3487
Fax: 505-4763462

From: James Romero
[mailto:jromero@giant.com]
Sent: Wed 8/17/2005 12:27 PM
To: Price, Wayne, EMNRD
Cc: Ed Rios; Ed Riege; Steve Morris; Johnny Sanchez; David Kirby
Subject: RE: Spill Report (daily update for 8/17/05)

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Per OCD's condition here is our daily update:

1) We just received the lab results (via telephone) on Storm water Outfall #1

Benzene	ND
EthylBen	ND
Toluene	.35ppb
Xylene	2.1ppb

With these tests results, and due to the fact the lower storm water basin is at capacity, we'd like your approval to release water off property.

2) Riley Industrial is onsite and unplugging the process sewer lines to the weir box.

3) The outlet to the upper storm water basin has been plugged to contain the spill

If you have any questions please feel free to call me anytime, James

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[mailto:wayne.price@state.nm.us]
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Romero; Monzeglio, Hope,
NMENV;
foust.denny@state.nm.us
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Subject: RE: Spill Report

Wayne Price-Senior
Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail
wayne.price@state.nm.us
Tele: 505-476-3487
Fax: 505-4763462

From: Price, Wayne, EMNRD
Sent: Tue 8/16/2005 8:59 AM
To: James Romero; Monzeglio,
Hope, NMENV;
'foust.denny@state.nm.us'
Cc: Ed Riege; Steve Morris;
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Subject: RE: Spill Report

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Wayne,

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properly (20-30% capacity) which
resulted in a reportable discharge
into our
aeration lagoons. Samples were
gathered and lab results were
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on Lagoon 2, and Evap Pond 1
(see below). I will follow up this
email with
a formal C-141 spill report.
Moreover, I will submit pics, lab
results, and
a site map, etc.

However, as an interim measure,
and with your approval, we are
taking the
following actions:

- (1) Vac-trucks will be used to
pump and clean out the aeration
lagoons/API
sump
- (2) Interim emergency storage of
material within two 55,000 barrel

ks

located on western part of the property (map will follow hard copy).

(3) A chopper pump will be installed and has been ordered (replacement of old API pump)

LAB RESULTS

Lagoon 2	Evap Pond 1
MTBE	88 ppb
60 ppb	
Benzene	306 ppb
1000 ppb	
Toluene	8.7 ppb
76 ppb	
Ethylbenzene	<2.5
ppb	<10.0 ppb

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Price, Wayne, EMNRD

From: Monzeglio, Hope, NMENV
To: Steve Morris
Cc: Price, Wayne, EMNRD
Subject: RE: Ground water samples 2005
Attachments:

Sent: Fri 9/2/2005 12:30 PM

Steve

Thanks for your response.

Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 428-2545
Fax: (505)-428-2567
hope.monzeglio@state.nm.us

From: Steve Morris [mailto:smorris@giant.com]
Sent: Fri 9/2/2005 9:01 AM
To: Monzeglio, Hope, NMENV
Subject: RE: Ground water samples 2005

Hope,
The MW wells were prepurged the weeks of 7/21/05 and 7/25/05.
These three wells range from MW-5 at 258 gallons to get three
well volumes to MW-1 at 382 gallons to get three well volumes.
Normally I would prepurge down to about 50 gallons each, then
do the final purges at the time of sampling.
This is how it has been done when sampling can occur within a
few days of prepurging.
When sampling can't be gotten to soon after purging, I have to
start over and repurge.
This time around it looks like repurging will have to be done.
Let me know if this answers your question.
Thanks, Steve

-----Original Message-----

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Thursday, September 01, 2005 1:08 PM
To: Steve Morris
Cc: Price, Wayne, EMNRD
Subject: RE: Ground water samples 2005

Steve

When were the wells purged last or are you purging when you sample the week of Sept. 6-9?

Thanks

Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 428-2545
Fax: (505)-428-2567

From: Steve Morris [mailto:smorris@giant.com]
Sent: Thu 9/1/2005 11:35 AM
To: Monzeglio, Hope, NMENV; Price, Wayne, EMNRD
Subject: Ground water samples 2005

Hope and Wayne,
Due to circumstances beyond my control, it has been impossible for me to get the Ciniza Ground water samples done as yet. Things such as the Railroad rack lagoon excavation and API separator issues have contributed to the lack of time available. After discussing our priorities with My Boss (Ed Riege) this morning, we are targeting the week of Sept. 6 thru 9 to get as many of the wells done as we can. Hopefully all MWs, OWs, and SMWs will be completed by the ninth.
Thanks, Steve Morris

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- (1) Vac-trucks will be used to pump and clean out the aeration lagoons/API sump
- (2) Interim emergency storage of material within two 55,000

barrel tanks

located on western part of the property (map will follow hard copy).

(3) A chopper pump will be installed and has been ordered (replacement of old API pump)

LAB RESULTS	Lagoon 2	Evap Pond 1
MTBE	88 ppb	60 ppb
Benzene	306 ppb	1000 ppb
Toluene	8.7 ppb	76 ppb
Ethylbenzene	<2.5 ppb	<10.0 ppb

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Price, Wayne, EMNRD

From: James Romero [jromero@giant.com] **Sent:** Thu 9/1/2005 4:09 PM
To: James Romero; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD
Cc: Steve Morris
Subject: RE: Spill Report (daily update for 8/
Attachments:  API Clean Up 29Aug05.xls(24KB)

Daily update for 9/1/05

- 1) Continued to clean ponds
- 2) All equipment and material has been scheduled for receipt on or before 10 September 2005
- 3) All new instrumentation has been specified and material requests have been submitted to purchasing
- 4) All new electrical equipment and materials have been specified and material requests have been submitted to purchasing
- 5) Maintenance work on API bay east bay is underway to repair sludge roller
- 6) Visual inspections thru the night were good

-----Original Message-----

From: James Romero
Sent: Wednesday, August 31, 2005 3:04 PM
To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us'
Cc: Steve Morris
Subject: RE: Spill Report (daily update for 8/

Daily update for 8/31/05

- 1) Removed 17 trucks of water at the 55,000 barrel tanks
- 2) Utilized a 200 barrel truck (underway) to remove sludge from other tank, this will be reintroduced
- 3) visual inspections thru the night were good

-----Original Message-----

From: James Romero
Sent: Tuesday, August 30, 2005 3:13 PM
To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us'
Cc: Steve Morris
Subject: RE: Spill Report (daily update for 8/

Daily update for 8/30/05

- 1) New techniques were used today in an effort to suck more oil and less water
- 2) Water is being drained from the water tank and is being put back into the api system
- 3) The oil tank will be pumped out later this week and oil reintroduced into the process
- 4) Conducted our second weekly grab sampled per NMED (tests results on the first sample have not been received)
- 5) visual inspection thru the night were good

-----Original Message-----

From: James Romero
Sent: Monday, August 29, 2005 2:37 PM
To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us'
Cc: Steve Morris
Subject: RE: Spill Report (daily update for 8/

Daily update for 8/29/05

- 1) Riley is continuing operations to clean ponds
- 2) Water is now being removed from 55,000 barrel tanks and sent back to API
As of 28Aug05 61 trucks (60barrels/each) of water has been removed from tanks
- 3) Visual Inspections thru the weekend and night were good

Attached are spreadsheets showing truck numbers for pond clean out and water from tanks to api

-----Original Message-----

From: James Romero

Sent: Tuesday, August 23, 2005 2:57 PM

To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us'

Cc: Steve Morris

Subject: RE: Spill Report (daily update for 8/22/05 and 8/23/05)

Attached is a spreadsheet showing our daily truck counts for 8/22. Moreover, all operations to clean the ponds are moving forward and making progress. Continued visual inspections during nighttime hours have not documented any new spills around the API.

-----Original Message-----

From: James Romero

Sent: Thursday, August 18, 2005 3:17 PM

To: 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'

Cc: Ed Riege; Steve Morris; James Romero; Johnny Sanchez

Subject: RE: Spill Report (daily update for 8/18/05)

Daily update for 8/18/05

- 1) Riley started operations to clean ponds, approximately 4000 barrels were removed today
- 2) Visual inspections thru the night were all good
- 3) Started release of water from lower storm water basin
- 4) Completed spill/remediation plan (should go out tomorrow Friday)

-----Original Message-----

From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us]

Sent: Thursday, August 18, 2005 7:30 AM

To: James Romero

Cc: Ed Rios; Ed Riege; Steve Morris; Johnny Sanchez; David Kirby

Subject: RE: Spill Report (daily update for 8/17/05)

OCD hereby approves of your request.

Please be advised that NMOCD approval of this request does not relieve (Giant) of responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (Giant) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Wayne Price-Senior Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3487
Fax: 505-4763462

From: James Romero [mailto:jromero@giant.com]

Sent: Wed 8/17/2005 12:27 PM

To: Price, Wayne, EMNRD

Cc: Ed Rios; Ed Riege; Steve Morris; Johnny Sanchez; David Kirby

Subject: RE: Spill Report (daily update for 8/17/05)

Wayne, Hope:

Per OCD's condition here is our daily update:

- 1) We just received the lab results (via telephone) on Storm water Outfall #1
Benzene ND

EthylBen ND
Toluene .35ppb
Xylene 2.1ppb

With these tests results, and due to the fact the lower storm water basin is at capacity, we'd like your approval to release water off property.

- 2) Riley Industrial is onsite and unplugging the process sewer lines to the weir box.
- 3) The outlet to the upper storm water basin has been plugged to contain the spill

If you have any questions please feel free to call me anytime, James

-----Original Message-----

From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us]
Sent: Tuesday, August 16, 2005 8:01 AM
To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

Wayne Price-Senior Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3487
Fax: 505-4763462

From: Price, Wayne, EMNRD
Sent: Tue 8/16/2005 8:59 AM
To: James Romero; Monzeglio, Hope, NMENV; 'foust.denny@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

OCD hereby approves of the emergency actions with the following conditions:

1. All water sales from the ponds shall cease, unless approved by OCD.
2. No stormwater shall be released that exceeds the WQCC standards.
3. The emergency actions shall be continuous (24 hour) until API problem is correct.
4. A daily E-mail report shall be submitted until emergency is over.
5. Giant shall isolate the other ponds, if possible during the emergency condition.

Please be advised that NMOCD approval of this plan does not relieve (Giant) of responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (Giant) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Wayne Price-Senior Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3487
Fax: 505-4763462

From: James Romero [mailto:jromero@giant.com]
Sent: Mon 8/15/2005 5:12 PM
To: Price, Wayne, EMNRD; Monzeglio, Hope, NMENV;
'foust.denny@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: Spill Report

Wayne,

As we discussed via telephone today, our API pump motor is not working properly (20-30% capacity) which resulted in a reportable discharge into our aeration lagoons. Samples were gathered and lab results were received today on Lagoon 2, and Evap Pond 1 (see below). I will follow up this email with a formal C-141 spill report. Moreover, I will submit pics, lab results, and a site map, etc.

However, as an interim measure, and with your approval, we are taking the following actions:

- (1) Vac-trucks will be used to pump and clean out the aeration lagoons/API sump
- (2) Interim emergency storage of material within two 55,000 barrel tanks located on western part of the property (map will follow hard copy).
- (3) A chopper pump will be installed and has been ordered (replacement of old API pump)

LAB RESULTS	Lagoon 2	Evap Pond 1
MTBE	88 ppb	60 ppb
Benzene	306 ppb	1000 ppb
Toluene	8.7 ppb	76 ppb
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API AND POND CLEAN UP

29-Aug-05

	Start					Stop
Truck 129	9:48AM					9:56AM
Truck 130	10:00AM					10:07AM
Truck 131	10:14AM					10:23AM
Truck 132	10:28AM					10:36AM
Truck 133	11:00AM					11:10AM
Truck 134	11:26AM					11:36AM
Truck 135	1:19PM					1:30PM
Truck 136	1:35PM					1:40PM
Truck 137	1:59PM					2:08PM
Truck 138	3:57PM					4:03PM
Truck 139	4:05PM					4:14PM
Truck 140	4:20PM					4:28PM
Truck 141	4:31PM					4:39PM
Truck 142	4:45PM					4:53PM
Truck 143	4:55PM					5:08PM
Truck 144	5:09PM					5:20PM
Truck 145	5:22PM					5:32PM
Truck 146	5:33PM					5:48PM
Truck 147	5:50PM					5:59PM
Truck 148	6:15PM					6:24PM
Truck 149	6:27PM					6:37PM
Truck 150	6:42PM					6:50PM

Sludge into Tank

Price, Wayne, EMNRD

From: James Romero [jromero@giant.com]
To: Monzeglio, Hope, NMENV; Ed Riege; James Romero
Cc: Cobrain, Dave, NMENV; Price, Wayne, EMNRD; Steve Morris
Subject: RE: Spill sampling (Week One Summary)
Attachments:  [aea2intopond1.pdf\(771KB\)](#)

Sent: Thu 9/1/2005 10:45 AM

Hope

This is an update per your August 22, 2005 request. On August 23, 2005 we took our first grab sample from aeration lagoon 2 into evaporation pond 1. The sample was rushed to the lab and expedited results were ordered. Tests ordered were RCRA Metals (total and dissolved), 8270, and 8021. Results were received September 1, 2005 (see attached lab results) and show numbers below the regulatory threshold for all parameters. A second grab sample was taken on August 30, 2005 with expedited lab results requested.

The rate of flow from the aeration lagoon into evaporation pond 1 was calculated as follows:

42gpm from boiler into evaporation pond 2
156gpm total flow
114gpm from lagoon 2 into evaporation pond 1

Calculating the volume of oil spilled vs. water released by taken from recovered amounts to date. We do not have an accurate method for calculating the amount of oil vs. water in the pond.

Numbers are as of 8/31/05

150 trucks @ 80 barrels/each = 12,000 gallons (water and oil)
117 trucks @ 80 barrels/each = 9360 gallons (water removed)
33 trucks @ 80 barrels/each = 2,640 gallons (slop oil)
2,640/42.5 = 62 barrels

Water recovered is being reintroduced into the API process and the oil slop is being trucked and re-fed into the system. If you have any questions regarding this email or the lab results, please don't hesitate to call me

-----Original Message-----

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Monday, August 22, 2005 1:11 PM
To: eriege@giant.com; jromero@giant.com
Cc: Cobrain, Dave, NMENV; Price, Wayne, EMNRD
Subject: Spill sampling

James

I am following up with an email from our phone conversation pertaining to the spill.

1. All sampling results, hazardous waste determinations, and waste disposal activities must be documented and submitted to NMED.
2. Giant must collect samples of effluent discharged from Aeration Lagoon 2 to Evaporation Pond 1 on a weekly basis until four weeks after the API Separator repair and monthly thereafter. Giant must submit the samples for analytical analysis to include: EPA Method 8270, EPA Method 8021 (BTEX), and priority pollutant metals (totals and dissolved). After receiving the analytical results from the first two sampling events, the required analytical analyses will be revisited and possibly modified. Giant must also provide NMED with the flow rate from Aeration Lagoon 2 to Evaporation Pond 1.
3. Giant must calculate the volume of oil spilled and water released during the spill events.

If you have any questions please give me a call.

Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1

Santa Fe NM 87505
Phone: (505) 428-2545
Fax: (505)-428-2567
hope.monzeglio@state.nm.us

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Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: AL-2 to EP-1

Lab Order: 0508271

Collection Date: 8/23/2005 11:00:00 AM

Project: Aeration Lagoon 2 Outlet to Evap Pond 1

Lab ID: 0508271-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: BDH
Benzene	ND	10		µg/L	10	8/30/2005
Toluene	ND	10		µg/L	10	8/30/2005
Ethylbenzene	ND	10		µg/L	10	8/30/2005
Methyl tert-butyl ether (MTBE)	31	10		µg/L	10	8/30/2005
1,2,4-Trimethylbenzene	57	10		µg/L	10	8/30/2005
1,3,5-Trimethylbenzene	13	10		µg/L	10	8/30/2005
Xylenes, Total	35	10		µg/L	10	8/30/2005
Surr: 1,2-Dichloroethane-d4	93.1	85.3-113		%REC	10	8/30/2005
Surr: 4-Bromofluorobenzene	106	86.1-121		%REC	10	8/30/2005
Surr: Dibromofluoromethane	96.1	80.4-115		%REC	10	8/30/2005
Surr: Toluene-d8	114	84.7-111	S	%REC	10	8/30/2005
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	50		µg/L	1	8/29/2005
Acenaphthylene	ND	50		µg/L	1	8/29/2005
Aniline	ND	50		µg/L	1	8/29/2005
Anthracene	ND	50		µg/L	1	8/29/2005
Azobenzene	ND	50		µg/L	1	8/29/2005
Benz(a)anthracene	ND	75		µg/L	1	8/29/2005
Benzo(a)pyrene	ND	50		µg/L	1	8/29/2005
Benzo(b)fluoranthene	ND	50		µg/L	1	8/29/2005
Benzo(g,h,i)perylene	ND	50		µg/L	1	8/29/2005
Benzo(k)fluoranthene	ND	50		µg/L	1	8/29/2005
Benzoic acid	ND	250		µg/L	1	8/29/2005
Benzyl alcohol	ND	100		µg/L	1	8/29/2005
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	8/29/2005
Bis(2-chloroethyl)ether	ND	75		µg/L	1	8/29/2005
Bis(2-chloroisopropyl)ether	ND	75		µg/L	1	8/29/2005
Bis(2-ethylhexyl)phthalate	ND	75		µg/L	1	8/29/2005
4-Bromophenyl phenyl ether	ND	50		µg/L	1	8/29/2005
Butyl benzyl phthalate	ND	75		µg/L	1	8/29/2005
Carbazole	ND	50		µg/L	1	8/29/2005
4-Chloro-3-methylphenol	ND	100		µg/L	1	8/29/2005
4-Chloroaniline	ND	100		µg/L	1	8/29/2005
2-Chloronaphthalene	ND	50		µg/L	1	8/29/2005
2-Chlorophenol	ND	50		µg/L	1	8/29/2005
4-Chlorophenyl phenyl ether	ND	75		µg/L	1	8/29/2005
Chrysene	ND	75		µg/L	1	8/29/2005
Di-n-butyl phthalate	ND	50		µg/L	1	8/29/2005
Di-n-octyl phthalate	ND	75		µg/L	1	8/29/2005
Dibenz(a,h)anthracene	ND	50		µg/L	1	8/29/2005

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

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

Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: AL-2 to EP-1

Lab Order: 0508271

Collection Date: 8/23/2005 11:00:00 AM

Project: Aeration Lagoon 2 Outlet to Evap Pond 1

Lab ID: 0508271-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: BDH
Benzene	ND	10		µg/L	10	8/30/2005
Toluene	ND	10		µg/L	10	8/30/2005
Ethylbenzene	ND	10		µg/L	10	8/30/2005
Methyl tert-butyl ether (MTBE)	31	10		µg/L	10	8/30/2005
1,2,4-Trimethylbenzene	57	10		µg/L	10	8/30/2005
1,3,5-Trimethylbenzene	13	10		µg/L	10	8/30/2005
Xylenes, Total	35	10		µg/L	10	8/30/2005
Surr: 1,2-Dichloroethane-d4	93.1	85.3-113		%REC	10	8/30/2005
Surr: 4-Bromofluorobenzene	106	86.1-121		%REC	10	8/30/2005
Surr: Dibromofluoromethane	96.1	80.4-115		%REC	10	8/30/2005
Surr: Toluene-d8	114	84.7-111	S	%REC	10	8/30/2005
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	50		µg/L	1	8/29/2005
Acenaphthylene	ND	50		µg/L	1	8/29/2005
Aniline	ND	50		µg/L	1	8/29/2005
Anthracene	ND	50		µg/L	1	8/29/2005
Azobenzene	ND	50		µg/L	1	8/29/2005
Benz(a)anthracene	ND	75		µg/L	1	8/29/2005
Benzo(a)pyrene	ND	50		µg/L	1	8/29/2005
Benzo(b)fluoranthene	ND	50		µg/L	1	8/29/2005
Benzo(g,h,i)perylene	ND	50		µg/L	1	8/29/2005
Benzo(k)fluoranthene	ND	50		µg/L	1	8/29/2005
Benzoic acid	ND	250		µg/L	1	8/29/2005
Benzyl alcohol	ND	100		µg/L	1	8/29/2005
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	8/29/2005
Bis(2-chloroethyl)ether	ND	75		µg/L	1	8/29/2005
Bis(2-chloroisopropyl)ether	ND	75		µg/L	1	8/29/2005
Bis(2-ethylhexyl)phthalate	ND	75		µg/L	1	8/29/2005
4-Bromophenyl phenyl ether	ND	50		µg/L	1	8/29/2005
Butyl benzyl phthalate	ND	75		µg/L	1	8/29/2005
Carbazole	ND	50		µg/L	1	8/29/2005
4-Chloro-3-methylphenol	ND	100		µg/L	1	8/29/2005
4-Chloroaniline	ND	100		µg/L	1	8/29/2005
2-Chloronaphthalene	ND	50		µg/L	1	8/29/2005
2-Chlorophenol	ND	50		µg/L	1	8/29/2005
4-Chlorophenyl phenyl ether	ND	75		µg/L	1	8/29/2005
Chrysene	ND	75		µg/L	1	8/29/2005
Di-n-butyl phthalate	ND	50		µg/L	1	8/29/2005
Di-n-octyl phthalate	ND	75		µg/L	1	8/29/2005
Dibenz(a,h)anthracene	ND	50		µg/L	1	8/29/2005

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

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

Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co
 Lab Order: 0508271
 Project: Aeration Lagoon 2 Outlet to Evap Pond 1
 Lab ID: 0508271-01

Client Sample ID: AL-2 to EP-1

Collection Date: 8/23/2005 11:00:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Dibenzofuran	ND	50		µg/L	1	8/23/2005
1,2-Dichlorobenzene	ND	50		µg/L	1	8/23/2005
1,3-Dichlorobenzene	ND	50		µg/L	1	8/23/2005
1,4-Dichlorobenzene	ND	50		µg/L	1	8/23/2005
3,3'-Dichlorobenzidine	ND	75		µg/L	1	8/23/2005
Diethyl phthalate	ND	50		µg/L	1	8/23/2005
Dimethyl phthalate	ND	50		µg/L	1	8/23/2005
2,4-Dichlorophenol	ND	50		µg/L	1	8/23/2005
2,4-Dimethylphenol	ND	50		µg/L	1	8/23/2005
4,6-Dinitro-2-methylphenol	ND	250		µg/L	1	8/23/2005
2,4-Dinitrophenol	ND	250		µg/L	1	8/23/2005
2,4-Dinitrotoluene	ND	50		µg/L	1	8/23/2005
2,6-Dinitrotoluene	ND	50		µg/L	1	8/23/2005
Fluoranthene	ND	50		µg/L	1	8/23/2005
Fluorene	170	50		µg/L	1	8/23/2005
Hexachlorobenzene	ND	50		µg/L	1	8/23/2005
Hexachlorobutadiene	ND	50		µg/L	1	8/23/2005
Hexachlorocyclopentadiene	ND	50		µg/L	1	8/23/2005
Hexachlorodisilene	ND	50		µg/L	1	8/23/2005
Indene(1,2,3-c)pyrene	ND	50		µg/L	1	8/23/2005
Isochlorone	ND	50		µg/L	1	8/23/2005
2-Methylnaphthalene	ND	50		µg/L	1	8/23/2005
3,4-Methylenediphenylamine	ND	75		µg/L	1	8/23/2005
N-Nitrosodimethylaniline	ND	50		µg/L	1	8/23/2005
N-Nitrosodiphenylamine	ND	50		µg/L	1	8/23/2005
Naphthalene	ND	50		µg/L	1	8/23/2005
2-Nitroaniline	ND	250		µg/L	1	8/23/2005
3-Nitroaniline	ND	250		µg/L	1	8/23/2005
4-Nitroaniline	ND	100		µg/L	1	8/23/2005
Nitrobenzene	ND	50		µg/L	1	8/23/2005
2-Nitrophenol	ND	75		µg/L	1	8/23/2005
4-Nitrophenol	ND	250		µg/L	1	8/23/2005
Pentachlorophenol	ND	250		µg/L	1	8/23/2005
Phenanthrene	170	50		µg/L	1	8/23/2005
Phenol	ND	50		µg/L	1	8/23/2005
Pyrene	ND	75		µg/L	1	8/23/2005
Pyridine	ND	150		µg/L	1	8/23/2005
1,2,4-Trichlorobenzene	ND	50		µg/L	1	8/23/2005
2,4,5-Trichlorophenol	ND	50		µg/L	1	8/23/2005
2,4,6-Trichlorophenol	ND	75		µg/L	1	8/23/2005

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limit

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co Client Sample ID: AL-2 to EP-1

Lab Order: 0508271 Collection Date: 8/23/2005 11:00:00 AM

Project: Aeration Lagoon 2 Outlet to Evap Pond 1

Lab ID: 0508271-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surf: 2,4,5-Trichlorophenol	95.8	18.6-150	%REC		1	8/23/2005
Surf: 2-Fluorophenyl	75.3	19.6-134	%REC		1	8/23/2005
Surf: 2-Fluorophenol	45.4	9.54-113	%REC		1	8/23/2005
Surf: 4-Terphenyl-014	75.4	22.7-145	%REC		1	8/23/2005
Surf: Nitrobenzene-05	88.8	14.6-134	%REC		1	8/23/2005
Surf: Phenol-06	38.2	10.7-80.3	%REC		1	8/23/2005
EPA METHOD 7470: MERCURY	0.0013	0.00020	mg/L		1	Analyst: CMC
Mercury						8/31/2005
EPA METHOD 8010C: DISSOLVED METALS						Analyst: NMO
Arsenic	ND	0.020	mg/L		1	8/31/2005 12:28:19 PM
Barium	0.18	0.020	mg/L		1	8/31/2005 12:28:19 PM
Cadmium	ND	0.0020	mg/L		1	8/31/2005 12:28:19 PM
Chromium	ND	0.0050	mg/L		1	8/31/2005 12:28:19 PM
Lead	ND	0.020	mg/L		1	8/31/2005 12:28:19 PM
Selenium	ND	0.050	mg/L		1	8/31/2005 12:28:19 PM
Silver	ND	0.0050	mg/L		1	8/31/2005 12:28:19 PM
EPA 8010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020	mg/L		1	8/31/2005 11:20:21 AM
Barium	0.36	0.020	mg/L		1	8/31/2005 11:20:21 AM
Cadmium	ND	0.0020	mg/L		1	8/31/2005 11:20:21 AM
Chromium	0.0082	0.0050	mg/L		1	8/31/2005 11:20:21 AM
Lead	0.0075	0.0050	mg/L		1	8/31/2005 11:20:21 AM
Selenium	ND	0.050	mg/L		1	8/31/2005 11:20:21 AM
Silver	ND	0.0050	mg/L		1	8/31/2005 11:20:21 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

3 / 19

Price, Wayne, EMNRD

From: James Romero [jromero@giant.com]
To: Monzeglio, Hope, NMENV
Cc: Price, Wayne, EMNRD; Foust, Denny, EMNRD; Cobrain, Dave, NMENV
Subject: RE: Firewater storage (lab results and map)
Attachments:  [_0829104719_001.pdf\(247KB\)](#)  [_0831101040_001.pdf\(258KB\)](#)

Sent: Thu 9/1/2005 9:31 AM

Hope

Attached are lab results on the RO water and a map of the project location. You should receive our written request late this week or early next.

-----Original Message-----

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Wednesday, August 31, 2005 12:04 PM
To: eriege@giant.com; jromero@giant.com
Cc: Price, Wayne, EMNRD; Foust, Denny, EMNRD; Cobrain, Dave, NMENV
Subject: Firewater storage

James

To recap our conversation today 8/30/05 pertaining to fire water storage. Below is the information I have gathered from our conversations and email.

From our understanding, Giant is going to use "RO" water, which was explained to be well water, used to create steam for turbines. This water will be placed in the proposed firewater storage area identified on the map provided in the 8/29/05 email Subject: RE: "1,152,000 gal Release notification form." The proposed firewater storage area is a basin created in the 50's and a section of the basin currently stores sewer effluent. The "RO" water and sewer effluent water will be separated by a berm. Finally, the "RO" water will be transported from the well, stored in Evaporation Pond 2 (EP 2), and then transferred to the basin. Giant received the RO water laboratory results and the results were non detect for everything.

Giant must submit to NMED and OCD a proposed plan that describes the entire process for using well water and RO water in creating the proposed firewater storage and include the points listed below.

1. Giant must clarify what RO stands for describe what type of water this is and provide the source of where it comes from. Giant must clarify if RO water is the same as boiler feed water? Giant must clarify what type of well the RO water is produced from and provide the location of this well (include a map).
2. Provide what laboratory analysis were run on the RO water, effluent from aeration lagoon 2 to Evaporation Pond 1, inlet water to Pond #2, and well water if different from the RO water, and include the results of the laboratory reports. Giant must describe all sample collection methods.
3. Clarify if the sewer effluent has ever been tested for petroleum hydrocarbons, if so provide the analytical data.
4. Provide details for the travel routes the RO water will follow before entering the basin, (e.g. how long will the RO water stay EP 2 before entering the basin). Explain why EP2 will be used to store the RO water before entering the basin. Identify how many gallons of water will be stored in the basin.

NMED reminds Giant if 2 contains any hazardous constituents this is an unacceptable place to store the RO water prior to entering the basin.

5. Provide the dimensions and soil composition of the berm. Also include the soil composition of the basin. Giant must clarify if a permeability test has been conducted in the basin and if water evaporation rate have been considered, if so provide the appropriate data, figures, and calculations.
6. Provide a description of the basin's history. This must include how the basin was created and what purpose it served, identify any contaminants associated with the basin, how they entered, identify if any soil sample have been collected from the bottom of the basin to confirm hazardous constituents are not present.
7. Provide a map with the location of the proposed firewater storage area.

If you have any questions please contact me.

Sincerely

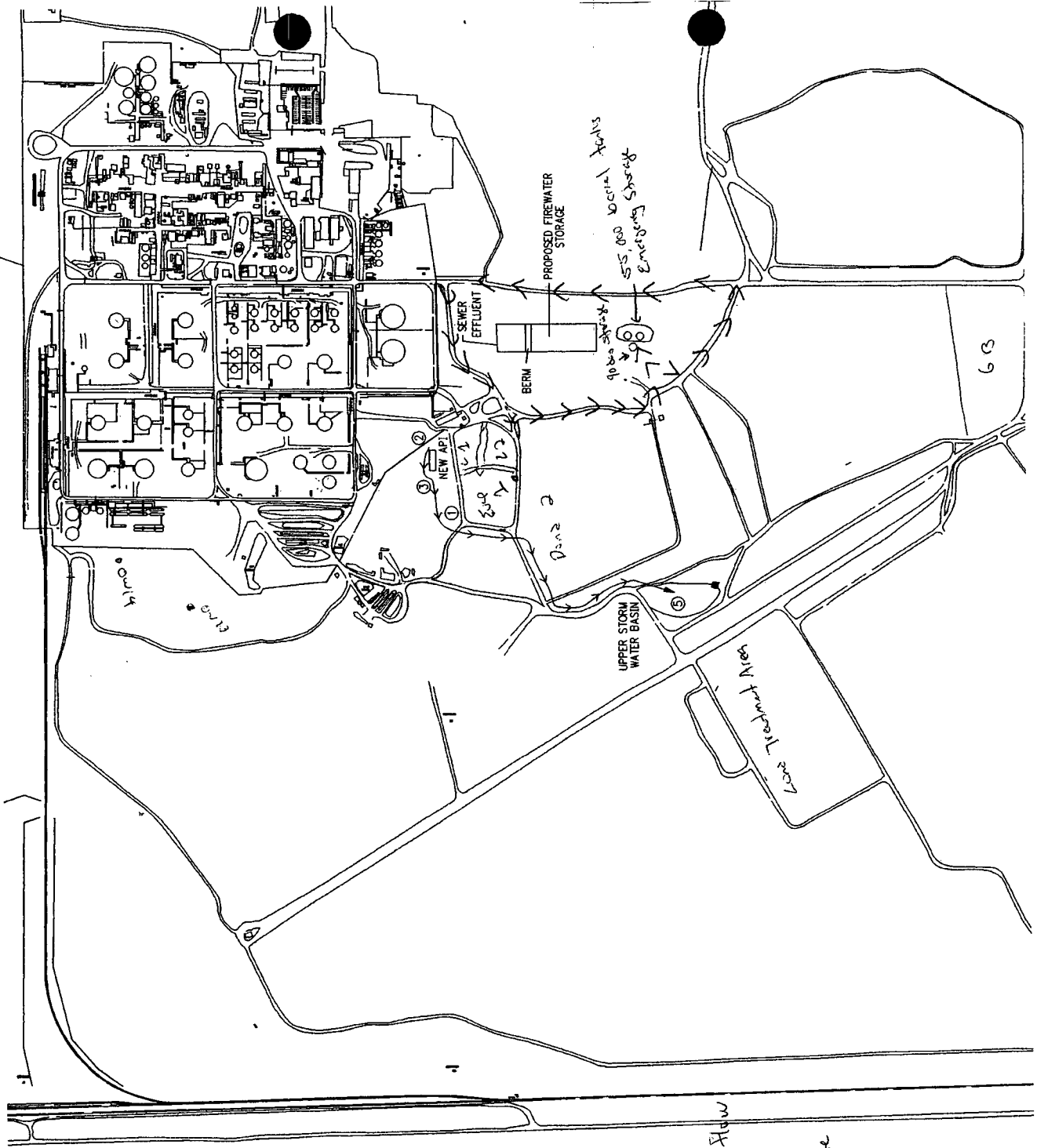
Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 428-2545
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hope.monzeglio@state.nm.us

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← Spill Flow

==
Tuck Route

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Res. Water

Lab Order: 0508111

Collection Date: 8/9/2005 8:00:00 AM

Project: RO Reject & Softener Water

Lab ID: 0508111-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/15/2005
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/15/2005
1,1-Dichloroethane	ND	1.0		µg/L	1	8/15/2005
1,1-Dichloroethene	ND	1.0		µg/L	1	8/15/2005
1,2-Dichloropropane	ND	1.0		µg/L	1	8/15/2005
1,3-Dichloropropane	ND	1.0		µg/L	1	8/15/2005
2,2-Dichloropropane	ND	1.0		µg/L	1	8/15/2005
1,1-Dichloropropene	ND	1.0		µg/L	1	8/15/2005
Hexachlorobutadiene	ND	1.0		µg/L	1	8/15/2005
2-Hexanone	ND	10		µg/L	1	8/15/2005
Isopropylbenzene	ND	1.0		µg/L	1	8/15/2005
4-Isopropyltoluene	ND	1.0		µg/L	1	8/15/2005
4-Methyl-2-pentanone	ND	10		µg/L	1	8/15/2005
Methylene Chloride	ND	3.0		µg/L	1	8/15/2005
n-Butylbenzene	ND	1.0		µg/L	1	8/15/2005
n-Propylbenzene	ND	1.0		µg/L	1	8/15/2005
sec-Butylbenzene	ND	1.0		µg/L	1	8/15/2005
Styrene	ND	1.0		µg/L	1	8/15/2005
tert-Butylbenzene	ND	1.0		µg/L	1	8/15/2005
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/15/2005
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	8/15/2005
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/15/2005
trans-1,2-DCE	ND	1.0		µg/L	1	8/15/2005
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/15/2005
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/15/2005
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/15/2005
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/15/2005
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/15/2005
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/15/2005
Trichlorofluoromethane	ND	1.0		µg/L	1	8/15/2005
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/15/2005
Vinyl chloride	ND	1.0		µg/L	1	8/15/2005
Xylenes, Total	ND	1.0		µg/L	1	8/15/2005
Surr: 1,2-Dichloroethane-d4	98.1	87.7-108		%REC	1	8/15/2005
Surr: 4-Bromofluorobenzene	107	88.8-113		%REC	1	8/15/2005
Surr: Dibromofluoromethane	105	84.1-111		%REC	1	8/15/2005
Surr: Toluene-d8	95.4	85.9-109		%REC	1	8/15/2005
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: CMC
Specific Conductance	6900	0.010		µmhos/cm	1	8/13/2005
EPA METHOD 7470: MERCURY						Analyst: CMC
Mercury	ND	0.00020		mg/L	1	8/15/2005

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

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

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Res. Water

Lab Order: 0508111

Collection Date: 8/9/2005 8:00:00 AM

Project: RO Reject & Softener Water

Lab ID: 0508111-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	8/16/2005 9:31:46 AM
Barium	ND	0.020		mg/L	1	8/15/2005 1:17:58 PM
Cadmium	ND	0.0020		mg/L	1	8/15/2005 1:17:58 PM
Calcium	2.1	1.0		mg/L	1	8/15/2005 1:17:58 PM
Chromium	ND	0.0060		mg/L	1	8/15/2005 1:17:58 PM
Lead	ND	0.0050		mg/L	1	8/15/2005 1:17:58 PM
Magnesium	ND	1.0		mg/L	1	8/15/2005 1:17:58 PM
Potassium	6.5	1.0		mg/L	1	8/15/2005 1:17:58 PM
Selenium	ND	0.050		mg/L	1	8/16/2005 9:31:46 AM
Silver	ND	0.0050		mg/L	1	8/15/2005 1:17:58 PM
Sodium	1600	20		mg/L	20	8/15/2005 3:53:14 PM
EPA METHOD 150.1: PH						Analyst: DK
pH	8.12	0.010		pH units	1	8/17/2005

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

CLIENT: Giant Refining Co
Lab Order: 0508111
Project: RO Reject & Softener Water
Lab ID: 0508111-01

Client Sample ID: Res. Water
Collection Date: 8/9/2005 8:00:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: CMC
Fluoride	1.5	0.10		mg/L	1	8/10/2005
Chloride	46	0.50		mg/L	5	8/11/2005
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	8/10/2005
Nitrogen, Nitrate (As N)	0.56	0.10		mg/L	1	8/10/2005
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	8/10/2005
Sulfate	2500	25		mg/L	50	8/11/2005
EPA METHOD 8260: VOLATILES						Analyst: HLM
Benzene	ND	1.0		µg/L	1	8/15/2005
Toluene	ND	1.0		µg/L	1	8/15/2005
Ethylbenzene	ND	1.0		µg/L	1	8/15/2005
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/15/2005
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/15/2005
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/15/2005
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/15/2005
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/15/2005
Naphthalene	ND	2.0		µg/L	1	8/15/2005
1-Methylnaphthalene	ND	4.0		µg/L	1	8/15/2005
2-Methylnaphthalene	ND	4.0		µg/L	1	8/15/2005
Acetone	ND	10		µg/L	1	8/15/2005
Bromobenzene	ND	1.0		µg/L	1	8/15/2005
Bromochloromethane	ND	1.0		µg/L	1	8/15/2005
Bromodichloromethane	ND	1.0		µg/L	1	8/15/2005
Bromoform	ND	1.0		µg/L	1	8/15/2005
Bromomethane	ND	2.0		µg/L	1	8/15/2005
2-Butanone	ND	10		µg/L	1	8/15/2005
Carbon disulfide	ND	10		µg/L	1	8/15/2005
Carbon Tetrachloride	ND	1.0		µg/L	1	8/15/2005
Chlorobenzene	ND	1.0		µg/L	1	8/15/2005
Chloroethane	ND	2.0		µg/L	1	8/15/2005
Chloroform	ND	1.0		µg/L	1	8/15/2005
Chloromethane	ND	1.0		µg/L	1	8/15/2005
2-Chlorotoluene	ND	1.0		µg/L	1	8/15/2005
4-Chlorotoluene	ND	1.0		µg/L	1	8/15/2005
cis-1,2-DCE	ND	1.0		µg/L	1	8/15/2005
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/15/2005
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/15/2005
Dibromochloromethane	ND	1.0		µg/L	1	8/15/2005
Dibromomethane	ND	2.0		µg/L	1	8/15/2005
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/15/2005
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/15/2005

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

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



COVER LETTER

August 24, 2005

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

RE: RO Reject & Softener Water

Order No.: 0508111

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 1 sample on 8/10/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



3) Visual inspections over the weekend were good

-----Original Message-----

From: James Romero

Sent: Thursday, September 01, 2005 3:10 PM

To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us'

Cc: Steve Morris

Subject: RE: Spill Report (daily update for 8/

Daily update for 9/1/05

- 1) Continued to clean ponds
- 2) All equipment and material has been scheduled for receipt on or before 10 September 2005
- 3) All new instrumentation has been specified and material requests have been submitted to purchasing
- 4) All new electrical equipment and materials have been specified and material requests have been submitted to purchasing
- 5) Maintenance work on API bay east bay is underway to repair sludge roller
- 6) Visual inspections thru the night were good

-----Original Message-----

From: James Romero

Sent: Wednesday, August 31, 2005 3:04 PM

To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us'

Cc: Steve Morris

Subject: RE: Spill Report (daily update for 8/

Daily update for 8/31/05

- 1) Removed 17 trucks of water at the 55,000 barrel tanks
- 2) Utilized a 200 barrel truck (underway) to remove sludge from other tank, this will be reintroduced
- 3) visual inspections thru the night were good

-----Original Message-----

From: James Romero

Sent: Tuesday, August 30, 2005 3:13 PM

To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us'

Cc: Steve Morris

Subject: RE: Spill Report (daily update for 8/

Daily update for 8/30/05

- 1) New techniques were used today in an effort to suck more oil and less water
- 2) Water is being drained from the water tank and is being put back into the api system
- 3) The oil tank will be pumped out later this week and oil reintroduced into the process
- 4) Conducted our second weekly grab sampled per NMED (tests results on the first sample have not been received)
- 5) visual inspection thru the night were good

-----Original Message-----

From: James Romero

Sent: Monday, August 29, 2005 2:37 PM

To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us'

Cc: Steve Morris

Subject: RE: Spill Report (daily update for 8/

Daily update for 8/29/05

- 1) Riley is contuning operations to clean ponds
- 2) Water is now being removed from 55,000 barrel tanks and sent back to API

As of 28Aug05 61 trucks (60barrels/each) of water has been removed from tanks

- 3) Visual Inspections thru the weekend and night were good

Attached are spreadsheets showing truck numbers for pond clean out and water from tanks to api

-----Original Message-----

From: James Romero

Sent: Tuesday, August 23, 2005 2:57 PM

To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us'

Cc: Steve Morris

Subject: RE: Spill Report (daily update for 8/22/05 and 8/23/05)

Attached is a spreadsheet showing our daily truck counts for 8/22. Moreover, all operations to clean the ponds are moving forward and making progress. Continued visual inspections during nighttime hours have not documented any new spills around the API.

