

GW - 32

**GENERAL
CORRESPONDENCE**

YEAR(S):

10/05 → 9/05

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Giant Industries, Inc.	Contact James Romero
Address Rt. 3, Box 7	Telephone No. 505-722-0227
Facility Name Giant Industries, Inc.	Facility Type Refinery

Surface Owner Giant Industries, Inc.	Mineral Owner Giant Industries, Inc.	Lease No.
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LOCATION OF RELEASE

Unit Letter	Section 33	Township 15N	Range 15W	Feet from the	North/South Line	Feet from the	East/West Line	County McKinley
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Latitude 30° 29' 30" Longitude 108° 24' 40"

NATURE OF RELEASE

Type of Release Transmix	Volume of Release 2184 gal	Volume Recovered 1747 gal
Source of Release Tank 232	Date and Hour of Occurrence 10/17/05 @ 1705 to 1725	Date and Hour of Discover 10/17/05 @ 1730
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Carl Chavez, OCD; Hope Monzeglio, NMED; Denny Foust, OCD	
By Whom? James Romero	Date and Hour 10/05/05 @ 12:00am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully. **No watercourse was Impacted**

Describe Cause of Problem and Remedial Action Taken: **Between 1705 and 1725 at tank 232 approximately 2,184 gallons of transmix (gasoline/diesel) ran over. At 1730 the release was discovered and remedial actions were taken. The release was contained within secondary containment and did not reach any waterways**

Describe Area Affected and Cleanup Action Taken **Upon discovery personnel took action to stop the release. Also, a vacuum truck was dispatched and approximately 80% (1747gallons) was recovered. Cause(s) of the run over are under investigation at this time.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor:		
Printed Name: JAMES ROMERO	Approval Date:	Expiration Date:	
Title: Environmental Engineer	Conditions of Approval:		
E-mail Address: Jromero@Giant.com	Attached <input type="checkbox"/>		
Date: Oct 18, 2005 Phone: 505-722-0227			

* Attach Additional Sheets If Necessary

Price, Wayne, EMNRD

From: James Romero [jromero@giant.com] **Sent:** Mon 10/3/2005 4:14 PM
To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD
Cc: Ed Riege; Ed Rios; Steve Morris; Johnny Sanchez; Stan Fisher
Subject: Release Notification and Corrective Action
Attachments:  [Release Notification API Secondary.doc\(53KB\)](#)

Wayne, Carl, Denny and Hope:

Attached you will find an electronic version of C-141 Release Notification for a release which occurred into our secondary containment at our API Separator. A hard copy will follow this email via certified mail with lab results attached.

<<Release Notification API Secondary.doc>>

DISCLAIMER: The information contained in this e-mail message may be privileged, confidential and protected from disclosure. If you are not the intended recipient, any further disclosure, use, dissemination, distribution or copying of this message or any attachment is strictly prohibited. If you think you have received this e-mail message in error, please e-mail the sender at the above address and permanently delete the e-mail. Although this e-mail and any attachments are believed to be free of any virus or other defect that might affect any computer system into which they are received and opened, it is the responsibility of the recipient to ensure that they are virus free and no responsibility is accepted by Giant Industries, Inc. or its affiliates for any loss or damage arising in any way from their use.

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OPERATOR

Initial Report Final Report

Name of Company Giant Industries, Inc.	Contact James Romero
Address Rt. 3, Box 7	Telephone No. 505-722-0227
Facility Name Giant Industries, Inc.	Facility Type Refinery

Surface Owner Giant Industries, Inc.	Mineral Owner Giant Industries, Inc.	Lease No.
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LOCATION OF RELEASE

Unit Letter	Section 33	Township 15N	Range 15W	Feet from the	North/South Line	Feet from the	East/West Line	County McKinley
-------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	--------------------

Latitude 30° 29' 30" Longitude 108° 24' 40"

NATURE OF RELEASE

Type of Release Release into Secondary Containment	Volume of Release 210 Gallons	Volume Recovered 210 Gallons
Source of Release API Separator Secondary containment	Date and Hour of Occurrence Between 8/5/05n - 9/15/05	Date and Hour of Discover 9/15/05 @ 0930
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Wayne Price, OCD and Hope Monzeglio, NMED	
By Whom? James Romero	Date and Hour 10/03/05 @ 4:00 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully. **No watercourse was Impacted**

Describe Cause of Problem and Remedial Action Taken. **During monthly inspections of below grade tanks/sumps/pits/and ponds, Giant personnel noted water within the secondary containment of the API separator. Samples were gathered and taken in for laboratory testing which indicated exceedence of NMWQS (see attached lab results). Giant has no reason to believe the spill left the secondary containment.**

Describe Area Affected and Cleanup Action Taken. **The Secondary containment was vacuumed and all water removed and Giant has initiated weekly inspections and will pump the secondary as necessary. Furthermore, Giant will update OCD and NMED on a weekly basis (via our OCD weekly Reporting) on the current status until the problem is corrected. Also, Giant has initiated an Request for Expenditures (RFE) to repair the primary.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION	
Signature:	Approved by District Supervisor:
Printed Name: JAMES ROMERO	Approval Date:
Title: Environmental Engineer	Expiration Date:
E-mail Address: Jromero@Giant.com	Conditions of Approval:
Date: Oct 3, 2005 Phone: 505-722-0227	Attached <input checked="" type="checkbox"/>

* Attach Additional Sheets If Necessary

COVER LETTER

September 30, 2005

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

RE: Stormwater Separator Effluent Water

Order No.: 0509109

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 1 sample on 9/12/2005 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: 30-Sep-05

CLIENT: Giant Refining Co
 Lab Order: 0509109
 Project: Stormwater Separator Effluent Water
 Lab ID: 0509109-01

Client Sample ID: SW Sep Effluent
 Collection Date: 9/9/2005 11:30:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MAP
Fluoride	2.1	0.50		mg/L	5	9/13/2005
Chloride	90	0.50		mg/L	5	9/13/2005
Phosphorus, Orthophosphate (As P)	2.6	2.5	H	mg/L	5	9/13/2005
Sulfate	2300	25		mg/L	50	9/16/2005
Nitrate (As N)+Nitrite (As N)	5.0	0.50		mg/L	5	9/15/2005
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	1.9	1.0		mg/L	1	9/21/2005 12:09:57 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	9/21/2005 12:09:57 PM
Surr: DNOP	126	58-140		%REC	1	9/21/2005 12:09:57 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	3.0	0.25		mg/L	5	9/17/2005 2:18:49 AM
Surr: BFB	113	79.7-118		%REC	5	9/17/2005 2:18:49 AM
EPA METHOD 8260B: VOLATILES						Analyst: HLM
Benzene	82	2.0		µg/L	2	9/14/2005
Toluene	290	20		µg/L	20	9/13/2005
Ethylbenzene	35	2.0		µg/L	2	9/14/2005
Methyl tert-butyl ether (MTBE)	3.8	2.0		µg/L	2	9/14/2005
1,2,4-Trimethylbenzene	110	2.0		µg/L	2	9/14/2005
1,3,5-Trimethylbenzene	91	2.0		µg/L	2	9/14/2005
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	9/14/2005
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	9/14/2005
Naphthalene	42	4.0		µg/L	2	9/14/2005
1-Methylnaphthalene	110	8.0		µg/L	2	9/14/2005
2-Methylnaphthalene	99	8.0		µg/L	2	9/14/2005
Acetone	ND	20		µg/L	2	9/14/2005
Bromobenzene	ND	2.0		µg/L	2	9/14/2005
Bromochloromethane	ND	2.0		µg/L	2	9/14/2005
Bromodichloromethane	ND	2.0		µg/L	2	9/14/2005
Bromoform	ND	2.0		µg/L	2	9/14/2005
Bromomethane	ND	4.0		µg/L	2	9/14/2005
2-Butanone	ND	20		µg/L	2	9/14/2005
Carbon disulfide	ND	20		µg/L	2	9/14/2005
Carbon Tetrachloride	ND	2.0		µg/L	2	9/14/2005
Chlorobenzene	ND	2.0		µg/L	2	9/14/2005
Chloroethane	ND	4.0		µg/L	2	9/14/2005
Chloroform	ND	2.0		µg/L	2	9/14/2005
Chloromethane	ND	2.0		µg/L	2	9/14/2005
2-Chlorotoluene	ND	2.0		µg/L	2	9/14/2005
4-Chlorotoluene	ND	2.0		µg/L	2	9/14/2005

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: 30-Sep-05

CLIENT: Giant Refining Co
 Lab Order: 0509109
 Project: Stormwater Separator Effluent Water
 Lab ID: 0509109-01

Client Sample ID: SW Sep Effluent
 Collection Date: 9/9/2005 11:30:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,2-DCE	2.1	2.0		µg/L	2	9/14/2005
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	9/14/2005
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	9/14/2005
Dibromochloromethane	ND	2.0		µg/L	2	9/14/2005
Dibromomethane	ND	4.0		µg/L	2	9/14/2005
1,2-Dichlorobenzene	ND	2.0		µg/L	2	9/14/2005
1,3-Dichlorobenzene	ND	2.0		µg/L	2	9/14/2005
1,4-Dichlorobenzene	ND	2.0		µg/L	2	9/14/2005
Dichlorodifluoromethane	ND	2.0		µg/L	2	9/14/2005
1,1-Dichloroethane	ND	2.0		µg/L	2	9/14/2005
1,1-Dichloroethene	ND	2.0		µg/L	2	9/14/2005
1,2-Dichloropropane	ND	2.0		µg/L	2	9/14/2005
1,3-Dichloropropane	ND	2.0		µg/L	2	9/14/2005
2,2-Dichloropropane	ND	2.0		µg/L	2	9/14/2005
1,1-Dichloropropene	ND	2.0		µg/L	2	9/14/2005
Hexachlorobutadiene	ND	2.0		µg/L	2	9/14/2005
2-Hexanone	ND	20		µg/L	2	9/14/2005
Isopropylbenzene	14	2.0		µg/L	2	9/14/2005
4-Isopropyltoluene	13	2.0		µg/L	2	9/14/2005
4-Methyl-2-pentanone	ND	20		µg/L	2	9/14/2005
Methylene Chloride	ND	6.0		µg/L	2	9/14/2005
n-Butylbenzene	14	2.0		µg/L	2	9/14/2005
n-Propylbenzene	4.5	2.0		µg/L	2	9/14/2005
sec-Butylbenzene	8.9	2.0		µg/L	2	9/14/2005
Styrene	ND	2.0		µg/L	2	9/14/2005
tert-Butylbenzene	ND	2.0		µg/L	2	9/14/2005
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	9/14/2005
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	2	9/14/2005
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	9/14/2005
trans-1,2-DCE	ND	2.0		µg/L	2	9/14/2005
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	9/14/2005
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	9/14/2005
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	9/14/2005
1,1,1-Trichloroethane	ND	2.0		µg/L	2	9/14/2005
1,1,2-Trichloroethane	ND	2.0		µg/L	2	9/14/2005
Trichloroethene (TCE)	ND	2.0		µg/L	2	9/14/2005
Trichlorofluoromethane	ND	2.0		µg/L	2	9/14/2005
1,2,3-Trichloropropane	ND	4.0		µg/L	2	9/14/2005
Vinyl chloride	ND	2.0		µg/L	2	9/14/2005
Xylenes, Total	850	20		µg/L	20	9/13/2005
Surr: 1,2-Dichloroethane-d4	93.4	87.7-108		%REC	2	9/14/2005
Surr: 4-Bromofluorobenzene	104	88.4-125		%REC	2	9/14/2005

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

Hall Environmental Analysis Laboratory

Date: 30-Sep-05

CLIENT: Giant Refining Co
 Lab Order: 0509109
 Project: Stormwater Separator Effluent Water
 Lab ID: 0509109-01

Client Sample ID: SW Sep Effluent
 Collection Date: 9/9/2005 11:30:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surr. Dibromofluoromethane	100	83.1-111		%REC	2	9/14/2005
Surr. Toluene-d8	97.1	85.9-109		%REC	2	9/14/2005

EPA METHOD 8270C: SEMIVOLATILES

Analyst: BL

Acenaphthene	ND	10		µg/L	1	9/15/2005
Acenaphthylene	ND	10		µg/L	1	9/15/2005
Aniline	ND	10		µg/L	1	9/15/2005
Anthracene	ND	10		µg/L	1	9/15/2005
Azobenzene	ND	10		µg/L	1	9/15/2005
Benz(a)anthracene	ND	15		µg/L	1	9/15/2005
Benzo(a)pyrene	ND	10		µg/L	1	9/15/2005
Benzo(b)fluoranthene	ND	10		µg/L	1	9/15/2005
Benzo(g,h,i)perylene	ND	10		µg/L	1	9/15/2005
Benzo(k)fluoranthene	ND	10		µg/L	1	9/15/2005
Benzoic acid	ND	50		µg/L	1	9/15/2005
Benzyl alcohol	ND	20		µg/L	1	9/15/2005
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	9/15/2005
Bis(2-chloroethyl)ether	ND	15		µg/L	1	9/15/2005
Bis(2-chloroisopropyl)ether	ND	15		µg/L	1	9/15/2005
Bis(2-ethylhexyl)phthalate	ND	15		µg/L	1	9/15/2005
4-Bromophenyl phenyl ether	ND	10		µg/L	1	9/15/2005
Butyl benzyl phthalate	ND	15		µg/L	1	9/15/2005
Carbazole	ND	10		µg/L	1	9/15/2005
4-Chloro-3-methylphenol	ND	20		µg/L	1	9/15/2005
4-Chloroaniline	ND	20		µg/L	1	9/15/2005
2-Chloronaphthalene	ND	10		µg/L	1	9/15/2005
2-Chlorophenol	ND	10		µg/L	1	9/15/2005
4-Chlorophenyl phenyl ether	ND	15		µg/L	1	9/15/2005
Chrysene	ND	15		µg/L	1	9/15/2005
Di-n-butyl phthalate	ND	10		µg/L	1	9/15/2005
Di-n-octyl phthalate	ND	15		µg/L	1	9/15/2005
Dibenz(a,h)anthracene	ND	10		µg/L	1	9/15/2005
Dibenzofuran	ND	10		µg/L	1	9/15/2005
1,2-Dichlorobenzene	ND	10		µg/L	1	9/15/2005
1,3-Dichlorobenzene	ND	10		µg/L	1	9/15/2005
1,4-Dichlorobenzene	ND	10		µg/L	1	9/15/2005
3,3'-Dichlorobenzidine	ND	15		µg/L	1	9/15/2005
Diethyl phthalate	ND	10		µg/L	1	9/15/2005
Dimethyl phthalate	ND	10		µg/L	1	9/15/2005
2,4-Dichlorophenol	ND	10		µg/L	1	9/15/2005
2,4-Dimethylphenol	ND	10		µg/L	1	9/15/2005
4,6-Dinitro-2-methylphenol	ND	50		µg/L	1	9/15/2005
2,4-Dinitrophenol	ND	50		µg/L	1	9/15/2005

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
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 E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 30-Sep-05

CLIENT: Giant Refining Co
 Lab Order: 0509109
 Project: Stormwater Separator Effluent Water
 Lab ID: 0509109-01

Client Sample ID: SW Sep Effluent
 Collection Date: 9/9/2005 11:30:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2,4-Dinitrotoluene	ND	10		µg/L	1	9/15/2005
2,6-Dinitrotoluene	ND	10		µg/L	1	9/15/2005
Fluoranthene	ND	10		µg/L	1	9/15/2005
Fluorene	ND	10		µg/L	1	9/15/2005
Hexachlorobenzene	ND	10		µg/L	1	9/15/2005
Hexachlorobutadiene	ND	10		µg/L	1	9/15/2005
Hexachlorocyclopentadiene	ND	10		µg/L	1	9/15/2005
Hexachloroethane	ND	10		µg/L	1	9/15/2005
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	9/15/2005
Isophorone	ND	10		µg/L	1	9/15/2005
2-Methylnaphthalene	ND	10		µg/L	1	9/15/2005
2-Methylphenol	ND	15		µg/L	1	9/15/2005
3+4-Methylphenol	ND	10		µg/L	1	9/15/2005
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	9/15/2005
N-Nitrosodimethylamine	ND	10		µg/L	1	9/15/2005
N-Nitrosodiphenylamine	ND	10		µg/L	1	9/15/2005
Naphthalene	ND	10		µg/L	1	9/15/2005
2-Nitroaniline	ND	50		µg/L	1	9/15/2005
3-Nitroaniline	ND	50		µg/L	1	9/15/2005
4-Nitroaniline	ND	20		µg/L	1	9/15/2005
Nitrobenzene	ND	10		µg/L	1	9/15/2005
2-Nitrophenol	ND	15		µg/L	1	9/15/2005
4-Nitrophenol	ND	50		µg/L	1	9/15/2005
Pentachlorophenol	ND	50		µg/L	1	9/15/2005
Phenanthrene	ND	10		µg/L	1	9/15/2005
Phenol	ND	10		µg/L	1	9/15/2005
Pyrene	ND	15		µg/L	1	9/15/2005
Pyridine	ND	30		µg/L	1	9/15/2005
1,2,4-Trichlorobenzene	ND	10		µg/L	1	9/15/2005
2,4,5-Trichlorophenol	ND	10		µg/L	1	9/15/2005
2,4,6-Trichlorophenol	ND	15		µg/L	1	9/15/2005
Surr: 2,4,6-Tribromophenol	79.6	16.6-150		%REC	1	9/15/2005
Surr: 2-Fluorobiphenyl	67.4	19.6-134		%REC	1	9/15/2005
Surr: 2-Fluorophenol	44.4	9.54-113		%REC	1	9/15/2005
Surr: 4-Terphenyl-d14	57.4	22.7-145		%REC	1	9/15/2005
Surr: Nitrobenzene-d5	63.4	14.6-134		%REC	1	9/15/2005
Surr: Phenol-d6	29.1	10.7-80.3		%REC	1	9/15/2005

EPA 120.1: SPECIFIC CONDUCTANCE

Analyst: MAP

Specific Conductance	5700	0.010	µmhos/cm	1	9/20/2005
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EPA METHOD 7470: MERCURY

Analyst: CMC

Mercury	ND	0.00020	mg/L	1	9/13/2005
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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: 30-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: SW Sep Effluent

Lab Order: 0509109

Collection Date: 9/9/2005 11:30:00 AM

Project: Stormwater Separator Effluent Water

Lab ID: 0509109-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 6010: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	0.020		mg/L	1	9/29/2005 11:05:29 AM
Barium	0.063	0.020		mg/L	1	9/29/2005 11:05:29 AM
Cadmium	ND	0.0020		mg/L	1	9/29/2005 11:05:29 AM
Calcium	58	1.0		mg/L	1	9/29/2005 11:05:29 AM
Chromium	0.0072	0.0060		mg/L	1	9/29/2005 11:05:29 AM
Lead	ND	0.0050		mg/L	1	9/29/2005 11:05:29 AM
Magnesium	14	1.0		mg/L	1	9/29/2005 11:05:29 AM
Potassium	6.2	1.0		mg/L	1	9/29/2005 11:05:29 AM
Selenium	ND	0.050		mg/L	1	9/29/2005 11:05:29 AM
Silver	ND	0.0050		mg/L	1	9/29/2005 11:05:29 AM
Sodium	1200	100		mg/L	100	9/29/2005 12:23:00 PM
EPA METHOD 150.1: PH						Analyst: MAP
pH	7.09	0.010		pH units	1	9/23/2005

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: 30-Sep-05

QC SUMMARY REPORT
Method Blank

CLIENT: Giant Refining Co
Work Order: 0509109
Project: Stormwater Separator Effluent Water

Sample ID	MBLK	Batch ID: R16631	Test Code: E300	Units: mg/L	Analysis Date 9/12/2005	Prep Date					
Client ID:		Run ID: LC_050912A	SeqNo: 399210								
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									
Phosphorus, Orthophosphate (As P)	ND	0.5									
Sulfate	ND	0.5									
Nitrate (As N)+Nitrite (As N)	ND	0.1									

Sample ID	MBLK	Batch ID: R16660	Test Code: E300	Units: mg/L	Analysis Date 9/14/2005	Prep Date					
Client ID:		Run ID: LC_050914A	SeqNo: 400301								
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									
Phosphorus, Orthophosphate (As P)	ND	0.5									
Sulfate	ND	0.5									
Nitrate (As N)+Nitrite (As N)	ND	0.1									

Sample ID	MBLK	Batch ID: R16660	Test Code: E300	Units: mg/L	Analysis Date 9/14/2005	Prep Date					
Client ID:		Run ID: LC_050914A	SeqNo: 400340								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	ND	0.1									
Phosphorus, Orthophosphate (As P)	ND	0.5									
Sulfate	ND	0.5									
Nitrate (As N)+Nitrite (As N)	ND	0.1									

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: 0509109
Project: Stormwater Separator Effluent Water

Sample ID	MBLK	Batch ID: R16676	Test Code: E300	Units: mg/L	Analysis Date 9/15/2005	Prep Date					
Client ID:		Run ID: LC_050915A	SeqNo: 400688								
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									
Phosphorus, Orthophosphate (As P)	ND	0.5									
Sulfate	ND	0.5									
Nitrate (As N)+Nitrite (As N)	ND	0.1									

Sample ID	MB-8767	Batch ID: 8767	Test Code: SW8015	Units: mg/L	Analysis Date 9/21/2005 10:32:22 AM	Prep Date 9/16/2005					
Client ID:		Run ID: FID(17A) 2_050920A	SeqNo: 402340								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1									
Motor Oil Range Organics (MRO)	ND	5									
Surr: DNOP	1.318	0	1	0	132	58	140	0			

Sample ID	RB-II 5ml	Batch ID: R16692	Test Code: SW8015	Units: mg/L	Analysis Date 9/16/2005 11:46:06 PM	Prep Date					
Client ID:		Run ID: PIDFID_050918B	SeqNo: 401082								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.05									
Surr: BFB	20.08	0	20	0	100	79.7	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

QC SUMMARY REPORT
Method Blank

CLIENT: Giant Refining Co
Work Order: 0509109
Project: Stormwater Separator Effluent Water

Prep Date 9/13/2005

Analysis Date 9/15/2005

Units: µg/L

Test Code: SW8270C

Batch ID: 8746

Sample ID MB-8746

SeqNo: 400760

LowLimit HighLimit RPD Ref Val

SPK value SPK Ref Val

Run ID: ELMO_050915A

QOL

Result

%RPD RPDLimit Qual

%REC

PQL

10

ND

Acenaphthene

10

ND

10

ND

Acenaphthylene

10

ND

10

ND

Aniline

10

ND

10

ND

Anthracene

10

ND

10

ND

Azobenzene

15

ND

15

ND

Benz(a)anthracene

10

ND

10

ND

Benzo(a)pyrene

10

ND

10

ND

Benzo(b)fluoranthene

10

ND

10

ND

Benzo(g,h,i)perylene

10

ND

10

ND

Benzo(k)fluoranthene

50

ND

50

ND

Benzoic acid

20

ND

20

ND

Benzyl alcohol

10

ND

10

ND

Bis(2-chloroethoxy)methane

15

ND

15

ND

Bis(2-chloroethyl)ether

15

ND

15

ND

Bis(2-chloroisopropyl)ether

15

ND

15

ND

Bis(2-ethylhexyl)phthalate

10

ND

10

ND

4-Bromophenyl phenyl ether

15

ND

15

ND

Butyl benzyl phthalate

10

ND

10

ND

Carbazole

20

ND

20

ND

4-Chloro-3-methylphenol

20

ND

20

ND

4-Chloroaniline

10

ND

10

ND

2-Chloronaphthalene

10

ND

10

ND

2-Chlorophenol

15

ND

15

ND

4-Chlorophenyl phenyl ether

15

ND

15

ND

Chrysene

10

ND

10

ND

Di-n-butyl phthalate

15

ND

15

ND

Di-n-octyl phthalate

10

ND

10

ND

Dibenz(a,h)anthracene

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spikes 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: 0509109

Project: Stormwater Separator Effluent Water

Dibenzofuran	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
3,3'-Dichlorobenzidine	ND	15
Diethyl phthalate	ND	10
Dimethyl phthalate	ND	10
2,4-Dichlorophenol	ND	10
2,4-Dimethylphenol	ND	10
4,6-Dinitro-2-methylphenol	ND	50
2,4-Dinitrophenol	ND	50
2,4-Dinitrotoluene	ND	10
2,6-Dinitrotoluene	ND	10
Fluoranthene	ND	10
Fluorene	ND	10
Hexachlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Hexachlorocyclopentadiene	ND	10
Hexachloroethane	ND	10
Indeno(1,2,3-cd)pyrene	ND	10
Isophorone	ND	10
2-Methylnaphthalene	ND	10
2-Methylphenol	ND	15
3+4-Methylphenol	ND	10
N-Nitrosod-n-propylamine	ND	10
N-Nitrosodimethylamine	ND	10
N-Nitrosodiphenylamine	ND	10
Naphthalene	ND	10
2-Nitroaniline	ND	50
3-Nitroaniline	ND	50
4-Nitroaniline	ND	20
Nitrobenzene	ND	10
2-Nitrophenol	ND	15