-----Original Message-----

From: James Romero

Sent: Thursday, August 18, 2005 3:17 PM

To: 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'

Cc: Ed Riege; Steve Morris; James Romero; Johnny Sanchez

Subject: RE: Spill Report (daily update for 8/18/05)

Daily update for 8/18/05

- 1) Riley started operations to clean ponds, approximately 4000 barrels were removed today
- 2) Visual inspections thru the night were all good
- 3) Started release of water from lower storm water basin
- 4) Completed spill/remediation plan (should go out tomorrow Friday)

-----Original Message-----

From: Price, Wayne, EMNRD

[mailto:wayne.price@state.nm.us]

Sent: Thursday, August 18, 2005 7:30 AM

To: James Romero

Cc: Ed Rios; Ed Riege; Steve Morris; Johnny Sanchez; David Kirby

Subject: RE: Spill Report (daily update for 8/17/05)

OCD hereby approves of your request.

Please be advised that NMOCD approval of this request does not relieve (Giant) of responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground

water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (Giant) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Wayne Price-Senior Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3487
Fax: 505-4763462

From: James Romero
[mailto:jromero@giant.com]
Sent: Wed 8/17/2005 12:27 PM
To: Price, Wayne, EMNRD
Cc: Ed Rios; Ed Riege; Steve Morris; Johnny Sanchez; David Kirby
Subject: RE: Spill Report (daily update for 8/17/05)

Wayne, Hope:

Per OCD's condition here is our daily update:

1) We just received the lab results (via telephone) on Storm water Outfall #1

Benzene	ND
EthylBen	ND
Toluene	.35ppb
Xylene	2.1ppb

With these tests results, and due to the fact the lower storm water basin is at capacity, we'd like your approval to release water off property.

2) Riley Industrial is onsite and unplugging the process sewer lines to the weir box.

3) The outlet to the upper storm water basin has been plugged to contain the spill

If you have any questions please feel free to call me anytime, James

-----Original Message-----

From: Price, Wayne, EMNRD
[mailto:wayne.price@state.nm.us]
Sent: Tuesday, August 16, 2005 8:01 AM
To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV;
foust.denny@state.nm.us
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

Wayne Price-Senior
Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail
wayne.price@state.nm.us
Tele: 505-476-3487
Fax: 505-4763462

From: Price, Wayne, EMNRD
Sent: Tue 8/16/2005 8:59 AM
To: James Romero; Monzeglio,
Hope, NMENV;
'foust.denny@state.nm.us'
Cc: Ed Riege; Steve Morris;
Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

OCD hereby approves of the
emergency actions with the
following conditions:

1. All water sales from the ponds shall cease, unless approved by OCD.
2. No stormwater shall be released that exceeds the WQCC standards.
3. The emergency actions shall be continuous (24 hour) until API problem is correct.
4. A daily E-mail report shall be submitted until emergency is over.
5. Giant shall isolate the other ponds, if possible during the emergency condition.

Please be advised that NMOCD approval of this plan does not relieve (Giant) of responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (Giant) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Wayne Price-Senior
Environmental Engr.

Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail
wayne.price@state.nm.us
Tele: 505-476-3487
Fax: 505-4763462

From: James Romero
[mailto:jromero@giant.com]
Sent: Mon 8/15/2005 5:12 PM
To: Price, Wayne, EMNRD;
Monzeglio, Hope, NMENV;
'foust.denny@state.nm.us'
Cc: Ed Riege; Steve Morris;
Johnny Sanchez; Ed Rios
Subject: Spill Report

Wayne,

As we discussed via telephone today, our API pump motor is not working properly (20-30% capacity) which resulted in a reportable discharge into our aeration lagoons. Samples were gathered and lab results were received today on Lagoon 2, and Evap Pond 1 (see below). I will follow up this email with a formal C-141 spill report. Moreover, I will submit pics, lab results, and a site map, etc.

However, as an interim measure, and with your approval, we are taking the following actions:

- (1) Vac-trucks will be used to pump and clean out the aeration lagoons/API sump
- (2) Interim emergency storage of material within two 55,000 barrel tanks located on western part of the property (map will follow hard copy).
- (3) A chopper pump will be installed and has been ordered (replacement of old API pump)

LAB RESULTS
Lagoon 2

Evap Pond 1

MTBE

88 ppb

60 ppb
Benzene 306 ppb
1000 ppb
Toluene 8.7 ppb
76 ppb
Ethylbenzene <2.5
ppb <10.0 ppb

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Price, Wayne, EMNRD

From: James Romero [jromero@giant.com] **Sent:** Thu 9/15/2005 2:32 PM
To: Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD; Cobrain, Dave, NMENV
Cc: Ed Riege; Steve Morris; Johnny Sanchez
Subject: RE: Weekly Reporting (Week One)
Attachments:

Wayne, the following is a summary of week one:

- 1) The oil on the old separator was all removed by late Friday (see attached pic). Our maintenance manager is 90% positive that the source of the oil was the FCC unit storm drain. We've ordered absorbents to place in the storm drains
- 2) Between 9/8/05 thru 9/12/05 34 trucks of sludge and 8 trucks of water have been removed. Evaporation pond one has been cleaned (very little oil remaining) and all efforts have been moved to aeration pond 2 (see attached pic)
- 3) Samples from the old API and aeration 2 into evap pond 1 have been taken and are at the lab
- 4) The diesel spill soil (25 cubic yards) has been moved to the land farm (see pic)
- 5) Water has been removed from the RR Lagoon. Fushe is onsite today excavating additional soil where sampling showed contamination. Also, they will back fill the area near the railroad due to concerns about stability of the RR line.
- 6) A hazmat roll off has been ordered to haul all the F037 contaminated soil
- 7) A small spill (20 gallons) occurred 9/14/05 at Marketing tank #4. A formal C-141 was filed on 9/15/05
- 8) As of today we have not received lab analysis for our weekly sample (Hope's weekly sample)
- 9) Butterfly valves have been installed on both stormwater basins

-----Original Message-----

From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us]
Sent: Friday, September 09, 2005 1:05 PM
To: James Romero
Subject: RE: Weekly Reporting

We will call you tuesday.

Wayne Price-Senior Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3487
Fax: 505-4763462

From: James Romero [mailto:jromero@giant.com]
Sent: Fri 9/9/2005 1:07 PM
To: Price, Wayne, EMNRD
Subject: Weekly Reporting

Wayne, Lets plan on me getting our weekly to you every Wednesday.

-----Original Message-----

From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us]
Sent: Friday, September 09, 2005 11:55 AM
To: James Romero
Subject: RE: Spill Report (daily update for 8/

James, you may back off of the daily report and submit weekly until the emergency is over.

Wayne Price-Senior Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3487
Fax: 505-4763462

From: James Romero [mailto:jromero@giant.com]

Sent: Tue 9/6/2005 9:52 AM

To: James Romero; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD

Cc: Steve Morris

Subject: RE: Spill Report (daily update for 8/

Daily update for Sept 2,3,4, and 5

I was out of the office on Friday for the holiday weekend. Below is a summary of the weekend activities

- 1) 58 trucks of wastewater/oilywater removed over the weekend
- 2) 400 barrels of slop oil was removed from east tank (55,000 barrel tank) and reintroduced
- 3) Visual inspections over the weekend were good

-----Original Message-----

From: James Romero

Sent: Thursday, September 01, 2005 3:10 PM

To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us';
'denny.foust@state.nm.us'

Cc: Steve Morris

Subject: RE: Spill Report (daily update for 8/

Daily update for 9/1/05

- 1) Continued to clean ponds
- 2) All equipment and material has been scheduled for receipt on or before 10 September 2005
- 3) All new instrumentation has been specified and material requests have been submitted to purchasing
- 4) All new electrical equipment and materials have been specified and material requests have been submitted to purchasing
- 5) Maintenance work on API bay east bay is underway to repair sludge roller
- 6) Visual inspections thru the night were good

-----Original Message-----

From: James Romero

Sent: Wednesday, August 31, 2005 3:04 PM

To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us';
'denny.foust@state.nm.us'

Cc: Steve Morris

Subject: RE: Spill Report (daily update for 8/

Daily update for 8/31/05

- 1) Removed 17 trucks of water at the 55,000 barrel tanks
- 2) Utilized a 200 barrel truck (underway) to remove sludge from other tank, this will be reintroduced
- 3) visual inspections thru the night were good

-----Original Message-----

From: James Romero

Sent: Tuesday, August 30, 2005 3:13 PM

To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us';
'denny.foust@state.nm.us'

Cc: Steve Morris

Subject: RE: Spill Report (daily update for 8/

Daily update for 8/30/05

- 1) New techniques were used today in an effort to suck more oil and less water
- 2) Water is being drained from the water tank and is being put back into the api

Sanchez; David Kirby
Subject: RE: Spill Report (daily update for 8/17/05)

OCD hereby approves of your request.

Please be advised that NMOCD approval of this request does not relieve (Giant) of responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (Giant) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Wayne Price-Senior Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3487
Fax: 505-4763462

From: James Romero
[mailto:jromero@giant.com]
Sent: Wed 8/17/2005 12:27 PM
To: Price, Wayne, EMNRD
Cc: Ed Rios; Ed Riege; Steve Morris; Johnny Sanchez; David Kirby
Subject: RE: Spill Report (daily update for 8/17/05)

Wayne, Hope:

Per OCD's condition here is our daily update:

1) We just received the lab results (via telephone) on Storm water Outfall #1

Benzene	ND
EthylBen	ND
Toluene	.35ppb
Xylene	2.1ppb

With these tests results, and due to the fact the lower storm water basin is at capacity, we'd like your approval to release water off property.

2) Riley Industrial is onsite and unplugging the process sewer lines to the weir box.

3) The outlet to the upper storm water basin has been plugged to contain the spill

If you have any questions please feel free to call me anytime, James

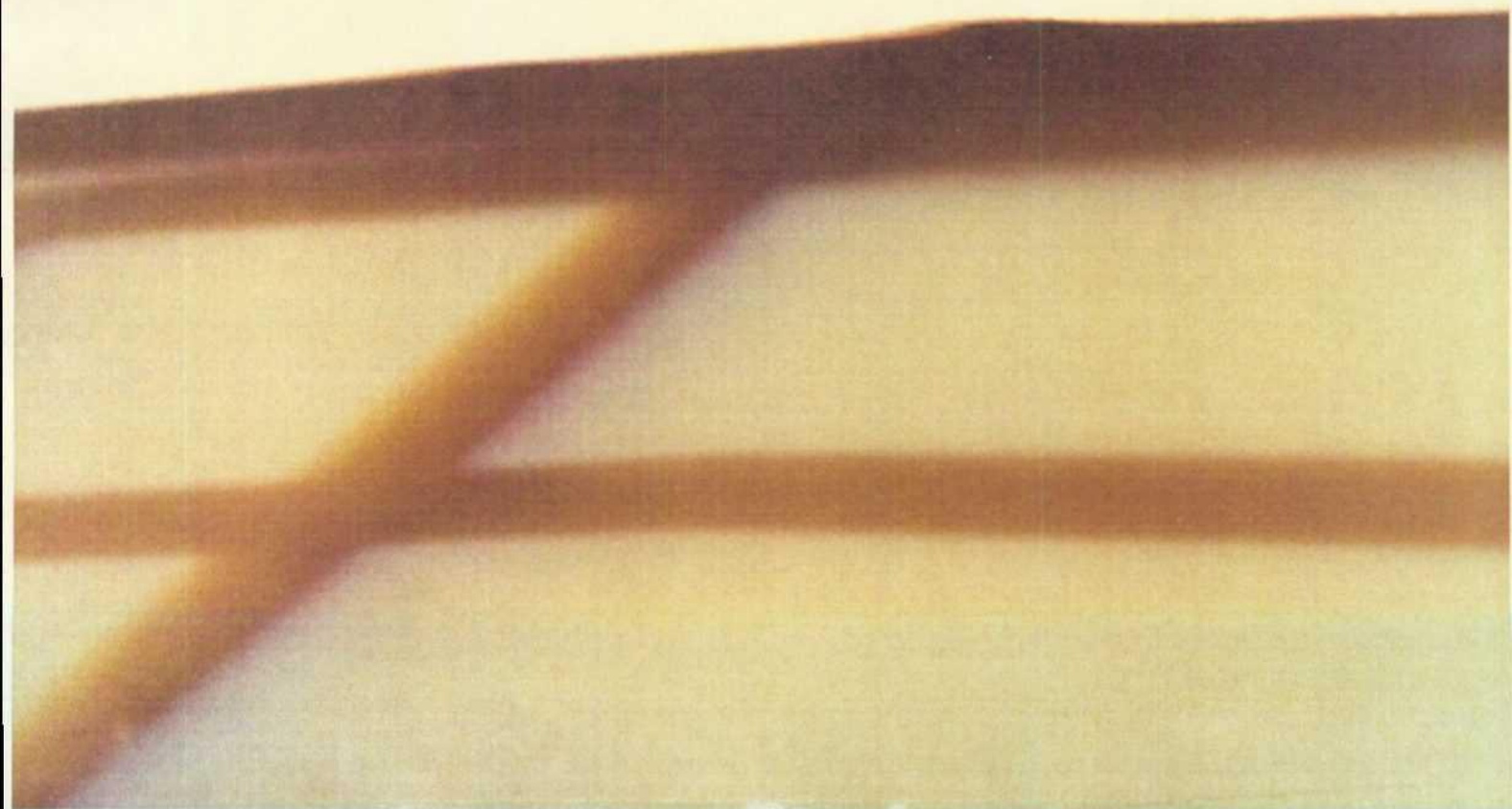
-----Original Message-----

From: Price, Wayne, EMNRD
[mailto:wayne.price@state.nm.us]
Sent: Tuesday, August 16, 2005











COVER LETTER

September 07, 2005

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

RE: RR Rock Lagoon Add. Exc. 8-30-05

Order No.: 0508346

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 10 samples on 8/31/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
Project: RR Rock Lagoon Add. Exc. 8-30-05
Lab Order: 0508346

CASE NARRATIVE

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
Lab Order: 0508346
Project: RR Rock Lagoon Add. Exc. 8-30-05
Lab ID: 0508346-01

Client Sample ID: RR-1-83005
Collection Date: 8/30/2005 7:15:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	640	10		mg/Kg	1	9/2/2005 2:55:36 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/2/2005 2:55:36 AM
Surr: DNOP	93.8	60-124		%REC	1	9/2/2005 2:55:36 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Benzene	ND	0.050		mg/Kg	1	9/4/2005
Toluene	ND	0.050		mg/Kg	1	9/4/2005
Ethylbenzene	ND	0.050		mg/Kg	1	9/4/2005
Xylenes, Total	ND	0.050		mg/Kg	1	9/4/2005
Surr: 4-Bromofluorobenzene	102	72.9-143		%REC	1	9/4/2005
Surr: Dibromofluoromethane	103	85.2-118		%REC	1	9/4/2005
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	0.56	0.20		mg/Kg	1	9/4/2005
Acenaphthylene	ND	0.20		mg/Kg	1	9/4/2005
Aniline	ND	0.20		mg/Kg	1	9/4/2005
Anthracene	ND	0.20		mg/Kg	1	9/4/2005
Azobenzene	ND	0.20		mg/Kg	1	9/4/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	9/4/2005
Benzidine	ND	0.20		mg/Kg	1	9/4/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	9/4/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	9/4/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	9/4/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	9/4/2005
Benzoic acid	ND	0.50		mg/Kg	1	9/4/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	9/4/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	9/4/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	9/4/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
Carbazole	ND	0.20		mg/Kg	1	9/4/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	9/4/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	9/4/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	9/4/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	9/4/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	9/4/2005
Chrysene	ND	0.20		mg/Kg	1	9/4/2005
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	9/4/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	9/4/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-1-83005

Lab Order: 0508346

Collection Date: 8/30/2005 7:15:00 AM

Project: RR Rock Lagoon Add. Exc. 8-30-05

Lab ID: 0508346-01

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Dibenzofuran	ND	0.50		mg/Kg	1	9/4/2005
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	9/4/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	9/4/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	9/4/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	9/4/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	9/4/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	9/4/2005
Fluoranthene	ND	0.20		mg/Kg	1	9/4/2005
Fluorene	0.91	0.20		mg/Kg	1	9/4/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	9/4/2005
Hexachloroethane	ND	0.50		mg/Kg	1	9/4/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	9/4/2005
Isophorone	ND	0.20		mg/Kg	1	9/4/2005
2-Methylnaphthalene	7.9	1.0		mg/Kg	5	9/6/2005
2-Methylphenol	ND	0.20		mg/Kg	1	9/4/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	9/4/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	9/4/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	9/4/2005
Naphthalene	1.0	0.20		mg/Kg	1	9/4/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	9/4/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	9/4/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	9/4/2005
Nitrobenzene	ND	0.20		mg/Kg	1	9/4/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	9/4/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	9/4/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	9/4/2005
Phenanthrene	3.8	0.20		mg/Kg	1	9/4/2005
Phenol	ND	0.20		mg/Kg	1	9/4/2005
Pyrene	ND	0.20		mg/Kg	1	9/4/2005
Pyridine	ND	0.50		mg/Kg	1	9/4/2005
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
Surr: 2,4,6-Tribromophenol	98.3	35.5-141		%REC	1	9/4/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-1-83005

Lab Order: 0508346

Collection Date: 8/30/2005 7:15:00 AM

Project: RR Rock Lagoon Add. Exc. 8-30-05

Lab ID: 0508346-01

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	107	30.4-128		%REC	1	9/4/2005
Surr: 2-Fluorophenol	76.7	28.1-129		%REC	1	9/4/2005
Surr: 4-Terphenyl-d14	78.3	34.6-151		%REC	1	9/4/2005
Surr: Nitrobenzene-d5	78.3	26.5-122		%REC	1	9/4/2005
Surr: Phenol-d6	84.5	37.6-118		%REC	1	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
Lab Order: 0508346
Project: RR Rock Lagoon Add. Exc. 8-30-05
Lab ID: 0508346-02

Client Sample ID: RR-2-83005
Collection Date: 8/30/2005 7:30:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	1900	100		mg/Kg	10	9/3/2005 12:54:13 AM
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	9/3/2005 12:54:13 AM
Surr. DNOP	105	60-124		%REC	10	9/3/2005 12:54:13 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Benzene	ND	0.050		mg/Kg	1	9/4/2005
Toluene	ND	0.050		mg/Kg	1	9/4/2005
Ethylbenzene	ND	0.050		mg/Kg	1	9/4/2005
Xylenes, Total	0.41	0.050		mg/Kg	1	9/4/2005
Surr. 4-Bromofluorobenzene	126	72.9-143		%REC	1	9/4/2005
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	0.20		mg/Kg	1	9/4/2005
Acenaphthylene	ND	0.20		mg/Kg	1	9/4/2005
Aniline	ND	0.20		mg/Kg	1	9/4/2005
Anthracene	ND	0.20		mg/Kg	1	9/4/2005
Azobenzene	ND	0.20		mg/Kg	1	9/4/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	9/4/2005
Benzidine	ND	0.20		mg/Kg	1	9/4/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	9/4/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	9/4/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	9/4/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	9/4/2005
Benzoic acid	ND	0.50		mg/Kg	1	9/4/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	9/4/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	9/4/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	9/4/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
Carbazole	ND	0.20		mg/Kg	1	9/4/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	9/4/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	9/4/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	9/4/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	9/4/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	9/4/2005
Chrysene	ND	0.20		mg/Kg	1	9/4/2005
Di-n-butyl phthalate	0.26	0.25	B	mg/Kg	1	9/4/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	9/4/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	9/4/2005
Dibenzofuran	ND	0.50		mg/Kg	1	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-2-83005

Lab Order: 0508346

Collection Date: 8/30/2005 7:30:00 AM

Project: RR Rock Lagoon Add. Exc. 8-30-05

Lab ID: 0508346-02

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	9/4/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
2,4-Dimethylphenol	0.22	0.20		mg/Kg	1	9/4/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	9/4/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	9/4/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	9/4/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	9/4/2005
Fluoranthene	ND	0.20		mg/Kg	1	9/4/2005
Fluorene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	9/4/2005
Hexachloroethane	ND	0.50		mg/Kg	1	9/4/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	9/4/2005
Isophorone	ND	0.20		mg/Kg	1	9/4/2005
2-Methylnaphthalene	2.2	0.20		mg/Kg	1	9/4/2005
2-Methylphenol	ND	0.20		mg/Kg	1	9/4/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	9/4/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	9/4/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	9/4/2005
Naphthalene	2.2	0.20		mg/Kg	1	9/4/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	9/4/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	9/4/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	9/4/2005
Nitrobenzene	ND	0.20		mg/Kg	1	9/4/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	9/4/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	9/4/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	9/4/2005
Phenanthrene	1.3	0.20		mg/Kg	1	9/4/2005
Phenol	ND	0.20		mg/Kg	1	9/4/2005
Pyrene	ND	0.20		mg/Kg	1	9/4/2005
Pyridine	ND	0.50		mg/Kg	1	9/4/2005
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
Sum: 2,4,6-Tribromophenol	91.1	35.5-141		%REC	1	9/4/2005
Surr: 2-Fluorobiphenyl	94.2	30.4-128		%REC	1	9/4/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-2-83005

Lab Order: 0508346

Collection Date: 8/30/2005 7:30:00 AM

Project: RR Rock Lagoon Add. Exc. 8-30-05

Lab ID: 0508346-02

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	78.2	28.1-129		%REC	1	9/4/2005
Surr: 4-Terphenyl-d14	85.0	34.6-151		%REC	1	9/4/2005
Surr: Nitrobenzene-d5	82.8	26.5-122		%REC	1	9/4/2005
Surr: Phenol-d6	89.6	37.6-118		%REC	1	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
Lab Order: 0508346
Project: RR Rock Lagoon Add. Exc. 8-30-05
Lab ID: 0508346-03

Client Sample ID: RR-3-83005
Collection Date: 8/30/2005 7:40:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	2900	100		mg/Kg	10	9/3/2005 1:27:00 AM
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	9/3/2005 1:27:00 AM
Surr: DNOP	122	60-124		%REC	10	9/3/2005 1:27:00 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Benzene	ND	0.050		mg/Kg	1	9/4/2005
Toluene	ND	0.050		mg/Kg	1	9/4/2005
Ethylbenzene	ND	0.050		mg/Kg	1	9/4/2005
Xylenes, Total	2.8	0.050		mg/Kg	1	9/4/2005
Surr: 4-Bromofluorobenzene	97.2	72.9-143		%REC	1	9/4/2005
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	2.0		mg/Kg	10	9/4/2005
Acenaphthylene	ND	2.0		mg/Kg	10	9/4/2005
Aniline	ND	2.0		mg/Kg	10	9/4/2005
Anthracene	ND	2.0		mg/Kg	10	9/4/2005
Azobenzene	ND	2.0		mg/Kg	10	9/4/2005
Benz(a)anthracene	ND	2.5		mg/Kg	10	9/4/2005
Benzidine	ND	2.0		mg/Kg	10	9/4/2005
Benzo(a)pyrene	ND	2.0		mg/Kg	10	9/4/2005
Benzo(b)fluoranthene	ND	2.0		mg/Kg	10	9/4/2005
Benzo(g,h,i)perylene	ND	3.0		mg/Kg	10	9/4/2005
Benzo(k)fluoranthene	ND	5.0		mg/Kg	10	9/4/2005
Benzoic acid	ND	5.0		mg/Kg	10	9/4/2005
Benzyl alcohol	ND	5.0		mg/Kg	10	9/4/2005
Bis(2-chloroethoxy)methane	ND	5.0		mg/Kg	10	9/4/2005
Bis(2-chloroethyl)ether	ND	2.5		mg/Kg	10	9/4/2005
Bis(2-chloroisopropyl)ether	ND	5.0		mg/Kg	10	9/4/2005
Bis(2-ethylhexyl)phthalate	ND	2.0		mg/Kg	10	9/4/2005
4-Bromophenyl phenyl ether	ND	2.5		mg/Kg	10	9/4/2005
Butyl benzyl phthalate	ND	2.0		mg/Kg	10	9/4/2005
Carbazole	ND	2.0		mg/Kg	10	9/4/2005
4-Chloro-3-methylphenol	ND	2.0		mg/Kg	10	9/4/2005
4-Chloroaniline	ND	2.0		mg/Kg	10	9/4/2005
2-Chloronaphthalene	ND	2.0		mg/Kg	10	9/4/2005
2-Chlorophenol	ND	2.0		mg/Kg	10	9/4/2005
4-Chlorophenyl phenyl ether	ND	2.0		mg/Kg	10	9/4/2005
Chrysene	ND	2.0		mg/Kg	10	9/4/2005
Di-n-butyl phthalate	ND	2.5		mg/Kg	10	9/4/2005
Di-n-octyl phthalate	ND	5.0		mg/Kg	10	9/4/2005
Dibenz(a,h)anthracene	ND	2.5		mg/Kg	10	9/4/2005
Dibenzofuran	ND	5.0		mg/Kg	10	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-3-83005

Lab Order: 0508346

Collection Date: 8/30/2005 7:40:00 AM

Project: RR Rock Lagoon Add. Exc. 8-30-05

Lab ID: 0508346-03

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dichlorobenzene	ND	2.0		mg/Kg	10	9/4/2005
1,3-Dichlorobenzene	ND	2.0		mg/Kg	10	9/4/2005
1,4-Dichlorobenzene	ND	2.0		mg/Kg	10	9/4/2005
3,3'-Dichlorobenzidine	ND	2.0		mg/Kg	10	9/4/2005
Diethyl phthalate	ND	2.0		mg/Kg	10	9/4/2005
Dimethyl phthalate	ND	2.0		mg/Kg	10	9/4/2005
2,4-Dichlorophenol	ND	2.0		mg/Kg	10	9/4/2005
2,4-Dimethylphenol	ND	2.0		mg/Kg	10	9/4/2005
4,6-Dinitro-2-methylphenol	ND	5.0		mg/Kg	10	9/4/2005
2,4-Dinitrophenol	ND	5.0		mg/Kg	10	9/4/2005
2,4-Dinitrotoluene	ND	2.0		mg/Kg	10	9/4/2005
2,6-Dinitrotoluene	ND	2.0		mg/Kg	10	9/4/2005
Fluoranthene	ND	2.0		mg/Kg	10	9/4/2005
Fluorene	ND	2.0		mg/Kg	10	9/4/2005
Hexachlorobenzene	ND	2.0		mg/Kg	10	9/4/2005
Hexachlorobutadiene	ND	2.0		mg/Kg	10	9/4/2005
Hexachlorocyclopentadiene	ND	2.5		mg/Kg	10	9/4/2005
Hexachloroethane	ND	5.0		mg/Kg	10	9/4/2005
Indeno(1,2,3-cd)pyrene	ND	2.0		mg/Kg	10	9/4/2005
Isophorone	ND	2.0		mg/Kg	10	9/4/2005
2-Methylnaphthalene	11	2.0		mg/Kg	10	9/4/2005
2-Methylphenol	ND	2.0		mg/Kg	10	9/4/2005
3+4-Methylphenol	ND	2.0		mg/Kg	10	9/4/2005
N-Nitrosodi-n-propylamine	ND	2.0		mg/Kg	10	9/4/2005
N-Nitrosodiphenylamine	ND	2.0		mg/Kg	10	9/4/2005
Naphthalene	2.6	2.0		mg/Kg	10	9/4/2005
2-Nitroaniline	ND	5.0		mg/Kg	10	9/4/2005
3-Nitroaniline	ND	5.0		mg/Kg	10	9/4/2005
4-Nitroaniline	ND	2.5		mg/Kg	10	9/4/2005
Nitrobenzene	ND	2.0		mg/Kg	10	9/4/2005
2-Nitrophenol	ND	2.0		mg/Kg	10	9/4/2005
4-Nitrophenol	ND	2.0		mg/Kg	10	9/4/2005
Pentachlorophenol	ND	5.0		mg/Kg	10	9/4/2005
Phenanthrene	4.5	2.0		mg/Kg	10	9/4/2005
Phenol	ND	2.0		mg/Kg	10	9/4/2005
Pyrene	ND	2.0		mg/Kg	10	9/4/2005
Pyridine	ND	5.0		mg/Kg	10	9/4/2005
1,2,4-Trichlorobenzene	ND	2.0		mg/Kg	10	9/4/2005
2,4,5-Trichlorophenol	ND	2.0		mg/Kg	10	9/4/2005
2,4,6-Trichlorophenol	ND	2.0		mg/Kg	10	9/4/2005
Surr: 2,4,6-Tribromophenol	113	35.5-141		%REC	10	9/4/2005
Surr: 2-Fluorobiphenyl	83.6	30.4-128		%REC	10	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
Lab Order: 0508346
Project: RR Rock Lagoon Add. Exc. 8-30-05
Lab ID: 0508346-03

Client Sample ID: RR-3-83005
Collection Date: 8/30/2005 7:40:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	70.0	28.1-129		%REC	10	9/4/2005
Surr: 4-Terphenyl-d14	80.6	34.6-151		%REC	10	9/4/2005
Surr: Nitrobenzene-d5	78.4	26.5-122		%REC	10	9/4/2005
Surr: Phenol-d6	66.8	37.6-118		%REC	10	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
Lab Order: 0508346
Project: RR Rock Lagoon Add. Exc. 8-30-05
Lab ID: 0508346-04

Client Sample ID: RR-4-83005
Collection Date: 8/30/2005 7:50:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	4000	200		mg/Kg	20	9/3/2005 1:59:51 AM
Motor Oil Range Organics (MRO)	ND	1000		mg/Kg	20	9/3/2005 1:59:51 AM
Surr: DNOP	0	60-124	S	%REC	20	9/3/2005 1:59:51 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Benzene	ND	0.050		mg/Kg	1	9/4/2005
Toluene	ND	0.050		mg/Kg	1	9/4/2005
Ethylbenzene	0.38	0.050		mg/Kg	1	9/4/2005
Xylenes, Total	4.1	0.050		mg/Kg	1	9/4/2005
Surr: 4-Bromofluorobenzene	121	72.9-143		%REC	1	9/4/2005
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	2.0		mg/Kg	10	9/4/2005
Acenaphthylene	ND	2.0		mg/Kg	10	9/4/2005
Aniline	ND	2.0		mg/Kg	10	9/4/2005
Anthracene	ND	2.0		mg/Kg	10	9/4/2005
Azobenzene	ND	2.0		mg/Kg	10	9/4/2005
Benz(a)anthracene	ND	2.5		mg/Kg	10	9/4/2005
Benidine	ND	2.0		mg/Kg	10	9/4/2005
Benzo(a)pyrene	ND	2.0		mg/Kg	10	9/4/2005
Benzo(b)fluoranthene	ND	2.0		mg/Kg	10	9/4/2005
Benzo(g,h,i)perylene	ND	3.0		mg/Kg	10	9/4/2005
Benzo(k)fluoranthene	ND	5.0		mg/Kg	10	9/4/2005
Benzoic acid	ND	5.0		mg/Kg	10	9/4/2005
Benzyl alcohol	ND	5.0		mg/Kg	10	9/4/2005
Bis(2-chloroethoxy)methane	ND	5.0		mg/Kg	10	9/4/2005
Bis(2-chloroethyl)ether	ND	2.5		mg/Kg	10	9/4/2005
Bis(2-chloroisopropyl)ether	ND	5.0		mg/Kg	10	9/4/2005
Bis(2-ethylhexyl)phthalate	ND	2.0		mg/Kg	10	9/4/2005
4-Bromophenyl phenyl ether	ND	2.5		mg/Kg	10	9/4/2005
Butyl benzyl phthalate	ND	2.0		mg/Kg	10	9/4/2005
Carbazole	ND	2.0		mg/Kg	10	9/4/2005
4-Chloro-3-methylphenol	ND	2.0		mg/Kg	10	9/4/2005
4-Chloroaniline	ND	2.0		mg/Kg	10	9/4/2005
2-Chloronaphthalene	ND	2.0		mg/Kg	10	9/4/2005
2-Chlorophenol	ND	2.0		mg/Kg	10	9/4/2005
4-Chlorophenyl phenyl ether	ND	2.0		mg/Kg	10	9/4/2005
Chrysene	ND	2.0		mg/Kg	10	9/4/2005
Di-n-butyl phthalate	ND	2.5		mg/Kg	10	9/4/2005
Di-n-octyl phthalate	ND	5.0		mg/Kg	10	9/4/2005
Dibenz(a,h)anthracene	ND	2.5		mg/Kg	10	9/4/2005
Dibenzofuran	ND	5.0		mg/Kg	10	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
Lab Order: 0508346
Project: RR Rock Lagoon Add. Exc. 8-30-05
Lab ID: 0508346-04