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: 0509109

Project: Stormwater Separator Effluent Water

Sample ID	MB-8742	Batch ID: 8742	Test Code: SW7470	Units: mg/L	Analysis Date 9/13/2005	Prep Date 9/13/2005					
Client ID:			MI-LA254_050913B		SeqNo: 399552						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HightLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND						0.0002				
4-Nitrophenol	ND		50								
Pentachlorophenol	ND		50								
Phenanthrene	ND		10								
Phenol	ND		10								
Pyrene	ND		15								
Pyridine	ND		30								
1,2,4-Trichlorobenzene	ND		10								
2,4,5-Trichlorophenol	ND		10								
2,4,6-Trichlorophenol	ND		15								
Surr: 2,4,6-Tribromophenol	138.8		0	200	0	68.4	16.6	150	0	0	
Surr: 2-Fluorobiphenyl	66.54		0	100	0	66.5	19.6	134	0	0	
Surr: 2-Fluorophenol	124.7		0	200	0	62.4	9.54	113	0	0	
Surr: 4-Terphenyl-d14	77.86		0	100	0	77.9	22.7	145	0	0	
Surr: Nitrobenzene-d5	70.12		0	100	0	70.1	14.6	134	0	0	
Surr: Phenol-d6	86.4		0	200	0	43.2	10.7	80.3	0	0	

10/21

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: 0509109

Project: Stormwater Separator Effluent Water

Sample ID MB-8823 Batch ID: 8823 Test Code: SW6010A Units: mg/L Analysis Date 9/29/2005 9:53:00 AM Prep Date 9/27/2005

Client ID: Run ID: ICP_050929A SeqNo: 405128

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.02									
Barium	ND	0.02									
Cadmium	ND	0.002									
Calcium	ND	1									
Chromium	ND	0.008									
Lead	ND	0.005									
Magnesium	ND	1									
Potassium	ND	1									
Selenium	ND	0.05									
Silver	ND	0.005									
Sodium	ND	1									

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: 30-Sep-05

QC SUMMARY REPORT

Method Blank

CLIENT: Giant Refining Co

Work Order: 0509109

Project: Stormwater Separator Effluent Water

Sample ID 5ml rb Batch ID: R16641 Test Code: SW8260B Units: µg/L Analysis Date 9/13/2005 Prep Date
 Client ID: Run ID: VAL_050913A SeqNo: 399592

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 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

QC SUMMARY REPORT

Method Blank

CLIENT: Giant Refining Co

Work Order: 0509109

Project: Stormwater Separator Effluent 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
 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: 0509109

Project: Stormwater Separator Effluent Water

Compound	Reporting Limit	Concentration	Recovery	Acceptance	Notes
1,1,2-Trichloroethane	ND	ND	10	0	
Trichloroethene (TCE)	ND	ND	10	0	
Trichlorofluoromethane	ND	ND	10	0	
1,2,3-Trichloropropane	0.482	0.482	10	0	
Vinyl chloride	ND	ND	10	0	
Xylenes, Total	ND	ND	10	0	
Surr: 1,2-Dichloroethane-d4	9.492	9.492	10	0	
Surr: 4-Bromofluorobenzene	10.42	10.42	10	0	
Surr: Dibromofluoromethane	10.09	10.09	10	0	
Surr: Toluene-d8	9.582	9.582	10	0	

J

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

Date: 30-Sep-05

QC SUMMARY REPORT

CLIENT: Giant Refining Co

Work Order: 0509109

Project: Stormwater Separator Effluent Water

Laboratory Control Spike - generic

Sample ID	LCS-ST300-05021	Batch ID: R16631	Test Code: E300	Units: mg/L	Analysis Date	Prep Date
Client ID:	Run ID: LC_050912A	PQL	SPK value	SPK Ref Val	SeqNo: 399211	
Analyte	Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Fluoride	0.5202	104	90	110	0	
Chloride	4.815	96.3	90	110	0	
Phosphorus, Orthophosphate (As P)	4.88	97.6	90	110	0	
Sulfate	9.843	98.4	90	110	0	
Nitrate (As N)+Nitrite (As N)	3.424	97.8	90	110	0	

Sample ID	LCS-ST300-05021	Batch ID: R16660	Test Code: E300	Units: mg/L	Analysis Date	Prep Date
Client ID:	Run ID: LC_050914A	PQL	SPK value	SPK Ref Val	SeqNo: 400302	
Analyte	Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Fluoride	0.4679	93.6	90	110	0	
Chloride	4.575	91.5	90	110	0	
Phosphorus, Orthophosphate (As P)	4.701	94.0	90	110	0	
Sulfate	9.279	92.8	90	110	0	
Nitrate (As N)+Nitrite (As N)	3.234	92.4	90	110	0	

Sample ID	LCS ST300-05021	Batch ID: R16660	Test Code: E300	Units: mg/L	Analysis Date	Prep Date
Client ID:	Run ID: LC_050914A	PQL	SPK value	SPK Ref Val	SeqNo: 400341	
Analyte	Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Fluoride	0.523	105	90	110	0	
Phosphorus, Orthophosphate (As P)	4.849	97.0	90	110	0	
Sulfate	9.705	97.1	90	110	0	
Nitrate (As N)+Nitrite (As N)	3.442	98.3	90	110	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: 0509109

Project: Stormwater Separator Effluent Water

Sample ID	LCS-ST300-05021	Batch ID:	R16676	Test Code:	E300	Units:	mg/L	Analysis Date	9/15/2005	Prep Date	
Client ID:		Run ID:	LC_050915A	SeqNo:	400687						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.4769	0.1	0.5	0	95.4	90	110	0			
Chloride	4.684	0.1	5	0	93.7	90	110	0			
Phosphorus, Orthophosphate (As P)	4.535	0.5	5	0	96.7	90	110	0			
Sulfate	9.529	0.5	10	0	95.3	90	110	0			
Nitrate (As N)-Nitrite (As N)	3.351	0.1	3.5	0	95.7	90	110	0			

Sample ID	LCS-8767	Batch ID:	8767	Test Code:	SW8015	Units:	mg/L	Analysis Date	9/21/2005 11:05:28 AM	Prep Date	9/16/2005
Client ID:		Run ID:	FID(17A)_2_050920A	SeqNo:	402341						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.532	1	5	0	131	81.2	149	0			

Sample ID	LCSD-8767	Batch ID:	8767	Test Code:	SW8015	Units:	mg/L	Analysis Date	9/21/2005 11:36:54 AM	Prep Date	9/16/2005
Client ID:		Run ID:	FID(17A)_2_050920A	SeqNo:	402344						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.253	1	5	0	105	81.2	149	6.532	21.7	23	

Sample ID	GRO Ics 2.5ug	Batch ID:	R16692	Test Code:	SW8015	Units:	mg/L	Analysis Date	9/17/2005 2:49:31 AM	Prep Date	
Client ID:		Run ID:	PIDFID_050916B	SeqNo:	401084						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.553	0.05	0.5	0	111	82.6	114	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 Duplicate

CLIENT: Giant Refining Co
Work Order: 0509109
Project: Stormwater Separator Effluent Water

Sample ID: GRO lcsd 2.5ug Batch ID: R16692 Test Code: SW8015 Units: mg/L Analysis Date: 9/17/2005 3:19:50 AM Prep Date:
Client ID: Run ID: PIDFID_050916B SeqNo: 401086

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.05	0.5	0	104	82.6	114	0.553	6.15	8.39	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.53	1	20	0	92.6	81.4	130	0			
Toluene	21.98	1	20	0	110	90.8	128	0			
Chlorobenzene	21.46	1	20	0	107	89.6	134	0			
1,1-Dichloroethane	19.24	1	20	0	96.2	75.1	120	0			
Trichloroethane (TCE)	17.35	1	20	0	86.7	75.8	110	0			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.44	1	20	0	97.2	81.4	130	0			
Toluene	22.94	1	20	0	115	90.8	128	0			
Chlorobenzene	22.42	1	20	0	112	89.6	134	0			
1,1-Dichloroethane	21.96	1	20	0	110	75.1	120	0			
Trichloroethane (TCE)	19.14	1	20	0	95.7	75.8	110	0			

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

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: Giant Refining Co
 Work Order: 0509109
 Project: Stormwater Separator Effluent Water

Sample ID	LCS-8746	Batch ID: 8746	Test Code: SWB270C	Units: µg/L	Analysis Date 9/15/2005	Prep Date 9/13/2005					
Client ID:	ELMO_050915A	Run ID:	SeqNo: 400761								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	73.54	10	100	0	73.5	11	123	0			
4-Chloro-3-methylphenol	149.3	20	200	0	74.7	15.4	119	0			
2-Chlorophenol	145.1	10	200	0	72.6	12.2	122	0			
1,4-Dichlorobenzene	63.92	10	100	0	63.9	16.9	100	0			
2,4-Dinitrotoluene	70.8	10	100	0	70.8	13	138	0			
N-Nitrosodi-n-propylamine	70.74	10	100	0	70.7	9.93	122	0			
4-Nitrophenol	80.04	50	200	0	40.0	-20.5	87.4	0			
Pentachlorophenol	134.3	50	200	0	67.2	-0.355	114	0			
Phenol	89.48	10	200	0	44.7	7.53	73.1	0			
Pyrene	74.06	15	100	0	74.1	12.6	140	0			
1,2,4-Trichlorobenzene	63.66	10	100	0	63.7	17.4	98.7	0			

Sample ID	LCS-8746	Batch ID: 8746	Test Code: SWB270C	Units: µg/L	Analysis Date 9/15/2005	Prep Date 9/13/2005					
Client ID:	ELMO_050915A	Run ID:	SeqNo: 400762								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	75.62	10	100	0	75.6	11	123	73.54	2.79	30.5	
4-Chloro-3-methylphenol	153.9	20	200	0	77.0	15.4	119	149.3	3.05	28.6	
2-Chlorophenol	150.3	10	200	0	75.2	12.2	122	145.1	3.55	107	
1,4-Dichlorobenzene	66.08	10	100	0	66.1	16.9	100	63.92	3.32	62.1	
2,4-Dinitrotoluene	76.42	10	100	0	76.4	13	138	70.8	7.63	14.7	
N-Nitrosodi-n-propylamine	68.18	10	100	0	68.2	9.93	122	70.74	3.69	30.3	
4-Nitrophenol	90.32	50	200	0	45.2	12.5	87.4	80.04	12.1	36.3	
Pentachlorophenol	149.8	50	200	0	74.8	3.55	114	134.3	10.9	49	
Phenol	89.98	10	200	0	45.0	7.53	73.1	89.48	0.557	52.4	
Pyrene	73.82	15	100	0	73.8	12.6	140	74.06	0.325	16.3	
1,2,4-Trichlorobenzene	64	10	100	0	64.0	17.4	98.7	63.66	0.533	36.4	

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: 0509109
 Project: Stormwater Separator Effluent Water

Sample ID LCS-8742 Batch ID: 8742 Test Code: SW7470 Units: mg/L Prep Date 9/13/2005
 Client ID: MI-LA254_050913B Run ID: MI-LA254_050913B SeqNo: 399553
 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
 Mercury 0.004975 0.0002 0.005 0 99.5 75.2 134 0

Sample ID LCS-8742 Batch ID: 8742 Test Code: SW7470 Units: mg/L Prep Date 9/13/2005
 Client ID: MI-LA254_050913B Run ID: MI-LA254_050913B SeqNo: 398577
 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 0.004875 0.102 0

Sample ID LCS-8823 Batch ID: 8823 Test Code: SW6010A Units: mg/L Prep Date 9/29/2005 9:56:02 AM
 Client ID: ICP_050929A Run ID: ICP_050929A SeqNo: 405129
 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	0.5041	0.02	0.5	0	101	80	120	0		
Barium	0.4823	0.02	0.5	0	92.5	80	120	0		
Cadmium	0.4612	0.002	0.5	0	92.2	80	120	0		
Calcium	49.25	1	50	0	98.5	80	120	0		
Chromium	0.4698	0.006	0.5	0	94.0	80	120	0		
Lead	0.4653	0.005	0.5	0	93.1	80	120	0		
Magnesium	47.33	1	50	0	94.7	80	120	0		
Potassium	49.46	1	50	0	98.9	80	120	0		
Selenium	0.4445	0.05	0.5	0	88.9	80	120	0		
Silver	0.4625	0.005	0.5	0	92.5	80	120	0		
Sodium	50.78	1	50	0	102	80	120	0		

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

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

CLIENT: Giant Refining Co
Work Order: 0509109
Project: Stormwater Separator Effluent Water

Sample ID LCSD-8823 Batch ID: 8823 Test Code: SW6010A Units: mg/L Analysis Date 9/29/2005 9:58:26 AM Prep Date 9/27/2005
Client ID: Run ID: ICP_050929A SeqNo: 405130

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.4967	0.02	0.5	0	99.3	80	120	0.5041	1.48	20	
Barium	0.466	0.02	0.5	0	93.2	80	120	0.4623	0.785	20	
Cadmium	0.4626	0.002	0.5	0	92.5	80	120	0.4612	0.303	20	
Calcium	49.02	1	50	0	98.0	80	120	49.25	0.463	20	
Chromium	0.4692	0.006	0.5	0	93.8	80	120	0.4698	0.137	20	
Lead	0.4666	0.005	0.5	0	93.3	80	120	0.4653	0.289	20	
Magnesium	47.69	1	50	0	95.4	80	120	47.33	0.776	20	
Potassium	50.23	1	50	0	100	80	120	49.46	1.55	20	
Selenium	0.4472	0.05	0.5	0	89.4	80	120	0.4445	0.593	20	
Silver	0.4677	0.005	0.5	0	93.5	80	120	0.4625	1.11	20	
Sodium	50.07	1	50	0	100	80	120	50.78	1.40	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:

9/12/2005

Work Order Number 0509109

Received by AT

Checklist completed by

Alan D. ...
Signature

9/12/05
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? 1° 4° C ± 2 Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

OCT 6 2005

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

Name of Company Giant Industries, Inc.	Contact James Romero
Address Rt. 3, Box 7	Telephone No. 505-722-0227
Facility Name Giant Industries, Inc.	Facility Type Refinery

Surface Owner Giant Industries, Inc.	Mineral Owner Giant Industries, Inc.	Lease No.
---------------------------------------------	---------------------------------------------	-----------

LOCATION OF RELEASE

Unit Letter	Section 33	Township 15N	Range 15W	Feet from the	North/South Line	Feet from the	East/West Line	County McKinley
-------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	--------------------

Latitude 30° 29' 30" Longitude 108° 24' 40"

NATURE OF RELEASE

Type of Release Release into Secondary Containment	Volume of Release 210 Gallons	Volume Recovered 210 Gallons
Source of Release API Separator Secondary containment	Date and Hour of Occurrence Between 8/5/05n - 9/15/05	Date and Hour of Discover 9/15/05 @ 0930
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Wayne Price, OCD and Hope Monzeglio, NMED	
By Whom? James Romero	Date and Hour 10/03/05 @ 4:00 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully. **No watercourse was Impacted**

Describe Cause of Problem and Remedial Action Taken. **During monthly inspections of below grade tanks/sumps/pits/and ponds, Giant personnel noted water within the secondary containment of the API separator. Samples were gathered and taken in for laboratory testing which indicated exceedence of NMWQS (see attached lab results). Giant has no reason to believe the spill left the secondary containment.**

Describe Area Affected and Cleanup Action Taken. **The Secondary containment was vacuumed and all water removed and Giant has initiated weekly inspections and will pump the secondary as necessary. Furthermore, Giant will update OCD and NMED on a weekly basis (via our OCD weekly Reporting) on the current status until the problem is corrected. Also, Giant has initiated an Request for Expenditures (RFE) to repair the primary.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: JAMES ROMERO	Approved by District Supervisor:	
Title: Environmental Engineer	Approval Date:	Expiration Date:
E-mail Address: Jromero@Giant.com	Conditions of Approval:	Attached <input checked="" type="checkbox"/>
Date: Oct 3, 2005 Phone: 505-722-0227		

* Attach Additional Sheets If Necessary

COVER LETTER

September 21, 2005

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

RE: Oil/Water Sep. Secondary Containment Wat

Order No.: 0509180

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 1 sample on 9/19/2005 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: 21-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: API Sep. 2nd Containment

Lab Order: 0509180

Collection Date: 9/15/2005 11:50:00 AM

Project: Oil/Water Sep. Secondary Containment Water

Lab ID: 0509180-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HLM
Benzene	150	10		µg/L	10	9/20/2005
Toluene	130	10		µg/L	10	9/20/2005
Ethylbenzene	ND	10		µg/L	10	9/20/2005
Methyl tert-butyl ether (MTBE)	1000	10		µg/L	10	9/20/2005
Xylenes, Total	58	10		µg/L	10	9/20/2005
Surr: 4-Bromofluorobenzene	105	86.1-121		%REC	10	9/20/2005

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: 21-Sep-05

QC SUMMARY REPORT

Method Blank

CLIENT: Giant Refining Co
 Work Order: 0509180
 Project: Oil/Water Sep. Secondary Containment Water

Sample ID	5ml rb	Batch ID: R16716	Test Code: SW8260B	Units: µg/L	Analysis Date	9/20/2005	Prep Date				
Client ID:	Run ID: VAL_050920A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	ND	1									
Toluene	ND	1									
Ethylbenzene	ND	1									
Methyl tert-butyl ether (MTBE)	ND	1									
Xylenes, Total	0.282	1									
Surr: 4-Bromofluorobenzene	11.21	0	10	0	112	86.1	121	0			J

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: 21-Sep-05

CLIENT: Giant Refining Co
 Work Order: 0509180
 Project: Oil/Water Sep. Secondary Containment Water

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	100ng Ics	Batch ID: R16716	Test Code: SW8260B	Units: µg/L	Analysis Date	9/20/2005	Prep Date				
Client ID:		Run ID: VAL_050920A			SeqNo: 401905						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.27	1	20	0	96.4	80	130	0			
Toluene	23.3	1	20	0	117	77	121	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

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

9/19/2005

Work Order Number 0509180

Received by GLS

Checklist completed by

Signature *[Handwritten Signature]*

Date 9-19-05

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

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Chavez, Carl J, EMNRD

From: James Romero [jromero@giant.com]
Sent: Thursday, October 06, 2005 7:27 AM
To: Monzeglio, Hope, NMENV; James Romero; Price, Wayne, EMNRD; Foust, Denny, EMNRD; Chavez, Carl J, EMNRD
Cc: Chavez, Carl J, EMNRD
Subject: RE: Weekly Reporting (Week Four)

From: James Romero [mailto:jromero@giant.com]
Sent: Wed 10/5/2005 1:23 PM
To: James Romero; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD; Chavez, Carl J, EMNRD
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Chavez, Carl J, EMNRD
Subject: RE: Weekly Reporting (Week Four)

The Following is a summary of week four

- 1) Oil from our ponds has been removed with Riley completing work on Thursday Sept 29th (see pics from last weeks report titled "update to week three")
- 2) Follow up on OCD/NMED 9/8/05 site visit - Lab results from the old API Separator have been received (see attached lab results). As of 9/9/05, all the oil has been removed from the old API separator and it continues to be oil free. Moreover, due to the fact the above grab sample exceeded NMWQS for some parameters, another grab sample of the effluent will be taken this week and sent for lab analysis which will be forwarded to OCD and NMED. It should be noted the grab sample will be taken from the outlet of the old API separator where it enters Aeration Lagoon #1.
- 3) The Railroad Rack Lagoon has been fully remediated and will be backfilled 10/10/05. A full report with lab analysis and pics will be forward to NMED and OCD via email with regular mail to Wayne and Hope this week.
- 4) A new C 141 spill report was filed this week notifying OCD/NMED of a leak into the secondary of the new API separator. All the liquids from the secondary have been pumped and measures have been taken ensuring the secondary continues to stay dry (i.e., purge pumps). Moreover, work will begin on Monday 10/10/05 to repair the primary with work beginning on the east bay followed by the west bay. This item as been added to the weekly reporting to OCD and NMED and will continue until the problem has been corrected.
- 5) Lab results from AL2 to EP1 (Aug 12, Aug 23, Aug 30, Sept 9, Sept 15, and Sept 21) have been received and will be forward to OCD and NMED this week.
- 6) Our weekly sample from AL2 to EP1 will be taken on Thursday 10/6/05
- 7) Annual ground water sampling is continuing this week on SMW's
- 8) Fuhs was onsite to clean the lower stormwater basin (outfall #1) and also enlarged the basin



COVER LETTER

September 30, 2005

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

RE: Stormwater Separator Effluent Water

Order No.: 0509109

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 1 sample on 9/12/2005 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 30-Sep-05

CLIENT: Giant Refining Co
 Lab Order: 0509109
 Project: Stormwater Separator Effluent Water
 Lab ID: 0509109-01

Client Sample ID: SW Sep Effluent
 Collection Date: 9/9/2005 11:30:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MAP
Fluoride	2.1	0.50		mg/L	5	9/13/2005
Chloride	90	0.50		mg/L	5	9/13/2005
Phosphorus, Orthophosphate (As P)	2.6	2.5	H	mg/L	5	9/13/2005
Sulfate	2300	25		mg/L	50	9/16/2005
Nitrate (As N)+Nitrite (As N)	5.0	0.50		mg/L	5	9/15/2005
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	1.9	1.0		mg/L	1	9/21/2005 12:09:57 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	9/21/2005 12:09:57 PM
Surr: DNOP	126	58-140		%REC	1	9/21/2005 12:09:57 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	3.0	0.25		mg/L	5	9/17/2005 2:18:49 AM
Surr: BFB	113	79.7-118		%REC	5	9/17/2005 2:18:49 AM
EPA METHOD 8260B: VOLATILES						Analyst: HLM
Benzene	82	2.0		µg/L	2	9/14/2005
Toluene	290	20		µg/L	20	9/13/2005
Ethylbenzene	35	2.0		µg/L	2	9/14/2005
Methyl tert-butyl ether (MTBE)	3.8	2.0		µg/L	2	9/14/2005
1,2,4-Trimethylbenzene	110	2.0		µg/L	2	9/14/2005
1,3,5-Trimethylbenzene	91	2.0		µg/L	2	9/14/2005
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	9/14/2005
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	9/14/2005
Naphthalene	42	4.0		µg/L	2	9/14/2005
1-Methylnaphthalene	110	8.0		µg/L	2	9/14/2005
2-Methylnaphthalene	99	8.0		µg/L	2	9/14/2005
Acetone	ND	20		µg/L	2	9/14/2005
Bromobenzene	ND	2.0		µg/L	2	9/14/2005
Bromochloromethane	ND	2.0		µg/L	2	9/14/2005
Bromodichloromethane	ND	2.0		µg/L	2	9/14/2005
Bromoform	ND	2.0		µg/L	2	9/14/2005
Bromomethane	ND	4.0		µg/L	2	9/14/2005
2-Butanone	ND	20		µg/L	2	9/14/2005
Carbon disulfide	ND	20		µg/L	2	9/14/2005
Carbon Tetrachloride	ND	2.0		µg/L	2	9/14/2005
Chlorobenzene	ND	2.0		µg/L	2	9/14/2005
Chloroethane	ND	4.0		µg/L	2	9/14/2005
Chloroform	ND	2.0		µg/L	2	9/14/2005
Chloromethane	ND	2.0		µg/L	2	9/14/2005
2-Chlorotoluene	ND	2.0		µg/L	2	9/14/2005
4-Chlorotoluene	ND	2.0		µg/L	2	9/14/2005

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: 30-Sep-05

CLIENT: Giant Refining Co
 Lab Order: 0509109
 Project: Stormwater Separator Effluent Water
 Lab ID: 0509109-01

Client Sample ID: SW Sep Effluent
 Collection Date: 9/9/2005 11:30:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,2-DCE	2.1	2.0		µg/L	2	9/14/2005
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	9/14/2005
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	9/14/2005
Dibromochloromethane	ND	2.0		µg/L	2	9/14/2005
Dibromomethane	ND	4.0		µg/L	2	9/14/2005
1,2-Dichlorobenzene	ND	2.0		µg/L	2	9/14/2005
1,3-Dichlorobenzene	ND	2.0		µg/L	2	9/14/2005
1,4-Dichlorobenzene	ND	2.0		µg/L	2	9/14/2005
Dichlorodifluoromethane	ND	2.0		µg/L	2	9/14/2005
1,1-Dichloroethane	ND	2.0		µg/L	2	9/14/2005
1,1-Dichloroethene	ND	2.0		µg/L	2	9/14/2005
1,2-Dichloropropane	ND	2.0		µg/L	2	9/14/2005
1,3-Dichloropropane	ND	2.0		µg/L	2	9/14/2005
2,2-Dichloropropane	ND	2.0		µg/L	2	9/14/2005
1,1-Dichloropropene	ND	2.0		µg/L	2	9/14/2005
Hexachlorobutadiene	ND	2.0		µg/L	2	9/14/2005
2-Hexanone	ND	20		µg/L	2	9/14/2005
Isopropylbenzene	14	2.0		µg/L	2	9/14/2005
4-Isopropyltoluene	13	2.0		µg/L	2	9/14/2005
4-Methyl-2-pentanone	ND	20		µg/L	2	9/14/2005
Methylene Chloride	ND	6.0		µg/L	2	9/14/2005
n-Butylbenzene	14	2.0		µg/L	2	9/14/2005
n-Propylbenzene	4.5	2.0		µg/L	2	9/14/2005
sec-Butylbenzene	8.9	2.0		µg/L	2	9/14/2005
Styrene	ND	2.0		µg/L	2	9/14/2005
tert-Butylbenzene	ND	2.0		µg/L	2	9/14/2005
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	9/14/2005
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	2	9/14/2005
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	9/14/2005
trans-1,2-DCE	ND	2.0		µg/L	2	9/14/2005
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	9/14/2005
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	9/14/2005
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	9/14/2005
1,1,1-Trichloroethane	ND	2.0		µg/L	2	9/14/2005
1,1,2-Trichloroethane	ND	2.0		µg/L	2	9/14/2005
Trichloroethene (TCE)	ND	2.0		µg/L	2	9/14/2005
Trichlorofluoromethane	ND	2.0		µg/L	2	9/14/2005
1,2,3-Trichloropropane	ND	4.0		µg/L	2	9/14/2005
Vinyl chloride	ND	2.0		µg/L	2	9/14/2005
Xylenes, Total	850	20		µg/L	20	9/13/2005
Surr: 1,2-Dichloroethane-d4	93.4	87.7-108		%REC	2	9/14/2005
Surr: 4-Bromofluorobenzene	104	88.4-125		%REC	2	9/14/2005