Client Sample ID: RR-4-83005
Collection Date: 8/30/2005 7:50:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dichlorobenzene	ND	2.0		mg/Kg	10	9/4/2005
1,3-Dichlorobenzene	ND	2.0		mg/Kg	10	9/4/2005
1,4-Dichlorobenzene	ND	2.0		mg/Kg	10	9/4/2005
3,3'-Dichlorobenzidine	ND	2.0		mg/Kg	10	9/4/2005
Diethyl phthalate	ND	2.0		mg/Kg	10	9/4/2005
Dimethyl phthalate	ND	2.0		mg/Kg	10	9/4/2005
2,4-Dichlorophenol	ND	2.0		mg/Kg	10	9/4/2005
2,4-Dimethylphenol	ND	2.0		mg/Kg	10	9/4/2005
4,6-Dinitro-2-methylphenol	ND	5.0		mg/Kg	10	9/4/2005
2,4-Dinitrophenol	ND	5.0		mg/Kg	10	9/4/2005
2,4-Dinitrotoluene	ND	2.0		mg/Kg	10	9/4/2005
2,6-Dinitrotoluene	ND	2.0		mg/Kg	10	9/4/2005
Fluoranthene	ND	2.0		mg/Kg	10	9/4/2005
Fluorene	3.2	2.0		mg/Kg	10	9/4/2005
Hexachlorobenzene	ND	2.0		mg/Kg	10	9/4/2005
Hexachlorobutadiene	ND	2.0		mg/Kg	10	9/4/2005
Hexachlorocyclopentadiene	ND	2.5		mg/Kg	10	9/4/2005
Hexachloroethane	ND	5.0		mg/Kg	10	9/4/2005
Indeno(1,2,3-cd)pyrene	ND	2.0		mg/Kg	10	9/4/2005
Isophorone	ND	2.0		mg/Kg	10	9/4/2005
2-Methylnaphthalene	20	2.0		mg/Kg	10	9/4/2005
2-Methylphenol	ND	2.0		mg/Kg	10	9/4/2005
3+4-Methylphenol	ND	2.0		mg/Kg	10	9/4/2005
N-Nitrosodi-n-propylamine	ND	2.0		mg/Kg	10	9/4/2005
N-Nitrosodiphenylamine	ND	2.0		mg/Kg	10	9/4/2005
Naphthalene	4.2	2.0		mg/Kg	10	9/4/2005
2-Nitroaniline	ND	5.0		mg/Kg	10	9/4/2005
3-Nitroaniline	ND	5.0		mg/Kg	10	9/4/2005
4-Nitroaniline	ND	2.5		mg/Kg	10	9/4/2005
Nitrobenzene	ND	2.0		mg/Kg	10	9/4/2005
2-Nitrophenol	ND	2.0		mg/Kg	10	9/4/2005
4-Nitrophenol	ND	2.0		mg/Kg	10	9/4/2005
Pentachlorophenol	ND	5.0		mg/Kg	10	9/4/2005
Phenanthrene	7.1	2.0		mg/Kg	10	9/4/2005
Phenol	ND	2.0		mg/Kg	10	9/4/2005
Pyrene	ND	2.0		mg/Kg	10	9/4/2005
Pyridine	ND	5.0		mg/Kg	10	9/4/2005
1,2,4-Trichlorobenzene	ND	2.0		mg/Kg	10	9/4/2005
2,4,5-Trichlorophenol	ND	2.0		mg/Kg	10	9/4/2005
2,4,6-Trichlorophenol	ND	2.0		mg/Kg	10	9/4/2005
Surr: 2,4,6-Tribromophenol	108	35.5-141		%REC	10	9/4/2005
Surr: 2-Fluorobiphenyl	97.4	30.4-128		%REC	10	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
Lab Order: 0508346
Project: RR Rock Lagoon Add. Exc. 8-30-05
Lab ID: 0508346-04

Client Sample ID: RR-4-83005
Collection Date: 8/30/2005 7:50:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	65.1	28.1-129		%REC	10	9/4/2005
Surr: 4-Terphenyl-d14	90.4	34.6-151		%REC	10	9/4/2005
Surr: Nitrobenzene-d5	116	26.5-122		%REC	10	9/4/2005
Surr: Phenol-d6	70.8	37.6-118		%REC	10	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
Lab Order: 0508346
Project: RR Rock Lagoon Add. Exc. 8-30-05
Lab ID: 0508346-05

Client Sample ID: RR-5-83005
Collection Date: 8/30/2005 8:00:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	1000	20		mg/Kg	2	9/3/2005 2:32:52 AM
Motor Oil Range Organics (MRO)	ND	100		mg/Kg	2	9/3/2005 2:32:52 AM
Surr: DNOP	98.4	60-124		%REC	2	9/3/2005 2:32:52 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Benzene	ND	0.050		mg/Kg	1	9/4/2005
Toluene	ND	0.050		mg/Kg	1	9/4/2005
Ethylbenzene	ND	0.050		mg/Kg	1	9/4/2005
Xylenes, Total	0.33	0.050		mg/Kg	1	9/4/2005
Surr: 4-Bromofluorobenzene	97.2	72.9-143		%REC	1	9/4/2005
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	0.29	0.20		mg/Kg	1	9/4/2005
Acenaphthylene	ND	0.20		mg/Kg	1	9/4/2005
Aniline	ND	0.20		mg/Kg	1	9/4/2005
Anthracene	ND	0.20		mg/Kg	1	9/4/2005
Azobenzene	ND	0.20		mg/Kg	1	9/4/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	9/4/2005
Benzidine	ND	0.20		mg/Kg	1	9/4/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	9/4/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	9/4/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	9/4/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	9/4/2005
Benzoic acid	ND	0.50		mg/Kg	1	9/4/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	9/4/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	9/4/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	9/4/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
Carbazole	ND	0.20		mg/Kg	1	9/4/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	9/4/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	9/4/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	9/4/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	9/4/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	9/4/2005
Chrysene	ND	0.20		mg/Kg	1	9/4/2005
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	9/4/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	9/4/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	9/4/2005
Dibenzofuran	ND	0.50		mg/Kg	1	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
Lab Order: 0508346
Project: RR Rock Lagoon Add. Exc. 8-30-05
Lab ID: 0508346-05

Client Sample ID: RR-5-83005
Collection Date: 8/30/2005 8:00:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	9/4/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	9/4/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	9/4/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	9/4/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	9/4/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	9/4/2005
Fluoranthene	ND	0.20		mg/Kg	1	9/4/2005
Fluorene	0.49	0.20		mg/Kg	1	9/4/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	9/4/2005
Hexachloroethane	ND	0.50		mg/Kg	1	9/4/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	9/4/2005
Isophorone	ND	0.20		mg/Kg	1	9/4/2005
2-Methylnaphthalene	2.7	0.20		mg/Kg	1	9/4/2005
2-Methylphenol	ND	0.20		mg/Kg	1	9/4/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	9/4/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	9/4/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	9/4/2005
Naphthalene	0.59	0.20		mg/Kg	1	9/4/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	9/4/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	9/4/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	9/4/2005
Nitrobenzene	ND	0.20		mg/Kg	1	9/4/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	9/4/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	9/4/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	9/4/2005
Phenanthrene	1.4	0.20		mg/Kg	1	9/4/2005
Phenol	ND	0.20		mg/Kg	1	9/4/2005
Pyrene	ND	0.20		mg/Kg	1	9/4/2005
Pyridine	ND	0.50		mg/Kg	1	9/4/2005
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
Surr: 2,4,6-Tribromophenol	92.3	35.5-141		%REC	1	9/4/2005
Surr: 2-Fluorobiphenyl	91.4	30.4-128		%REC	1	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-5-83005

Lab Order: 0508346

Collection Date: 8/30/2005 8:00:00 AM

Project: RR Rock Lagoon Add. Exc. 8-30-05

Lab ID: 0508346-05

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	78.5	28.1-129		%REC	1	9/4/2005
Surr: 4-Terphenyl-d14	80.8	34.6-151		%REC	1	9/4/2005
Surr: Nitrobenzene-d5	80.9	26.5-122		%REC	1	9/4/2005
Surr: Phenol-d5	84.3	37.6-118		%REC	1	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
Lab Order: 0508346
Project: RR Rock Lagoon Add. Exc. 8-30-05
Lab ID: 0508346-06

Client Sample ID: RR-6-83005
Collection Date: 8/30/2005 8:10:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	5300	200		mg/Kg	20	9/2/2005 11:48:37 PM
Motor Oil Range Organics (MRO)	ND	1000		mg/Kg	20	9/2/2005 11:48:37 PM
Surr: DNOP	0	60-124	S	%REC	20	9/2/2005 11:48:37 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Benzene	ND	0.050		mg/Kg	1	9/4/2005
Toluene	ND	0.050		mg/Kg	1	9/4/2005
Ethylbenzene	ND	0.050		mg/Kg	1	9/4/2005
Xylenes, Total	1.8	0.050		mg/Kg	1	9/4/2005
Surr: 4-Bromofluorobenzene	111	72.9-143		%REC	1	9/4/2005
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	0.20		mg/Kg	1	9/4/2005
Acenaphthylene	ND	0.20		mg/Kg	1	9/4/2005
Aniline	ND	0.20		mg/Kg	1	9/4/2005
Anthracene	ND	0.20		mg/Kg	1	9/4/2005
Azobenzene	ND	0.20		mg/Kg	1	9/4/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	9/4/2005
Benzidine	ND	0.20		mg/Kg	1	9/4/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	9/4/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	9/4/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	9/4/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	9/4/2005
Benzoic acid	ND	0.50		mg/Kg	1	9/4/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	9/4/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	9/4/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	9/4/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
Carbazole	ND	0.20		mg/Kg	1	9/4/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	9/4/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	9/4/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	9/4/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	9/4/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	9/4/2005
Chrysene	ND	0.20		mg/Kg	1	9/4/2005
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	9/4/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	9/4/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	9/4/2005
Dibenzofuran	0.68	0.50		mg/Kg	1	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-6-83005

Lab Order: 0508346

Collection Date: 8/30/2005 8:10:00 AM

Project: RR Rock Lagoon Add. Exc. 8-30-05

Lab ID: 0508346-06

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	9/4/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	9/4/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	9/4/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	9/4/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	9/4/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	9/4/2005
Fluoranthene	ND	0.20		mg/Kg	1	9/4/2005
Fluorene	0.34	0.20		mg/Kg	1	9/4/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	9/4/2005
Hexachloroethane	ND	0.50		mg/Kg	1	9/4/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	9/4/2005
Isophorone	ND	0.20		mg/Kg	1	9/4/2005
2-Methylnaphthalene	36	2.0		mg/Kg	10	9/6/2005
2-Methylphenol	ND	0.20		mg/Kg	1	9/4/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	9/4/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	9/4/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	9/4/2005
Naphthalene	3.8	0.20		mg/Kg	1	9/4/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	9/4/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	9/4/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	9/4/2005
Nitrobenzene	ND	0.20		mg/Kg	1	9/4/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	9/4/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	9/4/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	9/4/2005
Phenanthrene	8.0	2.0		mg/Kg	10	9/6/2005
Phenol	ND	0.20		mg/Kg	1	9/4/2005
Pyrene	0.41	0.20		mg/Kg	1	9/4/2005
Pyridine	ND	0.50		mg/Kg	1	9/4/2005
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
Surr: 2,4,6-Tribromophenol	60.1	35.5-141		%REC	1	9/4/2005
Surr: 2-Fluorobiphenyl	79.0	30.4-128		%REC	1	9/4/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-6-83005

Lab Order: 0508346

Collection Date: 8/30/2005 8:10:00 AM

Project: RR Rock Lagoon Add. Exc. 8-30-05

Lab ID: 0508346-06

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	66.9	28.1-129		%REC	1	9/4/2005
Surr: 4-Terphenyl-d14	82.2	34.6-151		%REC	1	9/4/2005
Surr: Nitrobenzene-d5	89.1	26.5-122		%REC	1	9/4/2005
Surr: Phenol-d6	78.4	37.6-118		%REC	1	9/4/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-7-83005

Lab Order: 0508346

Collection Date: 8/30/2005 8:20:00 AM

Project: RR Rock Lagoon Add. Exc. 8-30-05

Lab ID: 0508346-07

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						
						Analyst: SCC
Diesel Range Organics (DRO)	9000	200		mg/Kg	20	9/3/2005 12:21:25 AM
Motor Oil Range Organics (MRO)	ND	1000		mg/Kg	20	9/3/2005 12:21:25 AM
Surr: DNOP	0	60-124	S	%REC	20	9/3/2005 12:21:25 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						
						Analyst: BDH
Benzene	ND	0.050		mg/Kg	1	9/4/2005
Toluene	ND	0.050		mg/Kg	1	9/4/2005
Ethylbenzene	ND	0.050		mg/Kg	1	9/4/2005
Xylenes, Total	2.9	0.050		mg/Kg	1	9/4/2005
Surr: 4-Bromofluorobenzene	103	72.9-143		%REC	1	9/4/2005
EPA METHOD 8270C: SEMIVOLATILES						
						Analyst: BL
Acenaphthene	2.6	2.0		mg/Kg	10	9/4/2005
Acenaphthylene	ND	2.0		mg/Kg	10	9/4/2005
Aniline	ND	2.0		mg/Kg	10	9/4/2005
Anthracene	ND	2.0		mg/Kg	10	9/4/2005
Azobenzene	ND	2.0		mg/Kg	10	9/4/2005
Benz(a)anthracene	ND	2.5		mg/Kg	10	9/4/2005
Benzidine	ND	2.0		mg/Kg	10	9/4/2005
Benzo(a)pyrene	ND	2.0		mg/Kg	10	9/4/2005
Benzo(b)fluoranthene	ND	2.0		mg/Kg	10	9/4/2005
Benzo(g,h,i)perylene	ND	3.0		mg/Kg	10	9/4/2005
Benzo(k)fluoranthene	ND	5.0		mg/Kg	10	9/4/2005
Benzoic acid	ND	5.0		mg/Kg	10	9/4/2005
Benzyl alcohol	ND	5.0		mg/Kg	10	9/4/2005
Bis(2-chloroethoxy)methane	ND	5.0		mg/Kg	10	9/4/2005
Bis(2-chloroethyl)ether	ND	2.5		mg/Kg	10	9/4/2005
Bis(2-chloroisopropyl)ether	ND	5.0		mg/Kg	10	9/4/2005
Bis(2-ethylhexyl)phthalate	ND	2.0		mg/Kg	10	9/4/2005
4-Bromophenyl phenyl ether	ND	2.5		mg/Kg	10	9/4/2005
Butyl benzyl phthalate	ND	2.0		mg/Kg	10	9/4/2005
Carbazole	ND	2.0		mg/Kg	10	9/4/2005
4-Chloro-3-methylphenol	ND	2.0		mg/Kg	10	9/4/2005
4-Chloroaniline	ND	2.0		mg/Kg	10	9/4/2005
2-Chloronaphthalene	ND	2.0		mg/Kg	10	9/4/2005
2-Chlorophenol	ND	2.0		mg/Kg	10	9/4/2005
4-Chlorophenyl phenyl ether	ND	2.0		mg/Kg	10	9/4/2005
Chrysene	ND	2.0		mg/Kg	10	9/4/2005
Di-n-butyl phthalate	ND	2.5		mg/Kg	10	9/4/2005
Di-n-octyl phthalate	ND	5.0		mg/Kg	10	9/4/2005
Dibenz(a,h)anthracene	ND	2.5		mg/Kg	10	9/4/2005
Dibenzofuran	ND	5.0		mg/Kg	10	9/4/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
Lab Order: 0508346
Project: RR Rock Lagoon Add. Exc. 8-30-05
Lab ID: 0508346-07

Client Sample ID: RR-7-83005
Collection Date: 8/30/2005 8:20:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dichlorobenzene	ND	2.0		mg/Kg	10	9/4/2005
1,3-Dichlorobenzene	ND	2.0		mg/Kg	10	9/4/2005
1,4-Dichlorobenzene	ND	2.0		mg/Kg	10	9/4/2005
3,3'-Dichlorobenzidine	ND	2.0		mg/Kg	10	9/4/2005
Diethyl phthalate	ND	2.0		mg/Kg	10	9/4/2005
Dimethyl phthalate	ND	2.0		mg/Kg	10	9/4/2005
2,4-Dichlorophenol	ND	2.0		mg/Kg	10	9/4/2005
2,4-Dimethylphenol	ND	2.0		mg/Kg	10	9/4/2005
4,6-Dinitro-2-methylphenol	ND	5.0		mg/Kg	10	9/4/2005
2,4-Dinitrophenol	ND	5.0		mg/Kg	10	9/4/2005
2,4-Dinitrotoluene	ND	2.0		mg/Kg	10	9/4/2005
2,6-Dinitrotoluene	ND	2.0		mg/Kg	10	9/4/2005
Fluoranthene	ND	2.0		mg/Kg	10	9/4/2005
Fluorene	ND	2.0		mg/Kg	10	9/4/2005
Hexachlorobenzene	ND	2.0		mg/Kg	10	9/4/2005
Hexachlorobutadiene	ND	2.0		mg/Kg	10	9/4/2005
Hexachlorocyclopentadiene	ND	2.5		mg/Kg	10	9/4/2005
Hexachloroethane	ND	5.0		mg/Kg	10	9/4/2005
Indeno(1,2,3-cd)pyrene	ND	2.0		mg/Kg	10	9/4/2005
Isophorone	ND	2.0		mg/Kg	10	9/4/2005
2-Methylnaphthalene	39	2.0		mg/Kg	10	9/4/2005
2-Methylphenol	ND	2.0		mg/Kg	10	9/4/2005
3+4-Methylphenol	ND	2.0		mg/Kg	10	9/4/2005
N-Nitrosodi-n-propylamine	ND	2.0		mg/Kg	10	9/4/2005
N-Nitrosodiphenylamine	ND	2.0		mg/Kg	10	9/4/2005
Naphthalene	5.0	2.0		mg/Kg	10	9/4/2005
2-Nitroaniline	ND	5.0		mg/Kg	10	9/4/2005
3-Nitroaniline	ND	5.0		mg/Kg	10	9/4/2005
4-Nitroaniline	ND	2.5		mg/Kg	10	9/4/2005
Nitrobenzene	ND	2.0		mg/Kg	10	9/4/2005
2-Nitrophenol	ND	2.0		mg/Kg	10	9/4/2005
4-Nitrophenol	ND	2.0		mg/Kg	10	9/4/2005
Pentachlorophenol	ND	5.0		mg/Kg	10	9/4/2005
Phenanthrene	10	2.0		mg/Kg	10	9/4/2005
Phenol	ND	2.0		mg/Kg	10	9/4/2005
Pyrene	ND	2.0		mg/Kg	10	9/4/2005
Pyridine	ND	5.0		mg/Kg	10	9/4/2005
1,2,4-Trichlorobenzene	ND	2.0		mg/Kg	10	9/4/2005
2,4,5-Trichlorophenol	ND	2.0		mg/Kg	10	9/4/2005
2,4,6-Trichlorophenol	ND	2.0		mg/Kg	10	9/4/2005
Surr: 2,4,6-Tribromophenol	115	35.5-141		%REC	10	9/4/2005
Surr: 2-Fluorobiphenyl	105	30.4-128		%REC	10	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-7-83005

Lab Order: 0508346

Collection Date: 8/30/2005 8:20:00 AM

Project: RR Rock Lagoon Add. Exc. 8-30-05

Lab ID: 0508346-07

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	68.5	28.1-129		%REC	10	9/4/2005
Surr: 4-Terphenyl-d14	80.8	34.6-151		%REC	10	9/4/2005
Surr: Nitrobenzene-d5	125	26.5-122	S	%REC	10	9/4/2005
Surr: Phenol-d6	74.8	37.6-118		%REC	10	9/4/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
Lab Order: 0508346
Project: RR Rock Lagoon Add. Exc. 8-30-05
Lab ID: 0508346-08

Client Sample ID: RR-8-83005
Collection Date: 8/30/2005 8:30:00 AM
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	9/2/2005 6:12:34 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/2/2005 6:12:34 AM
Surr: DNOP	81.0	60-124		%REC	1	9/2/2005 6:12:34 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Benzene	ND	0.050		mg/Kg	1	9/4/2005
Toluene	ND	0.050		mg/Kg	1	9/4/2005
Ethylbenzene	ND	0.050		mg/Kg	1	9/4/2005
Xylenes, Total	ND	0.050		mg/Kg	1	9/4/2005
Surr: 4-Bromofluorobenzene	106	72.9-143		%REC	1	9/4/2005
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	0.20		mg/Kg	1	9/4/2005
Acenaphthylene	ND	0.20		mg/Kg	1	9/4/2005
Aniline	ND	0.20		mg/Kg	1	9/4/2005
Anthracene	ND	0.20		mg/Kg	1	9/4/2005
Azobenzene	ND	0.20		mg/Kg	1	9/4/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	9/4/2005
Benzidine	ND	0.20		mg/Kg	1	9/4/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	9/4/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	9/4/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	9/4/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	9/4/2005
Benzoic acid	ND	0.50		mg/Kg	1	9/4/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	9/4/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	9/4/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	9/4/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
Carbazole	ND	0.20		mg/Kg	1	9/4/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	9/4/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	9/4/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	9/4/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	9/4/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	9/4/2005
Chrysene	ND	0.20		mg/Kg	1	9/4/2005
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	9/4/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	9/4/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	9/4/2005
Dibenzofuran	ND	0.50		mg/Kg	1	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
Lab Order: 0508346
Project: RR Rock Lagoon Add. Exc. 8-30-05
Lab ID: 0508346-08

Client Sample ID: RR-8-83005
Collection Date: 8/30/2005 8:30:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	9/4/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	9/4/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	9/4/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	9/4/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	9/4/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	9/4/2005
Fluoranthene	ND	0.20		mg/Kg	1	9/4/2005
Fluorene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	9/4/2005
Hexachloroethane	ND	0.50		mg/Kg	1	9/4/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	9/4/2005
Isophorone	ND	0.20		mg/Kg	1	9/4/2005
2-Methylnaphthalene	ND	0.20		mg/Kg	1	9/4/2005
2-Methylphenol	ND	0.20		mg/Kg	1	9/4/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	9/4/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	9/4/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	9/4/2005
Naphthalene	ND	0.20		mg/Kg	1	9/4/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	9/4/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	9/4/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	9/4/2005
Nitrobenzene	ND	0.20		mg/Kg	1	9/4/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	9/4/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	9/4/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	9/4/2005
Phenanthrene	ND	0.20		mg/Kg	1	9/4/2005
Phenol	ND	0.20		mg/Kg	1	9/4/2005
Pyrene	ND	0.20		mg/Kg	1	9/4/2005
Pyridine	ND	0.50		mg/Kg	1	9/4/2005
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
Surr: 2,4,6-Tribromophenol	89.7	35.5-141		%REC	1	9/4/2005
Surr: 2-Fluorobiphenyl	67.9	30.4-128		%REC	1	9/4/2005

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank

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

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-8-83005

Lab Order: 0508346

Collection Date: 8/30/2005 8:30:00 AM

Project: RR Rock Lagoon Add. Exc. 8-30-05

Lab ID: 0508346-08

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	60.4	28.1-129		%REC	1	9/4/2005
Surr: 4-Terphenyl-d14	87.3	34.6-151		%REC	1	9/4/2005
Surr: Nitrobenzene-d5	61.8	26.5-122		%REC	1	9/4/2005
Surr: Phenol-d6	64.5	37.6-118		%REC	1	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
 Lab Order: 0508346
 Project: RR Rock Lagoon Add. Exc. 8-30-05
 Lab ID: 0508346-09

Client Sample ID: RR-9-83005
 Collection Date: 8/30/2005 8:40:00 AM
 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	9/2/2005 6:45:22 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/2/2005 6:45:22 AM
Surr: DNOP	95.7	60-124		%REC	1	9/2/2005 6:45:22 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Benzene	ND	0.050		mg/Kg	1	9/4/2005
Toluene	ND	0.050		mg/Kg	1	9/4/2005
Ethylbenzene	ND	0.050		mg/Kg	1	9/4/2005
Xylenes, Total	ND	0.050		mg/Kg	1	9/4/2005
Surr: 4-Bromofluorobenzene	115	72.9-143		%REC	1	9/4/2005
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	0.20		mg/Kg	1	9/4/2005
Acenaphthylene	ND	0.20		mg/Kg	1	9/4/2005
Aniline	ND	0.20		mg/Kg	1	9/4/2005
Anthracene	ND	0.20		mg/Kg	1	9/4/2005
Azobenzene	ND	0.20		mg/Kg	1	9/4/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	9/4/2005
Benzidine	ND	0.20		mg/Kg	1	9/4/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	9/4/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	9/4/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	9/4/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	9/4/2005
Benzoic acid	ND	0.50		mg/Kg	1	9/4/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	9/4/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	9/4/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	9/4/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
Carbazole	ND	0.20		mg/Kg	1	9/4/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	9/4/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	9/4/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	9/4/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	9/4/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	9/4/2005
Chrysene	ND	0.20		mg/Kg	1	9/4/2005
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	9/4/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	9/4/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	9/4/2005
Dibenzofuran	ND	0.50		mg/Kg	1	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-9-83005

Lab Order: 0508346

Collection Date: 8/30/2005 8:40:00 AM

Project: RR Rock Lagoon Add. Exc. 8-30-05

Lab ID: 0508346-09

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	9/4/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	9/4/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	9/4/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	9/4/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	9/4/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	9/4/2005
Fluoranthene	ND	0.20		mg/Kg	1	9/4/2005
Fluorene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorobuladiene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	9/4/2005
Hexachloroethane	ND	0.50		mg/Kg	1	9/4/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	9/4/2005
Isophorone	ND	0.20		mg/Kg	1	9/4/2005
2-Methylnaphthalene	ND	0.20		mg/Kg	1	9/4/2005
2-Methylphenol	ND	0.20		mg/Kg	1	9/4/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	9/4/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	9/4/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	9/4/2005
Naphthalene	ND	0.20		mg/Kg	1	9/4/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	9/4/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	9/4/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	9/4/2005
Nitrobenzene	ND	0.20		mg/Kg	1	9/4/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	9/4/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	9/4/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	9/4/2005
Phenanthrene	ND	0.20		mg/Kg	1	9/4/2005
Phenol	ND	0.20		mg/Kg	1	9/4/2005
Pyrene	ND	0.20		mg/Kg	1	9/4/2005
Pyridine	ND	0.50		mg/Kg	1	9/4/2005
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
Sum: 2,4,6-Tribromophenol	88.3	35.5-141		%REC	1	9/4/2005
Sum: 2-Fluorobiphenyl	75.4	30.4-128		%REC	1	9/4/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
Lab Order: 0508346
Project: RR Rock Lagoon Add. Exc. 8-30-05
Lab ID: 0508346-09

Client Sample ID: RR-9-83005
Collection Date: 8/30/2005 8:40:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	67.7	28.1-129		%REC	1	9/4/2005
Surr: 4-Terphenyl-d14	86.0	34.6-151		%REC	1	9/4/2005
Surr: Nitrobenzene-d5	72.5	26.5-122		%REC	1	9/4/2005
Surr: Phenol-d6	74.3	37.6-118		%REC	1	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-10-83005

Lab Order: 0508346

Collection Date: 8/30/2005 9:00:00 AM

Project: RR Rock Lagoon Add. Exc. 8-30-05

Lab ID: 0508346-10

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	9/2/2005 7:18:10 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/2/2005 7:18:10 AM
Surr: DNOP	97.5	60-124		%REC	1	9/2/2005 7:18:10 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Benzene	ND	0.050		mg/Kg	1	9/4/2005
Toluene	ND	0.050		mg/Kg	1	9/4/2005
Ethylbenzene	ND	0.050		mg/Kg	1	9/4/2005
Xylenes, Total	ND	0.050		mg/Kg	1	9/4/2005
Surr: 4-Bromofluorobenzene	94.9	72.9-143		%REC	1	9/4/2005
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	0.20		mg/Kg	1	9/4/2005
Acenaphthylene	ND	0.20		mg/Kg	1	9/4/2005
Aniline	ND	0.20		mg/Kg	1	9/4/2005
Anthracene	ND	0.20		mg/Kg	1	9/4/2005
Azobenzene	ND	0.20		mg/Kg	1	9/4/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	9/4/2005
Benzidine	ND	0.20		mg/Kg	1	9/4/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	9/4/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	9/4/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	9/4/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	9/4/2005
Benzoic acid	ND	0.50		mg/Kg	1	9/4/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	9/4/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	9/4/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	9/4/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	9/4/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
Carbazole	ND	0.20		mg/Kg	1	9/4/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	9/4/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	9/4/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	9/4/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	9/4/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	9/4/2005
Chrysene	ND	0.20		mg/Kg	1	9/4/2005
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	9/4/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	9/4/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	9/4/2005
Dibenzofuran	ND	0.50		mg/Kg	1	9/4/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
Lab Order: 0508346
Project: RR Rock Lagoon Add. Exc. 8-30-05
Lab ID: 0508346-10

Client Sample ID: RR-10-83005
Collection Date: 8/30/2005 9:00:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	9/4/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	9/4/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	9/4/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	9/4/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	9/4/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	9/4/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	9/4/2005
Fluoranthene	ND	0.20		mg/Kg	1	9/4/2005
Fluorene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	9/4/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	9/4/2005
Hexachloroethane	ND	0.50		mg/Kg	1	9/4/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	9/4/2005
Isophorone	ND	0.20		mg/Kg	1	9/4/2005
2-Methylnaphthalene	ND	0.20		mg/Kg	1	9/4/2005
2-Methylphenol	ND	0.20		mg/Kg	1	9/4/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	9/4/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	9/4/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	9/4/2005
Naphthalene	ND	0.20		mg/Kg	1	9/4/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	9/4/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	9/4/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	9/4/2005
Nitrobenzene	ND	0.20		mg/Kg	1	9/4/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	9/4/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	9/4/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	9/4/2005
Phenanthrene	ND	0.20		mg/Kg	1	9/4/2005
Phenol	ND	0.20		mg/Kg	1	9/4/2005
Pyrene	ND	0.20		mg/Kg	1	9/4/2005
Pyridine	ND	0.50		mg/Kg	1	9/4/2005
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	9/4/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	9/4/2005
Surr: 2,4,6-Tribromophenol	81.3	35.5-141		%REC	1	9/4/2005
Surr: 2-Fluorobiphenyl	66.1	30.4-128		%REC	1	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-10-83005

Lab Order: 0508346

Collection Date: 8/30/2005 9:00:00 AM

Project: RR Rock Lagoon Add. Exc. 8-30-05

Lab ID: 0508346-10

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	53.5	28.1-129		%REC	1	9/4/2005
Surr: 4-Terphenyl-d14	85.5	34.6-151		%REC	1	9/4/2005
Surr: Nitrobenzene-d5	61.6	26.5-122		%REC	1	9/4/2005
Surr: Phenol-d6	62.7	37.6-118		%REC	1	9/4/2005

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

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

CLIENT: Giant Refining Co
 Work Order: 0508346
 Project: RR Rock Lagoon Add. Exc. 8-30-05

QC SUMMARY REPORT

Method Blank

Sample ID	MB-8649	Batch ID: 8649	Test Code: SW8015		Unlis: mg/Kg		Analysis Date 9/1/2005 9:27:29 PM		Prep Date 8/31/2005		
Client ID:		Run ID:	FID(17A) 2_050901A		SeqNo: 395109						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	9.957	0	10	0	99.6	60	124	0			

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

QC SUMMARY REPORT

Method Blank

CLIENT: Giant Refining Co
 Work Order: 0508346
 Project: RR Rock Lagoon Add. Exc. 8-30-05

Sample ID	MB-8646	Batch ID: 8646	Test Code: SW8270C	Units: mg/Kg	Analysis Date	9/4/2005	Prep Date	8/31/2005
Client ID:			Run ID:	ELMO_050904A	SeqNo:	395725		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Acenaphthene	ND	0.2						
Acenaphthylene	ND	0.2						
Aniline	ND	0.2						
Anthracene	ND	0.2						
Azobenzene	ND	0.2						
Benz(a)anthracene	ND	0.25						
Benzidine	ND	0.2						
Benzo(a)pyrene	ND	0.2						
Benzo(b)fluoranthene	ND	0.2						
Benzo(g,h,i)perylene	ND	0.3						
Benzo(k)fluoranthene	ND	0.5						
Benzoic acid	ND	0.5						
Benzyl alcohol	ND	0.5						
Bis(2-chloroethoxy)methane	ND	0.5						
Bis(2-chloroethyl)ether	ND	0.25						
Bis(2-chloroisopropyl)ether	ND	0.5						
Bis(2-ethylhexyl)phthalate	0.04733	0.2						
4-Bromophenyl phenyl ether	ND	0.25						
Butyl benzyl phthalate	ND	0.2						
Carbazole	ND	0.2						
4-Chloro-3-methylphenol	ND	0.2						
4-Chloroaniline	ND	0.2						
2-Chloronaphthalene	ND	0.2						
2-Chlorophenol	ND	0.2						
4-Chlorophenyl phenyl ether	ND	0.2						
Chrysene	ND	0.2						
Di-n-butyl phthalate	1.756	0.25						
Di-n-octyl phthalate	ND	0.5						

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

QC SUMMARY REPORT

Method Blank

CLIENT: Giant Refining Co

Work Order: 0508346

Project: RR Rock Lagoon Add. Exc. 8-30-05

Dibenz(a,h)anthracene	ND	0.25
Dibenzofuran	ND	0.5
1,2-Dichlorobenzene	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
3,3'-Dichlorobenzidine	ND	0.2
Diethyl phthalate	ND	0.2
Dimethyl phthalate	ND	0.2
2,4-Dichlorophenol	ND	0.2
2,4-Dimethylphenol	ND	0.2
4,6-Dinitro-2-methylphenol	ND	0.5
2,4-Dinitrophenol	ND	0.5
2,4-Dinitrotoluene	ND	0.2
2,6-Dinitrotoluene	ND	0.2
Fluoranthene	ND	0.2
Fluorene	ND	0.2
Hexachlorobenzene	ND	0.2
Hexachlorobutadiene	ND	0.2
Hexachlorocyclopentadiene	ND	0.25
Hexachloroethane	ND	0.5
Indeno(1,2,3-cd)pyrene	ND	0.2
Isophorone	ND	0.2
2-Methylnaphthalene	ND	0.2
2-Methylphenol	ND	0.2
3+4-Methylphenol	ND	0.2
N-Nitrosodi-n-propylamine	ND	0.2
N-Nitrosodiphenylamine	ND	0.2
Naphthalene	ND	0.2
2-Nitroaniline	ND	0.5
3-Nitroaniline	ND	0.5
4-Nitroaniline	ND	0.25
Nitrobenzene	ND	0.2
2-Nitrophenol	ND	0.2

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

Method Blank

CLIENT: Giant Refining Co

Work Order: 0508346

Project: RR Rock Lagoon Add. Exc. 8-30-05

Compound	Concentration (ppm)	Retention Time (min)	Mass (g)	Area (a.u.)	Height (a.u.)	Width (min)	Signal-to-Noise Ratio	Identification
4-Nitrophenol	0.2	ND	ND	ND	ND	ND	ND	4-Nitrophenol
Pentachlorophenol	0.5	ND	ND	ND	ND	ND	ND	Pentachlorophenol
Phenanthrene	0.2	ND	ND	ND	ND	ND	ND	Phenanthrene
Phenol	0.2	ND	ND	ND	ND	ND	ND	Phenol
Pyrene	0.2	ND	ND	ND	ND	ND	ND	Pyrene
Pyridine	0.5	ND	ND	ND	ND	ND	ND	Pyridine
1,2,4-Trichlorobenzene	0.2	ND	ND	ND	ND	ND	ND	1,2,4-Trichlorobenzene
2,4,5-Trichlorophenol	0.2	ND	ND	ND	ND	ND	ND	2,4,5-Trichlorophenol
2,4,6-Trichlorophenol	0.2	ND	ND	ND	ND	ND	ND	2,4,6-Trichlorophenol
Surr: 2,4,6-Tribromophenol	0	2.551	0	3.33	0	76.6	35.5	141
Surr: 2-Fluorobiphenyl	0	1.208	0	1.67	0	72.3	30.4	128
Surr: 2-Fluorophenol	0	2.424	0	3.33	0	72.8	28.1	129
Surr: 4-Terphenyl-d14	0	1.411	0	1.67	0	84.5	34.6	151
Surr: Nitrobenzene-d5	0	1.161	0	1.67	0	69.5	26.5	122
Surr: Phenol-d6	0	2.484	0	3.33	0	74.6	37.6	118

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

QC SUMMARY REPORT
Method Blank

CLIENT: Giant Refining Co
 Work Order: 0508346
 Project: RR Rock Lagoon Add. Exc. 8-30-05

Sample ID	mb-8648	Batch ID: 8648	Test Code: SW8260B	Units: mg/Kg	Analysis Date 9/3/2005	Prep Date 8/31/2005					
Client ID:		Run ID: THOR_050903A	SeqNo: 395596								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.05	0	0	0	0	0	0			
Toluene	ND	0.05	0	0	0	0	0	0			
Ethylbenzene	ND	0.05	0	0	0	0	0	0			
Xylenes, Total	ND	0.05	0	0	0	0	0	0			
Surr: 4-Bromofluorobenzene	0.5104	0	0.5	0	102	72.9	143	0			
Surr: Dibromofluoromethane	0.4749	0	0.5	0	95.0	85.2	118	0			

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

Hall Environmental Analysis Laboratory

Date: 07-Sep-05

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: Giant Refining Co

Work Order: 0508346

Project: RR Rock Lagoon Add. Exc. 8-30-05

Sample ID	LCS-8649	Batch ID: 8649	Test Code: SW8015	Unlis: mg/Kg	Analysis Date	9/1/2005 10:00:21 PM	Prep Date	8/31/2005				
Client ID:			Run ID: FID(17A) 2_050901A		SeqNo: 395110							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		45.26	10	50	0	90.5	67.4	117	0			

Sample ID	LCSD-8649	Batch ID: 8649	Test Code: SW8015	Unlis: mg/Kg	Analysis Date	9/1/2005 11:05:57 PM	Prep Date	8/31/2005				
Client ID:			Run ID: FID(17A) 2_050901A		SeqNo: 395112							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		49.38	10	50	0	98.8	67.4	117	45.26	8.70	17.4	

Sample ID	ics-8648	Batch ID: 8648	Test Code: SW8260B	Unlis: mg/Kg	Analysis Date	9/3/2005	Prep Date	8/31/2005				
Client ID:			Run ID: THOR_050903A		SeqNo: 395601							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		0.8733	0.05	1	0	87.3	78	126	0			
Toluene		1.016	0.05	1	0	102	79.4	117	0			

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limitsS - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: Giant Refining Co
 Work Order: 0508346
 Project: RR Rock Lagoon Add. Exc. 8-30-05

Sample ID	LCS-8646	Batch ID: 8646	Test Code: SW8270C	Unlts: mg/Kg	Analysis Date	9/4/2005	Prep Date	8/31/2005			
Client ID:			Run ID:	ELMO_050904A	SeqNo:	395726					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1.284	0.2	1.67	0	75.7	24	125	0			
4-Chloro-3-methylphenol	2.484	0.2	3.33	0	74.6	14.6	154	0			
2-Chlorophenol	2.206	0.2	3.33	0	66.2	13.3	149	0			
1,4-Dichlorobenzene	1.053	0.2	1.67	0	63.1	23.6	118	0			
2,4-Dinitrotoluene	1.257	0.2	1.67	0	75.2	28	136	0			
N-Nitrosodi-n-propylamine	1.099	0.2	1.67	0	65.8	28	114	0			
4-Nitrophenol	2.786	0.2	3.33	0	83.7	13.1	150	0			
Pentachlorophenol	2.67	0.5	3.33	0	80.2	20.1	139	0			
Phenol	2.236	0.2	3.33	0	67.2	17.3	141	0			
Pyrene	1.306	0.2	1.67	0	78.2	29	131	0			
1,2,4-Trichlorobenzene	1.096	0.2	1.67	0	65.6	17.9	126	0			

Sample ID	LCSD-8646	Batch ID: 8646	Test Code: SW8270C	Units: mg/Kg	Analysis Date 9/4/2005	Prep Date 8/31/2005					
Client ID:			Run ID: ELMO_050904A		SeqNo: 395728						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1.397	0.2	1.67	0	83.7	24	125	1.264	10.0	25	
4-Chloro-3-methylphenol	2.881	0.2	3.33	0	86.5	14.6	154	2.484	14.8	25	
2-Chlorophenol	2.495	0.2	3.33	0	74.9	13.3	149	2.206	12.3	25	
1,4-Dichlorobenzene	1.155	0.2	1.67	0	69.2	23.6	118	1.053	9.21	25	
2,4-Dinitrotoluene	1.369	0.2	1.67	0	83.2	28	136	1.257	10.0	25	
4-Nitrosodi-n-propylamine	1.241	0.2	1.67	0	74.3	28	114	1.099	12.2	25	
4-Nitrophenol	3.195	0.2	3.33	0	96.0	13.1	150	2.786	13.7	25	
Pentachlorophenol	2.888	0.5	3.33	0	86.7	20.1	139	2.67	7.85	25	
Phenol	2.534	0.2	3.33	0	76.1	17.3	141	2.236	12.5	25	
Pyrene	1.411	0.2	1.67	0	84.5	29	131	1.306	7.73	25	
2,4-Trichlorobenzene	1.22	0.2	1.67	0	73.1	17.9	126	1.096	10.7	25	

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

8/31/2005

Work Order Number 0508346

Received by AT

Checklist completed by

Signature

Date

8/31/05

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 _____

Client: <i>Grant Refining</i>	Project Name: <i>RR Rock Lagoon</i>
<i>Company - Civil</i>	<i>Additional Excavation 8-30-05</i>
Address: <i>Route 3 Box 7</i>	Project #:
<i>Callup, NM 87391</i>	

Phone #: 505 722 2833
Fax #: 505 722 0210

Date	Time	Matrix	Sample I.D. No.
30/05	0715		RR-1-83005
"	0730		RR-2-83005
"	0740		RR-3-83005
"	0750		RR-4-83005
"	0800		RR-5-83005
"	0810		RR-6-83005
"	0820		RR-7-83005
"	0830		RR-8-83005
"	0840		RR-9-83005
"	0900		RR-10-83005

Date: 11/05	Time: 0855	Relinquished By: (Signature) <i>Steve Morris</i>
Date:	Time:	Relinquished By: (Signature)

QA/QC Package: Std ☐ Level 4 ☐

Other: _____

Project Name: RR Rock Lagoon
Additional Specification 8-30-05

Project #:

Project Manager: Steve Smith
 Sampler: Steve Smith
 Sample Temperature: 8

Number/Volume	Preservative		HEAL No.
	HgCl ₂	HNO ₃	
2-403			0508346-1
"			-2
"			3
"			-4
"			-5
"			-6
"			-7
"			-8
"			-9
"			-10

Received By: (Signature)	8/31/05	
Received By: (Signature)	0855	

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4
www.hallenvironmental.com

ANALYSIS REQUEST

[illegible]

Remarks: PUSA

COVER LETTER

August 31, 2005

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

RE: RR Rock Lagoon NW Add. Excav.

Order No.: 0508272

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 4 samples on 8/24/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co
Lab Order: 0508272
Project: RR Rock Lagoon NW Add. Excav.
Lab ID: 0508272-01

Client Sample ID: North Wall
Collection Date: 8/22/2005 1:00:00 PM
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	8/29/2005 8:05:54 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/29/2005 8:05:54 AM
Surr: DNOP	86.2	60-124		%REC	1	8/29/2005 8:05:54 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/30/2005 6:08:35 PM
Surr: BFB	102	83.1-124		%REC	1	8/30/2005 6:08:35 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	8/30/2005 6:08:35 PM
Benzene	ND	0.025		mg/Kg	1	8/30/2005 6:08:35 PM
Toluene	ND	0.025		mg/Kg	1	8/30/2005 6:08:35 PM
Ethylbenzene	ND	0.025		mg/Kg	1	8/30/2005 6:08:35 PM
Xylenes, Total	ND	0.025		mg/Kg	1	8/30/2005 6:08:35 PM
Surr: 4-Bromofluorobenzene	99.0	87.5-115		%REC	1	8/30/2005 6:08:35 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	0.20		mg/Kg	1	8/25/2005
Acenaphthylene	ND	0.20		mg/Kg	1	8/25/2005
Aniline	ND	0.20		mg/Kg	1	8/25/2005
Anthracene	ND	0.20		mg/Kg	1	8/25/2005
Azobenzene	ND	0.20		mg/Kg	1	8/25/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	8/25/2005
Benzidine	ND	0.20		mg/Kg	1	8/25/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/25/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/25/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	8/25/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	8/25/2005
Benzoic acid	ND	0.50		mg/Kg	1	8/25/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	8/25/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	8/25/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	8/25/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	8/25/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	8/25/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	8/25/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	8/25/2005
Carbazole	ND	0.20		mg/Kg	1	8/25/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	8/25/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	8/25/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	8/25/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	8/25/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	8/25/2005

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

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

Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: North Wall

Lab Order: 0508272

Collection Date: 8/22/2005 1:00:00 PM

Project: RR Rock Lagoon NW Add. Excav.

Lab ID: 0508272-01

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	0.20		mg/Kg	1	8/25/2005
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	8/25/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	8/25/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	8/25/2005
Dibenzofuran	ND	0.50		mg/Kg	1	8/25/2005
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	8/25/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	8/25/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	8/25/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	8/25/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	8/25/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/25/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	8/25/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	8/25/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	8/25/2005
Fluoranthene	ND	0.20		mg/Kg	1	8/25/2005
Fluorene	ND	0.20		mg/Kg	1	8/25/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	8/25/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	8/25/2005
Hexachloroethane	ND	0.50		mg/Kg	1	8/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/25/2005
Isophorone	ND	0.20		mg/Kg	1	8/25/2005
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/25/2005
2-Methylphenol	ND	0.20		mg/Kg	1	8/25/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/25/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	8/25/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	8/25/2005
Naphthalene	ND	0.20		mg/Kg	1	8/25/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	8/25/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	8/25/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	8/25/2005
Nitrobenzene	ND	0.20		mg/Kg	1	8/25/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	8/25/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	8/25/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	8/25/2005
Phenanthrene	ND	0.20		mg/Kg	1	8/25/2005
Phenol	ND	0.20		mg/Kg	1	8/25/2005
Pyrene	ND	0.20		mg/Kg	1	8/25/2005
Pyridine	ND	0.50		mg/Kg	1	8/25/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: North Wall

Lab Order: 0508272

Collection Date: 8/22/2005 1:00:00 PM

Project: RR Rock Lagoon NW Add. Excav.

Lab ID: 0508272-01

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/25/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/25/2005
Surr: 2,4,6-Tribromophenol	92.9	35.5-141		%REC	1	8/25/2005
Surr: 2-Fluorobiphenyl	65.6	30.4-128		%REC	1	8/25/2005
Surr: 2-Fluorophenol	60.0	28.1-129		%REC	1	8/25/2005
Surr: 4-Terphenyl-d14	90.6	34.6-151		%REC	1	8/25/2005
Surr: Nitrobenzene-d5	64.4	26.5-122		%REC	1	8/25/2005
Surr: Phenol-d6	67.5	37.6-118		%REC	1	8/25/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co
Lab Order: 0508272
Project: RR Rock Lagoon NW Add. Excav.
Lab ID: 0508272-02

Client Sample ID: North BTM
Collection Date: 8/22/2005 1:15:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	41	10		mg/Kg	1	8/29/2005 8:38:42 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/29/2005 8:38:42 AM
Surr: DNOP	72.4	60-124		%REC	1	8/29/2005 8:38:42 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/30/2005 6:40:19 PM
Surr: BFB	108	83.1-124		%REC	1	8/30/2005 6:40:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	8/30/2005 6:40:19 PM
Benzene	ND	0.025		mg/Kg	1	8/30/2005 6:40:19 PM
Toluene	ND	0.025		mg/Kg	1	8/30/2005 6:40:19 PM
Ethylbenzene	ND	0.025		mg/Kg	1	8/30/2005 6:40:19 PM
Xylenes, Total	ND	0.025		mg/Kg	1	8/30/2005 6:40:19 PM
Surr: 4-Bromofluorobenzene	102	87.5-115		%REC	1	8/30/2005 6:40:19 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	0.20		mg/Kg	1	8/25/2005
Acenaphthylene	ND	0.20		mg/Kg	1	8/25/2005
Aniline	ND	0.20		mg/Kg	1	8/25/2005
Anthracene	ND	0.20		mg/Kg	1	8/25/2005
Azobenzene	ND	0.20		mg/Kg	1	8/25/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	8/25/2005
Benzidine	ND	0.20		mg/Kg	1	8/25/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/25/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/25/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	8/25/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	8/25/2005
Benzoic acid	ND	0.50		mg/Kg	1	8/25/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	8/25/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	8/25/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	8/25/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	8/25/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	8/25/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	8/25/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	8/25/2005
Carbazole	ND	0.20		mg/Kg	1	8/25/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	8/25/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	8/25/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	8/25/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	8/25/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	8/25/2005

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

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

Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: North BTM

Lab Order: 0508272

Collection Date: 8/22/2005 1:15:00 PM

Project: RR Rock Lagoon NW Add. Excav.

Lab ID: 0508272-02

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	0.20		mg/Kg	1	8/25/2005
Di-n-butyl phthalate	0.37	0.25		mg/Kg	1	8/25/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	8/25/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	8/25/2005
Dibenzofuran	ND	0.50		mg/Kg	1	8/25/2005
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	8/25/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	8/25/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	8/25/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	8/25/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	8/25/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/25/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	8/25/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	8/25/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	8/25/2005
Fluoranthene	ND	0.20		mg/Kg	1	8/25/2005
Fluorene	ND	0.20		mg/Kg	1	8/25/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	8/25/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	8/25/2005
Hexachloroethane	ND	0.50		mg/Kg	1	8/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/25/2005
Isophorone	ND	0.20		mg/Kg	1	8/25/2005
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/25/2005
2-Methylphenol	ND	0.20		mg/Kg	1	8/25/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/25/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	8/25/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	8/25/2005
Naphthalene	ND	0.20		mg/Kg	1	8/25/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	8/25/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	8/25/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	8/25/2005
Nitrobenzene	ND	0.20		mg/Kg	1	8/25/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	8/25/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	8/25/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	8/25/2005
Phenanthrene	ND	0.20		mg/Kg	1	8/25/2005
Phenol	ND	0.20		mg/Kg	1	8/25/2005
Pyrene	ND	0.20		mg/Kg	1	8/25/2005
Pyridine	ND	0.50		mg/Kg	1	8/25/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: North BTM

Lab Order: 0508272

Collection Date: 8/22/2005 1:15:00 PM

Project: RR Rock Lagoon NW Add. Excav.

Lab ID: 0508272-02

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/25/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/25/2005
Surr: 2,4,6-Tribromophenol	103	35.5-141		%REC	1	8/25/2005
Surr: 2-Fluorobiphenyl	70.4	30.4-128		%REC	1	8/25/2005
Surr: 2-Fluorophenol	66.5	28.1-129		%REC	1	8/25/2005
Surr: 4-Terphenyl-d14	92.6	34.6-151		%REC	1	8/25/2005
Surr: Nitrobenzene-d5	60.5	26.5-122		%REC	1	8/25/2005
Surr: Phenol-d6	66.1	37.6-118		%REC	1	8/25/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co
Lab Order: 0508272
Project: RR Rock Lagoon NW Add. Excav.
Lab ID: 0508272-03

Client Sample ID: South Wall
Collection Date: 8/22/2005 1:30:00 PM

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	8/29/2005 9:11:30 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/29/2005 9:11:30 AM
Surr: DNOP	70.1	60-124		%REC	1	8/29/2005 9:11:30 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/30/2005 7:43:24 PM
Surr: BFB	97.7	83.1-124		%REC	1	8/30/2005 7:43:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	8/30/2005 7:43:24 PM
Benzene	ND	0.025		mg/Kg	1	8/30/2005 7:43:24 PM
Toluene	ND	0.025		mg/Kg	1	8/30/2005 7:43:24 PM
Ethylbenzene	ND	0.025		mg/Kg	1	8/30/2005 7:43:24 PM
Xylenes, Total	ND	0.025		mg/Kg	1	8/30/2005 7:43:24 PM
Surr: 4-Bromofluorobenzene	98.9	87.5-115		%REC	1	8/30/2005 7:43:24 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	0.20		mg/Kg	1	8/25/2005
Acenaphthylene	ND	0.20		mg/Kg	1	8/25/2005
Aniline	ND	0.20		mg/Kg	1	8/25/2005
Anthracene	ND	0.20		mg/Kg	1	8/25/2005
Azobenzene	ND	0.20		mg/Kg	1	8/25/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	8/25/2005
Benzidine	ND	0.20		mg/Kg	1	8/25/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/25/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/25/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	8/25/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	8/25/2005
Benzoic acid	ND	0.50		mg/Kg	1	8/25/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	8/25/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	8/25/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	8/25/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	8/25/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	8/25/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	8/25/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	8/25/2005
Carbazole	ND	0.20		mg/Kg	1	8/25/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	8/25/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	8/25/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	8/25/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	8/25/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	8/25/2005

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

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

Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: South Wall

Lab Order: 0508272

Collection Date: 8/22/2005 1:30:00 PM

Project: RR Rock Lagoon NW Add. Excav.

Lab ID: 0508272-03

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	0.20		mg/Kg	1	8/25/2005
Di-n-butyl phthalate	0.25	0.25		mg/Kg	1	8/25/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	8/25/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	8/25/2005
Dibenzofuran	ND	0.50		mg/Kg	1	8/25/2005
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	8/25/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	8/25/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	8/25/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	8/25/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	8/25/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/25/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	8/25/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	8/25/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	8/25/2005
Fluoranthene	ND	0.20		mg/Kg	1	8/25/2005
Fluorene	ND	0.20		mg/Kg	1	8/25/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	8/25/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	8/25/2005
Hexachloroethane	ND	0.50		mg/Kg	1	8/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/25/2005
Isophorone	ND	0.20		mg/Kg	1	8/25/2005
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/25/2005
2-Methylphenol	ND	0.20		mg/Kg	1	8/25/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/25/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	8/25/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	8/25/2005
Naphthalene	ND	0.20		mg/Kg	1	8/25/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	8/25/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	8/25/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	8/25/2005
Nitrobenzene	ND	0.20		mg/Kg	1	8/25/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	8/25/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	8/25/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	8/25/2005
Phenanthrene	ND	0.20		mg/Kg	1	8/25/2005
Phenol	ND	0.20		mg/Kg	1	8/25/2005
Pyrene	ND	0.20		mg/Kg	1	8/25/2005
Pyridine	ND	0.50		mg/Kg	1	8/25/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: South Wall

Lab Order: 0508272

Collection Date: 8/22/2005 1:30:00 PM

Project: RR Rock Lagoon NW Add. Excav.

Lab ID: 0508272-03

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/25/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/25/2005
Surr: 2,4,6-Tribromophenol	96.6	35.5-141		%REC	1	8/25/2005
Surr: 2-Fluorobiphenyl	63.1	30.4-128		%REC	1	8/25/2005
Surr: 2-Fluorophenol	63.9	28.1-129		%REC	1	8/25/2005
Surr: 4-Terphenyl-d14	92.8	34.6-151		%REC	1	8/25/2005
Surr: Nitrobenzene-d5	65.8	26.5-122		%REC	1	8/25/2005
Surr: Phenol-d6	66.8	37.6-118		%REC	1	8/25/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co Client Sample ID: South BTM
 Lab Order: 0508272 Collection Date: 8/22/2005 1:45:00 PM
 Project: RR Rock Lagoon NW Add. Excav.
 Lab ID: 0508272-04 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	8/29/2005 10:17:43 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/29/2005 10:17:43 AM
Surr: DNOP	66.9	60-124		%REC	1	8/29/2005 10:17:43 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/30/2005 8:14:49 PM
Surr: BFB	104	83.1-124		%REC	1	8/30/2005 8:14:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	8/30/2005 8:14:49 PM
Benzene	ND	0.025		mg/Kg	1	8/30/2005 8:14:49 PM
Toluene	ND	0.025		mg/Kg	1	8/30/2005 8:14:49 PM
Ethylbenzene	ND	0.025		mg/Kg	1	8/30/2005 8:14:49 PM
Xylenes, Total	ND	0.025		mg/Kg	1	8/30/2005 8:14:49 PM
Surr: 4-Bromofluorobenzene	101	87.5-115		%REC	1	8/30/2005 8:14:49 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	0.20		mg/Kg	1	8/25/2005
Acenaphthylene	ND	0.20		mg/Kg	1	8/25/2005
Aniline	ND	0.20		mg/Kg	1	8/25/2005
Anthracene	ND	0.20		mg/Kg	1	8/25/2005
Azobenzene	ND	0.20		mg/Kg	1	8/25/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	8/25/2005
Benzidine	ND	0.20		mg/Kg	1	8/25/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/25/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/25/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	8/25/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	8/25/2005
Benzoic acid	ND	0.50		mg/Kg	1	8/25/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	8/25/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	8/25/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	8/25/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	8/25/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	8/25/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	8/25/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	8/25/2005
Carbazole	ND	0.20		mg/Kg	1	8/25/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	8/25/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	8/25/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	8/25/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	8/25/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	8/25/2005

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co **Client Sample ID:** South BTM
Lab Order: 0508272 **Collection Date:** 8/22/2005 1:45:00 PM
Project: RR Rock Lagoon NW Add. Excav.
Lab ID: 0508272-04 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	0.20		mg/Kg	1	8/25/2005
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	8/25/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	8/25/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	8/25/2005
Dibenzofuran	ND	0.50		mg/Kg	1	8/25/2005
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	8/25/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	8/25/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	8/25/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	8/25/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	8/25/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/25/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	8/25/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	8/25/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	8/25/2005
Fluoranthene	ND	0.20		mg/Kg	1	8/25/2005
Fluorene	ND	0.20		mg/Kg	1	8/25/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	8/25/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	8/25/2005
Hexachloroethane	ND	0.50		mg/Kg	1	8/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/25/2005
Isophorone	ND	0.20		mg/Kg	1	8/25/2005
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/25/2005
2-Methylphenol	ND	0.20		mg/Kg	1	8/25/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/25/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	8/25/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	8/25/2005
Naphthalene	ND	0.20		mg/Kg	1	8/25/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	8/25/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	8/25/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	8/25/2005
Nitrobenzene	ND	0.20		mg/Kg	1	8/25/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	8/25/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	8/25/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	8/25/2005
Phenanthrene	ND	0.20		mg/Kg	1	8/25/2005
Phenol	ND	0.20		mg/Kg	1	8/25/2005
Pyrene	ND	0.20		mg/Kg	1	8/25/2005
Pyridine	ND	0.50		mg/Kg	1	8/25/2005

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

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: South BTM

Lab Order: 0508272

Collection Date: 8/22/2005 1:45:00 PM

Project: RR Rock Lagoon NW Add. Excav.

Lab ID: 0508272-04

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	8/25/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/25/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/25/2005
Surr: 2,4,6-Tribromophenol	58.6	35.5-141		%REC	1	8/25/2005
Surr: 2-Fluorobiphenyl	36.3	30.4-128		%REC	1	8/25/2005
Surr: 2-Fluorophenol	39.3	28.1-129		%REC	1	8/25/2005
Surr: 4-Terphenyl-d14	77.3	34.6-151		%REC	1	8/25/2005
Surr: Nitrobenzene-d5	37.2	26.5-122		%REC	1	8/25/2005
Surr: Phenol-d6	38.6	37.6-118		%REC	1	8/25/2005

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

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

Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co
Work Order: 0508272
Project: RR Rock Lagoon NW Add. Excav.

QC SUMMARY REPORT

Method Blank

Sample ID **MB-8603** Batch ID: **8603** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **8/25/2005 4:13:11 PM** Prep Date **8/24/2005**
 Client ID: Run ID: **FID(17A) 2_050824A** SeqNo: **392317**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	8.098	0	10	0	81.0	60	124	0			

Sample ID **mb-8607** Batch ID: **8607** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **8/30/2005 4:33:28 PM** Prep Date **8/24/2005**
 Client ID: Run ID: **PIDFID_050830A** SeqNo: **393964**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5									
Surr: BFB	1012	0	1000	0	101	83.1	124	0			

Sample ID **mb-8607** Batch ID: **8607** Test Code: **SW8021** Units: **mg/Kg** Analysis Date **8/30/2005 4:33:28 PM** Prep Date **8/24/2005**
 Client ID: Run ID: **PIDFID_050830A** SeqNo: **393927**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1									
Benzene	ND	0.025									
Toluene	ND	0.025									
Ethylbenzene	ND	0.025									
Xylenes, Total	ND	0.025									
Surr: 4-Bromofluorobenzene	0.9898	0	1	0	99.0	87.5	115	0			

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

CLIENT: Giant Refining Co
Work Order: 0508272
Project: RR Rock Lagoon NW Add. Excav.

QC SUMMARY REPORT
Method Blank

Sample ID	MB-8613	Batch ID: 8613	Test Code: SW8270C	Units: mg/Kg	Analysis Date	8/25/2005	Prep Date	8/24/2005			
Client ID:			Run ID:	ELMO_050825A	SeqNo:	392429					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.2									
Acenaphthylene	ND	0.2									
Aniline	ND	0.2									
Anthracene	ND	0.2									
Azobenzene	ND	0.2									
Benz(a)anthracene	ND	0.25									
Benzdine	ND	0.2									
Benzo(a)pyrene	ND	0.2									
Benzo(b)fluoranthene	ND	0.2									
Benzo(g,h,i)perylene	ND	0.3									
Benzo(k)fluoranthene	ND	0.5									
Benzoic acid	ND	0.5									
Benzyl alcohol	ND	0.5									
Bis(2-chloroethoxy)methane	ND	0.5									
Bis(2-chloroethyl)ether	ND	0.25									
Bis(2-chloroisopropyl)ether	ND	0.5									
Bis(2-ethylhexyl)phthalate	0.07633	0.2									J
4-Bromophenyl phenyl ether	ND	0.25									
Butyl benzyl phthalate	ND	0.2									
Carbazole	ND	0.2									
4-Chloro-3-methylphenol	ND	0.2									
4-Chloroaniline	ND	0.2									
2-Chloronaphthalene	ND	0.2									
2-Chlorophenol	ND	0.2									
4-Chlorophenyl phenyl ether	ND	0.2									
Chrysene	ND	0.2									
Di-n-butyl phthalate	0.1017	0.25									J
Di-n-octyl phthalate	ND	0.5									

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

QC SUMMARY REPORT

Method Blank

CLIENT: Giant Refining Co

Work Order: 0508272

Project: RR Rock Lagoon NW Add. Excav.

Dibenz(a,h)anthracene	ND	0.25
Dibenzofuran	ND	0.5
1,2-Dichlorobenzene	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
3,3'-Dichlorobenzidine	ND	0.2
Diethyl phthalate	ND	0.2
Dimethyl phthalate	ND	0.2
2,4-Dichlorophenol	ND	0.2
2,4-Dimethylphenol	ND	0.2
4,6-Dinitro-2-methylphenol	ND	0.5
2,4-Dinitrophenol	ND	0.5
2,4-Dinitrotoluene	ND	0.2
2,6-Dinitrotoluene	ND	0.2
Fluoranthene	ND	0.2
Fluorene	ND	0.2
Hexachlorobenzene	ND	0.2
Hexachlorobutadiene	ND	0.2
Hexachlorocyclopentadiene	ND	0.25
Hexachloroethane	ND	0.5
Indeno(1,2,3-cd)pyrene	ND	0.2
Isophorone	ND	0.2
2-Methylnaphthalene	ND	0.2
2-Methylphenol	ND	0.2
3+4-Methylphenol	ND	0.2
N-Nitrosodi-n-propylamine	ND	0.2
N-Nitrosodiphenylamine	ND	0.2
Naphthalene	ND	0.2
2-Nitroaniline	ND	0.5
3-Nitroaniline	ND	0.5
4-Nitroaniline	ND	0.25
Nitrobenzene	ND	0.2
2-Nitrophenol	ND	0.2

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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

B - Analyte detected in the associated Method Blank

Method Blank

Project: RR Rock Lagoon NW Add. Excav.

[illegible]

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

Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co
Work Order: 0508272
Project: RR Rock Lagoon NW Add. Excav.

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID	0508272-01a ms	Batch ID: 8607	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/30/2005 8:46:18 PM	Prep Date	8/24/2005			
Client ID:	North Wall	Run ID:	PIDFID_050830A		SeqNo:	393971					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25.26	5	25	0	101	84	120	0			
Surr: BFB	1065	0	1000	0	106	83.1	124	0			

Sample ID	0508272-01a msd	Batch ID: 8607	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/30/2005 9:17:21 PM	Prep Date	8/24/2005			
Client ID:	North Wall	Run ID:	PIDFID_050830A	SeqNo:	393972						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23.88	5	25	0	95.5	84	120	25.26	5.62	11.6	
Surr: BFB	1096	0	1000	0	110	83.1	124	1065	2.86	0	

Sample ID	0508272-01a.ms	Batch ID: 8607	Test Code: SW8021	Units: mg/Kg	Analysis Date	8/30/2005 8:46:18 PM	Prep Date	8/24/2005			
Client ID:	North Wall	Run ID:	PIDFID_050830A	SeqNo:	393939						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.746	0.1	2	0	87.3	65	132	0			
Benzene	0.4063	0.025	0.42	0	96.7	85.6	116	0			
Toluene	2.051	0.025	1.9	0	108	82.4	120	0			
Ethylbenzene	0.4099	0.025	0.41	0	100	86.4	111	0			
Xylenes, Total	2.026	0.025	1.9	0	107	78.4	125	0			
Surr: 4-Bromofluorobenzene	1.062	0	1	0	106	87.5	115	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

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

B - Analyte detected in the associated Method Blank

/

CLIENT: Giant Refining Co
Work Order: 0508272
Project: RR Rock Lagoon NW Add. Excav.

QC SUMMARY REPORT
 Sample Matrix Spike Duplicate

Sample ID	0508272-01a.ms	Batch ID	8607	Test Code	SW8021	Units	mg/Kg	Analysis Date	8/30/2005 9:17:21 PM	Prep Date	8/24/2005
Client ID	North Wall	Run ID	PID	ID	050830A			SeqNo	393940		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.697	0.1	2	0	84.8	65	132	1.746	2.86	28	
Benzene	0.4188	0.025	0.42	0	99.7	85.6	116	0.4063	3.03	27	
Toluene	2.091	0.025	1.9	0	110	82.4	120	2.051	1.94	19	
Ethylbenzene	0.4074	0.025	0.41	0	99.4	86.4	111	0.4099	0.622	10	
Xylenes, Total	2.044	0.025	1.9	0	108	78.4	125	2.026	0.923	13	
Surr: 4-Bromofluorobenzene	1.053	0	1	0	105	87.5	115	1.062	0.816	0	

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

Hall Environmental Analysis Laboratory

Date: 31-Aug-05

CLIENT: Giant Refining Co
Work Order: 0508272
Project: RR Rock Lagoon NW Add. Excav.

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	LCS-8603	Batch ID:	8603	Test Code:	SW8015	Units:	mg/Kg	Analysis Date	8/25/2005 5:19:21 PM	Prep Date	8/24/2005
Client ID:		Run ID:		FID(17A) 2_050824A				SeqNo:	392318		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Diesel Range Organics (DRO)		43.03	10	10	50	0	86.1	67.4	117	0	

Sample ID	LCSD-8603	Batch ID:	8603	Test Code:	SW8015	Units:	mg/Kg	Analysis Date	8/26/2005 7:29:18 AM	Prep Date	8/24/2005
Client ID:		Run ID:		FID(17A) 2_050824A				SeqNo:	392319		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Diesel Range Organics (DRO)		38.09	10	10	50	0	76.2	67.4	117	43.03	12.2 17.4

Sample ID	Ics-8607	Batch ID:	8607	Test Code:	SW8015	Units:	mg/Kg	Analysis Date	8/30/2005 5:05:02 PM	Prep Date	8/24/2005
Client ID:		Run ID:		PIDFID_050830A				SeqNo:	393965		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Gasoline Range Organics (GRO)		26.86	5	5	25	0	107	84	120	0	

Sample ID	Ics-8607	Batch ID:	8607	Test Code:	SW8021	Units:	mg/Kg	Analysis Date	8/30/2005 5:05:02 PM	Prep Date	8/24/2005
Client ID:		Run ID:		PIDFID_050830A				SeqNo:	393929		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Methyl tert-butyl ether (MTBE)		1.737	0.1	0.1	2	0	86.8	65	132	0	
Benzene		0.4379	0.025	0.025	0.42	0	104	85.6	116	0	
Toluene		2.211	0.025	0.025	1.9	0	116	82.4	120	0	
Ethylbenzene		0.43	0.025	0.025	0.41	0	105	86.4	111	0	
Xylenes, Total		2.147	0.025	0.025	1.9	0	113	78.4	125	0	

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

CLIENT: Giant Refining Co

Work Order: 0508272

Project: RR Rock Lagoon NW Add. Excav.

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	LCS-8613	Batch ID: 8613	Test Code: SW8270C	Units: mg/Kg	Analysis Date	8/25/2005	Prep Date	8/24/2005			
Client ID:			Run ID:	ELMO_050825A	SeqNo:	392430					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1.268	0.2	1.67	0	75.9	24	125	0			
4-Chloro-3-methylphenol	2.687	0.2	3.33	0	80.7	14.6	154	0			
2-Chlorophenol	2.195	0.2	3.33	0	65.9	13.3	149	0			
1,4-Dichlorobenzene	0.987	0.2	1.67	0	59.1	23.6	118	0			
2,4-Dinitrotoluene	1.288	0.2	1.67	0	77.1	28	136	0			
N-Nitrosodi-n-propylamine	1.043	0.2	1.67	0	62.5	28	114	0			
4-Nitrophenol	2.444	0.2	3.33	0	73.4	13.1	150	0			
Pentachlorophenol	3.074	0.5	3.33	0	92.3	20.1	139	0			
Phenol	2.247	0.2	3.33	0	67.5	17.3	141	0			
Pyrene	1.315	0.2	1.67	0	78.7	29	131	0			
1,2,4-Trichlorobenzene	1.15	0.2	1.67	0	68.8	17.9	126	0			

Sample ID	LCSD-8613	Batch ID: 8613	Test Code: SW8270C	Units: mg/Kg	Analysis Date	8/25/2005	Prep Date	8/24/2005			
Client ID:			Run ID:	ELMO_050825A	SeqNo:	392431					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1.272	0.2	1.67	0	76.2	24	125	1.268	0.341	25	
4-Chloro-3-methylphenol	2.474	0.2	3.33	0	74.3	14.6	154	2.687	8.28	25	
2-Chlorophenol	2.253	0.2	3.33	0	67.7	13.3	149	2.195	2.61	25	
1,4-Dichlorobenzene	0.922	0.2	1.67	0	55.2	23.6	118	0.987	6.81	25	
2,4-Dinitrotoluene	1.237	0.2	1.67	0	74.1	28	136	1.288	4.07	25	
N-Nitrosodi-n-propylamine	1.011	0.2	1.67	0	60.5	28	114	1.043	3.15	25	
4-Nitrophenol	2.316	0.2	3.33	0	69.6	13.1	150	2.444	5.36	25	
Pentachlorophenol	2.941	0.5	3.33	0	88.3	20.1	139	3.074	4.44	25	
Phenol	2.271	0.2	3.33	0	68.2	17.3	141	2.247	1.08	25	
Pyrene	1.243	0.2	1.67	0	74.4	29	131	1.315	5.63	25	
1,2,4-Trichlorobenzene	1.08	0.2	1.67	0	64.7	17.9	126	1.15	6.28	25	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

8/24/2005

Work Order Number 0508272

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?

6°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action

Gallup, NM 87301

Fax #: 505 722 0210

Sample I.D. No.

22

South Star

Preservative

HEAL No.

0508272

1

2

2

5

QA/QC Package:

Std 

Level 4

Other:

Project Name: RR Rock Lagoon

NW Additional Excavation

Project #:

Project Manager:

Steve Morris

Sampler:

Sampler: Steve Morris

Sample Temperature: _____

6

www.hallenvironmental.com



ANALYSIS REQUEST

[illegible]

Remarks:

End

Received By: (Signature)

8/24/05

Relinquished By: (Signature)

Time:

Date ✓

Received By: (Signature)

Relinquished By: (Signature)

Time:

Date: _____

COVER LETTER

August 26, 2005

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

RE: Railroad Rack Lagoon SWMU-Inlet Pipe E

Order No.: 0508233

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 12 samples on 8/19/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co
Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav
Lab Order: 0508233

CASE NARRATIVE

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

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co
Lab Order: 0508233
Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav
Lab ID: 0508233-01

Client Sample ID: Inlet Pipe 1 WS
Collection Date: 8/18/2005 2:00:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	1000	100		mg/Kg	10	8/21/2005 1:40:41 PM
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	8/21/2005 1:40:41 PM
Surr: DNOP	86.8	60-124		%REC	10	8/21/2005 1:40:41 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	8/22/2005 8:17:20 PM
Surr: BFB	105	83.1-124		%REC	20	8/22/2005 8:17:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.0		mg/Kg	20	8/22/2005 8:17:20 PM
Benzene	ND	0.50		mg/Kg	20	8/22/2005 8:17:20 PM
Toluene	ND	0.50		mg/Kg	20	8/22/2005 8:17:20 PM
Ethylbenzene	0.71	0.50		mg/Kg	20	8/22/2005 8:17:20 PM
Xylenes, Total	0.91	0.50		mg/Kg	20	8/22/2005 8:17:20 PM
Surr: 4-Bromofluorobenzene	108	87.5-115		%REC	20	8/22/2005 8:17:20 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	0.40	0.20		mg/Kg	1	8/22/2005
Acenaphthylene	ND	0.20		mg/Kg	1	8/22/2005
Aniline	ND	0.20		mg/Kg	1	8/22/2005
Anthracene	ND	0.20		mg/Kg	1	8/22/2005
Azobenzene	ND	0.20		mg/Kg	1	8/22/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	8/22/2005
Benidine	ND	0.20		mg/Kg	1	8/22/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/22/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/22/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	8/22/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	8/22/2005
Benzoic acid	ND	0.50		mg/Kg	1	8/22/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	8/22/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	8/22/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	8/22/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	8/22/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	8/22/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	8/22/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	8/22/2005
Carbazole	ND	0.20		mg/Kg	1	8/22/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	8/22/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	8/22/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	8/22/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	8/22/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	8/22/2005

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

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

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe 1 WS

Lab Order: 0508233

Collection Date: 8/18/2005 2:00:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-01

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	0.20		mg/Kg	1	8/22/2005
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	8/22/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	8/22/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	8/22/2005
Dibenzofuran	ND	0.50		mg/Kg	1	8/22/2005
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	8/22/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	8/22/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	8/22/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	8/22/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	8/22/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/22/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	8/22/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	8/22/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	8/22/2005
Fluoranthene	ND	0.20		mg/Kg	1	8/22/2005
Fluorene	0.61	0.20		mg/Kg	1	8/22/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	8/22/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	8/22/2005
Hexachloroethane	ND	0.50		mg/Kg	1	8/22/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/22/2005
Isophorone	ND	0.20		mg/Kg	1	8/22/2005
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/22/2005
2-Methylphenol	ND	0.20		mg/Kg	1	8/22/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/22/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	8/22/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	8/22/2005
Naphthalene	1.9	0.20		mg/Kg	1	8/22/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	8/22/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	8/22/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	8/22/2005
Nitrobenzene	ND	0.20		mg/Kg	1	8/22/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	8/22/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	8/22/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	8/22/2005
Phenanthrene	1.3	0.20		mg/Kg	1	8/22/2005
Phenol	ND	0.20		mg/Kg	1	8/22/2005
Pyrene	ND	0.20		mg/Kg	1	8/22/2005
Pyridine	ND	0.50		mg/Kg	1	8/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe 1 WS

Lab Order: 0508233

Collection Date: 8/18/2005 2:00:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-01

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/22/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/22/2005
Surr: 2,4,6-Tribromophenol	110	35.5-141		%REC	1	8/22/2005
Surr: 2-Fluorobiphenyl	94.4	30.4-128		%REC	1	8/22/2005
Surr: 2-Fluorophenol	75.7	28.1-129		%REC	1	8/22/2005
Surr: 4-Terphenyl-d14	92.9	34.6-151		%REC	1	8/22/2005
Surr: Nitrobenzene-d5	77.8	26.5-122		%REC	1	8/22/2005
Surr: Phenol-d6	84.4	37.6-118		%REC	1	8/22/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe 1 WN

Lab Order: 0508233

Collection Date: 8/18/2005 2:10:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-02