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: 30-Sep-05

CLIENT: Giant Refining Co
 Lab Order: 0509109
 Project: Stormwater Separator Effluent Water
 Lab ID: 0509109-01

Client Sample ID: SW Sep Effluent
 Collection Date: 9/9/2005 11:30:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surr: Dibromofluoromethane	100	83.1-111		%REC	2	9/14/2005
Surr: Toluene-d8	97.1	85.9-109		%REC	2	9/14/2005

EPA METHOD 8270C: SEMIVOLATILES

Analyst: BL

Acenaphthene	ND	10		µg/L	1	9/15/2005
Acenaphthylene	ND	10		µg/L	1	9/15/2005
Anilline	ND	10		µg/L	1	9/15/2005
Anthracene	ND	10		µg/L	1	9/15/2005
Azobenzene	ND	10		µg/L	1	9/15/2005
Benz(a)anthracene	ND	15		µg/L	1	9/15/2005
Benzo(a)pyrene	ND	10		µg/L	1	9/15/2005
Benzo(b)fluoranthene	ND	10		µg/L	1	9/15/2005
Benzo(g,h,i)perylene	ND	10		µg/L	1	9/15/2005
Benzo(k)fluoranthene	ND	10		µg/L	1	9/15/2005
Benzoic acid	ND	50		µg/L	1	9/15/2005
Benzyl alcohol	ND	20		µg/L	1	9/15/2005
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	9/15/2005
Bis(2-chloroethyl)ether	ND	15		µg/L	1	9/15/2005
Bis(2-chloroisopropyl)ether	ND	15		µg/L	1	9/15/2005
Bis(2-ethylhexyl)phthalate	ND	15		µg/L	1	9/15/2005
4-Bromophenyl phenyl ether	ND	10		µg/L	1	9/15/2005
Butyl benzyl phthalate	ND	15		µg/L	1	9/15/2005
Carbazole	ND	10		µg/L	1	9/15/2005
4-Chloro-3-methylphenol	ND	20		µg/L	1	9/15/2005
4-Chloroaniline	ND	20		µg/L	1	9/15/2005
2-Chloronaphthalene	ND	10		µg/L	1	9/15/2005
2-Chlorophenol	ND	10		µg/L	1	9/15/2005
4-Chlorophenyl phenyl ether	ND	15		µg/L	1	9/15/2005
Chrysene	ND	15		µg/L	1	9/15/2005
Di-n-butyl phthalate	ND	10		µg/L	1	9/15/2005
Di-n-octyl phthalate	ND	15		µg/L	1	9/15/2005
Dibenz(a,h)anthracene	ND	10		µg/L	1	9/15/2005
Dibenzofuran	ND	10		µg/L	1	9/15/2005
1,2-Dichlorobenzene	ND	10		µg/L	1	9/15/2005
1,3-Dichlorobenzene	ND	10		µg/L	1	9/15/2005
1,4-Dichlorobenzene	ND	10		µg/L	1	9/15/2005
3,3'-Dichlorobenzidine	ND	15		µg/L	1	9/15/2005
Diethyl phthalate	ND	10		µg/L	1	9/15/2005
Dimethyl phthalate	ND	10		µg/L	1	9/15/2005
2,4-Dichlorophenol	ND	10		µg/L	1	9/15/2005
2,4-Dimethylphenol	ND	10		µg/L	1	9/15/2005
4,6-Dinitro-2-methylphenol	ND	50		µg/L	1	9/15/2005
2,4-Dinitrophenol	ND	50		µg/L	1	9/15/2005

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: 30-Sep-05

CLIENT: Giant Refining Co
 Lab Order: 0509109
 Project: Stormwater Separator Effluent Water
 Lab ID: 0509109-01

Client Sample ID: SW Sep Effluent
 Collection Date: 9/9/2005 11:30:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2,4-Dinitrotoluene	ND	10		µg/L	1	9/15/2005
2,6-Dinitrotoluene	ND	10		µg/L	1	9/15/2005
Fluoranthene	ND	10		µg/L	1	9/15/2005
Fluorene	ND	10		µg/L	1	9/15/2005
Hexachlorobenzene	ND	10		µg/L	1	9/15/2005
Hexachlorobutadiene	ND	10		µg/L	1	9/15/2005
Hexachlorocyclopentadiene	ND	10		µg/L	1	9/15/2005
Hexachloroethane	ND	10		µg/L	1	9/15/2005
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	9/15/2005
Isophorone	ND	10		µg/L	1	9/15/2005
2-Methylnaphthalene	ND	10		µg/L	1	9/15/2005
2-Methylphenol	ND	15		µg/L	1	9/15/2005
3+4-Methylphenol	ND	10		µg/L	1	9/15/2005
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	9/15/2005
N-Nitrosodimethylamine	ND	10		µg/L	1	9/15/2005
N-Nitrosodiphenylamine	ND	10		µg/L	1	9/15/2005
Naphthalene	ND	10		µg/L	1	9/15/2005
2-Nitroaniline	ND	50		µg/L	1	9/15/2005
3-Nitroaniline	ND	50		µg/L	1	9/15/2005
4-Nitroaniline	ND	20		µg/L	1	9/15/2005
Nitrobenzene	ND	10		µg/L	1	9/15/2005
2-Nitrophenol	ND	15		µg/L	1	9/15/2005
4-Nitrophenol	ND	50		µg/L	1	9/15/2005
Pentachlorophenol	ND	50		µg/L	1	9/15/2005
Phenanthrene	ND	10		µg/L	1	9/15/2005
Phenol	ND	10		µg/L	1	9/15/2005
Pyrene	ND	15		µg/L	1	9/15/2005
Pyridine	ND	30		µg/L	1	9/15/2005
1,2,4-Trichlorobenzene	ND	10		µg/L	1	9/15/2005
2,4,5-Trichlorophenol	ND	10		µg/L	1	9/15/2005
2,4,6-Trichlorophenol	ND	15		µg/L	1	9/15/2005
Surr: 2,4,6-Tribromophenol	79.6	16.6-150		%REC	1	9/15/2005
Surr: 2-Fluorobiphenyl	67.4	19.6-134		%REC	1	9/15/2005
Surr: 2-Fluorophenol	44.4	9.54-113		%REC	1	9/15/2005
Surr: 4-Terphenyl-d14	57.4	22.7-145		%REC	1	9/15/2005
Surr: Nitrobenzene-d5	63.4	14.6-134		%REC	1	9/15/2005
Surr: Phenol-d6	29.1	10.7-80.3		%REC	1	9/15/2005

EPA 120.1: SPECIFIC CONDUCTANCE

Specific Conductance 5700 0.010 µmhos/cm 1 9/20/2005 Analyst: MAP

EPA METHOD 7470: MERCURY

Mercury ND 0.00020 mg/L 1 9/13/2005 Analyst: CMC

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: 30-Sep-05

CLIENT: Giant Refining Co
 Lab Order: 0509109
 Project: Stormwater Separator Effluent Water
 Lab ID: 0509109-01

Client Sample ID: SW Sep Effluent
 Collection Date: 9/9/2005 11:30:00 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	9/29/2005 11:05:29 AM
Barium	0.063	0.020		mg/L	1	9/29/2005 11:05:29 AM
Cadmium	ND	0.0020		mg/L	1	9/29/2005 11:05:29 AM
Calcium	58	1.0		mg/L	1	9/29/2005 11:05:29 AM
Chromium	0.0072	0.0060		mg/L	1	9/29/2005 11:05:29 AM
Lead	ND	0.0050		mg/L	1	9/29/2005 11:05:29 AM
Magnesium	14	1.0		mg/L	1	9/29/2005 11:05:29 AM
Potassium	6.2	1.0		mg/L	1	9/29/2005 11:05:29 AM
Selenium	ND	0.050		mg/L	1	9/29/2005 11:05:29 AM
Silver	ND	0.0050		mg/L	1	9/29/2005 11:05:29 AM
Sodium	1200	100		mg/L	100	9/29/2005 12:23:00 PM
EPA METHOD 150.1: PH						Analyst: MAP
pH	7.09	0.010		pH units	1	9/23/2005

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: 30-Sep-05

QC SUMMARY REPORT
Method Blank

CLIENT: Giant Refining Co
Work Order: 0509109
Project: Stormwater Separator Effluent Water

Sample ID	MBLK	Batch ID: R16631	Test Code: E300	Units: mg/L	Analysis Date 9/12/2005	Prep Date					
Client ID:		Run ID: LC_050912A	SeqNo: 399210								
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									
Phosphorus, Orthophosphate (As P)	ND	0.5									
Sulfate	ND	0.5									
Nitrate (As N)+Nitrite (As N)	ND	0.1									

Sample ID	MBLK	Batch ID: R16660	Test Code: E300	Units: mg/L	Analysis Date 9/14/2005	Prep Date					
Client ID:		Run ID: LC_050914A	SeqNo: 400301								
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									
Phosphorus, Orthophosphate (As P)	ND	0.5									
Sulfate	ND	0.5									
Nitrate (As N)+Nitrite (As N)	ND	0.1									

Sample ID	MBLK	Batch ID: R16660	Test Code: E300	Units: mg/L	Analysis Date 9/14/2005	Prep Date					
Client ID:		Run ID: LC_050914A	SeqNo: 400340								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	ND	0.1									
Phosphorus, Orthophosphate (As P)	ND	0.5									
Sulfate	ND	0.5									
Nitrate (As N)+Nitrite (As N)	ND	0.1									

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: 0509109

Project: Stormwater Separator Effluent Water

Sample ID	MBLK	Batch ID: R16676	Test Code: E300	Units: mg/L	Analysis Date 9/15/2005	Prep Date					
Client ID:	Run ID: LC_050915A	SeqNo: 400666									
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									
Phosphorus, Orthophosphate (As P)	ND	0.5									
Sulfate	ND	0.5									
Nitrate (As N)+Nitrite (As N)	ND	0.1									

Sample ID	MB-8767	Batch ID: 8767	Test Code: SW8015	Units: mg/L	Analysis Date 9/21/2005 10:32:22 AM	Prep Date 9/16/2005					
Client ID:	Run ID: FID(17A)_2_050920A	SeqNo: 402340									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1									
Motor Oil Range Organics (MRO)	ND	5									
Surr: DNOP	1.318	0	1	0	132	58	140	0			

Sample ID	RB-II 5ml	Batch ID: R16692	Test Code: SW8015	Units: mg/L	Analysis Date 9/16/2005 11:46:06 PM	Prep Date					
Client ID:	Run ID: PIDFID_050916B	SeqNo: 401082									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.05									
Surr: BFB	20.06	0	20	0	100	79.7	118	0			

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

QC SUMMARY REPORT

Method Blank

CLIENT: Giant Refining Co
 Work Order: 0509109
 Project: Stormwater Separator Effluent Water

Sample ID MB-8746 Batch ID: 8746 Test Code: SW8270C Units: µg/L Analysis Date 9/15/2005 Prep Date 9/13/2005
 Client ID: ELMO_050915A Run ID: PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	10									
Acenaphthylene	ND	10									
Aniline	ND	10									
Anthracene	ND	10									
Azobenzene	ND	10									
Benz(a)anthracene	ND	15									
Benz(a)pyrene	ND	10									
Benzo(b)fluoranthene	ND	10									
Benzo(g,h,i)perylene	ND	10									
Benzo(k)fluoranthene	ND	10									
Benzoic acid	ND	50									
Benzyl alcohol	ND	20									
Bis(2-chloroethoxy)methane	ND	10									
Bis(2-chloroethyl)ether	ND	15									
Bis(2-chloroisopropyl)ether	ND	15									
Bis(2-ethylhexyl)phthalate	ND	15									
4-Bromophenyl phenyl ether	ND	10									
Butyl benzyl phthalate	ND	15									
Carbazole	ND	10									
4-Chloro-3-methylphenol	ND	20									
4-Chloroaniline	ND	20									
2-Chloronaphthalene	ND	10									
2-Chlorophenol	ND	10									
4-Chlorophenyl phenyl ether	ND	15									
Chrysene	ND	15									
Di-n-butyl phthalate	ND	10									
Di-n-octyl phthalate	ND	15									
Dibenz(a,h)anthracene	ND	10									

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

QC SUMMARY REPORT

Method Blank

CLIENT: Giant Refining Co

Work Order: 0509109

Project: Stormwater Separator Effluent Water

Dibenzofuran	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
3,3'-Dichlorobenzidine	ND	15
Diethyl phthalate	ND	10
Dimethyl phthalate	ND	10
2,4-Dichlorophenol	ND	10
2,4-Dimethylphenol	ND	10
4,6-Dinitro-2-methylphenol	ND	50
2,4-Dinitrophenol	ND	50
2,4-Dinitrotoluene	ND	10
2,6-Dinitrotoluene	ND	10
Fluoranthene	ND	10
Fluorene	ND	10
Hexachlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Hexachlorocyclopentadiene	ND	10
Hexachloroethane	ND	10
Indeno(1,2,3-cd)pyrene	ND	10
Isophorone	ND	10
2-Methylnaphthalene	ND	10
2-Methylphenol	ND	15
3+4-Methylphenol	ND	10
N-Nitrosodi-n-propylamine	ND	10
N-Nitrosodimethylamine	ND	10
N-Nitrosodiphenylamine	ND	10
Naphthalene	ND	10
2-Nitroaniline	ND	50
3-Nitroaniline	ND	50
4-Nitroaniline	ND	20
Nitrobenzene	ND	10
2-Nitrophenol	ND	15

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: 0509109

Project: Stormwater Separator Effluent Water

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	ND	50									
Pentachlorophenol	ND	50									
Phenanthrene	ND	10									
Phenol	ND	10									
Pyrene	ND	15									
Pyridine	ND	30									
1,2,4-Trichlorobenzene	ND	10									
2,4,5-Trichlorophenol	ND	10									
2,4,6-Trichlorophenol	ND	15									
Surr: 2,4,6-Tribromophenol	138.8	0	200	0	69.4	16.6	150	0			
Surr: 2-Fluorobiphenyl	66.54	0	100	0	66.5	19.6	134	0			
Surr: 2-Fluorophenol	124.7	0	200	0	62.4	9.54	113	0			
Surr: 4-Terphenyl-d14	77.86	0	100	0	77.9	22.7	145	0			
Surr: Nitrobenzene-d5	70.12	0	100	0	70.1	14.6	134	0			
Surr: Phenol-d6	86.4	0	200	0	43.2	10.7	60.3	0			

Sample ID MB-8742 Batch ID: 8742 Test Code: SW7470 Units: mg/L Analysis Date 9/13/2005 Prep Date 9/13/2005
 Client ID: Run ID: MI-LA254_050913B SeqNo: 399552
 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
 Mercury ND 0.0002

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

QC SUMMARY REPORT

Method Blank

CLIENT: Giant Refining Co

Work Order: 0509109

Project: Stormwater Separator Effluent Water

Sample ID MB-8823 Batch ID: 8823 Test Code: SW5010A Units: mg/L Analysis Date 9/29/2005 9:53:00 AM Prep Date 9/27/2005

Client ID: Run ID: ICP_050929A SeqNo: 405128

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.02									
Barium	ND	0.02									
Cadmium	ND	0.002									
Calcium	ND	1									
Chromium	ND	0.006									
Lead	ND	0.005									
Magnesium	ND	1									
Potassium	ND	1									
Selenium	ND	0.05									
Silver	ND	0.005									
Sodium	ND	1									

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: 30-Sep-05

QC SUMMARY REPORT
Method Blank

CLIENT: Giant Refining Co
Work Order: 0509109
Project: Stormwater Separator Effluent Water

Sample ID 5ml rb Batch ID: R16641 Test Code: SW8260B Units: µg/L Analysis Date 9/13/2005 Prep Date
Client ID: VAL_050913A Run ID: VAL_050913A SeqNo: 399592

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: 0509109

Project: Stormwater Separator Effluent Water

dis-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 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

QC SUMMARY REPORT

Method Blank

CLIENT: Giant Refining Co

Work Order: 0509109

Project: Stormwater Separator Effluent Water

Compound	Reporting Limit	Concentration	Recovery	Acceptance	Count	Qualifier
1,1,2-Trichloroethane	ND				1	
Trichloroethene (TCE)	ND				1	
Trichlorofluoromethane	ND				1	
1,2,3-Trichloropropane	0.482				2	J
Vinyl chloride	ND				1	
Xylenes, Total	ND				1	
Surr: 1,2-Dichloroethane-d4	9.492	94.9	87.7	0	10	
Surr: 4-Bromofluorobenzene	10.42	104	88.4	0	10	
Surr: Dibromofluoromethane	10.09	101	83.1	0	10	
Surr: Toluene-d8	9.582	95.8	85.9	0	10	

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: 30-Sep-05

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: Giant Refining Co
 Work Order: 0509109
 Project: Stormwater Separator Effluent Water

Sample ID	LCS-ST300-05021	Batch ID:	R16631	Test Code:	E300	Units:	mg/L	Analysis Date	9/12/2005	SeqNo:	399211	Prep Date
Client ID:	LC_050912A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Analyte	Fluoride	0.1	0.5	0	104	90	110	0				
	Chloride	0.1	5	0	96.3	90	110	0				
	Phosphorus, Orthophosphate (As P)	0.5	5	0	97.6	90	110	0				
	Sulfate	0.5	10	0	98.4	90	110	0				
	Nitrate (As N)+Nitrite (As N)	0.1	3.5	0	97.8	90	110	0				

Sample ID	LCS-ST300-05021	Batch ID:	R16660	Test Code:	E300	Units:	mg/L	Analysis Date	9/14/2005	SeqNo:	400302	Prep Date
Client ID:	LC_050914A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Analyte	Fluoride	0.1	0.5	0	93.6	90	110	0				
	Chloride	0.1	5	0	91.5	90	110	0				
	Phosphorus, Orthophosphate (As P)	0.5	5	0	94.0	90	110	0				
	Sulfate	0.5	10	0	92.8	90	110	0				
	Nitrate (As N)+Nitrite (As N)	0.1	3.5	0	92.4	90	110	0				

Sample ID	LCS ST300-05021	Batch ID:	R16660	Test Code:	E300	Units:	mg/L	Analysis Date	9/14/2005	SeqNo:	400341	Prep Date
Client ID:	LC_050914A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Analyte	Fluoride	0.1	0.5	0	105	90	110	0				
	Phosphorus, Orthophosphate (As P)	0.5	5	0	97.0	90	110	0				
	Sulfate	0.5	10	0	97.1	90	110	0				
	Nitrate (As N)+Nitrite (As N)	0.1	3.5	0	98.3	90	110	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: 0509109
Project: Stormwater Separator Effluent Water

Sample ID	LCS-ST300-05021	Batch ID:	R16676	Test Code:	E300	Units:	mg/L	Analysis Date	9/15/2005	Prep Date	
Client ID:		Run ID:	LC_050915A	SeqNo:	400587						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.4769	0.1	0.5	0	95.4	90	110	0			
Chloride	4.684	0.1	5	0	93.7	90	110	0			
Phosphorus, Orthophosphate (As P)	4.835	0.5	5	0	96.7	90	110	0			
Sulfate	9.529	0.5	10	0	95.3	90	110	0			
Nitrate (As N)+Nitrite (As N)	3.351	0.1	3.5	0	95.7	90	110	0			

Sample ID	LCS-8767	Batch ID:	8767	Test Code:	SW8015	Units:	mg/L	Analysis Date	9/21/2005 11:05:28 AM	Prep Date	9/16/2005
Client ID:		Run ID:	FID(17A)2_050920A	SeqNo:	402341						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.532	1	5	0	131	81.2	149	0			

Sample ID	LCSD-8767	Batch ID:	8767	Test Code:	SW8015	Units:	mg/L	Analysis Date	9/21/2005 11:36:54 AM	Prep Date	9/16/2005
Client ID:		Run ID:	FID(17A)2_050920A	SeqNo:	402344						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.253	1	5	0	105	81.2	149	6.532	21.7	23	

Sample ID	GRO Ics 2.5ug	Batch ID:	R16692	Test Code:	SW8015	Units:	mg/L	Analysis Date	9/17/2005 2:49:31 AM	Prep Date	
Client ID:		Run ID:	PIDFID_050916B	SeqNo:	401084						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.553	0.05	0.5	0	111	82.6	114	0			

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

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

CLIENT: Giant Refining Co
Work Order: 0509109
Project: Stormwater Separator Effluent Water

Sample ID GRO lcsd 2.5ug Batch ID: R16692 Test Code: SW8015 Units: mg/L Analysis Date 9/17/2005 3:19:50 AM Prep Date
Client ID: PIDPID_050916B SeqNo: 401086

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.05	0.5	0	104	82.6	114	0.553	6.15	8.39	

Sample ID 100ng lcs Batch ID: R16641 Test Code: SW8260B Units: µg/L Analysis Date 9/13/2005 Prep Date
Client ID: VAL_050913A SeqNo: 399600

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.53	1	20	0	92.6	81.4	130	0			
Toluene	21.99	1	20	0	110	90.8	128	0			
Chlorobenzene	21.46	1	20	0	107	89.6	134	0			
1,1-Dichloroethene	19.24	1	20	0	96.2	75.1	120	0			
Trichloroethene (TCE)	17.35	1	20	0	86.7	75.8	110	0			

Sample ID 100ng lcs Batch ID: R16656 Test Code: SW8260B Units: µg/L Analysis Date 9/14/2005 Prep Date
Client ID: VAL_050914B SeqNo: 400222

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.44	1	20	0	97.2	81.4	130	0			
Toluene	22.94	1	20	0	115	90.8	128	0			
Chlorobenzene	22.42	1	20	0	112	89.6	134	0			
1,1-Dichloroethene	21.96	1	20	0	110	75.1	120	0			
Trichloroethene (TCE)	19.14	1	20	0	95.7	75.8	110	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: 0509109

Project: Stormwater Separator Effluent Water

Sample ID	LCS-8746	Batch ID: 8746	Test Code: SW8270C	Units: µg/L	Analysis Date	9/15/2005	Prep Date	9/13/2005				
Client ID:	ELMO_050915A	Run ID:	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	SeqNo:	10	100	0	73.5	11	123	0			
Acenaphthene	73.54		10	100	0	73.5	11	123	0			
4-Chloro-3-methylphenol	149.3		20	200	0	74.7	15.4	119	0			
2-Chlorophenol	145.1		10	200	0	72.6	12.2	122	0			
1,4-Dichlorobenzene	63.92		10	100	0	63.9	16.9	100	0			
2,4-Dinitrotoluene	70.8		10	100	0	70.8	13	138	0			
N-Nitrosodi-n-propylamine	70.74		10	100	0	70.7	9.93	122	0			
4-Nitrophenol	80.04		50	200	0	40.0	-20.5	87.4	0			
Pentachlorophenol	134.3		50	200	0	67.2	-0.355	114	0			
Phenol	89.48		10	200	0	44.7	7.53	73.1	0			
Pyrene	74.06		15	100	0	74.1	12.6	140	0			
1,2,4-Trichlorobenzene	63.66		10	100	0	63.7	17.4	98.7	0			

Sample ID	LCS-8746	Batch ID: 8746	Test Code: SW8270C	Units: µg/L	Analysis Date	9/15/2005	Prep Date	9/13/2005				
Client ID:	ELMO_050915A	Run ID:	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	SeqNo:	10	100	0	75.6	11	123	73.54	2.79	30.5	
Acenaphthene	75.62		10	100	0	75.6	11	123	73.54	2.79	30.5	
4-Chloro-3-methylphenol	153.9		20	200	0	77.0	15.4	119	149.3	3.05	28.6	
2-Chlorophenol	150.3		10	200	0	75.2	12.2	122	145.1	3.55	107	
1,4-Dichlorobenzene	66.08		10	100	0	66.1	16.9	100	63.92	3.32	62.1	
2,4-Dinitrotoluene	76.42		10	100	0	76.4	13	138	70.8	7.63	14.7	
N-Nitrosodi-n-propylamine	68.18		10	100	0	68.2	9.93	122	70.74	3.69	30.3	
4-Nitrophenol	90.32		50	200	0	45.2	12.5	87.4	80.04	12.1	36.3	
Pentachlorophenol	149.8		50	200	0	74.9	3.55	114	134.3	10.9	49	
Phenol	89.98		10	200	0	45.0	7.53	73.1	89.48	0.557	52.4	
Pyrene	73.82		15	100	0	73.8	12.6	140	74.06	0.325	16.3	
1,2,4-Trichlorobenzene	64		10	100	0	64.0	17.4	98.7	63.66	0.533	36.4	

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

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: Giant Refining Co
Work Order: 0509109
Project: Stormwater Separator Effluent Water

Sample ID LCS-8742 Batch ID: 8742 Test Code: SW7470 Units: mg/L Analysis Date 9/13/2005 Prep Date 9/13/2005
Client ID: Run ID: MI-LA254_050913B SeqNo: 399553

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004975	0.0002	0.005	0	99.5	75.2	134	0			

Sample ID LCSD-8742 Batch ID: 8742 Test Code: SW7470 Units: mg/L Analysis Date 9/13/2005 Prep Date 9/13/2005
Client ID: Run ID: MI-LA254_050913B SeqNo: 399577

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	0.004975	0.102	0	

Sample ID LCS-8823 Batch ID: 8823 Test Code: SW6010A Units: mg/L Analysis Date 9/29/2005 9:56:02 AM Prep Date 9/27/2005
Client ID: Run ID: ICP_050929A SeqNo: 405129

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5041	0.02	0.5	0	101	80	120	0			
Barium	0.4623	0.02	0.5	0	92.5	80	120	0			
Cadmium	0.4612	0.002	0.5	0	92.2	80	120	0			
Calcium	49.25	1	50	0	98.5	80	120	0			
Chromium	0.4698	0.006	0.5	0	94.0	80	120	0			
Lead	0.4653	0.005	0.5	0	93.1	80	120	0			
Magnesium	47.33	1	50	0	94.7	80	120	0			
Potassium	49.46	1	50	0	98.9	80	120	0			
Selenium	0.4445	0.05	0.5	0	88.9	80	120	0			
Silver	0.4625	0.005	0.5	0	92.5	80	120	0			
Sodium	50.78	1	50	0	102	80	120	0			

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

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

CLIENT: Giant Refining Co
Work Order: 0509109
Project: Stormwater Separator Effluent Water

Sample ID LCSD-8823 Batch ID: 8823 Test Code: SW6010A Units: mg/L Analysis Date 9/29/2005 9:58:26 AM Prep Date 9/27/2005
Client ID: Run ID: ICP_050929A SeqNo: 405130

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.4967	0.02	0.5	0	99.3	80	120	0.5041	1.48	20	
Barium	0.466	0.02	0.5	0	93.2	80	120	0.4623	0.785	20	
Cadmium	0.4626	0.002	0.5	0	92.5	80	120	0.4612	0.303	20	
Calcium	49.02	1	50	0	98.0	80	120	49.25	0.463	20	
Chromium	0.4692	0.006	0.5	0	93.8	80	120	0.4698	0.137	20	
Lead	0.4666	0.005	0.5	0	93.3	80	120	0.4653	0.289	20	
Magnesium	47.69	1	50	0	95.4	80	120	47.33	0.776	20	
Potassium	50.23	1	50	0	100	80	120	49.46	1.55	20	
Selenium	0.4472	0.05	0.5	0	89.4	80	120	0.4445	0.593	20	
Silver	0.4677	0.005	0.5	0	93.5	80	120	0.4625	1.11	20	
Sodium	50.07	1	50	0	100	80	120	50.78	1.40	20	

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

9/12/2005

Work Order Number 0509109

Received by AT

Checklist completed by

Alan Dizon

Signature

9/12/05

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?

1° 4° C ± 2 Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Giant Industries, Inc.	Contact James Romero	
Address Rt. 3, Box 7	Telephone No. 505-722-0227	
Facility Name Giant Industries, Inc.	Facility Type Refinery	
Surface Owner Giant Industries, Inc.	Mineral Owner Giant Industries, Inc.	Lease No.

LOCATION OF RELEASE

Unit Letter	Section 33	Township 15N	Range 15W	Feet from the	North/South Line	Feet from the	East/West Line	County McKinley
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Latitude 30° 29' 30" Longitude 108° 24' 40"

NATURE OF RELEASE

Type of Release Release into Secondary Containment	Volume of Release 210 Gallons	Volume Recovered 210 Gallons
Source of Release API Separator Secondary containment	Date and Hour of Occurrence Between 8/5/05n - 9/15/05	Date and Hour of Discover 9/15/05 @ 0930
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Wayne Price, OCD and Hope Monzeglio, NMED	
By Whom? James Romero	Date and Hour 10/03/05 @ 4:00 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully. **No watercourse was Impacted**

Describe Cause of Problem and Remedial Action Taken. **During monthly inspections of below grade tanks/sumps/pits/and ponds, Giant personnel noted water within the secondary containment of the API separator. Samples were gathered and taken in for laboratory testing which indicated exceedence of NMWQS (see attached lab results). Giant has no reason to believe the spill left the secondary containment.**

Describe Area Affected and Cleanup Action Taken. **The Secondary containment was vacuumed and all water removed and Giant has initiated weekly inspections and will pump the secondary as necessary. Furthermore, Giant will update OCD and NMED on a weekly basis (via our OCD weekly Reporting) on the current status until the problem is corrected. Also, Giant has initiated an Request for Expenditures (RFE) to repair the primary.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION		
Signature:	Approved by District Supervisor:	
Printed Name: JAMES ROMERO	Approval Date:	Expiration Date:
Title: Environmental Engineer	Conditions of Approval:	
E-mail Address: Jromero@Giant.com	Attached <input checked="" type="checkbox"/>	
Date: Oct 3, 2005 Phone: 505-722-0227		

* Attach Additional Sheets If Necessary

Price, Wayne, EMNRD

From: James Romero [jromero@giant.com] **Sent:** Thu 9/29/2005 10:30 AM
To: James Romero; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD; Cobrain, Dave, NMENV
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Cobrain, Dave, NMENV
Subject: RE: Weekly Reporting (Update to Week three)
Attachments:

The following is an update to our week three report:

- 1) Oil from our ponds has been removed with only a slight sheen remaining (see attached pics). Riley will continue to vacuum with be completed later this week early next {pic 45 is pond one/pic 46 is aeration 2}
- 2) Our weekly sample from AL-2 to EP1 will be gathered today

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

From: James Romero
Sent: Wednesday, September 28, 2005 10:18 AM
To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'DFOUST@state.nm.us'; 'carlj.chavez@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez
Subject: RE: Weekly Reporting (Week Three)

The following is a summary of week three:

- 1) Riley is continuing work on aeration lagoon 1 and 2
 - Between 9/20/05 - 9/26/05 58 trucks of oily wastewater were removed
 - Loads from the 55,000bbl tanks = 5/200bbl loads of sludge removed from tank and recycled
15 truck loads of water removed

*Estimated time until pond cleanup is completed is next week
- 2) New boom arrived and will be installed at the inlet to pond 2
- 3) Two new dry monitoring wells were installed by Precision Engineering (GWM-2/GWM-3). Monthly Sampling will begin Oct
- 4) A soil boring was completed for the proposed firewater pond - a sample was sent to Precision for permeability testing (EM
- 5) A soil sample was gathered for OCD and will be held onsite (per discussions with Wayne)
- 6) The old API separator continues to be oil free (we are awaiting lab result from previous sampling)
- 7) Railroad Lagoon sampling is complete. All samples came back clean and the area will be backfilled next week
- 8) 2003 OCD Report Response was completed and mailed 9/27
- 9) Elevations for the Boundary wells are completed and included in the 2003 OCD Response
- 10) Annual Groundwater sampling is underway this week on the OW wells
- 11) " " next week on the SMW wells
- 12) Weekly sampling from aeration 2 into evap pond 1 (AL-2 to EP-1) will be taken 9/29

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

From: James Romero
Sent: Tuesday, September 20, 2005 10:06 AM
To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'DFOUST@state.nm.us'; 'carlj.chavez@st
Cc: Ed Riege; Steve Morris; Johnny Sanchez
Subject: RE: Weekly Reporting (Week Two)

The following is a summary of week two:

- 1) Riley is continuing work on aeration lagoon 2
 - Between 9/13/05 - 9/19/05 36 trucks of oily wastewater were removed from aeration lagoon 2
 - Loads from the 55,000bbl tanks = 7/200bbl loads of sludge removed from tank and returned to process
30 truck loads of water removed
- 2) The wastewater line from the Pilot travel center failed causing a spill which was reported to OCD. During this time, from Pilot was diverted into pond 9. The pipe was fixed on 9/16 and flow was returned to lagoon 1. However, on 9/17 it again which and repaired on 9/17. Again, flow was diverted into pond 9 until the repair was made. This was reported via telephone 9/19. Moreover, a new valve was installed at the Pilot diversion where flows are diverted into pond 9 or
- 3) The new chopper pump should arrive this week, however, a new control valve is needed which could delay installat
- 4) Weekly lab results were received for the week of 9/5/05 (sampling date 9/9/05) Benzene=ND, Toluene=ND, Ethybe Xylenes Total= 20ppb
A complete report/lab results will be forward to OCD and NMED. Other weekly sampling dates are 9/12/05 and 9/2
- 5) A conference call was held between OCD, NMED, Precision Engineering, and Giant to discuss the installation of tw was and and one boring. A report will be sent to OCD and NMED asking for concurrence of our plan prior to drilling.

6) Excavation on the RR Lagoon was completed and additional soil samples were taken (lab results expected next week)

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

From: James Romero

Sent: Thursday, September 15, 2005 1:33 PM

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

Cc: Ed Riege; Steve Morris; Johnny Sanchez

Subject: RE: Weekly Reporting (Week One)

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 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 (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. Fushie is onsite today excavating additional soil where sample 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

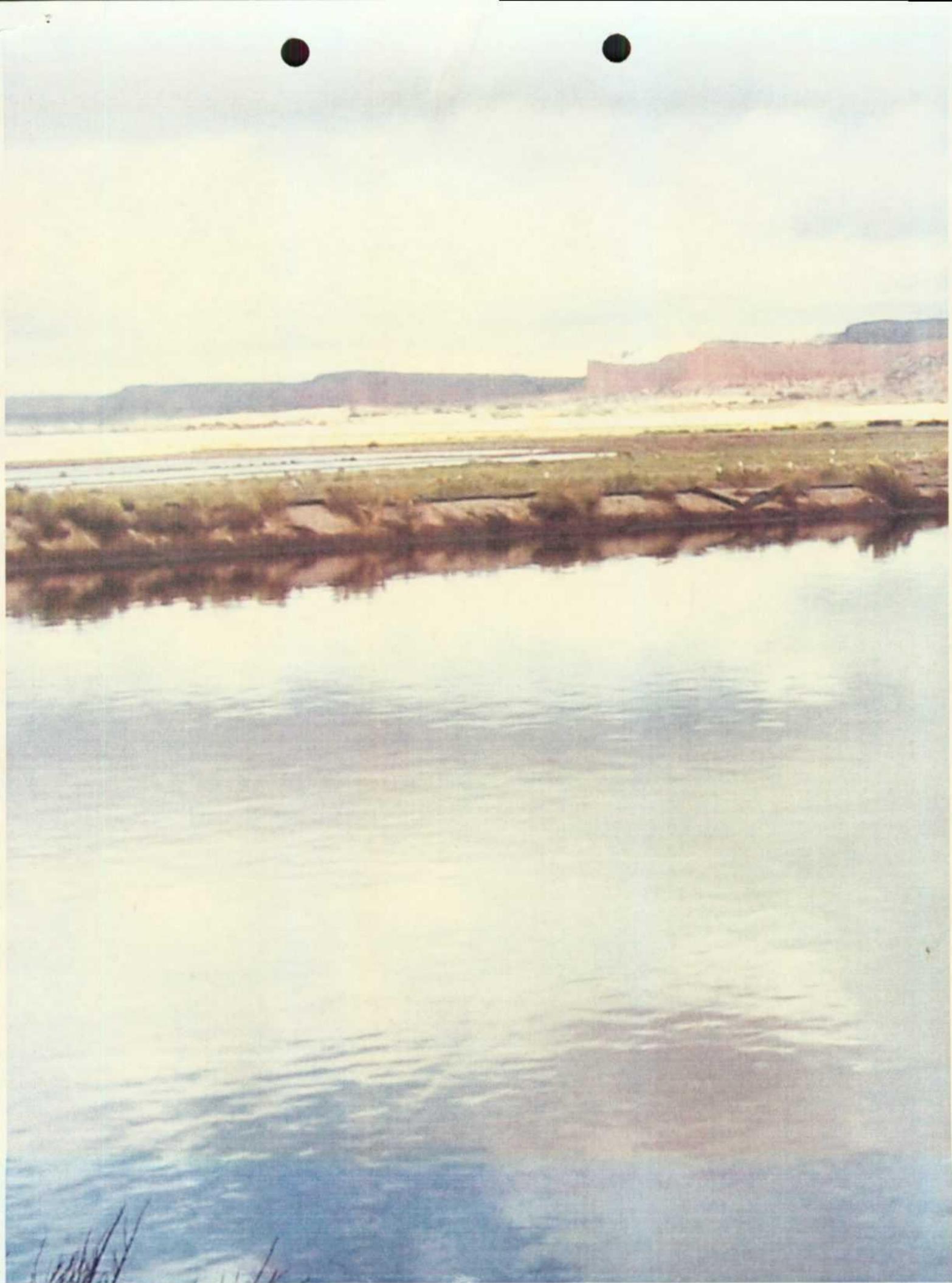
1220 S. Saint Francis

Santa Fe, NM 87505

E-mail wayne.price@state.nm.us

Tele: 505-476-3487

Fax: 505-4763462





Price, Wayne, EMNRD

From: James Romero [jromero@giant.com] **Sent:** Wed 9/28/2005 11:18 AM
To: James Romero; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD; Cobrain, Dave, NMENV
Cc: Ed Riege; Steve Morris; Johnny Sanchez
Subject: RE: Weekly Reporting (Week Three)
Attachments:

The following is a summary of week three:

- 1) Riley is continuing work on aeration lagoon 1 and 2
 - Between 9/20/05 - 9/26/05 58 trucks of oily wastewater were removed
 - Loads from the 55,000bbl tanks = 5/200bbl loads of sludge removed from tank and recycled
15 truck loads of water removed

*Estimated time until pond cleanup is completed is next week
- 2) New boom arrived and will be installed at the inlet to pond 2
- 3) Two new dry monitoring wells were installed by Precision Engineering (GWM-2/GWM-3). Monthly Sampling will begin October 0.
- 4) A soil boring was completed for the proposed firewater pond - a sample was sent to Precision for permeability testing (EM 110-2-
- 5) A soil sample was gathered for OCD and will be held onsite (per discussions with Wayne)
- 6) The old API separator continues to be oil free (we are awaiting lab result from previous sampling)
- 7) Railroad Lagoon sampling is complete. All samples came back clean and the area will be backfilled next week
- 8) 2003 OCD Report Response was completed and mailed 9/27
- 9) Elevations for the Boundary wells are completed and included in the 2003 OCD Response
- 10) Annual Groundwater sampling is underway this week on the OW wells
- 11) " " next week on the SMW wells
- 12) Weekly sampling from aeration 2 into evap pond 1 (AL-2 to EP-1) will be taken 9/29

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

From: James Romero
Sent: Tuesday, September 20, 2005 10:06 AM
To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'DFOUST@state.nm.us'; 'carlj.chavez@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez
Subject: RE: Weekly Reporting (Week Two)

The following is a summary of week two:

- 1) Riley is continuing work on aeration lagoon 2
 - Between 9/13/05 - 9/19/05 36 trucks of oily wastewater were removed from aeration lagoon 2
 - Loads from the 55,000bbl tanks = 7/200bbl loads of sludge removed from tank and returned to process
30 truck loads of water removed
- 2) The wastewater line from the Pilot travel center failed causing a spill which was reported to OCD. During this time, all was from Pilot was diverted into pond 9. The pipe was fixed on 9/16 and flow was returned to lagoon 1. However, on 9/17 the pipe again which and repaired on 9/17. Again, flow was diverted into pond 9 until the repair was made. This was reported to OCD via telephone 9/19. Moreover, a new valve was installed at the Pilot diversion where flows are diverted into pond 9 or aeratic
- 3) The new chopper pump should arrive this week, however, a new control valve is needed which could delay installation by
- 4) Weekly lab results were received for the week of 9/5/05 (sampling date 9/9/05) Benzene=ND, Toluene=ND, Ethylbenzene=Xylenes Total= 20ppb
A complete report/lab results will be forward to OCD and NMED. Other weekly sampling dates are 9/12/05 and 9/21/05
- 5) A conference call was held between OCD, NMED, Precision Engineering, and Giant to discuss the installation of two new was and and one boring. A report will be sent to OCD and NMED asking for concurrence of our plan prior to drilling.
- 6) Excavation on the RR Lagoon was completed and additional soil samples were taken (lab results expected next week)

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

From: James Romero
Sent: Thursday, September 15, 2005 1:33 PM
To: 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'DFOUST@state.nm.us'; 'carlj.chavez@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez
Subject: RE: Weekly Reporting (Week One)

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% p 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 effluent have been moved to aeration pond 2 (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 shows 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.

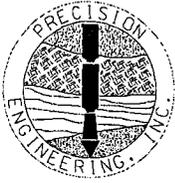
Wayne Price-Senior Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3487
Fax: 505-4763462

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



Well Closure Report

Well Identification: OW-2

Date of Closure: 9-28-04 Water Depth at Closure: 30' 6"

505-523-7674

Length of Casing Extracted: 0 ft Interval: _____ to _____

Length of Perforated Casing: 20' ft Interval: 40' to 60'

Length of Screen Extracted: 0 ft Interval: _____ to _____

Well Diameter: 4" in Interval: 0 to 58' 3"

_____ in Interval: _____ to _____

_____ in Interval: _____ to _____

_____ in Interval: _____ to _____

Gravel or Sand Pack Length: 40' ft Interval: 20' to 60'

_____ ft Interval: _____ to _____

_____ ft Interval: _____ to _____

_____ ft Interval: _____ to _____

Estimated Sand/Gravel Pack Void Ratio: 0.35

Estimated Total Well Volume (Including Sand/Gravel Pack): _____ ft³

Volume of Grout: 1) 19.7 ft³ Type: 6% Bentonite/Cement

Interval: 0 to 58' 3"

Tremmie Depth: 58' 3"

2) _____ ft³ Type: _____

Interval: _____ to _____

Tremmie Depth: _____

3) _____ ft³ Type: _____

Interval: _____ to _____

Tremmie Depth: _____

Total Grout Volume: 19.7 ft³ Crew Foreman: WHK

Notes: _____



Well Closure Report

Well Identification: OW-3
Date of Closure: 9-28-04 Water Depth at Closure: 33' 7'

505-523-7674

Length of Casing Extracted: 0 ft Interval: _____ to _____

Length of Perforated Casing: 20' ft Interval: 20' to 60'

Length of Screen Extracted: 0 ft Interval: _____ to _____

Well Diameter: 4" in Interval: 0 to 66'

_____ in Interval: _____ to _____

_____ in Interval: _____ to _____

_____ in Interval: _____ to _____

Gravel or Sand Pack Length: 40' ft Interval: 26' to 66'

_____ ft Interval: _____ to _____

_____ ft Interval: _____ to _____

_____ ft Interval: _____ to _____

Estimated Sand/Gravel Pack Void Ratio: 0.35

Estimated Total Well Volume (including Sand/Gravel Pack): _____ ft³

Volume of Grout: 1) 19.4 ft³ Type: 6% Bentonite/Cement

Interval: 0 to 66'

Tremmie Depth: 66'

2) _____ ft³ Type: _____

Interval: _____ to _____

Tremmie Depth: _____

3) _____ ft³ Type: _____

Interval: _____ to _____

Tremmie Depth: _____

Total Grout Volume: 19.4 ft³ Crew Foreman: WHK

Notes: _____



Well Closure Report

Well Identification: OW-7

Date of Closure: 10-1-04 Water Depth at Closure: 5' 9"

505-523-7674

Length of Casing Extracted: 0 ft Interval: _____ to _____

Length of Perforated Casing: 20' ft Interval: 50' to 70'

Length of Screen Extracted: 0 ft Interval: _____ to _____

Well Diameter: 4" in Interval: 0 to 72' 3"

_____ in Interval: _____ to _____

_____ in Interval: _____ to _____

_____ in Interval: _____ to _____

Gravel or Sand Pack Length: 25' ft Interval: 45' to 70'

_____ ft Interval: _____ to _____

_____ ft Interval: _____ to _____

_____ ft Interval: _____ to _____

Estimated Sand/Gravel Pack Void Ratio: 0.35

Estimated Total Well Volume (Including Sand/Gravel Pack): _____ ft³

Volume of Grout: 1) 23.4 ft³ Type: 6% Bentonite/Cement

Interval: 0 to 72' 3"

Tremmie Depth: 72' 3"

2) _____ ft³ Type: _____

Interval: _____ to _____

Tremmie Depth: _____

3) _____ ft³ Type: _____

Interval: _____ to _____

Tremmie Depth: _____

Total Grout Volume: 23.4 ft³ Crew Foreman: WHK

Notes: _____



Well Closure Report

OW-9

Well Identification: _____

Date of Closure: 9-29-04 Water Depth at Closure: 4' 6"

505-523-7674

Length of Casing Extracted: 10 ft Interval: 0 to 10

Length of Perforated Casing: 20' ft Interval: 40' to 60'

Length of Screen Extracted: 0 ft Interval: _____ to _____

Well Diameter: 4" in Interval: 0 to 46' 0"

_____ in Interval: _____ to _____

_____ in Interval: _____ to _____

_____ in Interval: _____ to _____

Gravel or Sand Pack Length: 40' ft Interval: 20' to 60'

_____ ft Interval: _____ to _____

_____ ft Interval: _____ to _____

_____ ft Interval: _____ to _____

Estimated Sand/Gravel Pack Void Ratio: 0.35

Estimated Total Well Volume (Including Sand/Gravel Pack: _____ ft³)

Volume of Grout: 1) 16.0 ft³ Type: 6% Bentonite/Cement

Interval: 0 to 46' 0"

Tremmie Depth: 46' 0"

2) _____ ft³ Type: _____

Interval: _____ to _____

Tremmie Depth: _____

3) _____ ft³ Type: _____

Interval: _____ to _____

Tremmie Depth: _____

Total Grout Volume: 16.0 ft³ Crew Foreman: WHK

Notes: _____



Well Closure Report

Well Identification: OW-24

Date of Closure: 9-29-04 Water Depth at Closure: 22' 0"

505-523-7674

Length of Casing Extracted: 0 ft Interval: _____ to _____

Length of Perforated Casing: 20' ft Interval: 41' to 61'

Length of Screen Extracted: 0 ft Interval: _____ to _____

Well Diameter: 2" in Interval: 0 to 55' 1"

_____ in Interval: _____ to _____

_____ in Interval: _____ to _____

_____ in Interval: _____ to _____

Gravel or Sand Pack Length: 33' ft Interval: 28' to 61'

_____ ft Interval: _____ to _____

_____ ft Interval: _____ to _____

_____ ft Interval: _____ to _____

Estimated Sand/Gravel Pack Void Ratio: 0.35

Estimated Total Well Volume (Including Sand/Gravel Pack): _____ ft³

Volume of Grout: 1) 22.0 ft³ Type: 6% Bentonite/Cement

Interval: 0 to 55' 1"

Tremmie Depth: 55' 1"

2) _____ ft³ Type: _____

Interval: _____ to _____

Tremmie Depth: _____

3) _____ ft³ Type: _____

Interval: _____ to _____

Tremmie Depth: _____

Total Grout Volume: 22.0 ft³ Crew Foreman: WHK

Notes: _____



Well Closure Report

Well Identification: SMW- 1

Date of Closure: 10-1-04 Water Depth at Closure: 22' 0"

505-523-7674

Length of Casing Extracted: 20 ft Interval: 0 to 20

Length of Perforated Casing: 20' ft Interval: 26' to 46'

Length of Screen Extracted: 0 ft Interval: to

Well Diameter: 2" in Interval: 0 to 46' 0"

 in Interval: to

 in Interval: to

 in Interval: to

Gravel or Sand Pack Length: 22' 0" ft Interval: 24' 0" to 46' 0"

 ft Interval: to

 ft Interval: to

 ft Interval: to

Estimated Sand/Gravel Pack Void Ratio: 0.35

Estimated Total Well Volume (Including Sand/Gravel Pack: ft³)

Volume of Grout: 1) 8.5 ft³ Type: 6% Bentonite/Cement

Interval: 0 to 46' 0"

Tremmie Depth: 46' 0"

2) ft³ Type:

Interval: to

Tremmie Depth:

3) ft³ Type:

Interval: to

Tremmie Depth:

Total Grout Volume: 8.5 ft³ Crew Foreman: WHK

Notes:



Well Closure Report

Well Identification: SMW-3
Date of Closure: 10-1-04 Water Depth at Closure: 8' 0"

505-523-7674

Length of Casing Extracted: 20 ft Interval: 0 to 20

Length of Perforated Casing: 20' ft Interval: 24' to 44' 0"

Length of Screen Extracted: 0 ft Interval: to

Well Diameter: 2" in Interval: 0 to 44' 0"

 in Interval: to

 in Interval: to

 in Interval: to

Gravel or Sand Pack Length: 22' 0" ft Interval: 22' 0" to 44' 0"

 ft Interval: to

 ft Interval: to

 ft Interval: to

Estimated Sand/Gravel Pack Void Ratio: 0.35

Estimated Total Well Volume (Including Sand/Gravel Pack): ft³

Volume of Grout: 1) 8.6 ft³ Type: 6% Bentonite/Cement

Interval: 0 to 44' 0"

Tremmie Depth: 44' 0"

2) ft³ Type:

Interval: to

Tremmie Depth:

3) ft³ Type:

Interval: to

Tremmie Depth:

Total Grout Volume: 8.6 ft³ Crew Foreman: WHK

Notes: 20 feet of screen



Well Closure Report

Well Identification: SMW- 5

Date of Closure: 10-1-04 Water Depth at Closure: 31' 3"

505-523-7674

Length of Casing Extracted: 20 ft Interval: 0 to 20
 Length of Perforated Casing: 20' ft Interval: 52' 6" to 72' 6"
 Length of Screen Extracted: 0 ft Interval: _____ to _____
 Well Diameter: 2" in Interval: 0 to 72' 6"
 _____ in Interval: _____ to _____
 _____ in Interval: _____ to _____
 _____ in Interval: _____ to _____

Gravel or Sand Pack Length: 22' 0" ft Interval: 50' 6" to 72' 6"
 _____ ft Interval: _____ to _____
 _____ ft Interval: _____ to _____
 _____ ft Interval: _____ to _____

Estimated Sand/Gravel Pack Void Ratio: 0.35

Estimated Total Well Volume (Including Sand/Gravel Pack: _____ ft³)

Volume of Grout: 1) 10.7 ft³ Type: 6% Bentonite/Cement

Interval: 0 to 72' 6"

Tremmie Depth: 72' 6"

2) _____ ft³ Type: _____

Interval: _____ to _____

Tremmie Depth: _____

3) _____ ft³ Type: _____

Interval: _____ to _____

Tremmie Depth: _____

Total Grout Volume: 10.7 ft³ Crew Foreman: WHK

Notes: _____

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, September 27, 2005 8:40 AM
To: 'James Romero'
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Of the 3 test methods proposed, the EM 1110-2-1906 Laboratory Soils Test is preferred; since the ASTM D5084 Method may result in lower hydraulic conductivity data results due to the increased confining stress and consolidation of the sample during this test. The EM 1110-2-1906 is consistent with standard hydrogeology methods. Thnx.