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	3500	1000		mg/Kg	100	8/21/2005 2:13:28 PM
Motor Oil Range Organics (MRO)	ND	5000		mg/Kg	100	8/21/2005 2:13:28 PM
Surr: DNOP	0	60-124	S	%REC	100	8/21/2005 2:13:28 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	250		mg/Kg	50	8/22/2005 8:48:54 PM
Surr: BFB	100	83.1-124		%REC	50	8/22/2005 8:48:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	5.0		mg/Kg	50	8/22/2005 8:48:54 PM
Benzene	ND	1.3		mg/Kg	50	8/22/2005 8:48:54 PM
Toluene	ND	1.3		mg/Kg	50	8/22/2005 8:48:54 PM
Ethylbenzene	ND	1.3		mg/Kg	50	8/22/2005 8:48:54 PM
Xylenes, Total	2.6	1.3		mg/Kg	50	8/22/2005 8:48:54 PM
Surr: 4-Bromofluorobenzene	106	87.5-115		%REC	50	8/22/2005 8:48:54 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	1.0		mg/Kg	5	8/22/2005
Acenaphthylene	ND	1.0		mg/Kg	5	8/22/2005
Aniline	ND	1.0		mg/Kg	5	8/22/2005
Anthracene	ND	1.0		mg/Kg	5	8/22/2005
Azobenzene	ND	1.0		mg/Kg	5	8/22/2005
Benz(a)anthracene	ND	1.3		mg/Kg	5	8/22/2005
Benzidine	ND	1.0		mg/Kg	5	8/22/2005
Benzo(a)pyrene	ND	1.0		mg/Kg	5	8/22/2005
Benzo(b)fluoranthene	ND	1.0		mg/Kg	5	8/22/2005
Benzo(g,h,i)perylene	ND	1.5		mg/Kg	5	8/22/2005
Benzo(k)fluoranthene	ND	2.5		mg/Kg	5	8/22/2005
Benzoic acid	ND	2.5		mg/Kg	5	8/22/2005
Benzyl alcohol	ND	2.5		mg/Kg	5	8/22/2005
Bis(2-chloroethoxy)methane	ND	2.5		mg/Kg	5	8/22/2005
Bis(2-chloroethyl)ether	ND	1.3		mg/Kg	5	8/22/2005
Bis(2-chloroisopropyl)ether	ND	2.5		mg/Kg	5	8/22/2005
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg	5	8/22/2005
4-Bromophenyl phenyl ether	ND	1.3		mg/Kg	5	8/22/2005
Butyl benzyl phthalate	ND	1.0		mg/Kg	5	8/22/2005
Carbazole	ND	1.0		mg/Kg	5	8/22/2005
4-Chloro-3-methylphenol	ND	1.0		mg/Kg	5	8/22/2005
4-Chloroaniline	ND	1.0		mg/Kg	5	8/22/2005
2-Chloronaphthalene	ND	1.0		mg/Kg	5	8/22/2005
2-Chlorophenol	ND	1.0		mg/Kg	5	8/22/2005
4-Chlorophenyl phenyl ether	ND	1.0		mg/Kg	5	8/22/2005

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

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

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe 1 WN

Lab Order: 0508233

Collection Date: 8/18/2005 2:10:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-02

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	1.0		mg/Kg	5	8/22/2005
Di-n-butyl phthalate	ND	1.3		mg/Kg	5	8/22/2005
Di-n-octyl phthalate	ND	2.5		mg/Kg	5	8/22/2005
Dibenz(a,h)anthracene	ND	1.3		mg/Kg	5	8/22/2005
Dibenzofuran	ND	2.5		mg/Kg	5	8/22/2005
1,2-Dichlorobenzene	ND	1.0		mg/Kg	5	8/22/2005
1,3-Dichlorobenzene	ND	1.0		mg/Kg	5	8/22/2005
1,4-Dichlorobenzene	ND	1.0		mg/Kg	5	8/22/2005
3,3'-Dichlorobenzidine	ND	1.0		mg/Kg	5	8/22/2005
Diethyl phthalate	ND	1.0		mg/Kg	5	8/22/2005
Dimethyl phthalate	ND	1.0		mg/Kg	5	8/22/2005
2,4-Dichlorophenol	ND	1.0		mg/Kg	5	8/22/2005
2,4-Dimethylphenol	ND	1.0		mg/Kg	5	8/22/2005
4,6-Dinitro-2-methylphenol	ND	2.5		mg/Kg	5	8/22/2005
2,4-Dinitrophenol	ND	2.5		mg/Kg	5	8/22/2005
2,4-Dinitrotoluene	ND	1.0		mg/Kg	5	8/22/2005
2,6-Dinitrotoluene	ND	1.0		mg/Kg	5	8/22/2005
Fluoranthene	ND	1.0		mg/Kg	5	8/22/2005
Fluorene	1.5	1.0		mg/Kg	5	8/22/2005
Hexachlorobenzene	ND	1.0		mg/Kg	5	8/22/2005
Hexachlorobutadiene	ND	1.0		mg/Kg	5	8/22/2005
Hexachlorocyclopentadiene	ND	1.3		mg/Kg	5	8/22/2005
Hexachloroethane	ND	2.5		mg/Kg	5	8/22/2005
Indeno(1,2,3-cd)pyrene	ND	1.0		mg/Kg	5	8/22/2005
Isophorone	ND	1.0		mg/Kg	5	8/22/2005
2-Methylnaphthalene	8.0	1.0		mg/Kg	5	8/22/2005
2-Methylphenol	ND	1.0		mg/Kg	5	8/22/2005
3+4-Methylphenol	ND	1.0		mg/Kg	5	8/22/2005
N-Nitrosodi-n-propylamine	ND	1.0		mg/Kg	5	8/22/2005
N-Nitrosodiphenylamine	ND	1.0		mg/Kg	5	8/22/2005
Naphthalene	ND	1.0		mg/Kg	5	8/22/2005
2-Nitroaniline	ND	2.5		mg/Kg	5	8/22/2005
3-Nitroaniline	ND	2.5		mg/Kg	5	8/22/2005
4-Nitroaniline	ND	1.3		mg/Kg	5	8/22/2005
Nitrobenzene	ND	1.0		mg/Kg	5	8/22/2005
2-Nitrophenol	ND	1.0		mg/Kg	5	8/22/2005
4-Nitrophenol	ND	1.0		mg/Kg	5	8/22/2005
Pentachlorophenol	ND	2.5		mg/Kg	5	8/22/2005
Phenanthrene	3.6	1.0		mg/Kg	5	8/22/2005
Phenol	ND	1.0		mg/Kg	5	8/22/2005
Pyrene	ND	1.0		mg/Kg	5	8/22/2005
Pyridine	ND	2.5		mg/Kg	5	8/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe 1 WN

Lab Order: 0508233

Collection Date: 8/18/2005 2:10:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-02

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	1.0		mg/Kg	5	8/22/2005
2,4,5-Trichlorophenol	ND	1.0		mg/Kg	5	8/22/2005
2,4,6-Trichlorophenol	ND	1.0		mg/Kg	5	8/22/2005
Surr: 2,4,6-Tribromophenol	123	35.5-141		%REC	5	8/22/2005
Surr: 2-Fluorobiphenyl	97.5	30.4-128		%REC	5	8/22/2005
Surr: 2-Fluorophenol	71.9	28.1-129		%REC	5	8/22/2005
Surr: 4-Terphenyl-d14	96.4	34.6-151		%REC	5	8/22/2005
Surr: Nitrobenzene-d5	85.0	26.5-122		%REC	5	8/22/2005
Surr: Phenol-d6	75.0	37.6-118		%REC	5	8/22/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe1 B+M

Lab Order: 0508233

Collection Date: 8/18/2005 2:20:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-03

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	380	10		mg/Kg	1	8/20/2005 9:36:27 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/20/2005 9:36:27 PM
Surr: DNOP	104	60-124		%REC	1	8/20/2005 9:36:27 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	8/22/2005 9:20:06 PM
Surr: BFB	104	83.1-124		%REC	10	8/22/2005 9:20:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	1.0		mg/Kg	10	8/22/2005 9:20:06 PM
Benzene	ND	0.25		mg/Kg	10	8/22/2005 9:20:06 PM
Toluene	ND	0.25		mg/Kg	10	8/22/2005 9:20:06 PM
Ethylbenzene	0.34	0.25		mg/Kg	10	8/22/2005 9:20:06 PM
Xylenes, Total	ND	0.25		mg/Kg	10	8/22/2005 9:20:06 PM
Surr: 4-Bromofluorobenzene	105	87.5-115		%REC	10	8/22/2005 9:20:06 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	1.0		mg/Kg	5	8/22/2005
Acenaphthylene	ND	1.0		mg/Kg	5	8/22/2005
Aniline	ND	1.0		mg/Kg	5	8/22/2005
Anthracene	ND	1.0		mg/Kg	5	8/22/2005
Azobenzene	ND	1.0		mg/Kg	5	8/22/2005
Benz(a)anthracene	ND	1.3		mg/Kg	5	8/22/2005
Benzidine	ND	1.0		mg/Kg	5	8/22/2005
Benzo(a)pyrene	ND	1.0		mg/Kg	5	8/22/2005
Benzo(b)fluoranthene	ND	1.0		mg/Kg	5	8/22/2005
Benzo(g,h,i)perylene	ND	1.5		mg/Kg	5	8/22/2005
Benzo(k)fluoranthene	ND	2.5		mg/Kg	5	8/22/2005
Benzoic acid	ND	2.5		mg/Kg	5	8/22/2005
Benzyl alcohol	ND	2.5		mg/Kg	5	8/22/2005
Bis(2-chloroethoxy)methane	ND	2.5		mg/Kg	5	8/22/2005
Bis(2-chloroethyl)ether	ND	1.3		mg/Kg	5	8/22/2005
Bis(2-chloroisopropyl)ether	ND	2.5		mg/Kg	5	8/22/2005
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg	5	8/22/2005
4-Bromophenyl phenyl ether	ND	1.3		mg/Kg	5	8/22/2005
Butyl benzyl phthalate	ND	1.0		mg/Kg	5	8/22/2005
Carbazole	ND	1.0		mg/Kg	5	8/22/2005
4-Chloro-3-methylphenol	ND	1.0		mg/Kg	5	8/22/2005
4-Chloroaniline	ND	1.0		mg/Kg	5	8/22/2005
2-Chloronaphthalene	ND	1.0		mg/Kg	5	8/22/2005
2-Chlorophenol	ND	1.0		mg/Kg	5	8/22/2005
4-Chlorophenyl phenyl ether	ND	1.0		mg/Kg	5	8/22/2005

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

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

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe1 B+M

Lab Order: 0508233

Collection Date: 8/18/2005 2:20:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-03

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	1.0		mg/Kg	5	8/22/2005
Di-n-butyl phthalate	2.1	1.3		mg/Kg	5	8/22/2005
Di-n-octyl phthalate	ND	2.5		mg/Kg	5	8/22/2005
Dibenz(a,h)anthracene	ND	1.3		mg/Kg	5	8/22/2005
Dibenzofuran	ND	2.5		mg/Kg	5	8/22/2005
1,2-Dichlorobenzene	ND	1.0		mg/Kg	5	8/22/2005
1,3-Dichlorobenzene	ND	1.0		mg/Kg	5	8/22/2005
1,4-Dichlorobenzene	ND	1.0		mg/Kg	5	8/22/2005
3,3'-Dichlorobenzidine	ND	1.0		mg/Kg	5	8/22/2005
Diethyl phthalate	ND	1.0		mg/Kg	5	8/22/2005
Dimethyl phthalate	ND	1.0		mg/Kg	5	8/22/2005
2,4-Dichlorophenol	ND	1.0		mg/Kg	5	8/22/2005
2,4-Dimethylphenol	ND	1.0		mg/Kg	5	8/22/2005
4,6-Dinitro-2-methylphenol	ND	2.5		mg/Kg	5	8/22/2005
2,4-Dinitrophenol	ND	2.5		mg/Kg	5	8/22/2005
2,4-Dinitrotoluene	ND	1.0		mg/Kg	5	8/22/2005
2,6-Dinitrotoluene	ND	1.0		mg/Kg	5	8/22/2005
Fluoranthene	ND	1.0		mg/Kg	5	8/22/2005
Fluorene	ND	1.0		mg/Kg	5	8/22/2005
Hexachlorobenzene	ND	1.0		mg/Kg	5	8/22/2005
Hexachlorobutadiene	ND	1.0		mg/Kg	5	8/22/2005
Hexachlorocyclopentadiene	ND	1.3		mg/Kg	5	8/22/2005
Hexachloroethane	ND	2.5		mg/Kg	5	8/22/2005
Indeno(1,2,3-cd)pyrene	ND	1.0		mg/Kg	5	8/22/2005
Isophorone	ND	1.0		mg/Kg	5	8/22/2005
2-Methylnaphthalene	1.9	1.0		mg/Kg	5	8/22/2005
2-Methylphenol	ND	1.0		mg/Kg	5	8/22/2005
3+4-Methylphenol	ND	1.0		mg/Kg	5	8/22/2005
N-Nitrosodi-n-propylamine	ND	1.0		mg/Kg	5	8/22/2005
N-Nitrosodiphenylamine	ND	1.0		mg/Kg	5	8/22/2005
Naphthalene	ND	1.0		mg/Kg	5	8/22/2005
2-Nitroaniline	ND	2.5		mg/Kg	5	8/22/2005
3-Nitroaniline	ND	2.5		mg/Kg	5	8/22/2005
4-Nitroaniline	ND	1.3		mg/Kg	5	8/22/2005
Nitrobenzene	ND	1.0		mg/Kg	5	8/22/2005
2-Nitrophenol	ND	1.0		mg/Kg	5	8/22/2005
4-Nitrophenol	ND	1.0		mg/Kg	5	8/22/2005
Pentachlorophenol	ND	2.5		mg/Kg	5	8/22/2005
Phenanthrene	ND	1.0		mg/Kg	5	8/22/2005
Phenol	ND	1.0		mg/Kg	5	8/22/2005
Pyrene	ND	1.0		mg/Kg	5	8/22/2005
Pyridine	ND	2.5		mg/Kg	5	8/22/2005

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

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

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe1 B+M

Lab Order: 0508233

Collection Date: 8/18/2005 2:20:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-03

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	1.0		mg/Kg	5	8/22/2005
2,4,5-Trichlorophenol	ND	1.0		mg/Kg	5	8/22/2005
2,4,6-Trichlorophenol	ND	1.0		mg/Kg	5	8/22/2005
Surr: 2,4,6-Tribromophenol	106	35.5-141		%REC	5	8/22/2005
Surr: 2-Fluorobiphenyl	81.8	30.4-128		%REC	5	8/22/2005
Surr: 2-Fluorophenol	60.4	28.1-129		%REC	5	8/22/2005
Surr: 4-Terphenyl-d14	87.6	34.6-151		%REC	5	8/22/2005
Surr: Nitrobenzene-d5	67.9	26.5-122		%REC	5	8/22/2005
Surr: Phenol-d6	67.1	37.6-118		%REC	5	8/22/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co
Lab Order: 0508233
Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav
Lab ID: 0508233-04

Client Sample ID: Inlet Pipe2 WS
Collection Date: 8/18/2005 2:30:00 PM

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	8/20/2005 10:09:14 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/20/2005 10:09:14 PM
Surr: DNOP	100	60-124		%REC	1	8/20/2005 10:09:14 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/23/2005 3:01:06 AM
Surr: BFB	94.6	83.1-124		%REC	1	8/23/2005 3:01:06 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	8/23/2005 3:01:06 AM
Benzene	ND	0.025		mg/Kg	1	8/23/2005 3:01:06 AM
Toluene	ND	0.025		mg/Kg	1	8/23/2005 3:01:06 AM
Ethylbenzene	ND	0.025		mg/Kg	1	8/23/2005 3:01:06 AM
Xylenes, Total	ND	0.025		mg/Kg	1	8/23/2005 3:01:06 AM
Surr: 4-Bromofluorobenzene	101	87.5-115		%REC	1	8/23/2005 3:01:06 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	0.20		mg/Kg	1	8/22/2005
Acenaphthylene	ND	0.20		mg/Kg	1	8/22/2005
Aniline	ND	0.20		mg/Kg	1	8/22/2005
Anthracene	ND	0.20		mg/Kg	1	8/22/2005
Azobenzene	ND	0.20		mg/Kg	1	8/22/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	8/22/2005
Benzidine	ND	0.20		mg/Kg	1	8/22/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/22/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/22/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	8/22/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	8/22/2005
Benzoic acid	ND	0.50		mg/Kg	1	8/22/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	8/22/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	8/22/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	8/22/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	8/22/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	8/22/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	8/22/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	8/22/2005
Carbazole	ND	0.20		mg/Kg	1	8/22/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	8/22/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	8/22/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	8/22/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	8/22/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	8/22/2005

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

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

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe2 WS

Lab Order: 0508233

Collection Date: 8/18/2005 2:30:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-04

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	0.20		mg/Kg	1	8/22/2005
Di-n-butyl phthalate	1.6	0.25	B	mg/Kg	1	8/22/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	8/22/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	8/22/2005
Dibenzofuran	ND	0.50		mg/Kg	1	8/22/2005
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	8/22/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	8/22/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	8/22/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	8/22/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	8/22/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/22/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	8/22/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	8/22/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	8/22/2005
Fluoranthene	ND	0.20		mg/Kg	1	8/22/2005
Fluorene	ND	0.20		mg/Kg	1	8/22/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	8/22/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	8/22/2005
Hexachloroethane	ND	0.50		mg/Kg	1	8/22/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/22/2005
Isophorone	ND	0.20		mg/Kg	1	8/22/2005
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/22/2005
2-Methylphenol	ND	0.20		mg/Kg	1	8/22/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/22/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	8/22/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	8/22/2005
Naphthalene	ND	0.20		mg/Kg	1	8/22/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	8/22/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	8/22/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	8/22/2005
Nitrobenzene	ND	0.20		mg/Kg	1	8/22/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	8/22/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	8/22/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	8/22/2005
Phenanthrene	ND	0.20		mg/Kg	1	8/22/2005
Phenol	ND	0.20		mg/Kg	1	8/22/2005
Pyrene	ND	0.20		mg/Kg	1	8/22/2005
Pyridine	ND	0.50		mg/Kg	1	8/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe2 WS

Lab Order: 0508233

Collection Date: 8/18/2005 2:30:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-04

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/22/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/22/2005
Surr: 2,4,6-Tribromophenol	90.4	35.5-141		%REC	1	8/22/2005
Surr: 2-Fluorobiphenyl	74.9	30.4-128		%REC	1	8/22/2005
Surr: 2-Fluorophenol	63.1	28.1-129		%REC	1	8/22/2005
Surr: 4-Terphenyl-d14	92.2	34.6-151		%REC	1	8/22/2005
Surr: Nitrobenzene-d5	71.8	26.5-122		%REC	1	8/22/2005
Surr: Phenol-d6	68.2	37.6-118		%REC	1	8/22/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe2 WN

Lab Order: 0508233

Collection Date: 8/18/2005 2:40:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-05

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	8/20/2005 10:42:02 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/20/2005 10:42:02 PM
Surr: DNOP	103	60-124		%REC	1	8/20/2005 10:42:02 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/23/2005 3:31:49 AM
Surr: BFB	90.1	83.1-124		%REC	1	8/23/2005 3:31:49 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	8/23/2005 3:31:49 AM
Benzene	ND	0.025		mg/Kg	1	8/23/2005 3:31:49 AM
Toluene	ND	0.025		mg/Kg	1	8/23/2005 3:31:49 AM
Ethylbenzene	ND	0.025		mg/Kg	1	8/23/2005 3:31:49 AM
Xylenes, Total	ND	0.025		mg/Kg	1	8/23/2005 3:31:49 AM
Surr: 4-Bromofluorobenzene	97.3	87.5-115		%REC	1	8/23/2005 3:31:49 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	0.20		mg/Kg	1	8/22/2005
Acenaphthylene	ND	0.20		mg/Kg	1	8/22/2005
Aniline	ND	0.20		mg/Kg	1	8/22/2005
Anthracene	ND	0.20		mg/Kg	1	8/22/2005
Azobenzene	ND	0.20		mg/Kg	1	8/22/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	8/22/2005
Benzidine	ND	0.20		mg/Kg	1	8/22/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/22/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/22/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	8/22/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	8/22/2005
Benzoic acid	ND	0.50		mg/Kg	1	8/22/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	8/22/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	8/22/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	8/22/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	8/22/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	8/22/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	8/22/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	8/22/2005
Carbazole	ND	0.20		mg/Kg	1	8/22/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	8/22/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	8/22/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	8/22/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	8/22/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	8/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe2 WN

Lab Order: 0508233

Collection Date: 8/18/2005 2:40:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-05

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	0.20		mg/Kg	1	8/22/2005
Di-n-butyl phthalate	0.31	0.25	B	mg/Kg	1	8/22/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	8/22/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	8/22/2005
Dibenzofuran	ND	0.50		mg/Kg	1	8/22/2005
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	8/22/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	8/22/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	8/22/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	8/22/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	8/22/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/22/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	8/22/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	8/22/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	8/22/2005
Fluoranthene	ND	0.20		mg/Kg	1	8/22/2005
Fluorene	ND	0.20		mg/Kg	1	8/22/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	8/22/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	8/22/2005
Hexachloroethane	ND	0.50		mg/Kg	1	8/22/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/22/2005
Isophorone	ND	0.20		mg/Kg	1	8/22/2005
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/22/2005
2-Methylphenol	ND	0.20		mg/Kg	1	8/22/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/22/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	8/22/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	8/22/2005
Naphthalene	ND	0.20		mg/Kg	1	8/22/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	8/22/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	8/22/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	8/22/2005
Nitrobenzene	ND	0.20		mg/Kg	1	8/22/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	8/22/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	8/22/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	8/22/2005
Phenanthrene	ND	0.20		mg/Kg	1	8/22/2005
Phenol	ND	0.20		mg/Kg	1	8/22/2005
Pyrene	ND	0.20		mg/Kg	1	8/22/2005
Pyridine	ND	0.50		mg/Kg	1	8/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe2 WN

Lab Order: 0508233

Collection Date: 8/18/2005 2:40:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-05

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/22/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/22/2005
Surr: 2,4,6-Tribromophenol	81.1	35.5-141		%REC	1	8/22/2005
Surr: 2-Fluorobiphenyl	62.9	30.4-128		%REC	1	8/22/2005
Surr: 2-Fluorophenol	51.5	28.1-129		%REC	1	8/22/2005
Surr: 4-Terphenyl-d14	84.8	34.6-151		%REC	1	8/22/2005
Surr: Nitrobenzene-d5	62.2	26.5-122		%REC	1	8/22/2005
Surr: Phenol-d6	61.7	37.6-118		%REC	1	8/22/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe2 B+M

Lab Order: 0508233

Collection Date: 8/18/2005 2:50:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-06

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	150	10		mg/Kg	1	8/20/2005 11:14:53 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/20/2005 11:14:53 PM
Surr: DNOP	102	60-124		%REC	1	8/20/2005 11:14:53 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	8/22/2005 9:51:19 PM
Surr: BFB	96.1	83.1-124		%REC	5	8/22/2005 9:51:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	5	8/22/2005 9:51:19 PM
Benzene	ND	0.13		mg/Kg	5	8/22/2005 9:51:19 PM
Toluene	ND	0.13		mg/Kg	5	8/22/2005 9:51:19 PM
Ethylbenzene	ND	0.13		mg/Kg	5	8/22/2005 9:51:19 PM
Xylenes, Total	ND	0.13		mg/Kg	5	8/22/2005 9:51:19 PM
Surr: 4-Bromofluorobenzene	101	87.5-115		%REC	5	8/22/2005 9:51:19 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	0.20		mg/Kg	1	8/23/2005
Acenaphthylene	ND	0.20		mg/Kg	1	8/23/2005
Aniline	ND	0.20		mg/Kg	1	8/23/2005
Anthracene	ND	0.20		mg/Kg	1	8/23/2005
Azobenzene	ND	0.20		mg/Kg	1	8/23/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	8/23/2005
Benzidine	ND	0.20		mg/Kg	1	8/23/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/23/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/23/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	8/23/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	8/23/2005
Benzoic acid	ND	0.50		mg/Kg	1	8/23/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	8/23/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	8/23/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	8/23/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
Carbazole	ND	0.20		mg/Kg	1	8/23/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	8/23/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	8/23/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	8/23/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	8/23/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	8/23/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe2 B+M

Lab Order: 0508233

Collection Date: 8/18/2005 2:50:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-06

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	0.20		mg/Kg	1	8/23/2005
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	8/23/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	8/23/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	8/23/2005
Dibenzofuran	ND	0.50		mg/Kg	1	8/23/2005
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	8/23/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	8/23/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/23/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	8/23/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	8/23/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	8/23/2005
Fluoranthene	ND	0.20		mg/Kg	1	8/23/2005
Fluorene	ND	0.20		mg/Kg	1	8/23/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	8/23/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	8/23/2005
Hexachloroethane	ND	0.50		mg/Kg	1	8/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/23/2005
Isophorone	ND	0.20		mg/Kg	1	8/23/2005
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/23/2005
2-Methylphenol	ND	0.20		mg/Kg	1	8/23/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/23/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	8/23/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	8/23/2005
Naphthalene	ND	0.20		mg/Kg	1	8/23/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	8/23/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	8/23/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	8/23/2005
Nitrobenzene	ND	0.20		mg/Kg	1	8/23/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	8/23/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	8/23/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	8/23/2005
Phenanthrene	ND	0.20		mg/Kg	1	8/23/2005
Phenol	ND	0.20		mg/Kg	1	8/23/2005
Pyrene	ND	0.20		mg/Kg	1	8/23/2005
Pyridine	ND	0.50		mg/Kg	1	8/23/2005

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

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

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe2 B+M

Lab Order: 0508233

Collection Date: 8/18/2005 2:50:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-06

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
Surr: 2,4,6-Tribromophenol	70.6	35.5-141		%REC	1	8/23/2005
Surr: 2-Fluorobiphenyl	39.6	30.4-128		%REC	1	8/23/2005
Surr: 2-Fluorophenol	40.1	28.1-129		%REC	1	8/23/2005
Surr: 4-Terphenyl-d14	82.0	34.6-151		%REC	1	8/23/2005
Surr: Nitrobenzene-d5	37.3	26.5-122		%REC	1	8/23/2005
Surr: Phenol-d6	38.5	37.6-118		%REC	1	8/23/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe3 WS

Lab Order: 0508233

Collection Date: 8/18/2005 3:00:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-07

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	3400	1000		mg/Kg	100	8/21/2005 2:46:14 PM
Motor Oil Range Organics (MRO)	ND	5000		mg/Kg	100	8/21/2005 2:46:14 PM
Surr: DNOP	0	60-124	S	%REC	100	8/21/2005 2:46:14 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	250		mg/Kg	50	8/22/2005 10:22:37 PM
Surr: BFB	99.4	83.1-124		%REC	50	8/22/2005 10:22:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	5.0		mg/Kg	50	8/22/2005 10:22:37 PM
Benzene	ND	1.3		mg/Kg	50	8/22/2005 10:22:37 PM
Toluene	ND	1.3		mg/Kg	50	8/22/2005 10:22:37 PM
Ethylbenzene	ND	1.3		mg/Kg	50	8/22/2005 10:22:37 PM
Xylenes, Total	ND	1.3		mg/Kg	50	8/22/2005 10:22:37 PM
Surr: 4-Bromofluorobenzene	102	87.5-115		%REC	50	8/22/2005 10:22:37 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	0.20		mg/Kg	1	8/22/2005
Acenaphthylene	ND	0.20		mg/Kg	1	8/22/2005
Aniline	ND	0.20		mg/Kg	1	8/22/2005
Anthracene	ND	0.20		mg/Kg	1	8/22/2005
Azobenzene	ND	0.20		mg/Kg	1	8/22/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	8/22/2005
Benzidine	ND	0.20		mg/Kg	1	8/22/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/22/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/22/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	8/22/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	8/22/2005
Benzoic acid	ND	0.50		mg/Kg	1	8/22/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	8/22/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	8/22/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	8/22/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	8/22/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	8/22/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	8/22/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	8/22/2005
Carbazole	ND	0.20		mg/Kg	1	8/22/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	8/22/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	8/22/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	8/22/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	8/22/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	8/22/2005

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

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

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe3 WS

Lab Order: 0508233

Collection Date: 8/18/2005 3:00:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-07

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	0.20		mg/Kg	1	8/22/2005
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	8/22/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	8/22/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	8/22/2005
Dibenzofuran	ND	0.50		mg/Kg	1	8/22/2005
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	8/22/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	8/22/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	8/22/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	8/22/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	8/22/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/22/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	8/22/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	8/22/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	8/22/2005
Fluoranthene	ND	0.20		mg/Kg	1	8/22/2005
Fluorene	0.36	0.20		mg/Kg	1	8/22/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	8/22/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	8/22/2005
Hexachloroethane	ND	0.50		mg/Kg	1	8/22/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/22/2005
Isophorone	ND	0.20		mg/Kg	1	8/22/2005
2-Methylnaphthalene	7.7	1.0		mg/Kg	5	8/23/2005
2-Methylphenol	ND	0.20		mg/Kg	1	8/22/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/22/2005
N-Nitrosodi-n-propylamine	0.27	0.20		mg/Kg	1	8/22/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	8/22/2005
Naphthalene	ND	0.20		mg/Kg	1	8/22/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	8/22/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	8/22/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	8/22/2005
Nitrobenzene	ND	0.20		mg/Kg	1	8/22/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	8/22/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	8/22/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	8/22/2005
Phenanthrene	4.3	1.0		mg/Kg	5	8/23/2005
Phenol	ND	0.20		mg/Kg	1	8/22/2005
Pyrene	ND	0.20		mg/Kg	1	8/22/2005
Pyridine	ND	0.50		mg/Kg	1	8/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe3 WS

Lab Order: 0508233

Collection Date: 8/18/2005 3:00:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-07

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	8/22/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/22/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/22/2005
Surr: 2,4,6-Tribromophenol	116	35.5-141		%REC	1	8/22/2005
Surr: 2-Fluorobiphenyl	132	30.4-128	S	%REC	1	8/22/2005
Surr: 2-Fluorophenol	70.9	28.1-129		%REC	1	8/22/2005
Surr: 4-Terphenyl-d14	84.7	34.6-151		%REC	1	8/22/2005
Surr: Nitrobenzene-d5	88.4	26.5-122		%REC	1	8/22/2005
Surr: Phenol-d6	80.4	37.6-118		%REC	1	8/22/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe3 WN

Lab Order: 0508233

Collection Date: 8/18/2005 3:10:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-08

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	5200	1000		mg/Kg	100	8/21/2005 3:51:53 PM
Motor Oil Range Organics (MRO)	ND	5000		mg/Kg	100	8/21/2005 3:51:53 PM
Surr: DNOP	0	60-124	S	%REC	100	8/21/2005 3:51:53 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	250		mg/Kg	50	8/22/2005 10:53:42 PM
Surr: BFB	93.7	83.1-124		%REC	50	8/22/2005 10:53:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	5.0		mg/Kg	50	8/22/2005 10:53:42 PM
Benzene	ND	1.3		mg/Kg	50	8/22/2005 10:53:42 PM
Toluene	ND	1.3		mg/Kg	50	8/22/2005 10:53:42 PM
Ethylbenzene	ND	1.3		mg/Kg	50	8/22/2005 10:53:42 PM
Xylenes, Total	ND	1.3		mg/Kg	50	8/22/2005 10:53:42 PM
Surr: 4-Bromofluorobenzene	101	87.5-115		%REC	50	8/22/2005 10:53:42 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	1.0		mg/Kg	5	8/22/2005
Acenaphthylene	ND	1.0		mg/Kg	5	8/22/2005
Aniline	ND	1.0		mg/Kg	5	8/22/2005
Anthracene	ND	1.0		mg/Kg	5	8/22/2005
Azobenzene	ND	1.0		mg/Kg	5	8/22/2005
Benz(a)anthracene	ND	1.3		mg/Kg	5	8/22/2005
Benzidine	ND	1.0		mg/Kg	5	8/22/2005
Benzo(a)pyrene	ND	1.0		mg/Kg	5	8/22/2005
Benzo(b)fluoranthene	ND	1.0		mg/Kg	5	8/22/2005
Benzo(g,h,i)perylene	ND	1.5		mg/Kg	5	8/22/2005
Benzo(k)fluoranthene	ND	2.5		mg/Kg	5	8/22/2005
Benzoic acid	ND	2.5		mg/Kg	5	8/22/2005
Benzyl alcohol	ND	2.5		mg/Kg	5	8/22/2005
Bis(2-chloroethoxy)methane	ND	2.5		mg/Kg	5	8/22/2005
Bis(2-chloroethyl)ether	ND	1.3		mg/Kg	5	8/22/2005
Bis(2-chloroisopropyl)ether	ND	2.5		mg/Kg	5	8/22/2005
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg	5	8/22/2005
4-Bromophenyl phenyl ether	ND	1.3		mg/Kg	5	8/22/2005
Butyl benzyl phthalate	ND	1.0		mg/Kg	5	8/22/2005
Carbazole	ND	1.0		mg/Kg	5	8/22/2005
4-Chloro-3-methylphenol	ND	1.0		mg/Kg	5	8/22/2005
4-Chloroaniline	ND	1.0		mg/Kg	5	8/22/2005
2-Chloronaphthalene	ND	1.0		mg/Kg	5	8/22/2005
2-Chlorophenol	ND	1.0		mg/Kg	5	8/22/2005
4-Chlorophenyl phenyl ether	ND	1.0		mg/Kg	5	8/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe3 WN

Lab Order: 0508233

Collection Date: 8/18/2005 3:10:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-08

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	1.0		mg/Kg	5	8/22/2005
Di-n-butyl phthalate	ND	1.3		mg/Kg	5	8/22/2005
Di-n-octyl phthalate	ND	2.5		mg/Kg	5	8/22/2005
Dibenz(a,h)anthracene	ND	1.3		mg/Kg	5	8/22/2005
Dibenzofuran	ND	2.5		mg/Kg	5	8/22/2005
1,2-Dichlorobenzene	ND	1.0		mg/Kg	5	8/22/2005
1,3-Dichlorobenzene	ND	1.0		mg/Kg	5	8/22/2005
1,4-Dichlorobenzene	ND	1.0		mg/Kg	5	8/22/2005
3,3'-Dichlorobenzidine	ND	1.0		mg/Kg	5	8/22/2005
Diethyl phthalate	ND	1.0		mg/Kg	5	8/22/2005
Dimethyl phthalate	ND	1.0		mg/Kg	5	8/22/2005
2,4-Dichlorophenol	ND	1.0		mg/Kg	5	8/22/2005
2,4-Dimethylphenol	ND	1.0		mg/Kg	5	8/22/2005
4,6-Dinitro-2-methylphenol	ND	2.5		mg/Kg	5	8/22/2005
2,4-Dinitrophenol	ND	2.5		mg/Kg	5	8/22/2005
2,4-Dinitrotoluene	ND	1.0		mg/Kg	5	8/22/2005
2,6-Dinitrotoluene	ND	1.0		mg/Kg	5	8/22/2005
Fluoranthene	ND	1.0		mg/Kg	5	8/22/2005
Fluorene	ND	1.0		mg/Kg	5	8/22/2005
Hexachlorobenzene	ND	1.0		mg/Kg	5	8/22/2005
Hexachlorobutadiene	ND	1.0		mg/Kg	5	8/22/2005
Hexachlorocyclopentadiene	ND	1.3		mg/Kg	5	8/22/2005
Hexachloroethane	ND	2.5		mg/Kg	5	8/22/2005
Indeno(1,2,3-cd)pyrene	ND	1.0		mg/Kg	5	8/22/2005
Isophorone	ND	1.0		mg/Kg	5	8/22/2005
2-Methylnaphthalene	ND	1.0		mg/Kg	5	8/22/2005
2-Methylphenol	ND	1.0		mg/Kg	5	8/22/2005
3+4-Methylphenol	ND	1.0		mg/Kg	5	8/22/2005
N-Nitrosodi-n-propylamine	ND	1.0		mg/Kg	5	8/22/2005
N-Nitrosodiphenylamine	ND	1.0		mg/Kg	5	8/22/2005
Naphthalene	ND	1.0		mg/Kg	5	8/22/2005
2-Nitroaniline	ND	2.5		mg/Kg	5	8/22/2005
3-Nitroaniline	ND	2.5		mg/Kg	5	8/22/2005
4-Nitroaniline	ND	1.3		mg/Kg	5	8/22/2005
Nitrobenzene	ND	1.0		mg/Kg	5	8/22/2005
2-Nitrophenol	ND	1.0		mg/Kg	5	8/22/2005
4-Nitrophenol	ND	1.0		mg/Kg	5	8/22/2005
Pentachlorophenol	ND	2.5		mg/Kg	5	8/22/2005
Phenanthrene	ND	1.0		mg/Kg	5	8/22/2005
Phenol	ND	1.0		mg/Kg	5	8/22/2005
Pyrene	ND	1.0		mg/Kg	5	8/22/2005
Pyridine	ND	2.5		mg/Kg	5	8/22/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe3 WN

Lab Order: 0508233

Collection Date: 8/18/2005 3:10:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-08

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	1.0		mg/Kg	5	8/22/2005
2,4,5-Trichlorophenol	ND	1.0		mg/Kg	5	8/22/2005
2,4,6-Trichlorophenol	ND	1.0		mg/Kg	5	8/22/2005
Surr: 2,4,6-Tribromophenol	110	35.5-141		%REC	5	8/22/2005
Surr: 2-Fluorobiphenyl	80.9	30.4-128		%REC	5	8/22/2005
Surr: 2-Fluorophenol	62.9	28.1-129		%REC	5	8/22/2005
Surr: 4-Terphenyl-d14	84.8	34.6-151		%REC	5	8/22/2005
Surr: Nitrobenzene-d5	77.3	26.5-122		%REC	5	8/22/2005
Surr: Phenol-d6	69.8	37.6-118		%REC	5	8/22/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe3 B+M

Lab Order: 0508233

Collection Date: 8/18/2005 3:20:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-09