1) **ASTM D5084, Standard Test Method** for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter. This test method covers laboratory measurement of the hydraulic conductivity of water-saturated porous materials with a flexible-wall permeameter. This test method may be used with undisturbed or compacted soil specimens that have a hydraulic conductivity less than or equal to 5×10^2 cm/s (fine soils / clays).

"steady state hydraulic conductivity decreases by over two orders of magnitude for an increase in the effective confining stress from 35 kPa to 140 kPa, which results in consolidation of the sample and lower hydraulic conductivity data results"

2) **D3385-03 Standard Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer**

1. Scope

1.1 This test method describes a procedure for field measurement of the rate of infiltration of liquid (typically water) into soils using double-ring infiltrometer.

1.2 Soils should be regarded as natural occurring fine or coarse-grained soils or processed materials or mixtures of natural soils and processed materials, or other porous materials, and which are basically insoluble and are in accordance with requirements of 1.5.

1.3 This test method is particularly applicable to relatively uniform fine-grained soils, with an absence of very plastic (fat) clays and gravel-size particles and with moderate to low resistance to ring penetration.

1.4 This test method may be conducted at the ground surface or at given depths in pits, and on bare soil or with vegetation in place, depending on the conditions for which infiltration rates are desired. However, this test method cannot be conducted where the test surface is below the ground water table or perched water table.

1.5 This test method is difficult to use or the resultant data may be unreliable, or both, in very pervious or impervious soils (soils with a hydraulic conductivity greater than about 10^{-2} cm/s or less than about 1×10^{-6} cm/s) or in dry or stiff soils that most likely will fracture when the rings are installed. For soils with hydraulic conductivity less than 1×10^{-6} cm/s refer to Test Method D 5093.

1.6 This test method cannot be used directly to determine the hydraulic conductivity (coefficient of permeability) of the soil (see 5.2).

3) **EM 1110-2-1906 Laboratory Soils Testing**

<http://www.usace.army.mil/inet/usace-docs/eng-manuals/em1110-2-1906/toc.htm>

<http://www.usace.army.mil/inet/usace-docs/eng-manuals/em1110-2-1906/a-VII.pdf>

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/>
(Pollution Prevention Guidance is under "Publications")

From: James Romero [mailto:jromero@giant.com]
Sent: Monday, September 26, 2005 4:41 PM
To: Chavez, Carl J, EMNRD
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

Carl:

How about we use ASTM D-5084 hydraulic conductivity by the flex wall membrane method? Its sensitive to 10-11

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

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Monday, September 26, 2005 3:28 PM
To: James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

It is your responsibility to run the permeability test and OCD wanted a sample for visual observation only. Perhaps a wide mouth sample jar would suffice. Acceptable OCD permeability test methods are provided below.

ASTM D-3385 Infiltrometer Method

Field Permeability Test

EM-1110-2-1906
Appendix VII Permeability Test

Corps of Engineers Manual: Laboratory Permeability Test

Regarding leak detection systems, Section F of OCD's Pit Guidance is provided below and may provide some ideas for Ciniza's leak detection system.

F. PIT LEAK DETECTION SYSTEMS

1. Leak detection systems may consist of fail-safe electric detection systems or drainage and collection systems.
 2. If an electric grid detection system is used, provision must be made for adequately testing all components to ensure the system remains functional.
 3. If a drainage and collection system is used, a network of slotted or perforated drainage pipes will be installed between the primary and secondary liners. The network must be of sufficient density so that no point in the pit bed is more than twenty feet (20') from such drainage pipe or lateral thereof. The material

placed between the pipes and laterals must be sufficiently permeable to allow transport of the fluids to the drainage pipe. The slope for all drainage lines and laterals will be at least 12 inches (12") per hundred feet (100'). The slope of the pit bed must also conform to these values to assure fluid flow towards the leak detection system. The drainage pipe will convey liquids to a corrosion-proof collection system located outside the perimeter of the pit (see Figure 2).

4. Double lined disposal and storage pits constructed with synthetic liners shall be designed to allow slippage between the primary and secondary liner as the weight of fluid in the pit causes movement in the primary liner.

If the permeability test confirms clay of adequately low permeability, the low permeability clay will suffice as the secondary containment barrier with the leak detection system designed above it followed by the liner. For diagrams on keying or positioning the liner, vent system design, go to <http://www.emnrd.state.nm.us/ocd/> and click on "Publications" and "Environmental Handbook" to view pit design diagrams.

Also, there was some guidance in the spreadsheet sent to you that you may be able to locate via Google below:

SW-870 Lining of Waste Impoundment Facilities Vent designs

I hope this helps. Thanks.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/>
(Pollution Prevention Guidance is under "Publications")

From: James Romero [<mailto:jromero@giant.com>]
Sent: Monday, September 26, 2005 4:02 PM
To: Chavez, Carl J, EMNRD; James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

Carl:

Since the permeability tests needs to be completed before the sample loses any moisture, how and where would OCD like us to handle their soil sample? Wayne mentioned for us to hold the sample until his next visit, however, at that point the sample may not be valid for permeability testing. Let us know if you want us to rush the sample to your office or lab.

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

From: Chavez, Carl J, EMNRD [<mailto:CarlJ.Chavez@state.nm.us>]
Sent: Monday, September 26, 2005 1:57 PM
To: James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Mr. Price may have misunderstood your request for a depth of clay sample to conduct a permeability test for hydraulic conductivity. Based on your note, it appears that clay is present from surface to a significant depth below the FWP. For clarification, the depth of the permeability sample

requested should be commensurate to 3 feet beneath the bottom of the FWP. OCD requested that the boring be cored and logged to at least 15 feet to document the consistency of clay lithology at the FWP.

Regarding the RO reject water, OCD knows that the quality (general chemistry/inorganic parameters) of the RO reject water will not be **constant** during normal operations. OCD is puzzled by the low chloride concentration in Ciniza's RO reject water analytical data, since elevated levels would be expected during the regeneration of the water softeners. OCD has determined that elevated chloride levels from the water softener will be present in the RO reject water during normal refinery operations. In addition, the WQCC Standard for Sulfate is 600 ppm, and RO reject water analytical data showed a concentration at 2,500 ppm. Consequently, a leak detection system is required.

Please contact me if you have questions. Thanks.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/>
(Pollution Prevention Guidance is under "Publications")

From: James Romero [mailto:jromero@giant.com]
Sent: Monday, September 26, 2005 1:16 PM
To: Chavez, Carl J, EMNRD; James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

Carl:

I wanted to clarify the depths of clay for everyone. The 23-28' clay layer discussed with Wayne was in regards to his clay sample which he requested during your visit. We needed to know at what depth to take his sample.

According to Bill, the clay layer is 23.5' thick (surface to top of Chinle formation) with the Sonsela at 98.2'. We'll forward the boring logs when they are completed by Precision Engineering. Also, you stated OCD had a concern the RO water does not meet WQCC standards. We had the RO water lab tested on August 24, 2005 and the results were ND. OCD and NMED were sent copies of these results via our August 31, 2005 letter. If you need me to forward the lab analysis to you let me know and I will get you a copy. Given this should we proceed with developing leak detection?

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

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Monday, September 26, 2005 10:59 AM
To: James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Re: Proposed Fire Water Pond (FWP)

Good morning. As I recall from our September 8, 2005 meeting (meeting), Mr. Wayne Price of the Oil Conservation Division (OCD) had suggested a specification for the liner; however, the OCD expectation is that Ciniza will justify and reference any technical specifications proposed for the construction of the FWP. Due to the nature of the RO

water, OCD is confirmed that it does not meet WQCC standards, thus, justifying the need for leak detection. At the time of the meeting, OCD had viewed the substrate beneath the Ciniza Refinery to be clay of low permeability. However, during today's telephone conversation with Mr. Price, you indicated that the top of clay is present at a depth of about 28 feet below the recently drilled test boring ground elevation near the FWP. OCD needs to view the boring log to confirm your verbal indication that the clay is in fact present at a significant depth below the FWP. If it is confirmed, then OCD will require a double liner w/ leak detection design (please refer to OCD's pit guidance for general construction configurations). A double liner system should also help to prevent any mounding effect(s) from recharge and infiltration from FWP water to the water table. Mounding may alter the direction of groundwater flow relative to the existing groundwater monitoring system? Please send OCD and the New Mexico Environment Department (NMED), Hazardous Waste Bureau a copy of the boring log.

From the meeting, OCD agreed to provide some surface impoundment or general guidance (see attachment) to assist Ciniza with the construction of the FWP. I notice that the only OCD guidance available is "OCD Pit and Below-Grade Tank Guidelines (Nov. 1, 2004)." There is also reference to SW-870 Guidance in the attachment, which may also provide useful ideas to Ciniza for selecting and keying in the liners with a leak detection system. There is also permeability test references to assist with the boring permeability test requested near the FWP.

I hope this helps. Please contact me if you have questions. We look forward to viewing the boring log to confirm the depth of clay near the FWP. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/>
(Pollution Prevention Guidance is under "Publications")

From: James Romero [<mailto:jromero@giant.com>]
Sent: Monday, September 26, 2005 9:39 AM
To: Chavez, Carl J, EMNRD
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

Carl,

Thanks for the information, I'm in the process of estimating costs for the new pond. Can you let me know what mil of liner OCD will be ok with?

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

From: Chavez, Carl J, EMNRD [<mailto:CarlJ.Chavez@state.nm.us>]
Sent: Wednesday, September 21, 2005 12:03 PM
To: James Romero
Cc: smorris@giant.com; Eriege@giant.com; Price, Wayne, EMNRD
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Good afternoon. I believe Giant was requesting guidance for pit construction for the proposed Fire Water Pit and liner (see attachment with hyper links to OCD Pit guidance). Also, there is a OCD specified permeability test to be run on the boring near the proposed Fire Water Pit. I hope this helps. Please contact me if you have questions. Thanks.

Carl J. Chavez, CHMM
 New Mexico Energy, Minerals & Natural Resources Dept.
 Oil Conservation Division, Environmental Bureau
 1220 South St. Francis Dr., Santa Fe, New Mexico 87505
 Office: (505) 476-3491
 Fax: (505) 476-3462
 E-mail: CarlJ.Chavez@state.nm.us
 Website: <http://www.emnrd.state.nm.us/ocd/>
 (Pollution Prevention Guidance is under "Publications")

From: James Romero [mailto:jromero@giant.com]
Sent: Friday, September 16, 2005 2:27 PM
To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV;
 foust.denny@state.nm.us; Chavez, Carl J, EMNRD;
 cobrain.david@state.nm.us
Cc: Steve Morris; Johnny Sanchez
Subject: RE: Spill Report

Attached are photos showing the piping from the storm water basin and the new butterfly valves

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

From: Price, Wayne, EMNRD
 [mailto:wayne.price@state.nm.us]
Sent: Friday, September 09, 2005 2:33 PM
To: James Romero; Monzeglio, Hope, NMENV;
 foust.denny@state.nm.us; Chavez, Carl J, EMNRD;
 cobrain.david@state.nm.us
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

Thanks James for you quick response.

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

of magnitude for an increase in the effective confining stress from 35 kPa to 140 kPa. For soil

specimens, in **From:** James Romero [mailto:jromero@giant.com] cause consolidation of the specimens,
Sent: Fri 9/9/2005 2:38 PM
 which in turn **To:** Price, Wayne, EMNRD; James Romero; Monzeglio, Hope,
 NMENV, foust.denny@state.nm.us; Chavez, Carl J, EMNRD;
 'cobrain.david@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

Wayne

Give me a call when your free I'd like discuss the
 action items from yesterdays inspection: We
 have issued high priority work orders to install

butterfly valves on our storm water outfalls, remove soil impacted from diesel spill to land farm, and pump out water from RR lagoon. These work orders will be completed today. Also, below are other items we discussed during your inspection

- (1) The diesel spill (the 25 cubic yard of soil) was reported to your office on 7/20/05 by Steve Morris which reported a release of 630 gallons of diesel.
- (2) We have taken samples from the old API separator and will rush the analysis
- (3) We have taken Hope's weekly sample, added MTBE, and will also be rushed
- (4) We purchased and rushed ordered boom to install in pond 2
- (4) We have began discussions with Precision regarding new wells
- (5) We believe we have found the source of oil entering the old api. We are 90% sure of the location but will need more time to make a definitive conclusion

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RECEIVED
SEP 27 2005
OIL CONSERVATION
DIVISION

ROUTE 3 BOX 7
GALLUP
NEW MEXICO 87301

PHONE
505-722-3833
INTERNET
WWW.GIANT.COM

September 26, 2005

Mr. Wayne Price
New Mexico Oil Conservation Division
1220 South Street Francis Drive
Santa Fe, NM 87505

Re: Email Clarification

Dear Mr. Price:

In an email dated September 15, 2005 from James Romero he had indicted that Giant has experienced intermittent discharges of oil into our ponds mainly from problems with the old API separator. The "prior discharges of oil" James referred to was limited to carry through associated with infrequent unit upsets/large storm events resulting in increased oil/water reporting to the separator. The carry through of oil was then captured primarily from aeration lagoon #1 and on occasion minor carry over to lagoon #2 and recovered for processing.

The new separator was sized and designed to handle any increased surges of oil to the separator. The storm water system was then isolated from the process sewer system. The problems associated with the new separator relate to plugging of the pump and is being addressed by the installation of a new chopper pump.

If you have any questions regarding this clarification please contact me at (505) 722-0217.

Sincerely,

Ed Riege
Environmental Superintendent

C: Carl Chavez OCD
Hope Monzeglio NMED
David Kirby
Ed Rios
James Romero
Steve Morris



COVER LETTER

September 26, 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. 9/15/05

Order No.: 0509181

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 7 samples on 9/19/2005 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,

A handwritten signature in cursive script, appearing to read "Andy Freeman".

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 26-Sep-05

CLIENT: Giant Refining Co
 Lab Order: 0509181
 Project: RR Rock Lagoon Add. Exc. 9/15/05
 Lab ID: 0509181-01

Client Sample ID: RR-1A-91505
 Collection Date: 9/15/2005 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)	210	10		mg/Kg	1	9/22/2005 11:24:47 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/22/2005 11:24:47 AM
Surr: DNOP	106	60-124		%REC	1	9/22/2005 11:24:47 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	9/24/2005
Benzene	ND	0.050		mg/Kg	1	9/24/2005
Toluene	ND	0.050		mg/Kg	1	9/24/2005
Ethylbenzene	ND	0.050		mg/Kg	1	9/24/2005
Xylenes, Total	ND	0.050		mg/Kg	1	9/24/2005
Surr: 4-Bromofluorobenzene	109	72.9-143		%REC	1	9/24/2005

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-Sep-05

CLIENT: Giant Refining Co **Client Sample ID:** RR-2A-91505
Lab Order: 0509181 **Collection Date:** 9/15/2005 2:35:00 PM
Project: RR Rock Lagoon Add. Exc. 9/15/05
Lab ID: 0509181-02 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	130	10		mg/Kg	1	9/22/2005 11:57:56 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/22/2005 11:57:56 AM
Surr: DNOP	107	60-124		%REC	1	9/22/2005 11:57:56 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	9/24/2005
Benzene	ND	0.050		mg/Kg	1	9/24/2005
Toluene	ND	0.050		mg/Kg	1	9/24/2005
Ethylbenzene	ND	0.050		mg/Kg	1	9/24/2005
Xylenes, Total	ND	0.050		mg/Kg	1	9/24/2005
Surr: 4-Bromofluorobenzene	97.4	86.2-120		%REC	1	9/24/2005

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-Sep-05

CLIENT: Giant Refining Co
 Lab Order: 0509181
 Project: RR Rock Lagoon Add. Exc. 9/15/05
 Lab ID: 0509181-03

Client Sample ID: RR-3A-91505
 Collection Date: 9/15/2005 2:40:00 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	9/22/2005 12:31:01 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/22/2005 12:31:01 PM
Surr: DNOP	109	60-124		%REC	1	9/22/2005 12:31:01 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	9/24/2005
Benzene	ND	0.050		mg/Kg	1	9/24/2005
Toluene	ND	0.050		mg/Kg	1	9/24/2005
Ethylbenzene	ND	0.050		mg/Kg	1	9/24/2005
Xylenes, Total	ND	0.050		mg/Kg	1	9/24/2005
Surr: 4-Bromofluorobenzene	113	86.2-120		%REC	1	9/24/2005

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-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-4A-91505

Lab Order: 0509181

Collection Date: 9/15/2005 2:45:00 PM

Project: RR Rock Lagoon Add. Exc. 9/15/05

Lab ID: 0509181-04

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	9/22/2005 1:04:05 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/22/2005 1:04:05 PM
Surr: DNOP	101	60-124		%REC	1	9/22/2005 1:04:05 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	9/24/2005
Benzene	ND	0.050		mg/Kg	1	9/24/2005
Toluene	ND	0.050		mg/Kg	1	9/24/2005
Ethylbenzene	ND	0.050		mg/Kg	1	9/24/2005
Xylenes, Total	ND	0.050		mg/Kg	1	9/24/2005
Surr: 4-Bromofluorobenzene	119	86.2-120		%REC	1	9/24/2005

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-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-5A-91505

Lab Order: 0509181

Collection Date: 9/15/2005 2:50:00 PM

Project: RR Rock Lagoon Add. Exc. 9/15/05

Lab ID: 0509181-05

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	9/22/2005 1:37:09 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/22/2005 1:37:09 PM
Surr: DNOP	102	60-124		%REC	1	9/22/2005 1:37:09 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	9/24/2005
Benzene	ND	0.050		mg/Kg	1	9/24/2005
Toluene	ND	0.050		mg/Kg	1	9/24/2005
Ethylbenzene	ND	0.050		mg/Kg	1	9/24/2005
Xylenes, Total	ND	0.050		mg/Kg	1	9/24/2005
Surr: 4-Bromofluorobenzene	110	86.2-120		%REC	1	9/24/2005

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-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-6A-91505

Lab Order: 0509181

Collection Date: 9/15/2005 2:55:00 PM

Project: RR Rock Lagoon Add. Exc. 9/15/05

Lab ID: 0509181-06

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	9/22/2005 2:10:14 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/22/2005 2:10:14 PM
Surr: DNOP	101	60-124		%REC	1	9/22/2005 2:10:14 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	9/24/2005
Benzene	ND	0.050		mg/Kg	1	9/24/2005
Toluene	ND	0.050		mg/Kg	1	9/24/2005
Ethylbenzene	ND	0.050		mg/Kg	1	9/24/2005
Xylenes, Total	ND	0.050		mg/Kg	1	9/24/2005
Surr: 4-Bromofluorobenzene	90.5	86.2-120		%REC	1	9/24/2005

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-Sep-05

CLIENT: Giant Refining Co

Client Sample ID: RR-7A-91505

Lab Order: 0509181

Collection Date: 9/15/2005 3:00:00 PM

Project: RR Rock Lagoon Add. Exc. 9/15/05

Lab ID: 0509181-07

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	9/22/2005 3:16:27 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/22/2005 3:16:27 PM
Surr: DNOP	104	60-124		%REC	1	9/22/2005 3:16:27 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	9/24/2005
Benzene	ND	0.050		mg/Kg	1	9/24/2005
Toluene	ND	0.050		mg/Kg	1	9/24/2005
Ethylbenzene	ND	0.050		mg/Kg	1	9/24/2005
Xylenes, Total	ND	0.050		mg/Kg	1	9/24/2005
Surr: 4-Bromofluorobenzene	104	86.2-120		%REC	1	9/24/2005

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



LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque
Project:
Lab ID: B05091262-001
Client Sample ID: RR-1A-91505, 0509181-01B

Report Date: 09/23/05
Collection Date: 09/20/05 14:30
Date Received: 09/20/05
Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL CHARACTERISTICS							
Moisture	7.6	wt%		0.01		SW3550A	09/22/05 13:31 / mwc
SEMI-VOLATILE ORGANIC COMPOUNDS							
1,2,4-Trichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
1,2-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
1,3-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
1,4-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
1-Methylnaphthalene	0.29	mg/kg	J	0.33		SW8270C	09/22/05 15:01 / dsm
2,4,5-Trichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
2,4,6-Trichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
2,4-Dichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
2,4-Dimethylphenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
2,4-Dinitrophenol	ND	mg/kg		1.7		SW8270C	09/22/05 15:01 / dsm
2,4-Dinitrotoluene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
2,6-Dinitrotoluene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
2-Chloronaphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
2-Chlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
2-Methylnaphthalene	0.069	mg/kg	J	0.33		SW8270C	09/22/05 15:01 / dsm
2-Nitrophenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
3,3'-Dichlorobenzidine	ND	mg/kg		0.67		SW8270C	09/22/05 15:01 / dsm
4,6-Dinitro-2-methylphenol	ND	mg/kg		1.7		SW8270C	09/22/05 15:01 / dsm
4-Bromophenyl phenyl ether	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
4-Chloro-3-methylphenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
4-Chlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
4-Chlorophenyl phenyl ether	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
4-Nitrophenol	ND	mg/kg		1.7		SW8270C	09/22/05 15:01 / dsm
Acenaphthene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Acenaphthylene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Azobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Benzidine	ND	mg/kg		0.67		SW8270C	09/22/05 15:01 / dsm
Benzo(a)anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Benzo(a)pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Benzo(b)fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Benzo(g,h,i)perylene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Benzo(k)fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
bis(-2-chloroethoxy)Methane	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
bis(-2-chloroethyl)Ether	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
bis(2-chloroisopropyl)Ether	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
bis(2-ethylhexyl)Phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Butylbenzylphthalate	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Chrysene	0.058	mg/kg	J	0.33		SW8270C	09/22/05 15:01 / dsm

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

J - Estimated value. The analyte was present but less than the reporting limit.



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Toll Free 800.735.4489 * 406.252.6325 * FAX 406.252.6069 * ell@energylab.com

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque
Project:
Lab ID: B05091262-001
Client Sample ID: RR-1A-91505, 0509181-01B

Report Date: 09/23/05
Collection Date: 09/20/05 14:30
Date Received: 09/20/05
Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SEMI-VOLATILE ORGANIC COMPOUNDS							
Dibenzo(a,h)anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Diethyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Dimethyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Di-n-butyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Di-n-octyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Fluorene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Hexachlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Hexachlorobutadiene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Hexachlorocyclopentadiene	ND	mg/kg		0.67		SW8270C	09/22/05 15:01 / dsm
Hexachloroethane	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Indeno(1,2,3-cd)pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Isophorone	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
m+p-Cresols	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Naphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Nitrobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
n-Nitrosodimethylamine	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
n-Nitroso-di-n-propylamine	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
n-Nitrosodiphenylamine	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
o-Cresol	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Pentachlorophenol	ND	mg/kg		1.7		SW8270C	09/22/05 15:01 / dsm
Phenanthrene	1.6	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Phenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 15:01 / dsm
Pyridine	ND	mg/kg		0.67		SW8270C	09/22/05 15:01 / dsm
Surr: 2,4,6-Tribromophenol	114	%REC			19-122	SW8270C	09/22/05 15:01 / dsm
Surr: 2-Fluorobiphenyl	82.4	%REC			30-115	SW8270C	09/22/05 15:01 / dsm
Surr: 2-Fluorophenol	81.5	%REC			25-121	SW8270C	09/22/05 15:01 / dsm
Surr: Nitrobenzene-d5	75.1	%REC			23-120	SW8270C	09/22/05 15:01 / dsm
Surr: Phenol-d5	83.0	%REC			24-113	SW8270C	09/22/05 15:01 / dsm
Surr: Terphenyl-d14	102	%REC			18-137	SW8270C	09/22/05 15:01 / dsm

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque

Report Date: 09/23/05

Project:

Collection Date: 09/15/05 14:35

Lab ID: B05091262-002

Date Received: 09/20/05

Client Sample ID: RR-2A-91505, 050981-2B

Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL CHARACTERISTICS							
Moisture	7.9	wt%		0.01		SW3550A	09/22/05 13:31 / mwc
SEMI-VOLATILE ORGANIC COMPOUNDS							
1,2,4-Trichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
1,2-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
1,3-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
1,4-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
1-Methylnaphthalene	0.13	mg/kg	J	0.33		SW8270C	09/22/05 15:44 / dsm
2,4,5-Trichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
2,4,6-Trichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
2,4-Dichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
2,4-Dimethylphenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
2,4-Dinitrophenol	ND	mg/kg		1.7		SW8270C	09/22/05 15:44 / dsm
2,4-Dinitrotoluene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
2,6-Dinitrotoluene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
2-Chloronaphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
2-Chlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
2-Methylnaphthalene	0.11	mg/kg	J	0.33		SW8270C	09/22/05 15:44 / dsm
2-Nitrophenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
3,3'-Dichlorobenzidine	ND	mg/kg		0.67		SW8270C	09/22/05 15:44 / dsm
4,6-Dinitro-2-methylphenol	ND	mg/kg		1.7		SW8270C	09/22/05 15:44 / dsm
4-Bromophenyl phenyl ether	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
4-Chloro-3-methylphenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
4-Chlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
4-Chlorophenyl phenyl ether	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
4-Nitrophenol	ND	mg/kg		1.7		SW8270C	09/22/05 15:44 / dsm
Acenaphthene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Acenaphthylene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Azobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Benzidine	ND	mg/kg		0.67		SW8270C	09/22/05 15:44 / dsm
Benzo(a)anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Benzo(a)pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Benzo(b)fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Benzo(g,h,i)perylene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Benzo(k)fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
bis(-2-chloroethoxy)Methane	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
bis(-2-chloroethyl)Ether	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
bis(2-chloroisopropyl)Ether	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
bis(2-ethylhexyl)Phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Butylbenzylphthalate	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Chrysene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

J - Estimated value. The analyte was present but less than the reporting limit.



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Toll Free 800.735.4489 * 406.252.6325 * FAX 406.252.6069 * eli@energylab.com

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque

Report Date: 09/23/05

Project:

Collection Date: 09/15/05 14:35

Lab ID: B05091262-002

Date Received: 09/20/05

Client Sample ID: RR-2A-91505, 050981-2B

Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SEMI-VOLATILE ORGANIC COMPOUNDS							
Dibenzo(a,h)anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Diethyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Dimethyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Di-n-butyl phthalate	0.13	mg/kg	J	0.33		SW8270C	09/22/05 15:44 / dsm
Di-n-octyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Fluorene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Hexachlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Hexachlorobutadiene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Hexachlorocyclopentadiene	ND	mg/kg		0.67		SW8270C	09/22/05 15:44 / dsm
Hexachloroethane	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Indeno(1,2,3-cd)pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Isophorone	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
m+p-Cresols	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Naphthalene	0.043	mg/kg	J	0.33		SW8270C	09/22/05 15:44 / dsm
Nitrobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
n-Nitrosodimethylamine	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
n-Nitroso-di-n-propylamine	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
n-Nitrosodiphenylamine	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
o-Cresol	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Pentachlorophenol	ND	mg/kg		1.7		SW8270C	09/22/05 15:44 / dsm
Phenanthrene	0.16	mg/kg	J	0.33		SW8270C	09/22/05 15:44 / dsm
Phenol	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 15:44 / dsm
Pyridine	ND	mg/kg		0.67		SW8270C	09/22/05 15:44 / dsm
Surr: 2,4,6-Tribromophenol	95.0	%REC			19-122	SW8270C	09/22/05 15:44 / dsm
Surr: 2-Fluorobiphenyl	77.5	%REC			30-115	SW8270C	09/22/05 15:44 / dsm
Surr: 2-Fluorophenol	84.0	%REC			25-121	SW8270C	09/22/05 15:44 / dsm
Surr: Nitrobenzene-d5	74.9	%REC			23-120	SW8270C	09/22/05 15:44 / dsm
Surr: Phenol-d5	84.0	%REC			24-113	SW8270C	09/22/05 15:44 / dsm
Surr: Terphenyl-d14	91.9	%REC			18-137	SW8270C	09/22/05 15:44 / dsm

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

J - Estimated value. The analyte was present but less than the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque
 Project:
 Lab ID: B05091262-003
 Client Sample ID: RR-3A-91505, 0509181-3B

Report Date: 09/23/05
 Collection Date: 09/15/05 14:40
 Date Received: 09/20/05
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL CHARACTERISTICS							
Moisture	11	wt%		0.01		SW3550A	09/22/05 13:32 / mwc
SEMI-VOLATILE ORGANIC COMPOUNDS							
1,2,4-Trichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
1,2-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
1,3-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
1,4-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
1-Methylnaphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
2,4,5-Trichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
2,4,6-Trichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
2,4-Dichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
2,4-Dimethylphenol	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
2,4-Dinitrophenol	ND	mg/kg		1.7		SW8270C	09/22/05 16:27 / dsm
2,4-Dinitrotoluene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
2,6-Dinitrotoluene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
2-Chloronaphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
2-Chlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
2-Methylnaphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
2-Nitrophenol	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
3,3'-Dichlorobenzidine	ND	mg/kg		0.67		SW8270C	09/22/05 16:27 / dsm
4,6-Dinitro-2-methylphenol	ND	mg/kg		1.7		SW8270C	09/22/05 16:27 / dsm
4-Bromophenyl phenyl ether	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
4-Chloro-3-methylphenol	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
4-Chlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
4-Chlorophenyl phenyl ether	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
4-Nitrophenol	ND	mg/kg		1.7		SW8270C	09/22/05 16:27 / dsm
Acenaphthene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Acenaphthylene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Azobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Benzidine	ND	mg/kg		0.67		SW8270C	09/22/05 16:27 / dsm
Benzo(a)anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Benzo(a)pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Benzo(b)fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Benzo(g,h,i)perylene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Benzo(k)fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
bis(-2-chloroethoxy)Methane	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
bis(-2-chloroethyl)Ether	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
bis(2-chloroisopropyl)Ether	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
bis(2-ethylhexyl)Phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Butylbenzylphthalate	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Chrysene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque

Report Date: 09/23/05

Project:

Collection Date: 09/15/05 14:40

Lab ID: B05091262-003

Date Received: 09/20/05

Client Sample ID: RR-3A-91505, 0509181-3B

Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SEMI-VOLATILE ORGANIC COMPOUNDS							
Dibenzo(a,h)anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Diethyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Dimethyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Di-n-butyl phthalate	0.091	mg/kg	J	0.33		SW8270C	09/22/05 16:27 / dsm
Di-n-octyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Fluorene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Hexachlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Hexachlorobutadiene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Hexachlorocyclopentadiene	ND	mg/kg		0.67		SW8270C	09/22/05 16:27 / dsm
Hexachloroethane	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Indeno(1,2,3-cd)pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Isophorone	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
m+p-Cresols	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Naphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Nitrobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
n-Nitrosodimethylamine	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
n-Nitroso-di-n-propylamine	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
n-Nitrosodiphenylamine	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
o-Cresol	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Pentachlorophenol	ND	mg/kg		1.7		SW8270C	09/22/05 16:27 / dsm
Phenanthrene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Phenol	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 16:27 / dsm
Pyridine	ND	mg/kg		0.67		SW8270C	09/22/05 16:27 / dsm
Surr: 2,4,6-Tribromophenol	99.5	%REC			19-122	SW8270C	09/22/05 16:27 / dsm
Surr: 2-Fluorobiphenyl	81.5	%REC			30-115	SW8270C	09/22/05 16:27 / dsm
Surr: 2-Fluorophenol	84.5	%REC			25-121	SW8270C	09/22/05 16:27 / dsm
Surr: Nitrobenzene-d5	79.7	%REC			23-120	SW8270C	09/22/05 16:27 / dsm
Surr: Phenol-d5	85.5	%REC			24-113	SW8270C	09/22/05 16:27 / dsm
Surr: Terphenyl-d14	95.1	%REC			18-137	SW8270C	09/22/05 16:27 / dsm

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

J - Estimated value. The analyte was present but less than the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque
Project:
Lab ID: B05091262-004
Client Sample ID: RR-4A-91505, 0509181-4B

Report Date: 09/23/05
Collection Date: 09/15/05 14:45
Date Received: 09/20/05
Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL CHARACTERISTICS							
Moisture	9.2	wt%		0.01		SW3550A	09/22/05 13:32 / mwc
SEMI-VOLATILE ORGANIC COMPOUNDS							
1,2,4-Trichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
1,2-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
1,3-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
1,4-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
1-Methylnaphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
2,4,5-Trichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
2,4,6-Trichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
2,4-Dichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
2,4-Dimethylphenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
2,4-Dinitrophenol	ND	mg/kg		1.7		SW8270C	09/22/05 17:10 / dsm
2,4-Dinitrotoluene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
2,6-Dinitrotoluene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
2-Chloronaphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
2-Chlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
2-Methylnaphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
2-Nitrophenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
3,3'-Dichlorobenzidine	ND	mg/kg		0.67		SW8270C	09/22/05 17:10 / dsm
4,6-Dinitro-2-methylphenol	ND	mg/kg		1.7		SW8270C	09/22/05 17:10 / dsm
4-Bromophenyl phenyl ether	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
4-Chloro-3-methylphenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
4-Chlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
4-Chlorophenyl phenyl ether	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
4-Nitrophenol	ND	mg/kg		1.7		SW8270C	09/22/05 17:10 / dsm
Acenaphthene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Acenaphthylene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Azobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Benzidine	ND	mg/kg		0.67		SW8270C	09/22/05 17:10 / dsm
Benzo(a)anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Benzo(a)pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Benzo(b)fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Benzo(g,h,i)perylene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Benzo(k)fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
bis(-2-chloroethoxy)Methane	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
bis(-2-chloroethyl)Ether	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
bis(2-chloroisopropyl)Ether	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
bis(2-ethylhexyl)Phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Butylbenzylphthalate	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Chrysene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque
 Project:
 Lab ID: B05091262-004
 Client Sample ID: RR-4A-91505, 0509181-4B

Report Date: 09/23/05
 Collection Date: 09/15/05 14:45
 Date Received: 09/20/05
 Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SEMI-VOLATILE ORGANIC COMPOUNDS							
Dibenzo(a,h)anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Diethyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Dimethyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Di-n-butyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Di-n-octyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Fluorene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Hexachlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Hexachlorobutadiene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Hexachlorocyclopentadiene	ND	mg/kg		0.67		SW8270C	09/22/05 17:10 / dsm
Hexachloroethane	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Indeno(1,2,3-cd)pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Isophorone	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
m+p-Cresols	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Naphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Nitrobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
n-Nitrosodimethylamine	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
n-Nitroso-di-n-propylamine	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
n-Nitrosodiphenylamine	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
o-Cresol	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Pentachlorophenol	ND	mg/kg		1.7		SW8270C	09/22/05 17:10 / dsm
Phenanthrene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Phenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 17:10 / dsm
Pyridine	ND	mg/kg		0.67		SW8270C	09/22/05 17:10 / dsm
Surr: 2,4,6-Tribromophenol	95.0	%REC			19-122	SW8270C	09/22/05 17:10 / dsm
Surr: 2-Fluorobiphenyl	77.8	%REC			30-115	SW8270C	09/22/05 17:10 / dsm
Surr: 2-Fluorophenol	78.0	%REC			25-121	SW8270C	09/22/05 17:10 / dsm
Surr: Nitrobenzene-d5	70.9	%REC			23-120	SW8270C	09/22/05 17:10 / dsm
Surr: Phenol-d5	77.5	%REC			24-113	SW8270C	09/22/05 17:10 / dsm
Surr: Terphenyl-d14	89.3	%REC			18-137	SW8270C	09/22/05 17:10 / dsm

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque
Project:
Lab ID: B05091262-005
Client Sample ID: RR-5A-91505, 0509181-5B

Report Date: 09/23/05
Collection Date: 09/15/05 14:50
Date Received: 09/20/05
Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL CHARACTERISTICS							
Moisture	6.2	wt%		0.01		SW3550A	09/22/05 13:32 / mwc
SEMI-VOLATILE ORGANIC COMPOUNDS							
1,2,4-Trichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
1,2-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
1,3-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
1,4-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
1-Methylnaphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
2,4,5-Trichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
2,4,6-Trichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
2,4-Dichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
2,4-Dimethylphenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
2,4-Dinitrophenol	ND	mg/kg		1.7		SW8270C	09/22/05 17:53 / dsm
2,4-Dinitrotoluene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
2,6-Dinitrotoluene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
2-Chloronaphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
2-Chlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
2-Methylnaphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
2-Nitrophenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
3,3'-Dichlorobenzidine	ND	mg/kg		0.67		SW8270C	09/22/05 17:53 / dsm
4,6-Dinitro-2-methylphenol	ND	mg/kg		1.7		SW8270C	09/22/05 17:53 / dsm
4-Bromophenyl phenyl ether	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
4-Chloro-3-methylphenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
4-Chlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
4-Chlorophenyl phenyl ether	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
4-Nitrophenol	ND	mg/kg		1.7		SW8270C	09/22/05 17:53 / dsm
Acenaphthene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Acenaphthylene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Azobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Benzidine	ND	mg/kg		0.67		SW8270C	09/22/05 17:53 / dsm
Benzo(a)anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Benzo(a)pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Benzo(b)fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Benzo(g,h,i)perylene	0.044	mg/kg	J	0.33		SW8270C	09/22/05 17:53 / dsm
Benzo(k)fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
bis(-2-chloroethoxy)Methane	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
bis(-2-chloroethyl)Ether	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
bis(2-chloroisopropyl)Ether	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
bis(2-ethylhexyl)Phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Butylbenzylphthalate	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Chrysene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
QCL - Quality control limit. ND - Not detected at the reporting limit.
J - Estimated value. The analyte was present but less than the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque

Report Date: 09/23/05

Project:

Collection Date: 09/15/05 14:50

Lab ID: B05091262-005

Date Received: 09/20/05

Client Sample ID: RR-5A-91505, 0509181-5B

Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SEMI-VOLATILE ORGANIC COMPOUNDS							
Dibenzo(a,h)anthracene	0.040	mg/kg	J	0.33		SW8270C	09/22/05 17:53 / dsm
Diethyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Dimethyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Di-n-butyl phthalate	0.069	mg/kg	J	0.33		SW8270C	09/22/05 17:53 / dsm
Di-n-octyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Fluorene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Hexachlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Hexachlorobutadiene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Hexachlorocyclopentadiene	ND	mg/kg		0.67		SW8270C	09/22/05 17:53 / dsm
Hexachloroethane	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Indeno(1,2,3-cd)pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Isophorone	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
m+p-Cresols	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Naphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Nitrobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
n-Nitrosodimethylamine	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
n-Nitroso-di-n-propylamine	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
n-Nitrosodiphenylamine	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
o-Cresol	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Pentachlorophenol	ND	mg/kg		1.7		SW8270C	09/22/05 17:53 / dsm
Phenanthrene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Phenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Pyridine	ND	mg/kg		0.67		SW8270C	09/22/05 17:53 / dsm
Surr: 2,4,6-Tribromophenol	93.0	%REC			19-122	SW8270C	09/22/05 17:53 / dsm
Surr: 2-Fluorobiphenyl	80.7	%REC			30-115	SW8270C	09/22/05 17:53 / dsm
Surr: 2-Fluorophenol	85.0	%REC			25-121	SW8270C	09/22/05 17:53 / dsm
Surr: Nitrobenzene-d5	76.3	%REC			23-120	SW8270C	09/22/05 17:53 / dsm
Surr: Phenol-d5	81.0	%REC			24-113	SW8270C	09/22/05 17:53 / dsm
Surr: Terphenyl-d14	95.5	%REC			18-137	SW8270C	09/22/05 17:53 / dsm

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

J - Estimated value. The analyte was present but less than the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque
Project:
Lab ID: B05091262-006
Client Sample ID: RR-6A-91505, 0509181-6B

Report Date: 09/23/05
Collection Date: 09/15/05 14:55
Date Received: 09/20/05
Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL CHARACTERISTICS							
Moisture	11	wt%		0.01		SW3550A	09/22/05 13:32 / mwc
SEMI-VOLATILE ORGANIC COMPOUNDS							
1,2,4-Trichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
1,2-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
1,3-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
1,4-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
1-Methylnaphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
2,4,5-Trichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
2,4,6-Trichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
2,4-Dichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
2,4-Dimethylphenol	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
2,4-Dinitrophenol	ND	mg/kg		1.7		SW8270C	09/22/05 18:36 / dsm
2,4-Dinitrotoluene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
2,6-Dinitrotoluene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
2-Chloronaphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
2-Chlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
2-Methylnaphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
2-Nitrophenol	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
3,3'-Dichlorobenzidine	ND	mg/kg		0.67		SW8270C	09/22/05 18:36 / dsm
4,6-Dinitro-2-methylphenol	ND	mg/kg		1.7		SW8270C	09/22/05 18:36 / dsm
4-Bromophenyl phenyl ether	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
4-Chloro-3-methylphenol	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
4-Chlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
4-Chlorophenyl phenyl ether	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
4-Nitrophenol	ND	mg/kg		1.7		SW8270C	09/22/05 18:36 / dsm
Acenaphthene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Acenaphthylene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Azobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Benzidine	ND	mg/kg		0.67		SW8270C	09/22/05 18:36 / dsm
Benzo(a)anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Benzo(a)pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Benzo(b)fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Benzo(g,h,i)perylene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Benzo(k)fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
bis(-2-chloroethoxy)Methane	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
bis(-2-chloroethyl)Ether	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
bis(2-chloroisopropyl)Ether	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
bis(2-ethylhexyl)Phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Butylbenzylphthalate	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Chrysene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm

Report RL - Analyte reporting limit
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque
Project:
Lab ID: B05091262-006
Client Sample ID: RR-6A-91505, 0509181-6B

Report Date: 09/23/05
Collection Date: 09/15/05 14:55
Date Received: 09/20/05
Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SEMI-VOLATILE ORGANIC COMPOUNDS							
Dibenzo(a,h)anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Diethyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Dimethyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Di-n-butyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Di-n-octyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Fluorene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Hexachlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Hexachlorobutadiene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Hexachlorocyclopentadiene	ND	mg/kg		0.67		SW8270C	09/22/05 18:36 / dsm
Hexachloroethane	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Indeno(1,2,3-cd)pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Isophorone	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
m+p-Cresols	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Naphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Nitrobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
n-Nitrosodimethylamine	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
n-Nitroso-di-n-propylamine	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
n-Nitrosodiphenylamine	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
o-Cresol	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Pentachlorophenol	ND	mg/kg		1.7		SW8270C	09/22/05 18:36 / dsm
Phenanthrene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Phenol	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Pyridine	ND	mg/kg		0.67		SW8270C	09/22/05 18:36 / dsm
Surr: 2,4,6-Tribromophenol	93.0	%REC			19-122	SW8270C	09/22/05 18:36 / dsm
Surr: 2-Fluorobiphenyl	84.1	%REC			30-115	SW8270C	09/22/05 18:36 / dsm
Surr: 2-Fluorophenol	88.0	%REC			25-121	SW8270C	09/22/05 18:36 / dsm
Surr: Nitrobenzene-d5	79.5	%REC			23-120	SW8270C	09/22/05 18:36 / dsm
Surr: Phenol-d5	84.0	%REC			24-113	SW8270C	09/22/05 18:36 / dsm
Surr: Terphenyl-d14	95.5	%REC			18-137	SW8270C	09/22/05 18:36 / dsm

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque
Project:
Lab ID: B05091262-007
Client Sample ID: RR-7A-91505, 0509181-7B

Report Date: 09/23/05
Collection Date: 09/15/05 15:00
Date Received: 09/20/05
Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
PHYSICAL CHARACTERISTICS							
Moisture	10	wt%		0.01		SW3550A	09/22/05 13:32 / mwc
SEMI-VOLATILE ORGANIC COMPOUNDS							
1,2,4-Trichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
1,2-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
1,3-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
1,4-Dichlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
1-Methylnaphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
2,4,5-Trichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
2,4,6-Trichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
2,4-Dichlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
2,4-Dimethylphenol	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
2,4-Dinitrophenol	ND	mg/kg		1.7		SW8270C	09/22/05 19:19 / dsm
2,4-Dinitrotoluene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
2,6-Dinitrotoluene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
2-Chloronaphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
2-Chlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
2-Methylnaphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
2-Nitrophenol	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
3,3'-Dichlorobenzidine	ND	mg/kg		0.67		SW8270C	09/22/05 19:19 / dsm
4,6-Dinitro-2-methylphenol	ND	mg/kg		1.7		SW8270C	09/22/05 19:19 / dsm
4-Bromophenyl phenyl ether	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
4-Chloro-3-methylphenol	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
4-Chlorophenol	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
4-Chlorophenyl phenyl ether	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
4-Nitrophenol	ND	mg/kg		1.7		SW8270C	09/22/05 19:19 / dsm
Acenaphthene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Acenaphthylene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Azobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Benzidine	ND	mg/kg		0.67		SW8270C	09/22/05 19:19 / dsm
Benzo(a)anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Benzo(a)pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Benzo(b)fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Benzo(g,h,i)perylene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Benzo(k)fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
bis(-2-chloroethoxy)Methane	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
bis(-2-chloroethyl)Ether	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
bis(2-chloroisopropyl)Ether	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
bis(2-ethylhexyl)Phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Butylbenzylphthalate	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Chrysene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



ENERGY LABORATORIES, INC. * 1120 S 27th St * PO Box 30916 * Billings, MT 59107-0916
Toll Free 800.735.4489 * 406.252.6325 * FAX 406.252.6069 * ell@energylab.com

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque

Report Date: 09/23/05

Project:

Collection Date: 09/15/05 15:00

Lab ID: B05091262-007

Date Received: 09/20/05

Client Sample ID: RR-7A-91505, 0509181-7B

Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SEMI-VOLATILE ORGANIC COMPOUNDS							
Dibenzo(a,h)anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Diethyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Dimethyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Di-n-butyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Di-n-octyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Fluorene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Hexachlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Hexachlorobutadiene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Hexachlorocyclopentadiene	ND	mg/kg		0.67		SW8270C	09/22/05 19:19 / dsm
Hexachloroethane	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Indeno(1,2,3-cd)pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Isophorone	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
m+p-Cresols	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Naphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Nitrobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
n-Nitrosodimethylamine	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
n-Nitroso-di-n-propylamine	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
n-Nitrosodiphenylamine	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
o-Cresol	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Pentachlorophenol	ND	mg/kg		1.7		SW8270C	09/22/05 19:19 / dsm
Phenanthrene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Phenol	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Pyridine	ND	mg/kg		0.67		SW8270C	09/22/05 19:19 / dsm
Surr: 2,4,6-Tribromophenol	76.0	%REC			19-122	SW8270C	09/22/05 19:19 / dsm
Surr: 2-Fluorobiphenyl	73.3	%REC			30-115	SW8270C	09/22/05 19:19 / dsm
Surr: 2-Fluorophenol	74.0	%REC			25-121	SW8270C	09/22/05 19:19 / dsm
Surr: Nitrobenzene-d5	66.2	%REC			23-120	SW8270C	09/22/05 19:19 / dsm
Surr: Phenol-d5	70.0	%REC			24-113	SW8270C	09/22/05 19:19 / dsm
Surr: Terphenyl-d14	83.4	%REC			18-137	SW8270C	09/22/05 19:19 / dsm

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

Hall Environmental Analysis Laboratory

Date: 26-Sep-05

QC SUMMARY REPORT
Method Blank

CLIENT: Giant Refining Co
Work Order: 0509181
Project: RR Rock Lagoon Add. Exc. 9/15/05

Sample ID MB-8794 Batch ID: 8794 Test Code: SW8015 Units: mg/Kg Analysis Date 9/20/2005 8:51:53 PM Prep Date 9/20/2005
Client ID: Run ID: FID(17A)_050920A SeqNo: 402214

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	10.73	0	10	0	107	60	124	0			

Sample ID mb-8782 Batch ID: 8782 Test Code: SW8260B Units: mg/Kg Analysis Date 9/24/2005 Prep Date 9/19/2005
Client ID: Run ID: THOR_050923A SeqNo: 403371

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.05	0	0	0	0	0	0			
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	0.0457	0.05	0	0	0	0	0	0			J
Surr: 4-Bromofluorobenzene	0.6268	0	0.5	0	125	72.9	143	0			

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: 26-Sep-05

CLIENT: Giant Refining Co
 Work Order: 0509181
 Project: RR Rock Lagoon Add. Exc. 9/15/05

QC SUMMARY REPORT
 Sample Matrix Spike

Sample ID	0509181-03a msd	Batch ID: 8782	Test Code: SW8260B	Units: mg/Kg	Analysis Date	9/24/2005	Prep Date	9/19/2005			
Client ID:	RR-3A-91505	Run ID:	THOR_050923A	SeqNo:	403373						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.7619	0.05	1	0	76.2	78	126	0			S
Toluene	1.144	0.05	1	0	114	79.4	117	0			
Surr: 4-Bromofluorobenzene	0.5177	0	0.5	0	104	72.9	143	0			

Sample ID	0509181-03a msd	Batch ID: 8782	Test Code: SW8260B	Units: mg/Kg	Analysis Date	9/24/2005	Prep Date	9/19/2005			
Client ID:	RR-3A-91505	Run ID:	THOR_050923A	SeqNo:	403374						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.8462	0.05	1	0	84.6	78	126	0.7619	10.5	19	
Toluene	0.9524	0.05	1	0	95.2	79.4	117	1.144	18.3	0	
Surr: 4-Bromofluorobenzene	0.5191	0	0.5	0	104	72.9	143	0.5177	0.270	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-Sep-05

QC SUMMARY REPORT
Sample Matrix Spike

CLIENT: Giant Refining Co
Work Order: 0509181
Project: RR Rock Lagoon Add. Exc. 9/15/05

Sample ID	0509181-03a msd	Batch ID:	8782	Test Code:	SW8260B	Units:	mg/Kg	Analysis Date	9/24/2005	Prep Date	9/19/2005
Client ID:	RR-3A-91505	Run ID:	THOR_050923A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPDLimit
Analyte	Result	0.05	1	0	76.2	78	126	0	0	Qual	
Benzene	0.7619	0.05	1	0	76.2	78	126	0	0	S	
Toluene	1.144	0.05	1	0	114	79.4	117	0	0		
Surr: 4-Bromofluorobenzene	0.5177	0	0.5	0	104	72.9	143	0	0		

Sample ID	0509181-03a msd	Batch ID:	8782	Test Code:	SW8260B	Units:	mg/Kg	Analysis Date	9/24/2005	Prep Date	9/19/2005
Client ID:	RR-3A-91505	Run ID:	THOR_050923A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPDLimit
Analyte	Result	0.05	1	0	84.6	78	126	0.7619	19		
Benzene	0.8462	0.05	1	0	84.6	78	126	0.7619	19		
Toluene	0.9524	0.05	1	0	95.2	79.4	117	1.144	0		
Surr: 4-Bromofluorobenzene	0.5191	0	0.5	0	104	72.9	143	0.5177	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-Sep-05

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: Giant Refining Co
 Work Order: 0509181
 Project: RR Rock Lagoon Add. Exc. 9/15/05

Sample ID	Batch ID	Test Code	SW8015	Units: mg/Kg	Analysis Date	9/20/2005 9:24:58 PM	Prep Date	9/20/2005			
Client ID:	Run ID:	FID(17A) 2_050920A	SeqNo:	402215							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44.24	10	50	0	88.5	67.4	117	0			

Sample ID	Batch ID	Test Code	SW8015	Units: mg/Kg	Analysis Date	9/20/2005 9:58:02 PM	Prep Date	9/20/2005			
Client ID:	Run ID:	FID(17A) 2_050920A	SeqNo:	402216							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41.68	10	50	0	83.4	67.4	117	44.24	5.96	17.4	

Sample ID	Batch ID	Test Code	SW8260B	Units: mg/Kg	Analysis Date	9/24/2005	Prep Date	9/19/2005			
Client ID:	Run ID:	THOR_050923A	SeqNo:	403372							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.8492	0.05	1	0	84.9	78	126	0			
Toluene	1.034	0.05	1	0	103	79.4	117	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

CHAIN-OF-CUSTODY RECORD

Client: Saint Refining Company - Cimiga
Route 3 Box 87
 Gallup, NM 87301

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

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
					HgCl ₂	HNO ₃	
9/15/05	1430	Soil	RR-1A-91505				0509181
"	1435	"	RR-2A-91505				
"	1440	"	RR-3A-91505				
"	1445	"	RR-4A-91505				
"	1450	"	RR-5A-91505				
"	1455	"	RR-6A-91505				
"	1500	"	RR-7A-91505				

Date: 9/19/05 Time: 0845
 Relinquished By: (Signature) [Signature]
 Relinquished By: (Signature) [Signature]

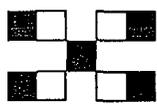
QA/QC Package:
 Std Level 4

Other: RR Rock Trough
Additional Excavation 9/15/05

Project Manager: [Blank]
 Sampler: 40
 Sample Temperature: 40

Received By: (Signature) [Signature]
 Received By: (Signature) [Signature]

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



ANALYSIS REQUEST

BTEX + MTBE + TMB's (B021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Desell)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PMA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)	B081 Pesticides / PCB's (B082)	B2608 (VOA)	B270 (Semi-VOA)	8021-BTEX	Air Bubbles or Headspace (Y or N)
		X									X	X	
		X									X	X	
		X									X	X	
		X									X	X	
		X									X	X	
		X									X	X	
		X									X	X	

Remarks: RUSH 5 DAY

From: James Romero [jromero@giant.com] **Sent:** Mon 9/26/2005 4:01 PM
To: Chavez, Carl J, EMNRD; James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance
Attachments:

Carl:

Since the permeability tests needs to be completed before the sample loses any moisture, how and where would OCD like us to handle their soil sample? Wayne mentioned for us to hold the sample until his next visit, however, at that point the sample may not be valid for permeability testing. Let us know if you want us to rush the sample to your office or lab.