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	6400	1000		mg/Kg	100	8/21/2005 4:24:39 PM
Motor Oil Range Organics (MRO)	ND	5000		mg/Kg	100	8/21/2005 4:24:39 PM
Surr: DNOP	0	60-124	S	%REC	100	8/21/2005 4:24:39 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	250		mg/Kg	50	8/22/2005 11:24:39 PM
Surr: BFB	96.3	83.1-124		%REC	50	8/22/2005 11:24:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	5.0		mg/Kg	50	8/22/2005 11:24:39 PM
Benzene	ND	1.3		mg/Kg	50	8/22/2005 11:24:39 PM
Toluene	ND	1.3		mg/Kg	50	8/22/2005 11:24:39 PM
Ethylbenzene	ND	1.3		mg/Kg	50	8/22/2005 11:24:39 PM
Xylenes, Total	5.0	1.3		mg/Kg	50	8/22/2005 11:24:39 PM
Surr: 4-Bromofluorobenzene	103	87.5-115		%REC	50	8/22/2005 11:24:39 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	2.5	2.0		mg/Kg	10	8/22/2005
Acenaphthylene	ND	2.0		mg/Kg	10	8/22/2005
Aniline	ND	2.0		mg/Kg	10	8/22/2005
Anthracene	ND	2.0		mg/Kg	10	8/22/2005
Azobenzene	ND	2.0		mg/Kg	10	8/22/2005
Benz(a)anthracene	ND	2.5		mg/Kg	10	8/22/2005
Benzdine	ND	2.0		mg/Kg	10	8/22/2005
Benzo(a)pyrene	ND	2.0		mg/Kg	10	8/22/2005
Benzo(b)fluoranthene	ND	2.0		mg/Kg	10	8/22/2005
Benzo(g,h,i)perylene	ND	3.0		mg/Kg	10	8/22/2005
Benzo(k)fluoranthene	ND	5.0		mg/Kg	10	8/22/2005
Benzoic acid	ND	5.0		mg/Kg	10	8/22/2005
Benzy alcohol	ND	5.0		mg/Kg	10	8/22/2005
Bis(2-chloroethoxy)methane	ND	5.0		mg/Kg	10	8/22/2005
Bis(2-chloroethyl)ether	ND	2.5		mg/Kg	10	8/22/2005
Bis(2-chloroisopropyl)ether	ND	5.0		mg/Kg	10	8/22/2005
Bis(2-ethylhexyl)phthalate	ND	2.0		mg/Kg	10	8/22/2005
4-Bromophenyl phenyl ether	ND	2.5		mg/Kg	10	8/22/2005
Butyl benzyl phthalate	ND	2.0		mg/Kg	10	8/22/2005
Carbazole	ND	2.0		mg/Kg	10	8/22/2005
4-Chloro-3-methylphenol	ND	2.0		mg/Kg	10	8/22/2005
4-Chloroaniline	ND	2.0		mg/Kg	10	8/22/2005
2-Chloronaphthalene	ND	2.0		mg/Kg	10	8/22/2005
2-Chlorophenol	ND	2.0		mg/Kg	10	8/22/2005
4-Chlorophenyl phenyl ether	ND	2.0		mg/Kg	10	8/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe3 B+M

Lab Order: 0508233

Collection Date: 8/18/2005 3:20:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-09

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	2.0		mg/Kg	10	8/22/2005
Di-n-butyl phthalate	ND	2.5		mg/Kg	10	8/22/2005
Di-n-octyl phthalate	ND	5.0		mg/Kg	10	8/22/2005
Dibenz(a,h)anthracene	ND	2.5		mg/Kg	10	8/22/2005
Dibenzofuran	ND	5.0		mg/Kg	10	8/22/2005
1,2-Dichlorobenzene	ND	2.0		mg/Kg	10	8/22/2005
1,3-Dichlorobenzene	ND	2.0		mg/Kg	10	8/22/2005
1,4-Dichlorobenzene	ND	2.0		mg/Kg	10	8/22/2005
3,3'-Dichlorobenzidine	ND	2.0		mg/Kg	10	8/22/2005
Diethyl phthalate	ND	2.0		mg/Kg	10	8/22/2005
Dimethyl phthalate	ND	2.0		mg/Kg	10	8/22/2005
2,4-Dichlorophenol	ND	2.0		mg/Kg	10	8/22/2005
2,4-Dimethylphenol	ND	2.0		mg/Kg	10	8/22/2005
4,6-Dinitro-2-methylphenol	ND	5.0		mg/Kg	10	8/22/2005
2,4-Dinitrophenol	ND	5.0		mg/Kg	10	8/22/2005
2,4-Dinitrotoluene	ND	2.0		mg/Kg	10	8/22/2005
2,6-Dinitrotoluene	ND	2.0		mg/Kg	10	8/22/2005
Fluoranthene	ND	2.0		mg/Kg	10	8/22/2005
Fluorene	3.8	2.0		mg/Kg	10	8/22/2005
Hexachlorobenzene	ND	2.0		mg/Kg	10	8/22/2005
Hexachlorobutadiene	ND	2.0		mg/Kg	10	8/22/2005
Hexachlorocyclopentadiene	ND	2.5		mg/Kg	10	8/22/2005
Hexachloroethane	ND	5.0		mg/Kg	10	8/22/2005
Indeno(1,2,3-cd)pyrene	ND	2.0		mg/Kg	10	8/22/2005
Isophorone	ND	2.0		mg/Kg	10	8/22/2005
2-Methylnaphthalene	54	4.0		mg/Kg	20	8/25/2005
2-Methylphenol	ND	2.0		mg/Kg	10	8/22/2005
3+4-Methylphenol	ND	2.0		mg/Kg	10	8/22/2005
N-Nitrosodi-n-propylamine	ND	2.0		mg/Kg	10	8/22/2005
N-Nitrosodiphenylamine	ND	2.0		mg/Kg	10	8/22/2005
Naphthalene	12	2.0		mg/Kg	10	8/22/2005
2-Nitroaniline	ND	5.0		mg/Kg	10	8/22/2005
3-Nitroaniline	ND	5.0		mg/Kg	10	8/22/2005
4-Nitroaniline	ND	2.5		mg/Kg	10	8/22/2005
Nitrobenzene	ND	2.0		mg/Kg	10	8/22/2005
2-Nitrophenol	ND	2.0		mg/Kg	10	8/22/2005
4-Nitrophenol	ND	2.0		mg/Kg	10	8/22/2005
Pentachlorophenol	ND	5.0		mg/Kg	10	8/22/2005
Phenanthrene	8.3	2.0		mg/Kg	10	8/22/2005
Phenol	ND	2.0		mg/Kg	10	8/22/2005
Pyrene	ND	2.0		mg/Kg	10	8/22/2005
Pyridine	ND	5.0		mg/Kg	10	8/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe3 B+M

Lab Order: 0508233

Collection Date: 8/18/2005 3:20:00 PM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-09

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	2.0		mg/Kg	10	8/22/2005
2,4,5-Trichlorophenol	ND	2.0		mg/Kg	10	8/22/2005
2,4,6-Trichlorophenol	ND	2.0		mg/Kg	10	8/22/2005
Surr: 2,4,6-Tribromophenol	124	35.5-141		%REC	10	8/22/2005
Surr: 2-Fluorobiphenyl	92.6	30.4-128		%REC	10	8/22/2005
Surr: 2-Fluorophenol	77.8	28.1-129		%REC	10	8/22/2005
Surr: 4-Terphenyl-d14	79.2	34.6-151		%REC	10	8/22/2005
Surr: Nitrobenzene-d5	99.6	26.5-122		%REC	10	8/22/2005
Surr: Phenol-d6	63.6	37.6-118		%REC	10	8/22/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co
Lab Order: 0508233
Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav
Lab ID: 0508233-10

Client Sample ID: Inlet Pipe4 WS
Collection Date: 8/19/2005 7:00:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	310	10		mg/Kg	1	8/21/2005 4:57:26 PM
Motor Oil Range Organics (MRO)	230	50		mg/Kg	1	8/21/2005 4:57:26 PM
Surr: DNOP	116	60-124		%REC	1	8/21/2005 4:57:26 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	8/22/2005 11:55:41 PM
Surr: BFB	98.6	83.1-124		%REC	10	8/22/2005 11:55:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	1.0		mg/Kg	10	8/22/2005 11:55:41 PM
Benzene	ND	0.25		mg/Kg	10	8/22/2005 11:55:41 PM
Toluene	ND	0.25		mg/Kg	10	8/22/2005 11:55:41 PM
Ethylbenzene	ND	0.25		mg/Kg	10	8/22/2005 11:55:41 PM
Xylenes, Total	ND	0.25		mg/Kg	10	8/22/2005 11:55:41 PM
Surr: 4-Bromofluorobenzene	101	87.5-115		%REC	10	8/22/2005 11:55:41 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	0.20		mg/Kg	1	8/23/2005
Acenaphthylene	ND	0.20		mg/Kg	1	8/23/2005
Aniline	ND	0.20		mg/Kg	1	8/23/2005
Anthracene	ND	0.20		mg/Kg	1	8/23/2005
Azobenzene	ND	0.20		mg/Kg	1	8/23/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	8/23/2005
Benzidine	ND	0.20		mg/Kg	1	8/23/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/23/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/23/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	8/23/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	8/23/2005
Benzoic acid	ND	0.50		mg/Kg	1	8/23/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	8/23/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	8/23/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	8/23/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
Carbazole	ND	0.20		mg/Kg	1	8/23/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	8/23/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	8/23/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	8/23/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	8/23/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	8/23/2005

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

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

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe4 WS

Lab Order: 0508233

Collection Date: 8/19/2005 7:00:00 AM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-10

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	0.20		mg/Kg	1	8/23/2005
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	8/23/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	8/23/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	8/23/2005
Dibenzofuran	ND	0.50		mg/Kg	1	8/23/2005
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	8/23/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	8/23/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/23/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	8/23/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	8/23/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	8/23/2005
Fluoranthene	ND	0.20		mg/Kg	1	8/23/2005
Fluorene	ND	0.20		mg/Kg	1	8/23/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	8/23/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	8/23/2005
Hexachloroethane	ND	0.50		mg/Kg	1	8/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/23/2005
Isophorone	ND	0.20		mg/Kg	1	8/23/2005
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/23/2005
2-Methylphenol	ND	0.20		mg/Kg	1	8/23/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/23/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	8/23/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	8/23/2005
Naphthalene	ND	0.20		mg/Kg	1	8/23/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	8/23/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	8/23/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	8/23/2005
Nitrobenzene	ND	0.20		mg/Kg	1	8/23/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	8/23/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	8/23/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	8/23/2005
Phenanthrene	ND	0.20		mg/Kg	1	8/23/2005
Phenol	ND	0.20		mg/Kg	1	8/23/2005
Pyrene	ND	0.20		mg/Kg	1	8/23/2005
Pyridine	ND	0.50		mg/Kg	1	8/23/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe4 WS

Lab Order: 0508233

Collection Date: 8/19/2005 7:00:00 AM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-10

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
Surr: 2,4,6-Tribromophenol	90.5	35.5-141		%REC	1	8/23/2005
Surr: 2-Fluorobiphenyl	71.7	30.4-128		%REC	1	8/23/2005
Surr: 2-Fluorophenol	75.3	28.1-129		%REC	1	8/23/2005
Surr: 4-Terphenyl-d14	84.4	34.6-151		%REC	1	8/23/2005
Surr: Nitrobenzene-d5	69.0	26.5-122		%REC	1	8/23/2005
Surr: Phenol-d6	81.4	37.6-118		%REC	1	8/23/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe4 WN

Lab Order: 0508233

Collection Date: 8/19/2005 7:10:00 AM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-11

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	540	100		mg/Kg	10	8/21/2005 5:39:51 PM
Motor Oil Range Organics (MRO)	990	500		mg/Kg	10	8/21/2005 5:39:51 PM
Surr: DNOP	74.1	60-124		%REC	10	8/21/2005 5:39:51 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	8/23/2005 12:26:38 AM
Surr: BFB	95.3	83.1-124		%REC	10	8/23/2005 12:26:38 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	1.0		mg/Kg	10	8/23/2005 12:26:38 AM
Benzene	ND	0.25		mg/Kg	10	8/23/2005 12:26:38 AM
Toluene	ND	0.25		mg/Kg	10	8/23/2005 12:26:38 AM
Ethylbenzene	ND	0.25		mg/Kg	10	8/23/2005 12:26:38 AM
Xylenes, Total	ND	0.25		mg/Kg	10	8/23/2005 12:26:38 AM
Surr: 4-Bromofluorobenzene	99.5	87.5-115		%REC	10	8/23/2005 12:26:38 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	0.20		mg/Kg	1	8/23/2005
Acenaphthylene	ND	0.20		mg/Kg	1	8/23/2005
Aniline	ND	0.20		mg/Kg	1	8/23/2005
Anthracene	ND	0.20		mg/Kg	1	8/23/2005
Azobenzene	ND	0.20		mg/Kg	1	8/23/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	8/23/2005
Benzidine	ND	0.20		mg/Kg	1	8/23/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/23/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/23/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	8/23/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	8/23/2005
Benzoic acid	ND	0.50		mg/Kg	1	8/23/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	8/23/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	8/23/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	8/23/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
Carbazole	ND	0.20		mg/Kg	1	8/23/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	8/23/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	8/23/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	8/23/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	8/23/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	8/23/2005

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank

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

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe4 WN

Lab Order: 0508233

Collection Date: 8/19/2005 7:10:00 AM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-11

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	0.20		mg/Kg	1	8/23/2005
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	8/23/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	8/23/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	8/23/2005
Dibenzofuran	ND	0.50		mg/Kg	1	8/23/2005
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	8/23/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	8/23/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/23/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	8/23/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	8/23/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	8/23/2005
Fluoranthene	ND	0.20		mg/Kg	1	8/23/2005
Fluorene	ND	0.20		mg/Kg	1	8/23/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	8/23/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	8/23/2005
Hexachloroethane	ND	0.50		mg/Kg	1	8/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/23/2005
Isophorone	ND	0.20		mg/Kg	1	8/23/2005
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/23/2005
2-Methylphenol	ND	0.20		mg/Kg	1	8/23/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/23/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	8/23/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	8/23/2005
Naphthalene	ND	0.20		mg/Kg	1	8/23/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	8/23/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	8/23/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	8/23/2005
Nitrobenzene	ND	0.20		mg/Kg	1	8/23/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	8/23/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	8/23/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	8/23/2005
Phenanthrene	ND	0.20		mg/Kg	1	8/23/2005
Phenol	ND	0.20		mg/Kg	1	8/23/2005
Pyrene	0.31	0.20		mg/Kg	1	8/23/2005
Pyridine	ND	0.50		mg/Kg	1	8/23/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe4 WN

Lab Order: 0508233

Collection Date: 8/19/2005 7:10:00 AM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-11

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
Surr: 2,4,6-Tribromophenol	87.0	35.5-141		%REC	1	8/23/2005
Surr: 2-Fluorobiphenyl	71.1	30.4-128		%REC	1	8/23/2005
Surr: 2-Fluorophenol	72.4	28.1-129		%REC	1	8/23/2005
Surr: 4-Terphenyl-d14	83.3	34.6-151		%REC	1	8/23/2005
Surr: Nitrobenzene-d5	78.1	26.5-122		%REC	1	8/23/2005
Surr: Phenol-d6	79.5	37.6-118		%REC	1	8/23/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe4 BTM

Lab Order: 0508233

Collection Date: 8/19/2005 7:20:00 AM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-12

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	100	10		mg/Kg	1	8/21/2005 6:12:38 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/21/2005 6:12:38 PM
Surr: DNOP	178	60-124	S	%REC	1	8/21/2005 6:12:38 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	8/23/2005 12:57:24 AM
Surr: BFB	99.1	83.1-124		%REC	5	8/23/2005 12:57:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	5	8/23/2005 12:57:24 AM
Benzene	ND	0.13		mg/Kg	5	8/23/2005 12:57:24 AM
Toluene	ND	0.13		mg/Kg	5	8/23/2005 12:57:24 AM
Ethylbenzene	ND	0.13		mg/Kg	5	8/23/2005 12:57:24 AM
Xylenes, Total	0.19	0.13		mg/Kg	5	8/23/2005 12:57:24 AM
Surr: 4-Bromofluorobenzene	103	87.5-115		%REC	5	8/23/2005 12:57:24 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	0.20		mg/Kg	1	8/23/2005
Acenaphthylene	ND	0.20		mg/Kg	1	8/23/2005
Aniline	ND	0.20		mg/Kg	1	8/23/2005
Anthracene	ND	0.20		mg/Kg	1	8/23/2005
Azobenzene	ND	0.20		mg/Kg	1	8/23/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	8/23/2005
Benzidine	ND	0.20		mg/Kg	1	8/23/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/23/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/23/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	8/23/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	8/23/2005
Benzoic acid	ND	0.50		mg/Kg	1	8/23/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	8/23/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	8/23/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	8/23/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
Carbazole	ND	0.20		mg/Kg	1	8/23/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	8/23/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	8/23/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	8/23/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	8/23/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	8/23/2005

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

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

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe4 BTM

Lab Order: 0508233

Collection Date: 8/19/2005 7:20:00 AM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-12

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	0.20		mg/Kg	1	8/23/2005
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	8/23/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	8/23/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	8/23/2005
Dibenzofuran	ND	0.50		mg/Kg	1	8/23/2005
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	8/23/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	8/23/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/23/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	8/23/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	8/23/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	8/23/2005
Fluoranthene	ND	0.20		mg/Kg	1	8/23/2005
Fluorene	ND	0.20		mg/Kg	1	8/23/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	8/23/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	8/23/2005
Hexachloroethane	ND	0.50		mg/Kg	1	8/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/23/2005
Isophorone	ND	0.20		mg/Kg	1	8/23/2005
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/23/2005
2-Methylphenol	ND	0.20		mg/Kg	1	8/23/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/23/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	8/23/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	8/23/2005
Naphthalene	ND	0.20		mg/Kg	1	8/23/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	8/23/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	8/23/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	8/23/2005
Nitrobenzene	ND	0.20		mg/Kg	1	8/23/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	8/23/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	8/23/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	8/23/2005
Phenanthrene	ND	0.20		mg/Kg	1	8/23/2005
Phenol	ND	0.20		mg/Kg	1	8/23/2005
Pyrene	ND	0.20		mg/Kg	1	8/23/2005
Pyridine	ND	0.50		mg/Kg	1	8/23/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Inlet Pipe4 BTM

Lab Order: 0508233

Collection Date: 8/19/2005 7:20:00 AM

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Lab ID: 0508233-12

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
Surr: 2,4,6-Tribromophenol	94.1	35.5-141		%REC	1	8/23/2005
Surr: 2-Fluorobiphenyl	72.9	30.4-128		%REC	1	8/23/2005
Surr: 2-Fluorophenol	67.8	28.1-129		%REC	1	8/23/2005
Surr: 4-Terphenyl-d14	88.8	34.6-151		%REC	1	8/23/2005
Surr: Nitrobenzene-d5	71.1	26.5-122		%REC	1	8/23/2005
Surr: Phenol-d6	74.4	37.6-118		%REC	1	8/23/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Work Order: 0508233

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

QC SUMMARY REPORT

Method Blank

Sample ID	MB-8572	Batch ID: 8572	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/20/2005 6:54:01 PM	Prep Date	8/19/2005			
Client ID:		Run ID:	FID(17A) 2_050820A		SeqNo:	390347					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	10.35	0	10	0	103	60	124	0			

Sample ID	MB-8573	Batch ID: 8573	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/21/2005 1:58:54 AM	Prep Date	8/19/2005			
Client ID:		Run ID:	FID(17A) 2_050820A		SeqNo:	390355					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	10.5	0	10	0	105	60	124	0			

Sample ID	mb-8571	Batch ID: 8571	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/22/2005 6:42:39 PM	Prep Date	8/19/2005			
Client ID:		Run ID:	PIDFID_050822A		SeqNo:	391043					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5									
Surr: BFB	914.7	0	1000	0	91.5	83.1	124	0			

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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

B - Analyte detected in the associated Method Blank

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CLIENT: Giant Refining Co
Work Order: 0508233
Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

QC SUMMARY REPORT
Method Blank

Sample ID	mb-8571	Batch ID: 8571	Test Code: SW8021	Units: mg/Kg	Analysis Date	8/22/2005 6:42:39 PM	Prep Date	8/19/2005			
Client ID:		Run ID:	PIDFID_050822A	SeqNo:	391004						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1									J
Benzene	0.01303	0.025									J
Toluene	0.01188	0.025									J
Ethylbenzene	0.01603	0.025									J
Xylenes, Total	0.02385	0.025									J
Surr: 4-Bromofluorobenzene	0.9884	0	1	0	98.8	87.5	115	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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

B - Analyte detected in the associated Method Blank

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CLIENT: Giant Refining Co
Work Order: 0508233
Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

QC SUMMARY REPORT
 Method Blank

Sample ID	MB-8570	Batch ID: 8570	Test Code: SW8270C	Units: mg/Kg	Analysis Date	Prep Date					
Client ID:			Run ID: ELMO_050822A		SeqNo: 391145	8/19/2005					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.2									
Acenaphthylene	ND	0.2									
Aniline	ND	0.2									
Anthracene	ND	0.2									
Azobenzene	ND	0.2									
Benz(a)anthracene	ND	0.25									
Benzidine	ND	0.2									
Benzo(a)pyrene	ND	0.2									
Benzo(b)fluoranthene	ND	0.2									
Benzo(g,h,i)perylene	0.02967	0.3									J
Benzo(k)fluoranthene	ND	0.5									
Benzoic acid	ND	0.5									
Benzyl alcohol	ND	0.5									
Bis(2-chloroethoxy)methane	ND	0.5									
Bis(2-chloroethyl)ether	ND	0.25									
Bis(2-chloroisopropyl)ether	ND	0.5									
Bis(2-ethylhexyl)phthalate	0.06733	0.2									J
4-Bromophenyl phenyl ether	ND	0.25									
Butyl benzyl phthalate	ND	0.2									
Carbazole	ND	0.2									
4-Chloro-3-methylphenol	ND	0.2									
4-Chloroaniline	ND	0.2									
2-Chloronaphthalene	ND	0.2									
2-Chlorophenol	ND	0.2									
4-Chlorophenyl phenyl ether	ND	0.2									
Chrysene	ND	0.2									
Di-n-butyl phthalate	0.257	0.25									
Di-n-octyl phthalate	ND	0.5									

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

QC SUMMARY REPORT

Method Blank

CLIENT: Giant Refining Co
 Work Order: 0508233
 Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Dibenz(a,h)anthracene	ND	0.25
Dibenzofuran	ND	0.5
1,2-Dichlorobenzene	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
3,3'-Dichlorobenzidine	ND	0.2
Diethyl phthalate	ND	0.2
Dimethyl phthalate	ND	0.2
2,4-Dichlorophenol	ND	0.2
2,4-Dimethylphenol	ND	0.2
4,6-Dinitro-2-methylphenol	ND	0.5
2,4-Dinitrophenol	ND	0.5
2,4-Dinitrotoluene	ND	0.2
2,6-Dinitrotoluene	ND	0.2
Fluoranthene	ND	0.2
Fluorene	ND	0.2
Hexachlorobenzene	ND	0.2
Hexachlorobutadiene	ND	0.2
Hexachlorocyclopentadiene	ND	0.25
Hexachloroethane	ND	0.5
Indeno(1,2,3-cd)pyrene	ND	0.2
Isophorone	ND	0.2
2-Methylnaphthalene	ND	0.2
2-Methylphenol	ND	0.2
3+4-Methylphenol	ND	0.2
N-Nitrosodi-n-propylamine	ND	0.2
N-Nitrosodiphenylamine	ND	0.2
Naphthalene	ND	0.2
2-Nitroaniline	ND	0.5
3-Nitroaniline	ND	0.5
4-Nitroaniline	ND	0.25
Nitrobenzene	ND	0.2
2-Nitrophenol	ND	0.2

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

Method Blank

CLIENT: Giant Refining Co

Work Order: 0508233

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

[illegible]

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	
			5

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Work Order: 0508233

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID	0508233-04a ms	Batch ID: 8571	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/23/2005 4:02:38 AM	Prep Date	8/19/2005			
Client ID:	Inlet Pipe2 WS	Run ID:	PIDFID_050822A		SeqNo:	391088					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24.03	5	25	0	96.1	84	120	0			
Surr: BFB	977.8	0	1000	0	97.8	83.1	124	0			

Sample ID	0508233-04a msd	Batch ID: 8571	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/23/2005 4:33:21 AM	Prep Date	8/19/2005			
Client ID:	Inlet Pipe2 WS	Run ID:	PIDFID_050822A		SeqNo:	391094					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26.35	5	25	0	105	84	120	24.03	9.21	11.6	
Surr: BFB	1057	0	1000	0	106	83.1	124	977.8	7.79	0	

Sample ID 0508233-04a ms	Batch ID: 8571	Test Code: SW8021		Units: mg/Kg		Analysis Date 8/23/2005 4:02:38 AM		Prep Date 8/19/2005			
Client ID: Inlet Pipe2 WS	Run ID:	PIDFID_050822A		SeqNo: 391022							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	2.051	0.1	2	0	103	65	132	0			
Benzene	0.4318	0.025	0.42	0	103	85.6	116	0			
Toluene	2.055	0.025	2	0.01523	102	82.4	120	0			
Ethylbenzene	0.4198	0.025	0.41	0.02055	97.4	86.4	111	0			
Xylenes, Total	2.147	0.025	2	0	107	78.4	125	0			
Surr: 4-Bromofluorobenzene	1.054	0	1	0	105	87.5	115	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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

B - Analyte detected in the associated Method Blank

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QC SUMMARY REPORT

Sample Matrix Spike Duplicate

CLIENT: Giant Refining Co
 Work Order: 0508233
 Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Sample ID	0508233-04a msd	Batch ID	8571	Test Code	SW8021	Units	mg/Kg	Analysis Date	8/23/2005 4:33:21 AM	Prep Date	8/19/2005
Client ID	Inlet Pipe2 WS	Run ID	PID	FID	050822A			SeqNo	391025		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	2.027	0.1	2	0	101	65	132	2.051	1.16	28	
Benzene	0.409	0.025	0.42	0	97.4	85.6	116	0.4318	5.41	27	
Toluene	2.014	0.025	2	0.01523	99.9	82.4	120	2.055	2.02	19	
Ethylbenzene	0.43	0.025	0.41	0.02055	99.9	86.4	111	0.4198	2.41	10	
Xylenes, Total	2.173	0.025	2	0	109	78.4	125	2.147	1.17	13	
Surr: 4-Bromofluorobenzene	1.069	0	1	0	107	87.5	115	1.054	1.40	0	

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

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Work Order: 0508233

Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	LCS-8572	Batch ID: 8572	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/20/2005 7:26:49 PM	Prep Date	8/19/2005				
Client ID:		Run ID:	FID(17A) 2_050820A		SeqNo:	390348						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		46.27	10	50	0	92.5	67.4	117	0			

Sample ID	LCSD-8572	Batch ID: 8572	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/20/2005 7:59:32 PM	Prep Date	8/19/2005				
Client ID:		Run ID:	FID(17A) 2_050820A		SeqNo:	390349						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		48.26	10	50	0	96.5	67.4	117	46.27	4.21		17.4

Sample ID	LCS-8573	Batch ID: 8573	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/21/2005 2:31:43 AM	Prep Date	8/19/2005				
Client ID:		Run ID:	FID(17A) 2_050820A		SeqNo:	390356						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		53.51	10	50	0	107	67.4	117	0			

Sample ID	LCSD-8573	Batch ID: 8573	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/21/2005 3:04:32 AM	Prep Date	8/19/2005			
Client ID:		Run ID:	FID(17A) 2_050820A		SeqNo:	390357					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58.49	10	50	0	117	67.4	117	53.51	8.89		17.4

Sample ID	lcs-8571	Batch ID: 8571	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/22/2005 7:45:44 PM	Prep Date	8/19/2005			
Client ID:		Run ID:	PIDFID_050822A		SeqNo:	391059					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24.66	5	25	0	98.6	84	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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

B - Analyte detected in the associated Method Blank
/

CLIENT: Giant Refining Co
Work Order: 0508233
Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID **GRO lcs 2.5ug** Batch ID: **8571** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **8/23/2005 12:52:35 PM** Prep Date
 Client ID: Run ID: **PIDFID_050823A** SeqNo: **391457**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
 Gasoline Range Organics (GRO) 22.13 5 25 0.0156 88.5 84 120 0

Sample ID **GRO lcs 2.5ug** Batch ID: **8571** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **8/24/2005 4:49:06 PM** Prep Date
 Client ID: Run ID: **PIDFID_050824A** SeqNo: **392009**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
 Gasoline Range Organics (GRO) 22.35 5 25 0.0214 89.3 84 120 0

Sample ID **lcs-8571** Batch ID: **8571** Test Code: **SW8021** Units: **mg/Kg** Analysis Date **8/22/2005 7:45:44 PM** Prep Date **8/19/2005**
 Client ID: Run ID: **PIDFID_050822A** SeqNo: **391005**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
 Methyl tert-butyl ether (MTBE) 2.093 0.1 2 0 105 65 132 0
 Benzene 0.4507 0.025 0.42 0.01303 104 85.6 116 0
 Toluene 2.111 0.025 2 0.01188 105 82.4 120 0
 Ethylbenzene 0.4324 0.025 0.41 0.01603 102 86.4 111 0
 Xylenes, Total 2.185 0.025 2 0.02385 108 78.4 125 0

Sample ID **BTEX lcs 100ng** Batch ID: **8571** Test Code: **SW8021** Units: **mg/Kg** Analysis Date **8/23/2005 1:55:24 PM** Prep Date
 Client ID: Run ID: **PIDFID_050823A** SeqNo: **391323**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
 Methyl tert-butyl ether (MTBE) 0.9565 0.1 1 0 95.6 65 132 0
 Benzene 1.04 0.025 1 0 104 85.6 116 0
 Toluene 1.027 0.025 1 0 103 82.4 120 0
 Ethylbenzene 1.036 0.025 1 0 104 86.4 111 0
 Xylenes, Total 2.1 0.025 2 0 105 78.4 125 0

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

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

B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: Giant Refining Co
Work Order: 0508233
Project: Railroad Rack Lagoon SWMU-Inlet Pipe Excav

Sample ID	LCS-8570	Batch ID: 8570	Test Code: SW8270C	Units: mg/Kg	Analysis Date	8/22/2005	Prep Date	8/19/2005			
Client ID:			Run ID: ELMO_050822A		SeqNo:	391146					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1.344	0.2	1.67	0	80.5	24	125	0			
4-Chloro-3-methylphenol	2.653	0.2	3.33	0	79.7	14.6	154	0			
2-Chlorophenol	2.177	0.2	3.33	0	65.4	13.3	149	0			
1,4-Dichlorobenzene	0.9777	0.2	1.67	0	58.5	23.6	118	0			
2,4-Dinitrotoluene	1.402	0.2	1.67	0	83.9	28	136	0			
N-Nitrosodi-n-propylamine	1.068	0.2	1.67	0	64.0	28	114	0			
4-Nitrophenol	2.711	0.2	3.33	0	81.4	13.1	150	0			
Pentachlorophenol	2.921	0.5	3.33	0	87.7	20.1	139	0			
Phenol	2.213	0.2	3.33	0	66.4	17.3	141	0			
Pyrene	1.288	0.2	1.67	0	77.1	29	131	0			
1,2,4-Trichlorobenzene	1.109	0.2	1.67	0	66.4	17.9	126	0			

Sample ID	LCSD-8570	Batch ID: 8570	Test Code: SW8270C	Units: mg/Kg	Analysis Date	8/22/2005	Prep Date	8/19/2005			
Client ID:		Run ID:	ELMO_050822A		SeqNo:	391147					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1.298	0.2	1.67	0	77.7	24	125	1.344	3.48	25	
4-Chloro-3-methylphenol	2.848	0.2	3.33	0	85.5	14.6	154	2.653	7.08	25	
2-Chlorophenol	2.318	0.2	3.33	0	69.6	13.3	149	2.177	6.29	25	
1,4-Dichlorobenzene	0.9963	0.2	1.67	0	59.7	23.6	118	0.9777	1.89	25	
2,4-Dinitrotoluene	1.337	0.2	1.67	0	80.1	28	136	1.402	4.70	25	
N-Nitrosodi-n-propylamine	1.11	0.2	1.67	0	66.5	28	114	1.068	3.83	25	
4-Nitrophenol	2.786	0.2	3.33	0	83.7	13.1	150	2.711	2.73	25	
Pentachlorophenol	3.056	0.5	3.33	0	91.8	20.1	139	2.921	4.53	25	
Phenol	2.304	0.2	3.33	0	69.2	17.3	141	2.213	4.06	25	
Pyrene	1.384	0.2	1.67	0	82.9	29	131	1.288	7.21	25	
1,2,4-Trichlorobenzene	1.145	0.2	1.67	0	68.5	17.9	126	1.109	3.17	25	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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

B - Analyte detected in the associated Method Blank
3

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

8/19/2005

Work Order Number 0508233

Received by AMF

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?	6°	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

August 26, 2005

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

RE: R.R. Rack Lagoon Additional SE Wall Exc

Order No.: 0508234

Dear Steve Morris:

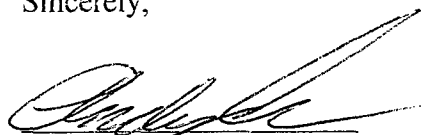
Hall Environmental Analysis Laboratory received 4 samples on 8/19/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co
Project: R.R. Rack Lagoon Additional SE Wall Excavati
Lab Order: 0508234

CASE NARRATIVE

Analytical Comments for METHOD 8015DRO_S, SAMPLE 0508234-01B: DNOP not recovered due to dilution Analytical Comments for METHOD 8015DRO_S, SAMPLE 0508234-02B: DNOP not recovered due to dilution Analytical Comments for METHOD 8015DRO_S, SAMPLE 0508234-03B: DNOP not recovered due to dilution

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: North Wall

Lab Order: 0508234

Collection Date: 8/19/2005 10:00:00 AM

Project: R.R. Rack Lagoon Additional SE Wall Excavati

Lab ID: 0508234-01

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	1500	1000		mg/Kg	100	8/21/2005 6:45:24 PM
Motor Oil Range Organics (MRO)	ND	5000		mg/Kg	100	8/21/2005 6:45:24 PM
Surr: DNOP	0	60-124	S	%REC	100	8/21/2005 6:45:24 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	120	100		mg/Kg	20	8/23/2005 11:21:34 PM
Surr: BFB	106	83.1-124		%REC	20	8/23/2005 11:21:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.0		mg/Kg	20	8/23/2005 11:21:34 PM
Benzene	0.70	0.50		mg/Kg	20	8/23/2005 11:21:34 PM
Toluene	ND	0.50		mg/Kg	20	8/23/2005 11:21:34 PM
Ethylbenzene	3.4	0.50		mg/Kg	20	8/23/2005 11:21:34 PM
Xylenes, Total	6.5	0.50		mg/Kg	20	8/23/2005 11:21:34 PM
Surr: 4-Bromofluorobenzene	109	87.5-115		%REC	20	8/23/2005 11:21:34 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	0.65	0.20		mg/Kg	1	8/23/2005
Acenaphthylene	ND	0.20		mg/Kg	1	8/23/2005
Aniline	ND	0.20		mg/Kg	1	8/23/2005
Anthracene	ND	0.20		mg/Kg	1	8/23/2005
Azobenzene	ND	0.20		mg/Kg	1	8/23/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	8/23/2005
Benzidine	ND	0.20		mg/Kg	1	8/23/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/23/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/23/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	8/23/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	8/23/2005
Benzoic acid	ND	0.50		mg/Kg	1	8/23/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	8/23/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	8/23/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	8/23/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
Carbazole	ND	0.20		mg/Kg	1	8/23/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	8/23/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	8/23/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	8/23/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	8/23/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	8/23/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: North Wall

Lab Order: 0508234

Collection Date: 8/19/2005 10:00:00 AM

Project: R.R. Rack Lagoon Additional SE Wall Excavati

Lab ID: 0508234-01

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	0.20		mg/Kg	1	8/23/2005
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	8/23/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	8/23/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	8/23/2005
Dibenzofuran	ND	0.50		mg/Kg	1	8/23/2005
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	8/23/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	8/23/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/23/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	8/23/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	8/23/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	8/23/2005
Fluoranthene	ND	0.20		mg/Kg	1	8/23/2005
Fluorene	1.5	0.20		mg/Kg	1	8/23/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	8/23/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	8/23/2005
Hexachloroethane	ND	0.50		mg/Kg	1	8/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/23/2005
Isophorone	ND	0.20		mg/Kg	1	8/23/2005
2-Methylnaphthalene	9.8	2.0		mg/Kg	10	8/23/2005
2-Methylphenol	ND	0.20		mg/Kg	1	8/23/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/23/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	8/23/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	8/23/2005
Naphthalene	3.1	0.20		mg/Kg	1	8/23/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	8/23/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	8/23/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	8/23/2005
Nitrobenzene	ND	0.20		mg/Kg	1	8/23/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	8/23/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	8/23/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	8/23/2005
Phenanthrene	2.9	0.20		mg/Kg	1	8/23/2005
Phenol	ND	0.20		mg/Kg	1	8/23/2005
Pyrene	ND	0.20		mg/Kg	1	8/23/2005
Pyridine	ND	0.50		mg/Kg	1	8/23/2005

Qualifiers: ND - Not Detected at the Reporting Limit

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J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: North Wall

Lab Order: 0508234

Collection Date: 8/19/2005 10:00:00 AM

Project: R.R. Rack Lagoon Additional SE Wall Excavati

Lab ID: 0508234-01

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
Surr: 2,4,6-Tribromophenol	110	35.5-141		%REC	1	8/23/2005
Surr: 2-Fluorobiphenyl	107	30.4-128		%REC	1	8/23/2005
Surr: 2-Fluorophenol	62.9	28.1-129		%REC	1	8/23/2005
Surr: 4-Terphenyl-d14	80.8	34.6-151		%REC	1	8/23/2005
Surr: Nitrobenzene-d5	73.9	26.5-122		%REC	1	8/23/2005
Surr: Phenol-d6	72.8	37.6-118		%REC	1	8/23/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank

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

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co
Lab Order: 0508234
Project: R.R. Rack Lagoon Additional SE Wall Excavati
Lab ID: 0508234-02