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

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Monday, September 26, 2005 1:57 PM
To: James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Mr. Price may have misunderstood your request for a depth of clay sample to conduct a permeability test for hydraulic conductivity. Based on your note, it appears that clay is present from surface to a significant depth below the FWP. For clarification, the depth of the permeability sample requested should be commensurate to 3 feet beneath the bottom of the FWP. OCD requested that the boring be cored and logged to at least 15 feet to document the consistency of clay lithology at the FWP.

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Please contact me if you have questions. Thanks.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/>
(Pollution Prevention Guidance is under "Publications")

From: James Romero [mailto:jromero@giant.com]
Sent: Monday, September 26, 2005 1:16 PM
To: Chavez, Carl J, EMNRD; James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

Carl:

I wanted to clarify the depths of clay for everyone. The 23-28' clay layer discussed with Wayne was in regards to his clay sample which he requested during your visit. We needed to know at what depth to take his sample.

According to Bill, the clay layer is 23.5' thick (surface to top of Chinle formation) with the Sonsela at 98.2'. We'll forward the boring logs when they are completed by Precision Engineering. Also, you stated OCD had a concern the RO water does not meet WQCC standards. We had the RO water lab tested on August 24, 2005 and the results were ND. OCD and NMED were sent copies of these results via our August 31, 2005 letter. If you need me to forward the lab analysis to you let me know and I will get you a copy. Given this should we proceed with developing

leak detection?

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

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Monday, September 26, 2005 10:59 AM
To: James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Re: Proposed Fire Water Pond (FWP)

Good morning. As I recall from our September 8, 2005 meeting (meeting), Mr. Wayne Price of the Oil Conservation Division (OCD) had suggested a specification for the liner; however, the OCD expectation is that Ciniza will justify and reference any technical specifications proposed for the construction of the FWP. Due to the nature of the RO water, OCD is concerned that it does not meet WQCC standards; thus, justifying the need for leak detection. At the time of the meeting, OCD had viewed the substrate beneath the Ciniza Refinery to be clay of low permeability. However, during today's telephone conversation with Mr. Price, you indicated that the top of clay is present at a depth of about 28 feet below the recently drilled test boring ground elevation near the FWP. OCD needs to view the boring log to confirm your verbal indication that the clay is in fact present at a significant depth below the FWP. If it is confirmed, then OCD will require a double liner w/ leak detection design (please refer to OCD's pit guidance for general construction configurations). A double liner system should also help to prevent any mounding effect(s) from recharge and infiltration from FWP water to the water table. Mounding may alter the direction of groundwater flow relative to the existing groundwater monitoring system? Please send OCD and the New Mexico Environment Department (NMED), Hazardous Waste Bureau a copy of the boring log.

From the meeting, OCD agreed to provide some surface impoundment or general guidance (see attachment) to assist Ciniza with the construction of the FWP. I notice that the only OCD guidance available is "OCD Pit and Below-Grade Tank Guidelines (Nov. 1, 2004)." There is also reference to SW-870 Guidance in the attachment, which may also provide useful ideas to Ciniza for selecting and keying in the liners with a leak detection system. There is also permeability test references to assist with the boring permeability test requested near the FWP.

I hope this helps. Please contact me if you have questions. We look forward to viewing the boring log to confirm the depth of clay near the FWP. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
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Sent: Monday, September 26, 2005 9:39 AM
To: Chavez, Carl J, EMNRD
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

Carl,

Thanks for the information, I'm in the process of estimating costs for the new pond. Can you let me know what mil of liner OCD will be ok with?

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

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Wednesday, September 21, 2005 12:03 PM
To: James Romero
Cc: smorris@giant.com; Eriega@giant.com; Price, Wayne, EMNRD

Subject: RE: Ciniz refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Good afternoon. I believe Giant was requesting guidance for pit construction for the proposed Fire Water Pit and liner (see attachment with hyper links to OCD Pit guidance). Also, there is a OCD specified permeability test to be run on the boring near the proposed Fire Water Pit. I hope this helps. Please contact me if you have questions. Thanks.

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From: James Romero [<mailto:jromero@giant.com>]
Sent: Friday, September 16, 2005 2:27 PM
To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV;
foust.denny@state.nm.us; Chavez, Carl J, EMNRD; cobrain.david@state.nm.us
Cc: Steve Morris; Johnny Sanchez
Subject: RE: Spill Report

Attached are photos showing the piping from the storm water basin and the new butterfly valves

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

From: Price, Wayne, EMNRD [<mailto:wayne.price@state.nm.us>]
Sent: Friday, September 09, 2005 2:33 PM
To: James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us;
Chavez, Carl J, EMNRD; cobrain.david@state.nm.us
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

Thanks James for you quick response.

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 2:38 PM
To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV;
foust.denny@state.nm.us; Chavez, Carl J, EMNRD;
'cobrain.david@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

Wayne

Give me a call when your free I'd like discuss the action items from yesterdays inspection: We have issued high priority work orders to install butterfly valves on our storm water outfalls,

remove soil compacted from diesel spill to land farm, and pump out water from RR lagoon. These work orders will be completed today. Also, below are other items we discussed during your inspection

- (1) The diesel spill (the 25 cubic yard of soil) was reported to your office on 7/20/05 by Steve Morris which reported a release of 630 gallons of diesel.
- (2) We have taken samples from the old API separator and will rush the analysis
- (3) We have taken Hope's weekly sample, added MTBE, and will also be rushed
- (4) We purchased and rushed ordered boom to install in pond 2
- (4) We have began discussions with Precision regarding new wells
- (5) We believe we have found the source of oil entering the old api. We are 90% sure of the location but will need more time to make a definitive conclusion

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From: Chavez, Carl J, EMNRD
To: James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance
Attachments:

Sent: Mon 9/26/2005 4:28 PM

James:

It is your responsibility to run the permeability test and OCD wanted a sample for visual observation only. Perhaps a wide mouth sar would suffice. Acceptable OCD permeability test methods are provided below.

ASTM D-3385 Infiltrometer Method

Field Permeability Test

EM-1110-2-1906
Appendix VII Permeability Test

Corps of Engineers Manual: Laboratory Permeability Test

Regarding leak detection systems, Section F of OCD's Pit Guidance is provided below and may provide some ideas for Ciniza's leak detection system.

F. PIT LEAK DETECTION SYSTEMS

1. Leak detection systems may consist of fail-safe electric detection systems or drainage and collection systems.
2. If an electric grid detection system is used, provision must be made for adequately testing all components to ensure the system remains functional.
3. If a drainage and collection system is used, a network of slotted or perforated drainage pipes will be installed between the primary and secondary liners. The network must be of sufficient density so that no point in the pit bed is more than twenty feet (20') from such drainage pipe or lateral thereof. The material placed between the pipes and laterals must be sufficiently permeable to allow transport of the fluids to the drainage pipe. The slope for all drainage lines and laterals will be at least 12 inches (12") per hundred feet (100'). The slope of the pit bed must also conform to values to assure fluid flow towards the leak detection system. The drainage pipe will convey liquids to a corrosion-proof collection system located outside the perimeter of the pit (see Figure 2).
4. Double lined disposal and storage pits constructed with synthetic liners shall be designed to allow slippage between the primary and secondary liner as the weight of fluid in the pit causes movement in the primary liner.

If the permeability test confirms clay of adequately low permeability, the low permeability clay will suffice as the secondary containment barrier with the leak detection system designed above it followed by the liner. For diagrams on keying or positioning the liner, vent stack design, go to <http://www.emnrd.state.nm.us/ocd/> and click on "Publications" and "Environmental Handbook" to view pit design diagrams.

Also, there was some guidance in the spreadsheet sent to you that you may be able to locate via Google below:

SW-870 Lining of Waste Impoundment Facilities Vent designs

I hope this helps. Thanks.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/>
(Pollution Prevention Guidance is under "Publications")

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Sent: Monday, September 26, 2005 4:02 PM
To: Chavez, Carl J, EMNRD; James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

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Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris

Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

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Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

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Sent: Monday, September 26, 2005 10:59 AM

To: James Romero

Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV

Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Re: Proposed Fire Water Pond (FWP)

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I hope this helps. Please contact me if you have questions. We look forward to viewing the boring log to confirm the depth of clay near the FWP. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
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Office: (505) 476-3491
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Carl,

Thanks for the information, I'm in the process of estimating costs for the new pond. Can you let me know what mil of liner OCD will be ok with?

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Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505

Office: (505) 476-3491
Fax: (505) 476-3462
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Cc: Steve Morris; Johnny Sanchez
Subject: RE: Spill Report

Attached are photos showing the piping from the storm water basin and the new butterfly valves

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

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Sent: Friday, September 09, 2005 2:33 PM
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Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

Thanks James for you quick response.

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

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Wayne

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Price, Wayne, EMNRD

From: Chavez, Carl J, EMNRD
To: James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance
Attachments:

Sent: Mon 9/26/2005 2:57 PM

James:

Mr. Price may have misunderstood your request for a depth of clay sample to conduct a permeability test for hydraulic conductivity. Based on your note, it appears that clay is present from surface to a significant depth below the FWP. For clarification, the depth of the permeability sample requested should be commensurate to 3 feet beneath the bottom of the FWP. OCD requested that the boring be cored and logged to at least 15 feet to document the consistency of clay lithology at the FWP.

Regarding the RO reject water, OCD knows that the quality (general chemistry/inorganic parameters) of the RO reject water will not be **constant** during normal operations. OCD is puzzled by the low chloride concentration in Ciniza's RO reject water analytical data, since elevated levels would be expected during the regeneration of the water softeners. OCD has determined that elevated chloride levels from the water softener will be present in the RO reject water during normal refinery operations. In addition, the WQCC Standard for Sulfate is 600 ppm, and RO reject water analytical data showed a concentration at 2,500 ppm. Consequently, a leak detection system is required.

Please contact me if you have questions. Thanks.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/>
(Pollution Prevention Guidance is under "Publications")

From: James Romero [<mailto:jromero@giant.com>]
Sent: Monday, September 26, 2005 1:16 PM
To: Chavez, Carl J, EMNRD; James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

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To: James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

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Re: Proposed Fire Water Pond (FWP)

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I hope this helps. Please contact me if you have questions. We look forward to viewing the boring log to confirm the depth of clay near the FWP. Thank you.

Carl J. Chavez, CHMM
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To: James Romero
Cc: smorris@giant.com; Eriege@giant.com; Price, Wayne, EMNRD
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Cc: Steve Morris; Johnny Sanchez
Subject: RE: Spill Report

Attached are photos showing the piping from the storm water basin and the new butterfly valves

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From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us]
Sent: Friday, September 09, 2005 2:33 PM
To: James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; cobrain.david@state.nm.us
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

Thanks James for you quick response.

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
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Price, Wayne, EMNRD

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Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance
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Price, Wayne, EMNRD

From: Chavez, Carl J, EMNRD
To: James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance
Attachments: Pits.xls(23KB)

Sent: Mon 9/26/2005 11:58 AM

James:

Re: Proposed Fire Water Pond (FWP)

Good morning. As I recall from our September 8, 2005 meeting (meeting), Mr. Wayne Price of the Oil Conservation Division (OCD) had suggested a specification for the liner; however, the OCD expectation is that Ciniza will justify and reference any technical specifications proposed for the construction of the FWP. Due to the nature of the RO water, OCD is concerned that it does not meet WQCC standards; thus, justifying the need for leak detection. At the time of the meeting, OCD had viewed the substrate beneath the Ciniza Refinery to be clay of low permeability. However, during today's telephone conversation with Mr. Price, you indicated that the top of clay is present at a depth of about 28 feet below the recently drilled test boring ground elevation near the FWP. OCD needs to view the boring log to confirm your verbal indication that the clay is in fact present at a significant depth below the FWP. If it is confirmed, then OCD will require a double liner w/ leak detection design (please refer to OCD's pit guidance for general construction configurations). A double liner system should also help to prevent any mounding effect(s) from recharge and infiltration from FWP water to the water table. Mounding may alter the direction of groundwater flow relative to the existing groundwater monitoring system? Please send OCD and the New Mexico Environment Department (NMED), Hazardous Waste Bureau a copy of the boring log.

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I hope this helps. Please contact me if you have questions. We look forward to viewing the boring log to confirm the depth of clay near the FWP. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/>
(Pollution Prevention Guidance is under "Publications")

From: James Romero [mailto:jromero@giant.com]
Sent: Monday, September 26, 2005 9:39 AM
To: Chavez, Carl J, EMNRD
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

Carl,

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Subject: RE: Spill Report

Thanks James for you quick response.

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

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Price, Wayne, EMNRD

From: Monzeglio, Hope, NMENV **Sent:** Mon 9/26/2005 10:27 AM
To: James Romero; Foust, Denny, EMNRD; Price, Wayne, EMNRD; eriege@giant.com
Cc: Cobrain, Dave, NMENV
Subject: RE: New Monitoring well GWM 2
Attachments:

James

NMED approves the location of GWM-2. Giant must indicate how far below the base of the evaporation ponds GWM-2 was drilled (and GWM-3 upon completion). Giant must submit a revised map providing the new location of GWM-2. Upon completion of GWM-2 and GWM-3, these wells must be checked for fluids on a monthly basis until the new year 2006 and can then be incorporated into the groundwater monitoring plan.

If you have questions please contact me.

Hope Monzeglio

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: James Romero [mailto:jromero@giant.com]
Sent: Mon 9/26/2005 9:27 AM
To: Monzeglio, Hope, NMENV; Foust, Denny, EMNRD; Price, Wayne, EMNRD
Subject: New Monitoring well GWM 2

Hi folks,

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Price, Wayne, EMNRD

From: Chavez, Carl J, EMNRD
To: Price, Wayne, EMNRD
Cc:
Subject: FW: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance
Attachments:

Sent: Mon 9/26/2005 10:11 AM

Wayne:

FYI.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
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You forwarded this message on 9/26/2005 2:19 PM.

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Price, Wayne, EMNRD

From: James Romero [jromero@giant.com]
To: Monzeglio, Hope, NMENV; Foust, Denny, EMNRD; Price, Wayne, EMNRD
Cc:
Subject: New Monitoring well GWM 2
Attachments:  [Picture 042.jpg\(1MB\)](#)

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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Monday, September 26, 2005 2:57 PM
To: 'James Romero'
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Mr. Price may have misunderstood your request for a depth of clay sample to conduct a permeability test for hydraulic conductivity. Based on your note, it appears that clay is present from surface to a significant depth below the FWP. For clarification, the depth of the permeability sample requested should be commensurate to 3 feet beneath the bottom of the FWP. OCD requested that the boring be cored and logged to at least 15 feet to document the consistency of clay lithology at the FWP.

Regarding the RO reject water, OCD knows that the quality (general chemistry/inorganic parameters) of the RO reject water will not be **constant** during normal operations. OCD is puzzled by the low chloride concentration in Ciniza's RO reject water analytical data, since elevated levels would be expected during the regeneration of the water softeners. OCD has determined that elevated chloride levels from the water softener will be present in the RO reject water during normal refinery operations. In addition, the WQCC Standard for Sulfate is 600 ppm, and RO reject water analytical data showed a concentration at 2,500 ppm. Consequently, a leak detection system is required.

Please contact me if you have questions. Thanks.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
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Chavez, Carl J, EMNRD

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Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV
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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 2:38 PM
To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; 'cobrain.david@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

Wayne

Give me a call when your free I'd like discuss the action items from yesterdays inspection: We have issued high priority work orders to install butterfly valves on our storm water outfalls, remove soil impacted from diesel spill to land farm, and pump out water from RR lagoon. These work orders will be completed today. Also, below are other items we discussed during your inspection

- (1) The diesel spill (the 25 cubic yard of soil) was reported to your office on 7/20/05 by Steve Morris which reported a release of 630 gallons of diesel.
- (2) We have taken samples from the old API separator and will rush the analysis
- (3) We have taken Hope's weekly sample, added MTBE, and will also be rushed
- (4) We purchased and rushed ordered boom to install in pond 2
- (4) We have began discussions with Precision regarding new wells
- (5) We believe we have found the source of oil entering the old api. We are 90% sure of the location but will need more time to make a definitive conclusion

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ID	Description
<u>19.15.2.50 NMAC</u>	Title 19 Natural Resources & Wildlife; Chpt. 15 (Oil & Gas); Part 2 (Gen. Operating Practices, Wastes Arising from Exploration & Production); Section 50 (Pits & Below Grade Tanks)
ASTM D-3385	Infiltrometer Method
ASTM D-698	Standard Proctor Density
EM-1110-2-1906	Permeability Test
Appendix VII	
EPA Method	Liner Compatibility
9090A	
Form C-101	
Form C-103	
Form C-144	
Pit	<u>OCD Pit & Below-Grade Tank Guidelines</u>
SW-870	Lining of Waste Impoundment Facilities
TDS	Total Dissolved Solids

Explanation

To obtain a permit for a pit or below-grade tank or to close a pit or below-grade tank an operator must either follow guidelines or obtain OCD approval for an alternate method. The alternate method must meet the requirements of this rule.

Field Permeability Test

Corps of Engineers Manual: Laboratory Permeability Test

Compatibility Test for Wastes and Membrane Liners

Nov. 1, 2004

Vent designs

NM State Engineer has designated fresh water as all surface waters and GW containing 10,000 mg/L or less of TDS for which there is a reasonably foreseeable beneficial use. The term "reasonably foreseeable" is generally taken to mean a time period of not less than 200 years into the future, but could be thousands of years.

September 20, 2005

Mr. James Romero
Giant Refining Company
Ciniza Refinery
Route 3, Box 7
Gallup, New Mexico 87301

Re: Installation Procedures for GMW-2 and GMW-3
Ciniza, New Mexico

James,

Following are the proposed tasks for the installation of GMW-2 and 3. We have also included a section concerning the sampling and drilling of the boring in or near the proposed Fire Water Lagoon.

GMW-2 and GMW-3

Task I: Each well will be installed using auger drilling techniques. The boring will be advanced using 8-5/8 OD continuous flight hollow stemmed auger. As the auger is advanced the boring will be sampled continuously to the full depth using five (5) foot static split barreled continuously intruded auger samplers. The borings will be logged on site and the core will be photographed and discarded. It is understood that the well is to be terminated and completed above the alluvial sands encountered at the interface of the Chinle Group (likely Petrified Forest Formation). It is estimated that the borings will be on the order of twenty feet in total depth. If the sandy layer is encountered the boring will be abandoned and a new boring well will be advanced to the appropriate depth and a well installed. Abandonment will be performed by injecting bentonite/cement slurry at the bottom of the boring and continuously pumped until it flows onto the ground surface.

Task II: The two (2) borings will be converted to groundwater monitoring wells. Two (2) inch monitoring wells will then be installed. The construction of the wells will consist of placing fifteen (15) feet of number ten (10) slot schedule 40 PVC screen. The screen will be machine slotted. The well solid casing will be flush joint schedule 40 PVC riser. The riser will be extended to the surface and completed as an above ground mount as required. The screen will be sand packed using 10-20 sand. The sand will be environmental quality silica sand graded for uniformity and washed for a dust free product. The sanded portion of the wells will extend to a point two (2) feet above the top of the screen. This amount may be decreased if the top of the screen is within five (5) feet of the ground surface. Sand will be tremmied through the hollow stemmed auger as it is withdrawn from the boring. A two (2) foot bentonite plug will be placed on top of the sand pack. The plug will be placed as a three eighths (3/8) inch chip bentonite and hydrated to provide a dense, impermeable layer with high wall pressure to minimize annular seepage. It is not anticipated the borings will be fluid filled, therefore, it is planned that the bentonite chips will be artificially

hydrated. The boring will then be backfilled with a portland cement/ bentonite slurry to the surface. The well surface finish will include a lockable steel protective vault covering the thirty (30) inch casing extension for the above ground finish. Precision Engineering, Inc. will not provide locks for the project, but, is willing to provide locks at additional cost if they are required. Lockable casing plugs will be provided. The surface vault will be placed in a surface concrete pad. The wells will then be finished with a four foot square concrete pad that tapers away from the steel vault to a minimum thickness of four (4) inches at the edges.

Fire Water Storage Lagoon

Task 1: A determination of the actual location of the proposed boring will be made. If possible the boring will be advanced on the lagoon floor. If access into the lagoon cannot be made without cutting a road, a suitable boring location will be identified adjacent to the lagoon. The boring will be advanced using 8- $\frac{3}{8}$ inch OD continuous flight hollow stemmed auger. The boring will be continuously sampled from the ground surface through the total depth of the boring. The boring will be advanced until contact is made with the Sonsela Member of the Petrified Forest Formation within the Chinle Group. Upon identification of the Sonsela Sandstone the boring will be terminated. Logging of the boring will be performed by William H. Kingsley. Because the boring will contact the Sonsela, a bentonite/cement slurry will be used to backfill the boring throughout its entire depth.

Task II: Samples taken from the upper fifteen (15) feet of the boring will be tested for vertical hydraulic conductivity. This thickness is approximate. If the boring is drilled outside the limits of the lagoon samples will be taken of materials representative of those cut by the side slope as well as those below the bottom of the lagoon floor. Some variation in the depth of the sample should therefore be anticipated. Sample depths for testing will be verified with the client prior to testing.

Should you have any questions or comments on the scope or proposed techniques used for the projects described above please contact our office.

Sincerely,
Precision Engineering, Inc.

William H. Kingsley, PE

 You forwarded this message on 9/26/2005 2:21 PM.

Attachments can contain viruses that may harm your computer. Attachments may not display correctly.

Price, Wayne, EMNRD

From: James Romero [jromero@giant.com] **Sent:** Tue 9/20/2005 11:40 AM
To: Monzeglio, Hope, NMENV; Price, Wayne, EMNRD; Foust, Denny, EMNRD; Cobrain, Dave, NMENV; Price, Wayne, EMNRD
Cc: Steve Morris; Ed Riege; Johnny Sanchez
Subject: Proposal for new monitoring wells (GWM-2 and GWM-3)
Attachments:  gmw2and3locations.pdf(26KB)  cinizagmwells.DOC(45KB)

Per our conference call, we are submitting the following installation Procedures for GMW-2 and GMW-3 which was prepared by Precision Engineering. As we discussed, and with your approval, we'd like to begin drilling the week of September 26, 2005. Moreover, in addition to the procedures, you'll find a map which depicts the new well locations. Giant would like to formally request your review and approval of these plans. If there is any additional information you need or questions call Steve Morris at 505-722-3258. I'll be in training this week, however, I will be checking email.