Client Sample ID: South Wall
Collection Date: 8/19/2005 10:30:00 AM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	3800	1000		mg/Kg	100	8/21/2005 7:16:33 PM
Motor Oil Range Organics (MRO)	ND	5000		mg/Kg	100	8/21/2005 7:16:33 PM
Surr: DNOP	0	60-124	S	%REC	100	8/21/2005 7:16:33 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	250		mg/Kg	50	8/23/2005 11:52:19 PM
Surr: BFB	98.4	83.1-124		%REC	50	8/23/2005 11:52:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	5.0		mg/Kg	50	8/23/2005 11:52:19 PM
Benzene	ND	1.3		mg/Kg	50	8/23/2005 11:52:19 PM
Toluene	ND	1.3		mg/Kg	50	8/23/2005 11:52:19 PM
Ethylbenzene	4.5	1.3		mg/Kg	50	8/23/2005 11:52:19 PM
Xylenes, Total	15	1.3		mg/Kg	50	8/23/2005 11:52:19 PM
Surr: 4-Bromofluorobenzene	105	87.5-115		%REC	50	8/23/2005 11:52:19 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	2.4	2.0		mg/Kg	10	8/23/2005
Acenaphthylene	ND	2.0		mg/Kg	10	8/23/2005
Aniline	ND	2.0		mg/Kg	10	8/23/2005
Anthracene	ND	2.0		mg/Kg	10	8/23/2005
Azobenzene	ND	2.0		mg/Kg	10	8/23/2005
Benz(a)anthracene	ND	2.5		mg/Kg	10	8/23/2005
Benzidine	ND	2.0		mg/Kg	10	8/23/2005
Benzo(a)pyrene	ND	2.0		mg/Kg	10	8/23/2005
Benzo(b)fluoranthene	ND	2.0		mg/Kg	10	8/23/2005
Benzo(g,h,i)perylene	ND	3.0		mg/Kg	10	8/23/2005
Benzo(k)fluoranthene	ND	5.0		mg/Kg	10	8/23/2005
Benzoic acid	ND	5.0		mg/Kg	10	8/23/2005
Benzyl alcohol	ND	5.0		mg/Kg	10	8/23/2005
Bis(2-chloroethoxy)methane	ND	5.0		mg/Kg	10	8/23/2005
Bis(2-chloroethyl)ether	ND	2.5		mg/Kg	10	8/23/2005
Bis(2-chloroisopropyl)ether	ND	5.0		mg/Kg	10	8/23/2005
Bis(2-ethylhexyl)phthalate	ND	2.0		mg/Kg	10	8/23/2005
4-Bromophenyl phenyl ether	ND	2.5		mg/Kg	10	8/23/2005
Butyl benzyl phthalate	ND	2.0		mg/Kg	10	8/23/2005
Carbazole	ND	2.0		mg/Kg	10	8/23/2005
4-Chloro-3-methylphenol	ND	2.0		mg/Kg	10	8/23/2005
4-Chloroaniline	ND	2.0		mg/Kg	10	8/23/2005
2-Chloronaphthalene	ND	2.0		mg/Kg	10	8/23/2005
2-Chlorophenol	ND	2.0		mg/Kg	10	8/23/2005
4-Chlorophenyl phenyl ether	ND	2.0		mg/Kg	10	8/23/2005

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

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

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: South Wall

Lab Order: 0508234

Collection Date: 8/19/2005 10:30:00 AM

Project: R.R. Rack Lagoon Additional SE Wall Excavati

Lab ID: 0508234-02

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	2.0		mg/Kg	10	8/23/2005
Di-n-butyl phthalate	ND	2.5		mg/Kg	10	8/23/2005
Di-n-octyl phthalate	ND	5.0		mg/Kg	10	8/23/2005
Dibenz(a,h)anthracene	ND	2.5		mg/Kg	10	8/23/2005
Dibenzofuran	ND	5.0		mg/Kg	10	8/23/2005
1,2-Dichlorobenzene	ND	2.0		mg/Kg	10	8/23/2005
1,3-Dichlorobenzene	ND	2.0		mg/Kg	10	8/23/2005
1,4-Dichlorobenzene	ND	2.0		mg/Kg	10	8/23/2005
3,3'-Dichlorobenzidine	ND	2.0		mg/Kg	10	8/23/2005
Diethyl phthalate	ND	2.0		mg/Kg	10	8/23/2005
Dimethyl phthalate	ND	2.0		mg/Kg	10	8/23/2005
2,4-Dichlorophenol	ND	2.0		mg/Kg	10	8/23/2005
2,4-Dimethylphenol	ND	2.0		mg/Kg	10	8/23/2005
4,6-Dinitro-2-methylphenol	ND	5.0		mg/Kg	10	8/23/2005
2,4-Dinitrophenol	ND	5.0		mg/Kg	10	8/23/2005
2,4-Dinitrotoluene	ND	2.0		mg/Kg	10	8/23/2005
2,6-Dinitrotoluene	ND	2.0		mg/Kg	10	8/23/2005
Fluoranthene	ND	2.0		mg/Kg	10	8/23/2005
Fluorene	5.1	2.0		mg/Kg	10	8/23/2005
Hexachlorobenzene	ND	2.0		mg/Kg	10	8/23/2005
Hexachlorobutadiene	ND	2.0		mg/Kg	10	8/23/2005
Hexachlorocyclopentadiene	ND	2.5		mg/Kg	10	8/23/2005
Hexachloroethane	ND	5.0		mg/Kg	10	8/23/2005
Indeno(1,2,3-cd)pyrene	ND	2.0		mg/Kg	10	8/23/2005
Isophorone	ND	2.0		mg/Kg	10	8/23/2005
2-Methylnaphthalene	49	4.0		mg/Kg	20	8/25/2005
2-Methylphenol	ND	2.0		mg/Kg	10	8/23/2005
3+4-Methylphenol	ND	2.0		mg/Kg	10	8/23/2005
N-Nitrosodi-n-propylamine	ND	2.0		mg/Kg	10	8/23/2005
N-Nitrosodiphenylamine	ND	2.0		mg/Kg	10	8/23/2005
Naphthalene	11	2.0		mg/Kg	10	8/23/2005
2-Nitroaniline	ND	5.0		mg/Kg	10	8/23/2005
3-Nitroaniline	ND	5.0		mg/Kg	10	8/23/2005
4-Nitroaniline	ND	2.5		mg/Kg	10	8/23/2005
Nitrobenzene	ND	2.0		mg/Kg	10	8/23/2005
2-Nitrophenol	ND	2.0		mg/Kg	10	8/23/2005
4-Nitrophenol	ND	2.0		mg/Kg	10	8/23/2005
Pentachlorophenol	ND	5.0		mg/Kg	10	8/23/2005
Phenanthrene	9.8	2.0		mg/Kg	10	8/23/2005
Phenol	ND	2.0		mg/Kg	10	8/23/2005
Pyrene	ND	2.0		mg/Kg	10	8/23/2005
Pyridine	ND	5.0		mg/Kg	10	8/23/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: South Wall

Lab Order: 0508234

Collection Date: 8/19/2005 10:30:00 AM

Project: R.R. Rack Lagoon Additional SE Wall Excavati

Lab ID: 0508234-02

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	2.0		mg/Kg	10	8/23/2005
2,4,5-Trichlorophenol	ND	2.0		mg/Kg	10	8/23/2005
2,4,6-Trichlorophenol	ND	2.0		mg/Kg	10	8/23/2005
Surr: 2,4,6-Tribromophenol	109	35.5-141		%REC	10	8/23/2005
Surr: 2-Fluorobiphenyl	73.7	30.4-128		%REC	10	8/23/2005
Surr: 2-Fluorophenol	63.2	28.1-129		%REC	10	8/23/2005
Surr: 4-Terphenyl-d14	56.9	34.6-151		%REC	10	8/23/2005
Surr: Nitrobenzene-d5	111	26.5-122		%REC	10	8/23/2005
Surr: Phenol-d6	53.4	37.6-118		%REC	10	8/23/2005

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank

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

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: North BTM.

Lab Order: 0508234

Collection Date: 8/19/2005 10:15:00 AM

Project: R.R. Rack Lagoon Additional SE Wall Excavati

Lab ID: 0508234-03

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	7000	200		mg/Kg	20	8/21/2005 9:52:45 AM
Motor Oil Range Organics (MRO)	ND	1000		mg/Kg	20	8/21/2005 9:52:45 AM
Surr: DNOP	0	60-124	S	%REC	20	8/21/2005 9:52:45 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	250		mg/Kg	50	8/24/2005 12:23:04 AM
Surr: BFB	101	83.1-124		%REC	50	8/24/2005 12:23:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	5.0		mg/Kg	50	8/24/2005 12:23:04 AM
Benzene	ND	1.3		mg/Kg	50	8/24/2005 12:23:04 AM
Toluene	ND	1.3		mg/Kg	50	8/24/2005 12:23:04 AM
Ethylbenzene	ND	1.3		mg/Kg	50	8/24/2005 12:23:04 AM
Xylenes, Total	11	1.3		mg/Kg	50	8/24/2005 12:23:04 AM
Surr: 4-Bromofluorobenzene	105	87.5-115		%REC	50	8/24/2005 12:23:04 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	2.1	2.0		mg/Kg	10	8/23/2005
Acenaphthylene	ND	2.0		mg/Kg	10	8/23/2005
Aniline	ND	2.0		mg/Kg	10	8/23/2005
Anthracene	ND	2.0		mg/Kg	10	8/23/2005
Azobenzene	ND	2.0		mg/Kg	10	8/23/2005
Benz(a)anthracene	ND	2.5		mg/Kg	10	8/23/2005
Benzidine	ND	2.0		mg/Kg	10	8/23/2005
Benzo(a)pyrene	ND	2.0		mg/Kg	10	8/23/2005
Benzo(b)fluoranthene	ND	2.0		mg/Kg	10	8/23/2005
Benzo(g,h,i)perylene	ND	3.0		mg/Kg	10	8/23/2005
Benzo(k)fluoranthene	ND	5.0		mg/Kg	10	8/23/2005
Benzoic acid	ND	5.0		mg/Kg	10	8/23/2005
Benzyl alcohol	ND	5.0		mg/Kg	10	8/23/2005
Bis(2-chloroethoxy)methane	ND	5.0		mg/Kg	10	8/23/2005
Bis(2-chloroethyl)ether	ND	2.5		mg/Kg	10	8/23/2005
Bis(2-chloroisopropyl)ether	ND	5.0		mg/Kg	10	8/23/2005
Bis(2-ethylhexyl)phthalate	ND	2.0		mg/Kg	10	8/23/2005
4-Bromophenyl phenyl ether	ND	2.5		mg/Kg	10	8/23/2005
Butyl benzyl phthalate	ND	2.0		mg/Kg	10	8/23/2005
Carbazole	ND	2.0		mg/Kg	10	8/23/2005
4-Chloro-3-methylphenol	ND	2.0		mg/Kg	10	8/23/2005
4-Chloroaniline	ND	2.0		mg/Kg	10	8/23/2005
2-Chloronaphthalene	ND	2.0		mg/Kg	10	8/23/2005
2-Chlorophenol	ND	2.0		mg/Kg	10	8/23/2005
4-Chlorophenyl phenyl ether	ND	2.0		mg/Kg	10	8/23/2005

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

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

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: North BTM.

Lab Order: 0508234

Collection Date: 8/19/2005 10:15:00 AM

Project: R.R. Rack Lagoon Additional SE Wall Excavati

Lab ID: 0508234-03

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	2.0		mg/Kg	10	8/23/2005
Di-n-butyl phthalate	ND	2.5		mg/Kg	10	8/23/2005
Di-n-octyl phthalate	ND	5.0		mg/Kg	10	8/23/2005
Dibenz(a,h)anthracene	ND	2.5		mg/Kg	10	8/23/2005
Dibenzofuran	ND	5.0		mg/Kg	10	8/23/2005
1,2-Dichlorobenzene	ND	2.0		mg/Kg	10	8/23/2005
1,3-Dichlorobenzene	ND	2.0		mg/Kg	10	8/23/2005
1,4-Dichlorobenzene	ND	2.0		mg/Kg	10	8/23/2005
3,3'-Dichlorobenzidine	ND	2.0		mg/Kg	10	8/23/2005
Diethyl phthalate	ND	2.0		mg/Kg	10	8/23/2005
Dimethyl phthalate	ND	2.0		mg/Kg	10	8/23/2005
2,4-Dichlorophenol	ND	2.0		mg/Kg	10	8/23/2005
2,4-Dimethylphenol	ND	2.0		mg/Kg	10	8/23/2005
4,6-Dinitro-2-methylphenol	ND	5.0		mg/Kg	10	8/23/2005
2,4-Dinitrophenol	ND	5.0		mg/Kg	10	8/23/2005
2,4-Dinitrotoluene	ND	2.0		mg/Kg	10	8/23/2005
2,6-Dinitrotoluene	ND	2.0		mg/Kg	10	8/23/2005
Fluoranthene	ND	2.0		mg/Kg	10	8/23/2005
Fluorene	4.3	2.0		mg/Kg	10	8/23/2005
Hexachlorobenzene	ND	2.0		mg/Kg	10	8/23/2005
Hexachlorobutadiene	ND	2.0		mg/Kg	10	8/23/2005
Hexachlorocyclopentadiene	ND	2.5		mg/Kg	10	8/23/2005
Hexachloroethane	ND	5.0		mg/Kg	10	8/23/2005
Indeno(1,2,3-cd)pyrene	ND	2.0		mg/Kg	10	8/23/2005
Isophorone	ND	2.0		mg/Kg	10	8/23/2005
2-Methylnaphthalene	34	2.0		mg/Kg	10	8/23/2005
2-Methylphenol	ND	2.0		mg/Kg	10	8/23/2005
3+4-Methylphenol	ND	2.0		mg/Kg	10	8/23/2005
N-Nitrosodi-n-propylamine	ND	2.0		mg/Kg	10	8/23/2005
N-Nitrosodiphenylamine	ND	2.0		mg/Kg	10	8/23/2005
Naphthalene	8.2	2.0		mg/Kg	10	8/23/2005
2-Nitroaniline	ND	5.0		mg/Kg	10	8/23/2005
3-Nitroaniline	ND	5.0		mg/Kg	10	8/23/2005
4-Nitroaniline	ND	2.5		mg/Kg	10	8/23/2005
Nitrobenzene	ND	2.0		mg/Kg	10	8/23/2005
2-Nitrophenol	ND	2.0		mg/Kg	10	8/23/2005
4-Nitrophenol	ND	2.0		mg/Kg	10	8/23/2005
Pentachlorophenol	ND	5.0		mg/Kg	10	8/23/2005
Phenanthrene	8.1	2.0		mg/Kg	10	8/23/2005
Phenol	ND	2.0		mg/Kg	10	8/23/2005
Pyrene	ND	2.0		mg/Kg	10	8/23/2005
Pyridine	ND	5.0		mg/Kg	10	8/23/2005

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

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

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: North BTM.

Lab Order: 0508234

Collection Date: 8/19/2005 10:15:00 AM

Project: R.R. Rack Lagoon Additional SE Wall Excavati

Lab ID: 0508234-03

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	2.0		mg/Kg	10	8/23/2005
2,4,5-Trichlorophenol	ND	2.0		mg/Kg	10	8/23/2005
2,4,6-Trichlorophenol	ND	2.0		mg/Kg	10	8/23/2005
Surr: 2,4,6-Tribromophenol	110	35.5-141		%REC	10	8/23/2005
Surr: 2-Fluorobiphenyl	69.1	30.4-128		%REC	10	8/23/2005
Surr: 2-Fluorophenol	57.2	28.1-129		%REC	10	8/23/2005
Surr: 4-Terphenyl-d14	54.7	34.6-151		%REC	10	8/23/2005
Surr: Nitrobenzene-d5	80.2	26.5-122		%REC	10	8/23/2005
Surr: Phenol-d6	51.7	37.6-118		%REC	10	8/23/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co
Lab Order: 0508234
Project: R.R. Rack Lagoon Additional SE Wall Excavati
Lab ID: 0508234-04

Client Sample ID: South BTM.
Collection Date: 8/19/2005 10:45:00 AM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	15	10		mg/Kg	1	8/21/2005 10:25:32 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/21/2005 10:25:32 AM
Surr: DNOP	117	60-124		%REC	1	8/21/2005 10:25:32 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/24/2005 12:53:57 AM
Surr: BFB	98.0	83.1-124		%REC	1	8/24/2005 12:53:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	8/24/2005 12:53:57 AM
Benzene	ND	0.025		mg/Kg	1	8/24/2005 12:53:57 AM
Toluene	ND	0.025		mg/Kg	1	8/24/2005 12:53:57 AM
Ethylbenzene	ND	0.025		mg/Kg	1	8/24/2005 12:53:57 AM
Xylenes, Total	0.036	0.025		mg/Kg	1	8/24/2005 12:53:57 AM
Surr: 4-Bromofluorobenzene	104	87.5-115		%REC	1	8/24/2005 12:53:57 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene	ND	0.20		mg/Kg	1	8/23/2005
Acenaphthylene	ND	0.20		mg/Kg	1	8/23/2005
Aniline	ND	0.20		mg/Kg	1	8/23/2005
Anthracene	ND	0.20		mg/Kg	1	8/23/2005
Azobenzene	ND	0.20		mg/Kg	1	8/23/2005
Benz(a)anthracene	ND	0.25		mg/Kg	1	8/23/2005
Benzidine	ND	0.20		mg/Kg	1	8/23/2005
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/23/2005
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/23/2005
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	8/23/2005
Benzo(k)fluoranthene	ND	0.50		mg/Kg	1	8/23/2005
Benzoic acid	ND	0.50		mg/Kg	1	8/23/2005
Benzyl alcohol	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-chloroethoxy)methane	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	8/23/2005
Bis(2-chloroisopropyl)ether	ND	0.50		mg/Kg	1	8/23/2005
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	8/23/2005
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	8/23/2005
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
Carbazole	ND	0.20		mg/Kg	1	8/23/2005
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	8/23/2005
4-Chloroaniline	ND	0.20		mg/Kg	1	8/23/2005
2-Chloronaphthalene	ND	0.20		mg/Kg	1	8/23/2005
2-Chlorophenol	ND	0.20		mg/Kg	1	8/23/2005
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	8/23/2005

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank

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

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: South BTM.

Lab Order: 0508234

Collection Date: 8/19/2005 10:45:00 AM

Project: R.R. Rack Lagoon Additional SE Wall Excavati

Lab ID: 0508234-04

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Chrysene	ND	0.20		mg/Kg	1	8/23/2005
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	8/23/2005
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	8/23/2005
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	8/23/2005
Dibenzofuran	ND	0.50		mg/Kg	1	8/23/2005
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	8/23/2005
Diethyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
Dimethyl phthalate	ND	0.20		mg/Kg	1	8/23/2005
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	8/23/2005
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/23/2005
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	8/23/2005
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	8/23/2005
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	8/23/2005
Fluoranthene	ND	0.20		mg/Kg	1	8/23/2005
Fluorene	ND	0.20		mg/Kg	1	8/23/2005
Hexachlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
Hexachlorobutadiene	ND	0.20		mg/Kg	1	8/23/2005
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	8/23/2005
Hexachloroethane	ND	0.50		mg/Kg	1	8/23/2005
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/23/2005
Isophorone	ND	0.20		mg/Kg	1	8/23/2005
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/23/2005
2-Methylphenol	ND	0.20		mg/Kg	1	8/23/2005
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/23/2005
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	8/23/2005
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	8/23/2005
Naphthalene	ND	0.20		mg/Kg	1	8/23/2005
2-Nitroaniline	ND	0.50		mg/Kg	1	8/23/2005
3-Nitroaniline	ND	0.50		mg/Kg	1	8/23/2005
4-Nitroaniline	ND	0.25		mg/Kg	1	8/23/2005
Nitrobenzene	ND	0.20		mg/Kg	1	8/23/2005
2-Nitrophenol	ND	0.20		mg/Kg	1	8/23/2005
4-Nitrophenol	ND	0.20		mg/Kg	1	8/23/2005
Pentachlorophenol	ND	0.50		mg/Kg	1	8/23/2005
Phenanthrene	ND	0.20		mg/Kg	1	8/23/2005
Phenol	ND	0.20		mg/Kg	1	8/23/2005
Pyrene	ND	0.20		mg/Kg	1	8/23/2005
Pyridine	ND	0.50		mg/Kg	1	8/23/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: South BTM.

Lab Order: 0508234

Collection Date: 8/19/2005 10:45:00 AM

Project: R.R. Rack Lagoon Additional SE Wall Excavati

Lab ID: 0508234-04

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	8/23/2005
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/23/2005
Surr: 2,4,6-Tribromophenol	93.6	35.5-141		%REC	1	8/23/2005
Surr: 2-Fluorobiphenyl	63.9	30.4-128		%REC	1	8/23/2005
Surr: 2-Fluorophenol	62.7	28.1-129		%REC	1	8/23/2005
Surr: 4-Terphenyl-d14	82.0	34.6-151		%REC	1	8/23/2005
Surr: Nitrobenzene-d5	66.7	26.5-122		%REC	1	8/23/2005
Surr: Phenol-d6	67.9	37.6-118		%REC	1	8/23/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Work Order: 0508234

Project: R.R. Rack Lagoon Additional SE Wall Excavati

QC SUMMARY REPORT

Method Blank

Sample ID	MB-8573	Batch ID: 8573	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/21/2005 1:58:54 AM	Prep Date	8/19/2005			
Client ID:			Run ID: FID(17A) 2_050820A		SeqNo:	390355					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	10.5	0	10	0	105	60	124	0			

Sample ID	mb-8571	Batch ID: 8571	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/22/2005 6:42:39 PM	Prep Date	8/19/2005			
Client ID:			Run ID: PIDFID_050822A		SeqNo: 391043						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5									
Surr: BFB	914.7	0	1000	0	91.5	83.1	124	0			

Sample ID	mb-8571	Batch ID: 8571	Test Code: SW8021	Units: mg/Kg	Analysis Date	8/22/2005 6:42:39 PM	Prep Date	8/19/2005			
Client ID:			Run ID: PIDFID_050822A		SeqNo:	391004					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1									J
Benzene	0.01303	0.025									J
Toluene	0.01188	0.025									J
Ethylbenzene	0.01603	0.025									J
Xylenes, Total	0.02385	0.025									J
Surr: 4-Bromofluorobenzene	0.9884	0	1	0	98.8	87.5	115	0			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

/

CLIENT: Giant Refining Co

Work Order: 0508234

Project: R.R. Rack Lagoon Additional SE Wall Excavati

QC SUMMARY REPORT

Method Blank

Sample ID	MB-8570	Batch ID: 8570	Test Code: SW8270C	Units: mg/Kg	Analysis Date	8/22/2005	Prep Date	8/19/2005				
Client ID:		Run ID:	ELMO_050822A		SeqNo:	391145						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene		ND	0.2									
Acenaphthylene		ND	0.2									
Aniline		ND	0.2									
Anthracene		ND	0.2									
Azobenzene		ND	0.2									
Benz(a)anthracene		ND	0.25									
Benzidine		ND	0.2									
Benzo(a)pyrene		ND	0.2									
Benzo(b)fluoranthene		ND	0.2									
Benzo(g,h,i)perylene		0.02967	0.3									J
Benzo(k)fluoranthene		ND	0.5									
Benzoic acid		ND	0.5									
Benzyl alcohol		ND	0.5									
Bis(2-chloroethoxy)methane		ND	0.5									
Bis(2-chloroethyl)ether		ND	0.25									
Bis(2-chloroisopropyl)ether		ND	0.5									
Bis(2-ethylhexyl)phthalate		0.06733	0.2									J
4-Bromophenyl phenyl ether		ND	0.25									
Butyl benzyl phthalate		ND	0.2									
Carbazole		ND	0.2									
4-Chloro-3-methylphenol		ND	0.2									
4-Chloroaniline		ND	0.2									
2-Chloronaphthalene		ND	0.2									
2-Chlorophenol		ND	0.2									
4-Chlorophenyl phenyl ether		ND	0.2									
Chrysene		ND	0.2									
Di-n-butyl phthalate		0.257	0.25									
Di-n-octyl phthalate		ND	0.5									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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

B - Analyte detected in the associated Method Blank
2

QC SUMMARY REPORT

Method Blank

CLIENT: Giant Refining Co
Work Order: 0508234
Project: R.R. Rack Lagoon Additional SE Wall Excavati

Dibenz(a,h)anthracene	ND	0.25
Dibenzofuran	ND	0.5
1,2-Dichlorobenzene	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
3,3'-Dichlorobenzidine	ND	0.2
Diethyl phthalate	ND	0.2
Dimethyl phthalate	ND	0.2
2,4-Dichlorophenol	ND	0.2
2,4-Dimethylphenol	ND	0.2
4,6-Dinitro-2-methylphenol	ND	0.5
2,4-Dinitrophenol	ND	0.5
2,4-Dinitrotoluene	ND	0.2
2,6-Dinitrotoluene	ND	0.2
Fluoranthene	ND	0.2
Fluorene	ND	0.2
Hexachlorobenzene	ND	0.2
Hexachlorobutadiene	ND	0.2
Hexachlorocyclopentadiene	ND	0.25
Hexachloroethane	ND	0.5
Indeno(1,2,3-cd)pyrene	ND	0.2
Isophorone	ND	0.2
2-Methylnaphthalene	ND	0.2
2-Methylphenol	ND	0.2
3+4-Methylphenol	ND	0.2
N-Nitrosodi-n-propylamine	ND	0.2
N-Nitrosodiphenylamine	ND	0.2
Naphthalene	ND	0.2
2-Nitroaniline	ND	0.5
3-Nitroaniline	ND	0.5
4-Nitroaniline	ND	0.25
Nitrobenzene	ND	0.2
2-Nitrophenol	ND	0.2

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

Method Blank

CLIENT: Giant Refining Co

Work Order: 0508234

Project: R.R. Rack Lagoon Additional SE Wall Excavati

Chemical	Concentration (ppm)	Retention Time (min)	Mass Spectrum	Identification
4-Nitrophenol	0.2	2.838	141	4-Nitrophenol
Pentachlorophenol	0.5	1.208	128	Pentachlorophenol
Phenanthrene	0.2	2.164	129	Phenanthrene
Phenol	0.2	1.483	151	Phenol
Pyrene	0.2	1.198	122	Pyrene
Pyridine	0.5	2.348	118	Pyridine
1,1,2,4-Trichlorobenzene	0.2	2.838	141	1,1,2,4-Trichlorobenzene
2,4,5-Trichlorophenol	0.2	1.208	128	2,4,5-Trichlorophenol
2,4,6-Trichlorophenol	0.2	2.164	129	2,4,6-Trichlorophenol
Surr: 2,4,6-Tribromophenol	0	3.33	35.5	Surr: 2,4,6-Tribromophenol
Surr: 2-Fluorobiphenyl	0	1.67	30.4	Surr: 2-Fluorobiphenyl
Surr: 2-Fluorophenol	0	3.33	28.1	Surr: 2-Fluorophenol
Surr: 4-Terphenyl-d14	0	1.67	34.6	Surr: 4-Terphenyl-d14
Surr: Nitrobenzene-d5	0	1.67	26.5	Surr: Nitrobenzene-d5
Surr: Phenol-d6	0	3.33	37.6	Surr: Phenol-d6

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 26-Aug-05

CLIENT: Giant Refining Co

Work Order: 0508234

Project: R.R. Rack Lagoon Additional SE Wall Excavati

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	LCS-8573	Batch ID: 8573	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/21/2005 2:31:43 AM	Prep Date	8/19/2005			
Client ID:		Run ID:	FID(17A) 2_050820A		SeqNo:	390356					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53.51	10	50	0	107	67.4	117	0			

Sample ID	LCSD-8573	Batch ID: 8573	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/21/2005 3:04:32 AM	Prep Date	8/19/2005			
Client ID:		Run ID:	FID(17A) 2_050820A		SeqNo:	390357					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58.49	10	50	0	117	67.4	117	53.51	8.89	17.4	

Sample ID	Ics-8571	Batch ID: 8571	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/22/2005 7:45:44 PM	Prep Date	8/19/2005			
Client ID:		Run ID:	PIDFID_050822A		SeqNo:	391059					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24.66	5	25	0	98.6	84	120	0			

Sample ID	GRO Ics 2.5ug	Batch ID: 8571	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/23/2005 12:52:35 PM	Prep Date				
Client ID:		Run ID:	PIDFID_050823A		SeqNo:	391457					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22.13	5	25	0.0156	88.5	84	120	0			

Sample ID	GRO Ics 2.5ug	Batch ID: 8571	Test Code: SW8015	Units: mg/Kg	Analysis Date	8/24/2005 4:49:06 PM	Prep Date				
Client ID:		Run ID:	PIDFID_050824A		SeqNo:	392009					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22.35	5	25	0.0214	89.3	84	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

/

CLIENT: Giant Refining Co

Work Order: 0508234

Project: R.R. Rack Lagoon Additional SE Wall Excavati

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	Ics-8571	Batch ID: 8571	Test Code: SW8021	Units: mg/Kg	Analysis Date	8/22/2005 7:45:44 PM	Prep Date	8/19/2005			
Client ID:		Run ID:	PIDFID_050822A		SeqNo:	391005					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	2.093	0.1	2	0	105	65	132	0			
Benzene	0.4507	0.025	0.42	0.01303	104	85.6	116	0			
Toluene	2.111	0.025	2	0.01188	105	82.4	120	0			
Ethylbenzene	0.4324	0.025	0.41	0.01603	102	86.4	111	0			
Xylenes, Total	2.185	0.025	2	0.02385	108	78.4	125	0			

Sample ID	BTEX Ics 100ng	Batch ID: 8571	Test Code: SW8021	Units: mg/Kg	Analysis Date	8/23/2005 1:55:24 PM	Prep Date				
Client ID:		Run ID:	PIDFID_050823A		SeqNo:	391323					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.9565	0.1	1	0	95.6	65	132	0			
Benzene	1.04	0.025	1	0	104	85.6	116	0			
Toluene	1.027	0.025	1	0	103	82.4	120	0			
Ethylbenzene	1.036	0.025	1	0	104	86.4	111	0			
Xylenes, Total	2.1	0.025	2	0	105	78.4	125	0			

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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

B - Analyte detected in the associated Method Blank
2

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: Giant Refining Co

Work Order: 0508234

Project: R.R. Rack Lagoon Additional SE Wall Excavati

Sample ID	LCS-8570	Batch ID: 8570	Test Code: SW8270C	Units: mg/Kg	Analysis Date 8/22/2005		Prep Date 8/19/2005				
Client ID:			Run ID: ELMO_050822A		SeqNo:	391146					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1.344	0.2	1.67	0	80.5	24	125	0			
4-Chloro-3-methylphenol	2.653	0.2	3.33	0	79.7	14.6	154	0			
2-Chlorophenol	2.177	0.2	3.33	0	65.4	13.3	149	0			
1,4-Dichlorobenzene	0.9777	0.2	1.67	0	58.5	23.6	118	0			
2,4-Dinitrotoluene	1.402	0.2	1.67	0	83.9	28	136	0			
N-Nitrosodi-n-propylamine	1.068	0.2	1.67	0	64.0	28	114	0			
4-Nitrophenol	2.711	0.2	3.33	0	81.4	13.1	150	0			
Pentachlorophenol	2.921	0.5	3.33	0	87.7	20.1	139	0			
Phenol	2.213	0.2	3.33	0	66.4	17.3	141	0			
Pyrene	1.288	0.2	1.67	0	77.1	29	131	0			
1,2,4-Trichlorobenzene	1.109	0.2	1.67	0	66.4	17.9	126	0			

Sample ID	LCSD-8570	Batch ID: 8570	Test Code: SW8270C	Units: mg/Kg	Analysis Date 8/22/2005	Prep Date 8/19/2005					
Client ID:			Run ID: ELMO_050822A		SeqNo: 391147						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1.298	0.2	1.67	0	77.7	24	125	1.344	3.48	25	
4-Chloro-3-methylphenol	2.848	0.2	3.33	0	85.5	14.6	154	2.653	7.08	25	
2-Chlorophenol	2.318	0.2	3.33	0	69.6	13.3	149	2.177	6.29	25	
1,4-Dichlorobenzene	0.9963	0.2	1.67	0	59.7	23.6	118	0.9777	1.89	25	
2,4-Dinitrotoluene	1.337	0.2	1.67	0	80.1	28	136	1.402	4.70	25	
N-Nitrosodi-n-propylamine	1.11	0.2	1.67	0	66.5	28	114	1.068	3.83	25	
4-Nitrophenol	2.786	0.2	3.33	0	83.7	13.1	150	2.711	2.73	25	
Pentachlorophenol	3.056	0.5	3.33	0	91.8	20.1	139	2.921	4.53	25	
Phenol	2.304	0.2	3.33	0	69.2	17.3	141	2.213	4.06	25	
Pyrene	1.384	0.2	1.67	0	82.9	29	131	1.288	7.21	25	
1,2,4-Trichlorobenzene	1.145	0.2	1.67	0	68.5	17.9	126	1.109	3.17	25	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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

B - Analyte detected in the associated Method Blank
3

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

8/19/2005

Work Order Number 0508234

Received by AMF

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

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

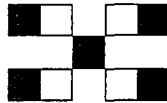
Contacted by: _____ Regarding _____

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.hallenviro.com



Air Bubbles or Heads (Y or N)

CHAIN-OF-CUSTODY RECORD									
Client: <u>Giant Refining</u> <u>Company - Linde</u> Address: <u>Route 3 Box 7</u> <u>Gallup, NM 87301</u>									
Phone #: <u>5057223833</u> Fax #: <u>5057220210</u>									
Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.	Other:	
					HgCl ₂	HNO ₃			
8/19/05	1000	Soil	North Wall	2/4g			0508234	Project Name: <u>RR Back Lagoon</u>	
"	1030	"	South Wall	"			-1	Project #: <u>SE Wall Excavation</u>	
"	1015	"	North Btm	"			2	Project Manager: <u>Steve Morris</u>	
"	1045	"	South Btm	"			3	Sampler: <u>Steve Morris</u>	
							4	Sample Temperature:	
Date: <u>8-19-05</u>	Time: <u>1335</u>	Relinquished By: (Signature) <u>Steve Morris</u>			Received By: (Signature) <u>Steve Morris</u>			Date: <u>8/19/05</u>	
Date:	Time:	Relinquished By: (Signature)			Received By: (Signature)			Date: <u>13:55</u>	

From: James Romero [jromero@giant.com]
To: James Romero; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD
Cc: Steve Morris
Subject: RE: Spill Report (daily update for 8/
Attachments:

Sent: Wed 8/31/2005 4:03 PM

Daily update for 8/31/05

- 1) Removed 17 trucks of water at the 55,000 barrel tanks
- 2) Utilized a 200 barrel truck (underway) to remove sludge from other tank, this will be reintroduced
- 3) visual inspections thru the night were good

-----Original Message-----

From: James Romero
Sent: Tuesday, August 30, 2005 3:13 PM
To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us'
Cc: Steve Morris
Subject: RE: Spill Report (daily update for 8/

Daily update for 8/30/05

- 1) New techniques were used today in an effort to suck more oil and less water
- 2) Water is being drained from the water tank and is being put back into the api system
- 3) The oil tank will be pumped out later this week and oil reintroduced into the process
- 4) Conducted our second weekly grab sampled per NMED (tests results on the first sample have not been received)
- 5) visual inspection thru the night were good

-----Original Message-----

From: James Romero
Sent: Monday, August 29, 2005 2:37 PM
To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us'
Cc: Steve Morris
Subject: RE: Spill Report (daily update for 8/

Daily update for 8/29/05

- 1) Riley is contuning operations to clean ponds
- 2) Water is now being removed from 55,000 barrel tanks and sent back to API
As of 28Aug05 61 trucks (60barrels/each) of water has been removed from tanks
- 3) Visual Inspections thru the weekend and night were good

Attached are spreadsheets showing truck numbers for pond clean out and water from tanks to api

-----Original Message-----

From: James Romero
Sent: Tuesday, August 23, 2005 2:57 PM
To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us'
Cc: Steve Morris
Subject: RE: Spill Report (daily update for 8/22/05 and 8/23/05)

Attached is a spreadsheet showing our daily truck counts for 8/22. Moreover, all operations to clean the ponds are moving forward and making progress. Continued visual inspections during nighttime hours have not documented any new spills around the API.

-----Original Message-----

From: James Romero
Sent: Thursday, August 18, 2005 3:17 PM
To: 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'
Cc: Ed Riege; Steve Morris; James Romero; Johnny Sanchez
Subject: RE: Spill Report (daily update for 8/18/05)

- 1) Riley started operations to clean ponds, approximately 4000 barrels were removed today
- 2) Visual inspections thru the night were all good
- 3) Started release of water from lower storm water basin
- 4) Completed spill/remediation plan (should go out tomorrow Friday)

-----Original Message-----

From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us]
Sent: Thursday, August 18, 2005 7:30 AM
To: James Romero
Cc: Ed Rios; Ed Riege; Steve Morris; Johnny Sanchez; David Kirby
Subject: RE: Spill Report (daily update for 8/17/05)

OCD hereby approves of your request.

Please be advised that NMOCD approval of this request does not relieve (Giant) of responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (Giant) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Wayne Price-Senior Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3487
Fax: 505-4763462

From: James Romero [mailto:jromero@giant.com]
Sent: Wed 8/17/2005 12:27 PM
To: Price, Wayne, EMNRD
Cc: Ed Rios; Ed Riege; Steve Morris; Johnny Sanchez; David Kirby
Subject: RE: Spill Report (daily update for 8/17/05)

Wayne, Hope:

Per OCD's condition here is our daily update:

- 1) We just received the lab results (via telephone) on Storm water Outfall #1
 - Benzene ND
 - EthylBen ND
 - Toluene .35ppb
 - Xylene 2.1ppb

With these tests results, and due to the fact the lower storm water basin is at capacity, we'd like your approval to release water off property.

- 2) Riley Industrial is onsite and unplugging the process sewer lines to the weir box.
- 3) The outlet to the upper storm water basin has been plugged to contain the spill

If you have any questions please feel free to call me anytime, James

-----Original Message-----

From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us]
Sent: Tuesday, August 16, 2005 8:01 AM
To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV;
foust.denny@state.nm.us
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios

Subject: RE: Spill Report

Wayne Price-Senior Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3487
Fax: 505-4763462

From: Price, Wayne, EMNRD
Sent: Tue 8/16/2005 8:59 AM
To: James Romero; Monzeglio, Hope, NMENV; 'foust.denny@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

OCD hereby approves of the emergency actions with the following conditions:

1. All water sales from the ponds shall cease, unless approved by OCD.
2. No stormwater shall be released that exceeds the WQCC standards.
3. The emergency actions shall be continuous (24 hour) until API problem is correct.
4. A daily E-mail report shall be submitted until emergency is over.
5. Giant shall isolate the other ponds, if possible during the emergency condition.

Please be advised that NMOCD approval of this plan does not relieve (Giant) of responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (Giant) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Wayne Price-Senior Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3487
Fax: 505-4763462

From: James Romero [mailto:jromero@giant.com]
Sent: Mon 8/15/2005 5:12 PM
To: Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; 'foust.denny@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: Spill Report

Wayne,

As we discussed via telephone today, our API pump motor is not working properly (20-30% capacity) which resulted in a reportable discharge into our aeration lagoons. Samples were gathered and lab results were received

today

on Lagoon 2, and Evap Pond 1 (see below). I will follow up this email with a formal C-141 spill report. Moreover, I will submit pics, lab results, and a site map, etc.

However, as an interim measure, and with your approval, we are taking the following actions:

- (1) Vac-trucks will be used to pump and clean out the aeration lagoons/API sump
- (2) Interim emergency storage of material within two 55,000 barrel tanks located on western part of the property (map will follow hard copy).
- (3) A chopper pump will be installed and has been ordered (replacement of old API pump)

LAB RESULTS	Lagoon 2	Evap Pond 1
MTBE	88 ppb	60 ppb
Benzene	306 ppb	1000 ppb
Toluene	8.7 ppb	76 ppb
Ethylbenzene	<2.5 ppb	<10.0 ppb

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GIANT

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

August 31, 2005

Wayne Price, Senior Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Denny Foust, Environmental Geologist
Oil Conservation Division
1000 Rio Bravo Rd
Aztec, NM 887410

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

RE: Request to utilize existing pond for firewater storage

Dear Wayne, Denny and Hope:

Giant Ciniza Safety Department has been investigating options to improve and increase the amount of water available in case of an emergency at the refinery. This project would not only be beneficial to the safety of our employees and the facility, but would double (1500/3000gpm) the amount of water available.

Currently, firewater is delivered via suction line from pond #2 @ 1500gpm to the refinery. Problems with the current system have made it obsolete and unreliable. Problems include but are not limited to: (1) service life of the suction pipe has been reached and reliability is severely questionable; (2) water quantity has diminished substantially due to settling in pond 2; and (3) water quality (heavy salts) have made the water undesirable for use.

Alternatives considered included, (1) no action; (2) replace suction line in pond 2; (3) construct a new pond; and (4) utilizing exiting effluent pond. Taking no action was not considered practicable because of safety concerns and it would not increase or improve the amount of water available. Alternative 2 would involve a considerable amount of labor and would cause significant disruption to pond 2 from dredging operations. Dredging may require draining which would make the fire pumps unavailable during an emergency. Moreover, the question of dredge spoil disposal would be an issue with this alternative. Alternative 3 would involve locating an acceptable location, construction, labor costs and increased regulatory oversight would make it uneconomic to pursue.

The preferred option would use an existing pond thereby minimizing impacts to the environment from construction and logistically is more favorable, and more cost

effective. This alternative would easily connect to our current fire fighting loop system increasing our available firewater by 84,000 barrels; doubling our fire fighting capabilities from 1500gpm to 3000gpm.

Water Supply

As discussed previously, firewater is currently taken from pond 2 via suction line. Water in pond 2 derives from effluent from evaporation pond #1 and RO (Reverse Osmosis) reject water from the boiler house. Both sources have separate infrastructure and outlets into pond 2.

The RO reject water derives from clean water, which is pumped to the boiler house from onsite wells. There it is purified using RO then turned into steam which is used to run turbines and other facility operations. Grab samples of the RO water were taken on 8/9/05 and analyzed. Test results (see attached) showed non-detect for all contaminants.

Existing effluent pond

The existing pond (see attached pics) was constructed sometime in the 1950's to hold sewage effluent. However, very little sewage effluent reaches the pond. A vast majority of the refineries sewage effluent goes into sewage lagoons located east of the refinery. However, the pond still receives small amounts of sewage from the refinery.

The pond itself consists of two cells, one cell is currently being used for sewage effluent and is 1/3 the size of the second cell. The Second Cell is larger and to the best of our knowledge has never been used for sewage effluent or other uses. The cells are separated by an earthen berm measuring 15-18' at its base. This earthen berm will be re-built and strengthened prior to any use of the pond.

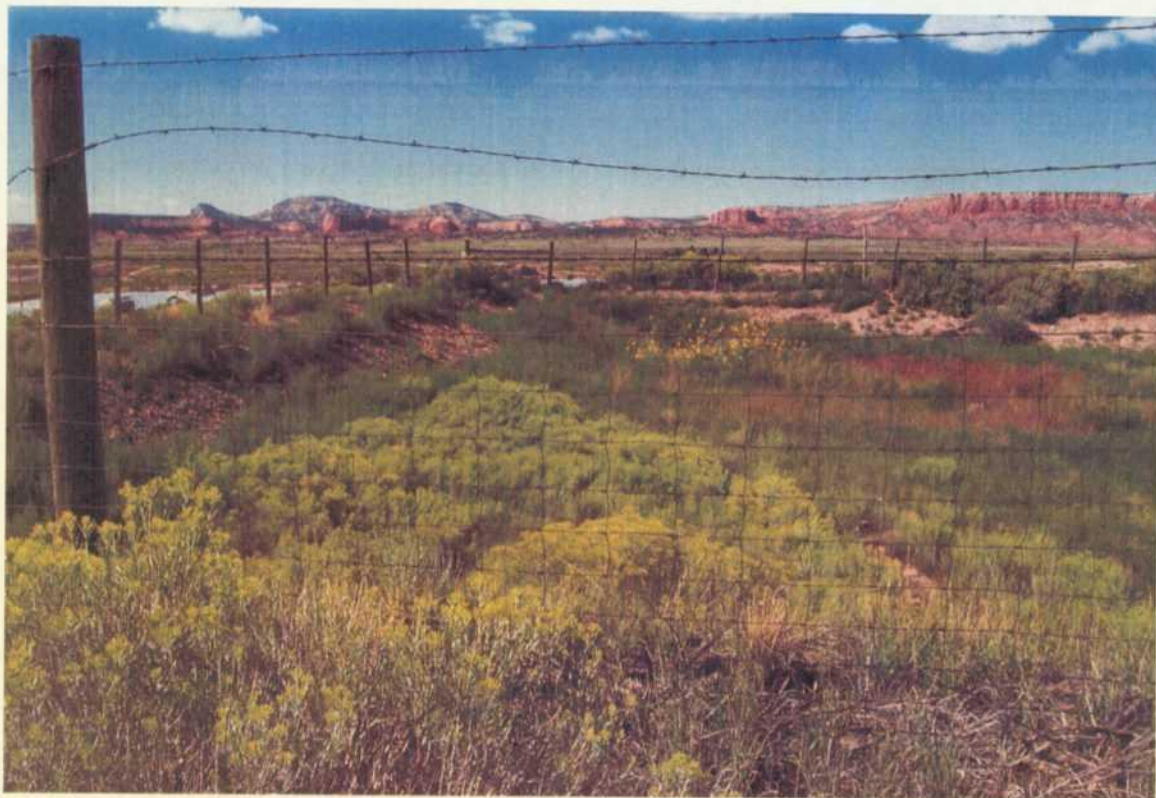
Thank you for taking the time to review our request. If there is any additional information you need or if you have any questions please do not hesitate to call me at (505) 722-0227.

Sincerely,

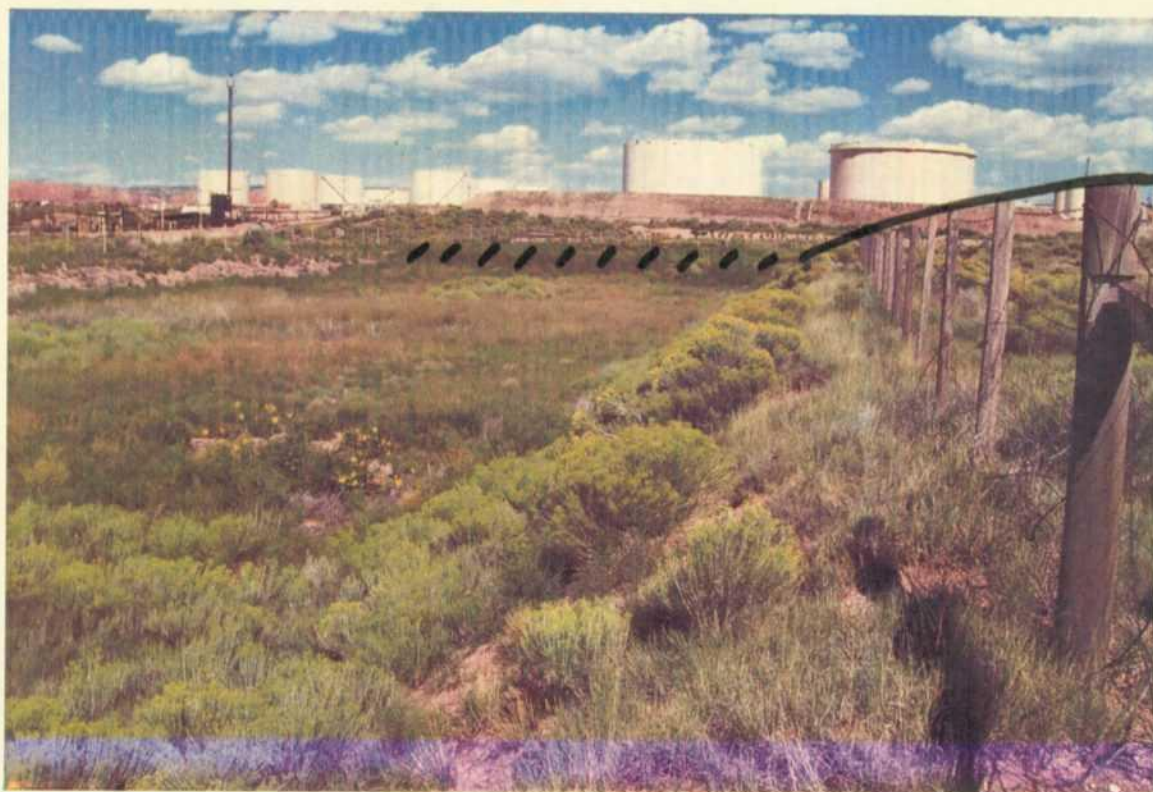


James Romero
Environmental Engineer
Ciniza Refinery

Encl: lab results, refinery map, and pics



#3



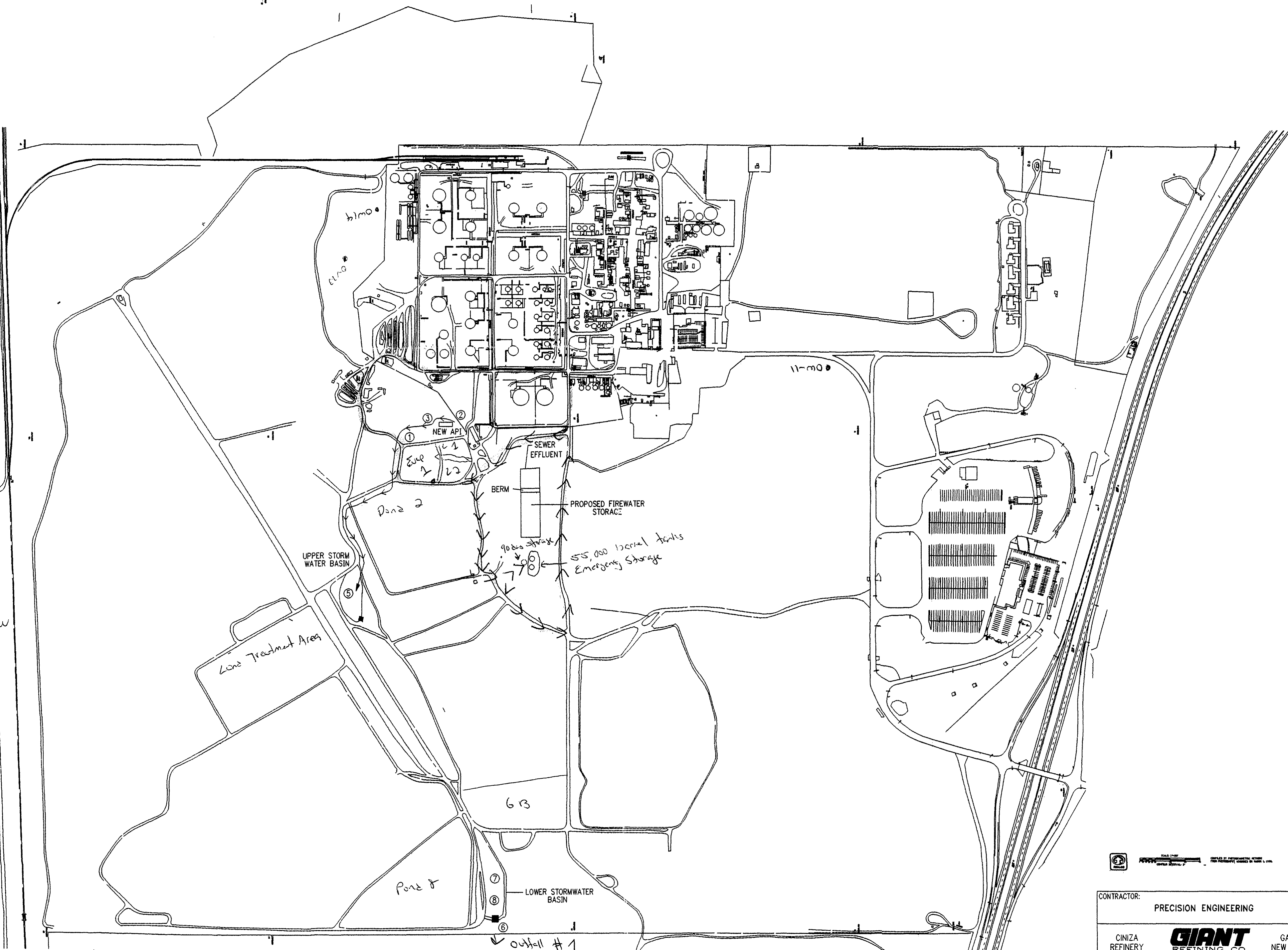
norm

#4



← Spill Flow

Truck Route



CONTRACTOR:		PRECISION ENGINEERING	
CINIZA REFINERY	GIANT REFINING CO. A DIVISION OF GIANT INDUSTRIES	GALLUP NEW MEXICO	
CINIZA GIANT REFINING Co. OVERALL TOPOGRAPHICAL MAP (MARCH 1998)			
DRN. BY: PREC. ENG.	DATE: MARCH 1998	RFE/RFC No: -	
CHK'D. BY: -	DATE: -	SCALE: -	
APP'D. BY: -	DATE: -	CAD REF: H/02/Z/Z-02-175	
WELD SPEC: -	PAINT: -		
DRAWING NO.	Z - 02 - 175		REV 0

REFERENCE DWG. TITLE	REF. DWG. No.	REV.	REVISION DESCRIPTION	RFC/RFE No.	DRAWN	CHK'D	APPR'D
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

PRECISION ENG. CAD REF: 9806ALL



COVER LETTER

August 24, 2005

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

RE: RO Reject & Softener Water

Order No.: 0508111

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 1 sample on 8/10/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 24-Aug-05

CLIENT: Giant Refining Co

Client Sample ID: Res. Water

Lab Order: 0508111

Collection Date: 8/9/2005 8:00:00 AM

Project: RO Reject & Softener Water

Lab ID: 0508111-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: CMC
Fluoride	1.5	0.10		mg/L	1	8/10/2005
Chloride	46	0.50		mg/L	5	8/11/2005
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	8/10/2005
Nitrogen, Nitrate (As N)	0.56	0.10		mg/L	1	8/10/2005
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	8/10/2005
Sulfate	2500	25		mg/L	50	8/11/2005
EPA METHOD 8260: VOLATILES						Analyst: HLM
Benzene	ND	1.0		µg/L	1	8/15/2005
Toluene	ND	1.0		µg/L	1	8/15/2005
Ethylbenzene	ND	1.0		µg/L	1	8/15/2005
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/15/2005
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/15/2005
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/15/2005
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/15/2005
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/15/2005
Naphthalene	ND	2.0		µg/L	1	8/15/2005
1-Methylnaphthalene	ND	4.0		µg/L	1	8/15/2005
2-Methylnaphthalene	ND	4.0		µg/L	1	8/15/2005
Acetone	ND	10		µg/L	1	8/15/2005
Bromobenzene	ND	1.0		µg/L	1	8/15/2005
Bromochloromethane	ND	1.0		µg/L	1	8/15/2005
Bromodichloromethane	ND	1.0		µg/L	1	8/15/2005
Bromoform	ND	1.0		µg/L	1	8/15/2005
Bromomethane	ND	2.0		µg/L	1	8/15/2005
2-Butanone	ND	10		µg/L	1	8/15/2005
Carbon disulfide	ND	10		µg/L	1	8/15/2005
Carbon Tetrachloride	ND	1.0		µg/L	1	8/15/2005
Chlorobenzene	ND	1.0		µg/L	1	8/15/2005
Chloroethane	ND	2.0		µg/L	1	8/15/2005
Chloroform	ND	1.0		µg/L	1	8/15/2005
Chloromethane	ND	1.0		µg/L	1	8/15/2005
2-Chlorotoluene	ND	1.0		µg/L	1	8/15/2005
4-Chlorotoluene	ND	1.0		µg/L	1	8/15/2005
cis-1,2-DCE	ND	1.0		µg/L	1	8/15/2005
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/15/2005
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/15/2005
Dibromochloromethane	ND	1.0		µg/L	1	8/15/2005
Dibromomethane	ND	2.0		µg/L	1	8/15/2005
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/15/2005
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/15/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

CLIENT: Giant Refining Co
Lab Order: 0508111
Project: RO Reject & Softener Water
Lab ID: 0508111-01

Client Sample ID: Res. Water
Collection Date: 8/9/2005 8:00:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/15/2005
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/15/2005
1,1-Dichloroethane	ND	1.0		µg/L	1	8/15/2005
1,1-Dichloroethene	ND	1.0		µg/L	1	8/15/2005
1,2-Dichloropropane	ND	1.0		µg/L	1	8/15/2005
1,3-Dichloropropane	ND	1.0		µg/L	1	8/15/2005
2,2-Dichloropropane	ND	1.0		µg/L	1	8/15/2005
1,1-Dichloropropene	ND	1.0		µg/L	1	8/15/2005
Hexachlorobutadiene	ND	1.0		µg/L	1	8/15/2005
2-Hexanone	ND	10		µg/L	1	8/15/2005
Isopropylbenzene	ND	1.0		µg/L	1	8/15/2005
4-Isopropyltoluene	ND	1.0		µg/L	1	8/15/2005
4-Methyl-2-pentanone	ND	10		µg/L	1	8/15/2005
Methylene Chloride	ND	3.0		µg/L	1	8/15/2005
n-Butylbenzene	ND	1.0		µg/L	1	8/15/2005
n-Propylbenzene	ND	1.0		µg/L	1	8/15/2005
sec-Butylbenzene	ND	1.0		µg/L	1	8/15/2005
Styrene	ND	1.0		µg/L	1	8/15/2005
tert-Butylbenzene	ND	1.0		µg/L	1	8/15/2005
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/15/2005
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	8/15/2005
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/15/2005
trans-1,2-DCE	ND	1.0		µg/L	1	8/15/2005
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/15/2005
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/15/2005
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/15/2005
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/15/2005
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/15/2005
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/15/2005
Trichlorofluoromethane	ND	1.0		µg/L	1	8/15/2005
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/15/2005
Vinyl chloride	ND	1.0		µg/L	1	8/15/2005
Xylenes, Total	ND	1.0		µg/L	1	8/15/2005
Surr: 1,2-Dichloroethane-d4	98.1	87.7-108		%REC	1	8/15/2005
Surr: 4-Bromofluorobenzene	107	88.8-113		%REC	1	8/15/2005
Surr: Dibromofluoromethane	105	84.1-111		%REC	1	8/15/2005
Surr: Toluene-d8	95.4	85.9-109		%REC	1	8/15/2005

EPA 120.1: SPECIFIC CONDUCTANCE

Specific Conductance 6900 0.010 µmhos/cm 1 8/13/2005 Analyst: CMC

EPA METHOD 7470: MERCURY

Mercury ND 0.00020 mg/L 1 8/15/2005 Analyst: CMC

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

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

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

CLIENT: Giant Refining Co
Lab Order: 0508111
Project: RO Reject & Softener Water
Lab ID: 0508111-01

Client Sample ID: Res. Water
Collection Date: 8/9/2005 8:00:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	8/16/2005 9:31:46 AM
Barium	ND	0.020		mg/L	1	8/15/2005 1:17:58 PM
Cadmium	ND	0.0020		mg/L	1	8/15/2005 1:17:58 PM
Calcium	2.1	1.0		mg/L	1	8/15/2005 1:17:58 PM
Chromium	ND	0.0060		mg/L	1	8/15/2005 1:17:58 PM
Lead	ND	0.0050		mg/L	1	8/15/2005 1:17:58 PM
Magnesium	ND	1.0		mg/L	1	8/15/2005 1:17:58 PM
Potassium	6.5	1.0		mg/L	1	8/15/2005 1:17:58 PM
Selenium	ND	0.050		mg/L	1	8/16/2005 9:31:46 AM
Silver	ND	0.0050		mg/L	1	8/15/2005 1:17:58 PM
Sodium	1600	20		mg/L	20	8/15/2005 3:53:14 PM
EPA METHOD 150.1: PH						Analyst: DK
pH	8.12	0.010		pH units	1	8/17/2005

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

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

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

QC SUMMARY REPORT
Method Blank

CLIENT: Giant Refining Co

Work Order: 0508111

Project: RO Reject & Softener Water

Sample ID	MBLK	Batch ID: R16266	Test Code: E300	Units: mg/L	Analysis Date 8/10/2005	Prep Date					
Client ID:			Run ID: LC_050810A		SeqNo: 387042						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	ND	0.1									
Chloride	ND	0.1									
Nitrogen, Nitrite (As N)	ND	0.1									
Nitrogen, Nitrate (As N)	ND	0.1									
Phosphorus, Orthophosphate (As P)	ND	0.5									
Sulfate	ND	0.5									

Sample ID	MBLK	Batch ID: R16266	Test Code: E300	Units: mg/L	Analysis Date 8/10/2005	Prep Date					
Client ID:			Run ID: LC_050810A		SeqNo: 387086						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	ND	0.1									
Chloride	ND	0.1									
Nitrogen, Nitrite (As N)	ND	0.1									
Nitrogen, Nitrate (As N)	ND	0.1									
Phosphorus, Orthophosphate (As P)	ND	0.5									
Sulfate	ND	0.5									

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limitsS - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT

Method Blank

CLIENT: Giant Refining Co
 Work Order: 0508111
 Project: RO Reject & Softener Water

Sample ID	MBLK	Batch ID: R16281	Test Code: E300	Units: mg/L	Analysis Date 8/11/2005	Prep Date					
Client ID:		Run ID: LC_050811A	SeqNo: 387530								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	ND	0.1									
Chloride	ND	0.1									
Nitrogen, Nitrite (As N)	ND	0.1									
Nitrogen, Nitrate (As N)	ND	0.1									
Phosphorus, Orthophosphate (As P)	ND	0.5									
Sulfate	ND	0.5									

Sample ID	MB-8532	Batch ID: 8532	Test Code: SW7470	Units: mg/L	Analysis Date 8/15/2005	Prep Date 8/15/2005					
Client ID:		Run ID: MI-LA254_050815A	SeqNo: 388235								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.0002									

Sample ID	MB-8517	Batch ID: 8517	Test Code: SW6010A		Units: mg/L	Analysis Date	8/15/2005 12:28:52 PM	Prep Date	8/11/2005		
Client ID:			Run ID:	ICP_050815A		SeqNo:	388298				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	ND	0.02	0	0	0	0	0	0			
Cadmium	ND	0.002	0	0	0	0	0	0			
Calcium	ND	1	0	0	0	0	0	0			
Chromium	ND	0.006	0	0	0	0	0	0			
Lead	ND	0.005	0	0	0	0	0	0			
Magnesium	ND	1	0	0	0	0	0	0			
Potassium	ND	1	0	0	0	0	0	0			
Silver	0.0008244	0.005	0	0	0	0	0	0			J
Sodium	ND	1	0	0	0	0	0	0			

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

CLIENT: Giant Refining Co

Work Order: 0508111

Project: RO Reject & Softener Water

QC SUMMARY REPORT

Method Blank

Sample ID	MB-8517	Batch ID: 8517	Test Code: SW6010A	Units: mg/L	Analysis Date	8/16/2005 8:59:09 AM	Prep Date	8/11/2005				
Client ID:		Run ID: ICP_050815A			SeqNo:	388639						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		ND	0.02	0	0	0	0	0	0			
Selenium		ND	0.05	0	0	0	0	0	0			
Sodium		ND	1	0	0	0	0	0	0			

Sample ID	MB-8517	Batch ID: 8517	Test Code: SW6010A	Units: mg/L	Analysis Date	8/16/2005 10:11:42 AM	Prep Date	8/11/2005				
Client ID:		Run ID: ICP_050815A			SeqNo:	388658						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium		ND	1	0	0	0	0	0	0			

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

QC SUMMARY REPORT
Method Blank

CLIENT: Giant Refining Co
 Work Order: 0508111
 Project: RO Reject & Softener Water

Sample ID	5ml rb	Batch ID: R16310	Test Code: SW8260B	Units: µg/L	Analysis Date	8/15/2005	Prep Date				
Client ID:			Run ID: VAL_050815A		SeqNo:	388486					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1									
Toluene	ND	1									
Ethylbenzene	ND	1									
Methyl tert-butyl ether (MTBE)	ND	1									
1,2,4-Trimethylbenzene	ND	1									
1,3,5-Trimethylbenzene	ND	1									
1,2-Dichloroethane (EDC)	ND	1									
1,2-Dibromoethane (EDB)	ND	1									
Naphthalene	ND	2									
1-Methylnaphthalene	ND	4									
2-Methylnaphthalene	ND	4									
Acetone	ND	10									
Bromobenzene	ND	1									
Bromochloromethane	ND	1									
Bromodichloromethane	ND	1									
Bromoform	ND	1									
Bromomethane	ND	2									
2-Butanone	ND	10									
Carbon disulfide	ND	10									
Carbon Tetrachloride	ND	1									
Chlorobenzene	ND	1									
Chloroethane	ND	2									
Chloroform	ND	1									
Chloromethane	ND	1									
2-Chlorotoluene	ND	1									
4-Chlorotoluene	ND	1									
cis-1,2-DCE	ND	1									

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

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

B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT

Method Blank

CLIENT: Giant Refining Co
Work Order: 0508111
Project: RO Reject & Softener Water

cis-1,3-Dichloropropene	ND	1
1,2-Dibromo-3-chloropropane	ND	2
Dibromochloromethane	ND	1
Dibromomethane	ND	2
1,2-Dichlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
Dichlorodifluoromethane	ND	1
1,1-Dichloroethane	ND	1
1,1-Dichloroethene	ND	1
1,2-Dichloropropane	ND	1
1,3-Dichloropropane	ND	1
2,2-Dichloropropane	ND	1
1,1-Dichloropropene	ND	1
Hexachlorobutadiene	ND	1
2-Hexanone	ND	10
Isopropylbenzene	ND	1
4-Isopropyltoluene	ND	1
4-Methyl-2-pentanone	ND	10
Methylene Chloride	ND	3
n-Butylbenzene	ND	1
n-Propylbenzene	ND	1
sec-Butylbenzene	ND	1
Styrene	ND	1
tert-Butylbenzene	ND	1
1,1,1,2-Tetrachloroethane	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Tetrachloroethene (PCE)	ND	1
trans-1,2-DCE	ND	1
trans-1,3-Dichloropropene	ND	1
1,2,3-Trichlorobenzene	ND	1
1,2,4-Trichlorobenzene	ND	1
1,1,1-Trichloroethane	ND	1

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Method Blank

Method Blank

CLIENT: Giant Refining Co

Work Order: 0508111

Project: RO Reject & Softener Water

Compound	Concentration (ppm)	Retention Time (min)	Peak Area	Peak Height
1,1,1,2-Trichloroethane	ND	1		
Trichloroethene (TCE)	ND	1		
Trichlorofluoromethane	ND	1		
1,2,3-Trichloropropane	ND	2		
Vinyl chloride	ND	1		
Xylenes, Total	ND	1		
Surr: 1,2-Dichloroethane-d4	9.538	0	10	0
Surr: 4-Bromofluorobenzene	10.41	0	10	0
Surr: Dibromofluoromethane	9.822	0	10	0
Surr: Toluene-d8	9.47	0	10	0

Qualifiers:

ND - Not Detected at the Reporting Limit
JJ - Analyte detected below quantitation limits

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank:

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

QC SUMMARY REPORT

Sample Duplicate

CLIENT: Giant Refining Co
Work Order: 0508111
Project: RO Reject & Softener Water

Sample ID	0508111-01C DUP	Batch ID: 8532	Test Code: SW7470	Units: mg/L	Analysis Date	8/15/2005	Prep Date	8/15/2005				
Client ID:	Res. Water		Run ID: MI-LA254_050815A		SeqNo:	388241						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		ND	0.0002	0	0	0	0	0	0	0	0	20

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

CLIENT: Giant Refining Co

Work Order: 0508111

Project: RO Reject & Softener Water

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID	0508111-01C MS	Batch ID: 8532	Test Code: SW7470	Units: mg/L	Analysis Date	8/15/2005	Prep Date	8/15/2005				
Client ID:	Res. Water		Run ID:	MI-LA254_050815A	SeqNo:	388242						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00498	0.0002	0.005	0	99.6	75.2	134	0			

Sample ID	0508111-01C MSD	Batch ID: 8532	Test Code: SW7470	Units: mg/L	Analysis Date	8/15/2005	Prep Date	8/15/2005				
Client ID:	Res. Water		Run ID:	MI-LA254_050815A	SeqNo:	388243						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.004985	0.0002	0.005	0	99.7	75.2	134	0.00498	0.0993	20	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

/

Hall Environmental Analysis Laboratory

Date: 24-Aug-05

CLIENT: Giant Refining Co

Work Order: 0508111

Project: RO Reject & Softener Water

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	LCS	Batch ID: R16266	Test Code: E300	Units: mg/L	Analysis Date	8/10/2005	Prep Date				
Client ID:		Run ID: LC_050810A			SeqNo: 387043						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.4754	0.1	0.5	0	95.1	90	110	0			
Chloride	4.805	0.1	5	0	96.1	90	110	0			
Nitrogen, Nitrite (As N)	0.9043	0.1	1	0	90.4	90	110	0			
Nitrogen, Nitrate (As N)	2.424	0.1	2.5	0	97.0	90	110	0			
Phosphorus, Orthophosphate (As P)	5.01	0.5	5	0	100	90	110	0			
Sulfate	9.757	0.5	10	0	97.6	90	110	0			

Sample ID	LCS	Batch ID: R16266	Test Code: E300	Units: mg/L	Analysis Date	8/10/2005	Prep Date				
Client ID:		Run ID:	LC_050810A		SeqNo:	387087					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.495	0.1	0.5	0	99.0	90	110	0			
Chloride	4.883	0.1	5	0	97.7	90	110	0			
Nitrogen, Nitrite (As N)	0.9222	0.1	1	0	92.2	90	110	0			
Nitrogen, Nitrate (As N)	2.47	0.1	2.5	0	98.8	90	110	0			
Phosphorus, Orthophosphate (As P)	5.075	0.5	5	0	101	90	110	0			
Sulfate	9.928	0.5	10	0	99.3	90	110	0			

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limitsS - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: Giant Refining Co
 Work Order: 0508111
 Project: RO Reject & Softener Water

Sample ID	LCS	Batch ID: R16281	Test Code: E300	Units: mg/L	Analysis Date 8/11/2005	Prep Date					
Client ID:		Run ID: LC_050811A			SeqNo: 387531						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.5179	0.1	0.5	0	104	90	110	0			
Chloride	4.933	0.1	5	0	98.7	90	110	0			
Nitrogen, Nitrite (As N)	0.9318	0.1	1	0	93.2	90	110	0			
Nitrogen, Nitrate (As N)	2.468	0.1	2.5	0	98.7	90	110	0			
Phosphorus, Orthophosphate (As P)	5.083	0.5	5	0	102	90	110	0			
Sulfate	10.07	0.5	10	0	101	90	110	0			

Sample ID	100ng lcs	Batch ID: R16310	Test Code: SW8260B	Units: µg/L	Analysis Date 8/15/2005	Prep Date					
Client ID:		Run ID: VAL_050815A			SeqNo: 388487						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.1	1	20	0	106	81.4	130	0			
Toluene	23.26	1	20	0	116	90.8	128	0			
Chlorobenzene	23.85	1	20	0	119	89.6	134	0			
1,1-Dichloroethane	21.55	1	20	0	108	75.1	120	0			
Trichloroethene (TCE)	19.86	1	20	0	99.3	75.8	110	0			

Sample ID	LCS-8532	Batch ID: 8532	Test Code: SW7470	Units: mg/L	Analysis Date 8/15/2005	Prep Date 8/15/2005					
Client ID:		Run ID: MI-LA254_050815A			SeqNo: 388236						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004743	0.0002	0.005	0	94.9	75.2	134	0			

Sample ID	LCSD-8532	Batch ID: 8532	Test Code: SW7470	Units: mg/L	Analysis Date 8/15/2005	Prep Date 8/15/2005					
Client ID:		Run ID: MI-LA254_050815A			SeqNo: 388246						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.005041	0.0002	0.005	0	101	75.2	134	0.004743	6.08	0	

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

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: Giant Refining Co
 Work Order: 0508111
 Project: RO Reject & Softener Water

Sample ID	LCS-8517	Batch ID: 8517	Test Code: SW6010A	Units: mg/L	Analysis Date	8/15/2005 12:32:07 PM	Prep Date	8/11/2005			
Client ID:			Run ID:	ICP_050815A	SeqNo:	388299					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	0.4899	0.02	0.5	0	98.0	80	120	0			
Cadmium	0.5008	0.002	0.5	0	100	80	120	0			
Calcium	49.95	1	50	0	99.9	80	120	0			
Chromium	0.4884	0.006	0.5	0	97.7	80	120	0			
Lead	0.4996	0.005	0.5	0	99.9	80	120	0			
Magnesium	48.32	1	50	0	96.6	80	120	0			
Potassium	50.07	1	50	0	100	80	120	0			
Silver	0.4936	0.005	0.5	0.0008244	98.6	80	120	0			
Sodium	50.32	1	50	0	101	80	120	0			

Sample ID	LCSD-8517	Batch ID: 8517	Test Code: SW6010A	Units: mg/L	Analysis Date	8/15/2005 12:35:41 PM	Prep Date	8/11/2005			
Client ID:			Run ID:	ICP_050815A	SeqNo:	388300					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	0.4965	0.02	0.5	0	99.3	80	120	0.4899	1.35	20	
Cadmium	0.5099	0.002	0.5	0	102	80	120	0.5008	1.80	20	
Calcium	50.74	1	50	0	101	80	120	49.96	1.55	20	
Chromium	0.4983	0.006	0.5	0	99.7	80	120	0.4884	2.00	20	
Lead	0.5095	0.005	0.5	0	102	80	120	0.4996	1.98	20	
Magnesium	48.87	1	50	0	97.7	80	120	48.32	1.14	20	
Potassium	50.68	1	50	0	101	80	120	50.07	1.21	20	
Silver	0.4988	0.005	0.5	0.0008244	99.6	80	120	0.4936	1.04	20	
Sodium	50.68	1	50	0	101	80	120	50.32	0.718	20	

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

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

B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: Giant Refining Co
 Work Order: 0508111
 Project: RO Reject & Softener Water

Sample ID	LCS-8517	Batch ID: 8517	Test Code: SW6010A	Units: mg/L	Analysis Date	8/16/2005 9:00:58 AM	Prep Date	8/11/2005			
Client ID:			Run ID: ICP_050815A		SeqNo:	388640					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5089	0.02	0.5	0	102	80	120	0			
Selenium	0.4795	0.05	0.5	0	95.9	80	120	0			
Sodium	51.04	1	50	0	102	80	120	0			

Sample ID	LCSD-8517	Batch ID: 8517	Test Code: SW6010A		Units: mg/L		Analysis Date	8/16/2005 9:03:45 AM		Prep Date	8/11/2005
Client ID:			Run ID:	ICP_050815A			SeqNo:	388641			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5204	0.02	0.5	0	104	80	120	0.5089	2.24	20	
Selenium	0.4824	0.05	0.5	0	96.5	80	120	0.4795	0.612	20	
Sodium	51.5	1	50	0	103	80	120	51.04	0.901	20	

Sample ID	LCS-8517	Batch ID: 8517	Test Code: SW6010A	Units: mg/L	Analysis Date	8/16/2005 10:13:56 AM	Prep Date	8/11/2005			
Client ID:			Run ID: ICP_050815A		SeqNo:	388559					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	50.52	1	50	0	101	80	120	0			

Sample ID	LCSD-8517	Batch ID: 8517	Test Code: SW6010A	Units: mg/L	Analysis Date	8/16/2005 10:16:19 AM	Prep Date	8/11/2005
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Sample ID:	ICP_050815A	Batch ID:	8517	Test Code:	SW6010A	Units:	mg/L	Analysis Date:	8/16/2005 10:16:19 AM	Prep Date:	8/11/2005
Client ID:		Run ID:	ICP_050815A			SeqNo:	388660				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	50.78	1	50	0	102	80	120	50.52	0.508	20	

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

8/10/2005

Work Order Number 0508111

Received by AT

Checklist completed by



8/10/05

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 _____

Client: Giant Refining
Company - Amiga
 Address: Route 3 Box 7
Gallup, NM 87301

Project Name: RO Rejestand
Koptener Water

Project #:

Project Manager:

100

Sampler: *Steve Johnson*

Sample Temperature: 30

Phone #: 505-722-3833

Fax #: 505-722-0210

[illegible]

Date:	Time:	Relinquished By: (Signature)
11/1/05	2:25	[Signature]

03/03	003	<i>[Signature]</i>
Date:	Time:	Relinquished By: (Signature)

Received By: (Signature) 8/10/05

Received By: [Signature]

[illegible]

Remarks:

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

Date: 1/23/2025	Time: 1:00 PM
-----------------	---------------

Relinquished By: (Signature)

Belinquinsh By: (Signature)

Received By: (Signature) 8/10/05

Received By: [Signature]

0835

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**
4901 Hawkins NE, Suite D
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Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

GIANT

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

August 31, 2005

Wayne Price, Senior Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Denny Foust, Environmental Geologist
Oil Conservation Division
1000 Rio Bravo Rd
Aztec, NM 887410

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

RE: C-141 reports dated 8/3/05 and 8/15/05

Dear Wayne, Denny and Hope:

The purpose of this letter is to update your office regarding recent spill reports (C 141) dated 8/03/05 and 8/15/05. The entire spill area has been cleaned, with the exception of the upper basin, and all impacted soils and vegetation have been removed. Heavy rains and muddy conditions have made it difficult for equipment to clean the upper basin. However, the upper basin is completely contained and daily inspections are being conducted. A work order has been issued and should be completed late this week or early next week. I've included several pictures of the area cleaned for you records.

If you need any additional information please call me at 505-722-0227

Sincerely,



James Romero