<<gmw2and3locations.pdf>> <<cinizagmwells.DOC>>

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From: James Romero [jromero@giant.com]

Sent: Tue 9/20/2005 11:21 AM

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

Cc: Steve Morris; Ed Riege; Johnny Sanchez

Subject: RE: Sampling EP-1 to AL2

Attachments:

Hope,

Lab Analysis from AP2 to EP1- we have the following sample dates:

Aug 12, 2005
Aug 23, 2005
Aug 30, 2005
Sept 9, 2005 -
Sept 12, 2005
Sept 21, 2005*

*upcoming sampling date

We have lab results up thru Sept 9, 2005 with lab results for Sept 12 expected next week. With your approval I'd like to recommend we wait until we receive the Sept 12 results (that will give you a months data). At which point, Giant will formally request a modification to the sampling schedule. I'll also forward all the lab results to NMED and OCD.

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

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]

Sent: Tuesday, September 20, 2005 10:03 AM

To: jromero@giant.com

Subject: Sampling EP-1 to AL2

James

As we mentioned in the conference call to email or fax the analytical results for EP1 to AL2 and we will get back to you. I only have results for 8/23 and 8/30. If you have sent more please let me know.

Thanks Hope

You can get this to me next week when you get back from training.

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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Price, Wayne, EMNRD

From: James Romero [jromero@glant.com]
To: James Romero; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD; Cobrain, Dave, NMENV
Cc: Ed Riege; Steve Morris; Johnny Sanchez
Subject: RE: Weekly Reporting (Week Two)
Attachments:

Sent: Tue 9/20/2005 11:06 AM

The following is a summary of week two:

- 1) Riley is continuing work on aeration lagoon 2
 - Between 9/13/05 - 9/19/05 36 trucks of oily wastewater were removed from aeration lagoon 2
 - Loads from the 55,000bbl tanks = 7/200bbl loads of sludge removed from tank and returned to process
 - 30 truck loads of water removed
- 2) The wastewater line from the Pilot travel center failed causing a spill which was reported to OCD. During this time, all wastewater from Pilot was diverted into pond 9. The pipe was fixed on 9/16 and flow was returned to lagoon 1. However, on 9/17 the pipe failed again which and repaired on 9/17. Again, flow was diverted into pond 9 until the repair was made. This was reported to OCD via telephone 9/19. Moreover, a new valve was installed at the Pilot diversion where flows are diverted into pond 9 or aeration lagoon.
- 3) The new chopper pump should arrive this week, however, a new control valve is needed which could delay installation by 4-6 weeks.
- 4) Weekly lab results were received for the week of 9/5/05 (sampling date 9/9/05) Benzene=ND, Toluene=ND, Ethylbenzene=ND, Xylenes Total= 20ppb
 - A complete report/lab results will be forward to OCD and NMED. Other weekly sampling dates are 9/12/05 and 9/21/05
- 5) A conference call was held between OCD, NMED, Precision Engineering, and Giant to discuss the installation of two new monitoring wells and one boring. A report will be sent to OCD and NMED asking for concurrence of our plan prior to drilling.
- 6) Excavation on the RR Lagoon was completed and additional soil samples were taken (lab results expected next week)

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

From: James Romero
Sent: Thursday, September 15, 2005 1:33 PM
To: 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'DFOUST@state.nm.us'; 'carlj.chavez@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez
Subject: RE: Weekly Reporting (Week One)

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 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 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

-----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 conclusion 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]
To: Monzeglio, Hope, NMENV; James Romero; Ed Riege
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV
Subject: RE: Evaporation Pond wells
Attachments:

Sent: Mon 9/19/2005 12:54 PM

Hope, prior to our letter lets plan on discussing the details with Bill Kingsley via conference call. Let me check his schedule and get back to you with a cpl of dates/times

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

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Monday, September 19, 2005 11:35 AM
To: jromero@giant.com; eriege@giant.com
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV
Subject: Evaporation Pond wells

James

I am following up on your voice message about the well installation for wells around the evaporation ponds. Prior to installing the wells please submit a letter that describes the proposed well installation activities, specifics of the proposed well installation, include the proposed well design and a map indicating the monitoring well locations.

If you would like to set up a conference call with NMED and the consultant installing the wells (from your voice message appears to be Bill Kingsley) to discuss the well installations please let me know.

Thanks

Hope

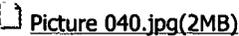
Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 428-2545
Fax: (505)-428-2567
hope.monzeglio@state.nm.us

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Price, Wayne, EMNRD

From: James Romero [jromero@giant.com] **Sent:** Fri 9/16/2005 2:27 PM
To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; cobrain.david@state.nm.us
Cc: Steve Morris; Johnny Sanchez
Subject: RE: Spill Report
Attachments:  Picture 039.jpg(2MB)  Picture 040.jpg(2MB)

Attached are photos showing the piping from the storm water basin and the new butterfly valves

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

From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us]
Sent: Friday, September 09, 2005 2:33 PM
To: James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; cobrain.david@state.nm.us
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

Thanks James for you quick response.

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 2:38 PM
To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; 'cobrain.david@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

Wayne

Give me a call when your free I'd like discuss the action items from yesterdays inspection: We have issued high priority work orders to install butterfly valves on our storm water outfalls, remove soil impacted from diesel spill to land farm, and pump out water from RR lagoon. These work orders will be completed today. Also, below are other items we discussed during your inspection

- (1) The diesel spill (the 25 cubic yard of soil) was reported to your office on 7/20/05 by Steve Morris which reported a release of 630 gallons of diesel.
- (2) We have taken samples from the old API separator and will rush the analysis
- (3) We have taken Hope's weekly sample, added MTBE, and will also be rushed
- (4) We purchased and rushed ordered boom to install in pond 2
- (4) We have began discussions with Precision regarding new wells
- (5) We believe we have found the source of oil entering the old api. We are 90% sure of the location but will need more time to make a definitive conclusion

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Price, Wayne, EMNRD

From: James Romero [jromero@giant.com]
To: Monzeglio, Hope, NMENV; Foust, Denny, EMNRD; Price, Wayne, EMNRD
Cc: James Romero; Steve Morris
Subject: RE: Spill sampling (Week three Summary)
Attachments:

Sent: Fri 9/16/2005 11:55 AM

Hope

We have not received the lab analysis from last weeks sampling (Aeration 2 into Evap Pond 1). We should have the results next week at which time I'll forward them your way. Also, I did not send a summary for week two because I handed you the lab result during your inspection.

[James Romero]

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

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Thursday, September 01, 2005 11:49 AM
To: James Romero
Subject: RE: Spill sampling (Week One Summary)

James

The electronic version you emailed should be good. 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
hope.monzeglio@state.nm.us

From: James Romero [mailto:jromero@giant.com]
Sent: Thu 9/1/2005 11:50 AM
To: Monzeglio, Hope, NMENV
Subject: RE: Spill sampling (Week One Summary)

Hope

I just received a complete electronic version of the lab results (see attached). Let me know if your do not receive it and I'll fax a copy over. Also, our second sample will test for priority metals (total and dissolved) not RCRA metals.

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

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Thursday, September 01, 2005 10:33 AM
To: jromero@giant.com
Subject: Spill sampling (Week One Summary)

James

Can you fax the full report of the analytical laboratory results including the chain of custody for AL-2 to EP-1 dated "31-Aug-05." Our fax number is 505-428-2567, att: Hope Monzeglio. Please note NMED required priority pollutant metals (13 metals) not RCRA metals. Please analyze the next effluent sample from aeration lagoon 2 for priority pollutant metals (total and dissolved). The 13 metals include antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc.

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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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

The following is a summary of week two:

- 1) Riley is continuing work on aeration lagoon 2
 - Between 9/13/05 - 9/19/05 36 trucks of oily wastewater were removed from aeration lagoon 2
 - Loads from the 55,000bbl tanks = 7/200bbl loads of sludge removed from tank and returned to process
 - 30 truck loads of water removed
 - 2) The wastewater line from the Pilot travel center failed causing a spill which was reported to OCD. Duration from Pilot was diverted into pond 9. The pipe was fixed on 9/16 and flow was returned to lagoon 1. However, it was again which and repaired on 9/17. Again, flow was diverted into pond 9 until the repair was made. This was reported via telephone 9/19. Moreover, a new valve was installed at the Pilot diversion where flows are diverted into pond 9.
 - 3) The new chopper pump should arrive this week, however, a new control valve is needed which could be installed by 9/20/05.
 - 4) Weekly lab results were received for the week of 9/5/05 (sampling date 9/9/05) Benzene=ND, Toluene=ND, Xylenes Total= 20ppb
- A complete report/lab results will be forward to OCD and NMED. Other weekly sampling dates are 9/19/05 and 9/26/05.
- 5) A conference call was held between OCD, NMED, Precision Engineering, and Giant to discuss the insulations on the RR Lagoon. A report will be sent to OCD and NMED asking for concurrence of our plan price.
 - 6) Excavation on the RR Lagoon was completed and additional soil samples were taken (lab results expected 9/26/05)

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

From: James Romero
Sent: Thursday, September 15, 2005 1:33 PM
To: 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'DFOUST@state.nm.us'; 'carlj.chavez@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez
Subject: RE: Weekly Reporting (Week One)

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 team identified the source of the oil was the FCC unit storm drain. We've ordered absorbents to place in the storm drain.
- 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 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. Fushie is onsite today excavating additional soil contamination. Also, they will back fill the area near the railroad due to concerns about stability of the RR Lagoon.
- 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 9/14/05
- 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

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
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 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 reintr
- 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 befca 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 requests have been submitted to purchasing
- 5) Maintenance work on API bay east bay is underway to repair sludge
- 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 tanks and 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 8/30/05)

Daily update for 8/30/05

- 1) New techniques were used today in an effort to suck more oil
- 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 reintroduction process
- 4) Conducted our second weekly grab sample per NMED (test results 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 8/29/05)

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 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 ponds 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)

Attached is a spreadsheet showing our daily truck counts. Moreover, all operations to clean the ponds are making progress. Continued visual inspections during nighttime hours have not documented any new spill API.

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

From: James Romero
Sent: Thursday, August 18, 2005 3:17 PM
To: 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us'
Cc: Ed Riege; Steve Morris; James Romero

Subject: RE: Spill Report (daily update for

Daily update for 8/18/05

- 1) Riley started operations to clean ponds, 4000 barrels were removed today
- 2) Visual inspections thru the night were all
- 3) Started release of water from lower storr
- 4) Completed spill/remediation plan (shoulc Friday)

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

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

OCD hereby approves of your req

Please be advised that NMOCD a this request does not relieve (Giar responsibility should their operati adequately investigate and remed contamination that pose a threat t water, surface water, human healt environment. In addition, NMOC approval does not relieve (Giant) responsibility for compliance with other federal, state, or local laws : regulations.

Wayne Price-Senior Environmental I
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; Sanchez; David Kirby
Subject: RE: Spill Report (daily upd 8/17/05)

Wayne, Hope:

Per OCD's condition here is our daily

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

Benzene	ND
EthylBen	ND
Toluene	.35ppl

Xylene 2.1ppb

With these test results, and due to the lower storm water basin is at capacity your approval to release water off property.

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

3) The outlet to the upper storm water 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 property shall cease, unless approved by OCD.
2. No stormwater shall be released that exceeds the WC standards.
3. The emergency actions shall be continuous (24 hour) until the problem is corrected.
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 the operations fail to adequately investigate and remediate contamination that poses 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 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 (see below). I will follow up to you via email with a formal C-141 spill report.

Moreover, I will submit pics, li
results, and
a site map, etc.

However, as an interim meas
and with your approval, we ar
taking the
following actions:

(1) Vac-trucks will be used to
pump and clean out the aerat
lagoons/API
sump

(2) Interim emergency storag
material within two 55,000 ba
tanks
located on western part of the
property (map will follow harc
copy).

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

LAB RESULTS

Lagoon 2	Evap Pon
MTBE	88 p
60 ppb	
Benzene	306 ppb
1000 ppb	
Toluene	8.7
76 ppb	
Ethylbenzene	<
ppb	<10.0 ppb

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

Wayne, Hope:

Per OCD's condition here is o

1) We just received the lab re
telephone) on Storm water Ou

Benzene
EthylBen
Toluene
Xylene

With these tests results, and c
lower storm water basin is at
your approval to release wate

2) Riley Industrial is onsite an
process sewer lines to the we

3) The outlet to the upper stor
has been plugged to contain t

If you have any questions ple:
call me anytime, James

-----Original Message--

From: Price, Wayne, E
[mailto:wayne.price@s
Sent: Tuesday, August
8:01 AM
To: Price, Wayne, EM
Romero; Monzeglio, Hc
NMENV;
foust.denny@state.nm
Cc: Ed Riege; Steve M
Johnny Sanchez; Ed R
Subject: RE: Spill Rep

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

From: Price, Wayne, E
Sent: Tue 8/16/2005 8
To: James Romero; Mc
Hope, NMENV;
foust.denny@state.nm
Cc: Ed Riege; Steve M

Johnny Sanchez; Ed Riege
Subject: RE: Spill Report

OCD hereby approves emergency actions with the following conditions:

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2. No stormwater shall be released that exceeds applicable standards.
3. The emergency action shall be continuous (24 hour) until the problem is corrected.
4. A daily E-mail report shall be submitted until emergency conditions are resolved.
5. Giant shall isolate the well from the ponds, if possible during the emergency condition.

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

From: James Romero
[mailto:jromero@giant.com]
Sent: Mon 8/15/2005 10:00 AM
To: Price, Wayne, EMM
Monzeglio, Hope, NMEI
[mailto:hfoust.denny@state.nm.gov]
Cc: Ed Riege; Steve Miller
Johnny Sanchez; Ed Riege
Subject: Spill Report

Wayne,

As we discussed via tel today, our API pump n working properly (20-30% capa resulted in a reportable into our aeration lagoons. Sam gathered and lab result received today on Lagoon 2, and Evap (see below). I will folk email with a formal C-141 spill req. Moreover, I will submit results, and a site map, etc.

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

- (1) Vac-trucks will be u pump and clean out th lagoons/API sump
- (2) Interim emergency material within two 55, tanks located on western par property (map will folk copy).
- (3) A chopper pump wi installed and has been (replacement of old API pump)

LAB RESULTS	
Lagoon 2	Ev
MTBE	
60 ppb	
Benzene	30
1000 ppb	
Toluene	
76 ppb	
Ethylbenzene	
ppb	<10.0 p

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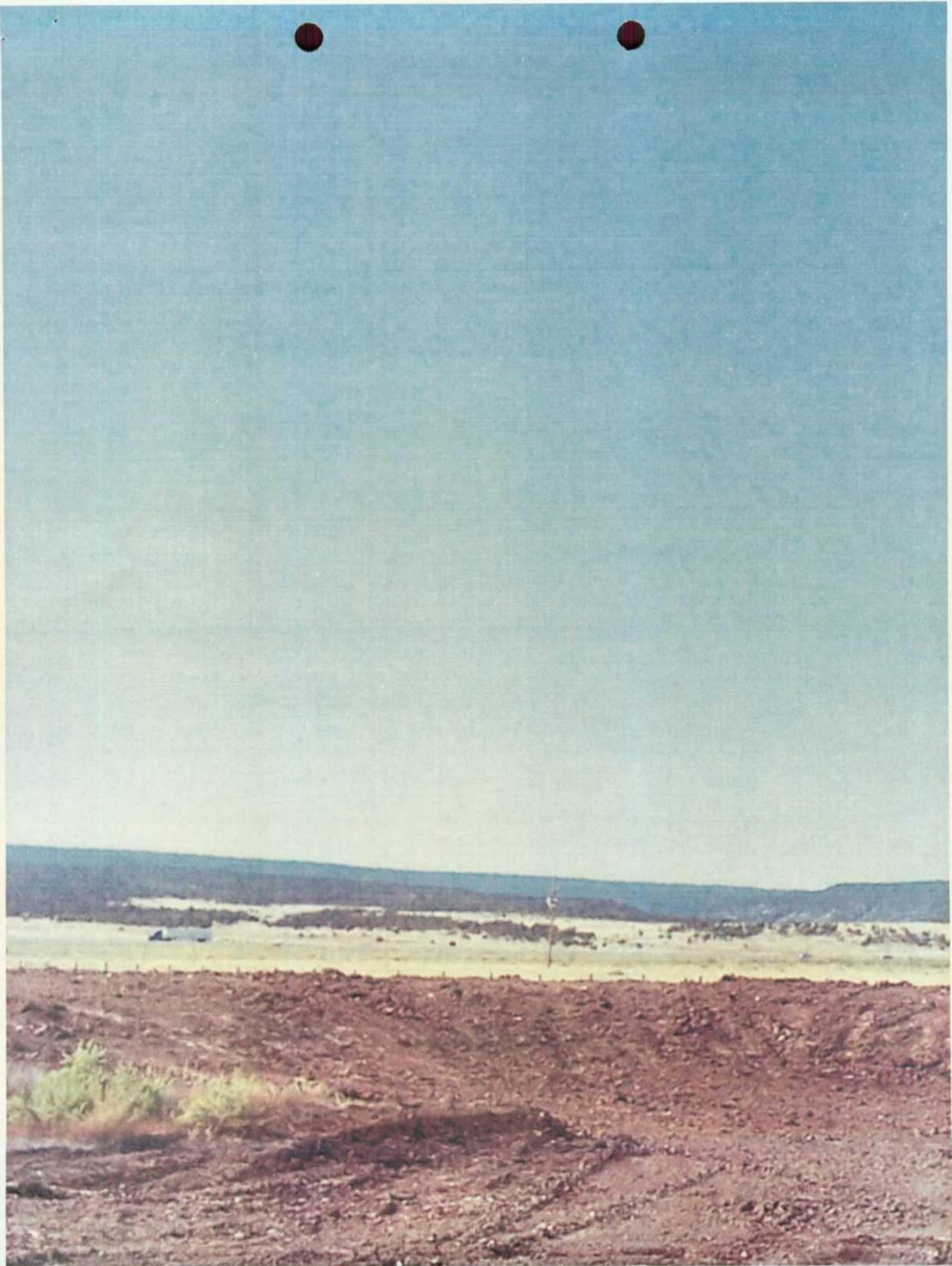
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Ciniza

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised October 10, 2003

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Giant Industries, Inc.	Contact James Romero/Steve Morris
Address Rt. 3, Box 7	Telephone No. 505-722-0227
Facility Name Giant Industries, Inc.	Facility Type Refinery
Surface Owner Giant Industries, Inc.	Mineral Owner Giant Industries, Inc.
Lease No.	

LOCATION OF RELEASE

Unit Letter	Section 33	Township 15N	Range 15W	Feet from the	North/South Line	Feet from the	East/West Line	County McKinley
-------------	------------	--------------	-----------	---------------	------------------	---------------	----------------	-----------------

Latitude 30° 29' 30" Longitude 108° 24' 40"

NATURE OF RELEASE

Type of Release Diesel	Volume of Release 20 gallons	Volume Recovered 20 gallons
Source of Release Marketing Tank #4	Date and Hour of Occurrence 9/14/05 @ 4am	Date and Hour of Discovery 9/14/05 @ 4:15am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Wayne Price via email dated 9/14/05	
By Whom? Steve Morris	Date and Hour 9/14/05 @ 10:31 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.

Describe Cause of Problem and Remedial Action Taken. **The process sewer line was found plugged and maintenance dept was working on unplugging the line on 9/13/05. However, accumulation of water and hydrocarbon slop in the sewer line from the truck rack overflowed at the lowest point near MKT #4 on 9/14/05**

Describe Area Affected and Cleanup Action Taken. **The overflow was contained within the marketing tank area and did not flow toward the containment berm or drain. The pumper and shifter took the GI vacuum truck to the spill and vacuumed up the diesel slop.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: JAMES ROMERO	Approved by District Supervisor:	
Title: Environmental Engineer	Approval Date:	Expiration Date:
E-mail Address: Jromero@Giant.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 9/15/05 Phone: 505-722-0227		

* Attach Additional Sheets If Necessary

RECEIVED

SEP 21 2005

OIL CONSERVATION
DIVISION

From: Monzeglio, Hope, NMENV **Sent:** Tue 9/13/2005 11:07 AM
To: eriege@giant.com; James Romero [jromero@giant.com]; Steve Morris (smorris@giant.com)
Cc: Foust, Denny, EMNRD; Cobrain, Dave, NMENV; Price, Wayne, EMNRD
Subject: 9/8/05 visit
Attachments:

Ed

Below is a summary from NMED and OCD's site visit that occurred on 9/8/05. These comments are from NMED only and separate from OCD. OCD will follow up with their comments from the site visit separately.

1. NMED and OCD changed the daily spill report updates pertaining to the API Separator status and spill cleanup from a daily basis to a weekly basis.
2. NMED requirement of weekly effluent sample from aeration lagoon (AL) 2 to evaporation pond (EP) 1, the analytical analysis for 8260 short list must include MTBE.
3. NMED and OCD are requiring Giant to install two monitoring wells. One well must be installed on the NW corner of EP 1 and the other monitoring well must be located in the NW corner of Aeration Lagoon 2. The monitoring wells must be installed approximately 20 feet below grade but above the sand stringer lens that GWM-1 was completed in. The wells must be installed in the clay to determine if the AL's and EP's are leaking. Giant must submit a letter that describes the proposed well installation activities and include the proposed well design and a map indicating the monitoring well locations.
3. Groundwater monitoring: It was agreed by NMED and OCD, that monitoring wells having extremely slow recharge rates do not need require three well purge volumes. These wells must be bailed dry to ensure the sample is from formation water prior to sampling. All sampling activities must be documented and described in the yearly groundwater monitoring report.
4. Giant will provide NMED and OCD with well casing elevations and the measurements of the well stick up (measurement from the concrete pad to the top of the well casing that exists above ground).
5. NMED will send Giant a letter requesting a Remedy Completion Report for Rail Road Rack Lagoon. This will include reporting requirements and confirmation that this report will also satisfy OCD closure requirements.
6. Proposed fire water storage area – The following was discussed: Giant will need to advance a soil boring in the center of the proposed basin and collect a sample for permeability testing. The boring must be drilled to the Sonsela to determine its location within the basin. Wayne Price requested a sample of the clay be sent to him. OCD will likely require that this basin be lined. Giant must correspond with OCD for requirements but cc NMED on all correspondence.
7. OCD is requiring valves be put on the end of the storm water discharge pipes to allow for shutoff in the event of an emergency to prevent the release of contaminants offsite. Details will be discussed with OCD.
8. A sample of the oil present on the storm water must be collected from the Old API Separator and analyzed for General Chemistry, EPA Method 8260 full suite, EPA Method 8270 full suites, RCRA 8 metals totals and fuel fingerprint. NMED requires Giant to identify the source of oil.

If you have questions please call me.

Hope

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

Price, Wayne, EMNRD

From: Monzeglio, Hope, NMENV
To: Ed Riege
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; James Romero; Steve Morris; Ted Gonzales; Ed Rios
Subject: RE: sampling
Attachments:

Sent: Mon 9/12/2005 2:14 PM

Ed

Thanks for the update. If the lab can do a fuel fingerprint on the effluent sample from the Old API Separator, have that analyzed.

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
hope.monzeglio@state.nm.us

From: Ed Riege [mailto:eriege@giant.com]
Sent: Mon 9/12/2005 2:13 PM
To: Monzeglio, Hope, NMENV
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; James Romero; Steve Morris; Ted Gonzales; Ed Rios
Subject: RE: sampling

Hope, I just got off the phone with the Ciniza maintenance manager Ted Gonzales and he stated that the oil on the old separator was all removed by late Friday so there is no oil to sample. They are almost positive that the source of the oil was the FCC unit storm drain, I will keep you posted.

Thanks Ed

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

From: Ed Riege
Sent: Monday, September 12, 2005 2:56 PM
To: 'Monzeglio, Hope, NMENV'
Cc: 'wayne.price@state.nm.us'; 'dave.cobrain@state.nm.us'; James Romero; Steve Morris
Subject: RE: sampling

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Thanks Ed

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

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Monday, September 12, 2005 10:02 AM
To: jromero@giant.com; eriege@giant.com; smorris@giant.com
Cc: Cobrain, Dave, NMENV; Price, Wayne, EMNRD
Subject: sampling

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To: Monzeglio, Hope, NMENV
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; James Romero; Steve Morris; Ted Gonzales; Ed Rios
Subject: RE: sampling
Attachments:

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Cc: 'wayne.price@state.nm.us'; 'dave.cobrain@state.nm.us'; James Romero; Steve Morris
Subject: RE: sampling

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Thanks Ed

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

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Monday, September 12, 2005 10:02 AM
To: jromero@giant.com; eriege@giant.com; smorris@giant.com
Cc: Cobrain, Dave, NMENV; Price, Wayne, EMNRD
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From: Monzeglio, Hope, NMENV
To: Ed Riege
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; James Romero; Steve Morris
Subject: RE: sampling
Attachments:

Sent: Mon 9/12/2005 2:06 PM

Ed

Thanks for the response. I will get back to you on the oil sample. Have you determined the source of the oil?

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
hope.monzeglio@state.nm.us

From: Ed Riege [mailto:eriege@giant.com]
Sent: Mon 9/12/2005 1:56 PM
To: Monzeglio, Hope, NMENV
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; James Romero; Steve Morris
Subject: RE: sampling

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Thanks Ed

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Subject: RE: sampling
Attachments:

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Price, Wayne, EMNRD

From: Robinson, Kelly [KRobinson@PIRNIE.COM]
To: Monzeglio, Hope, NMENV
Cc: Price, Wayne, EMNRD; Foust, Denny, EMNRD; Ed Riege; Randy Schmaltz
Subject: Voluntary Corrective Measures Bioventing Monitoring Plan
Attachments:

Sent: Mon 9/12/2005 1:36 PM

On behalf of Giant Refining Company Bloomfield (GRCB), Malcolm Pirnie, Inc. is pleased to submit to the State of New Mexico Environmental Department (NMED) the Voluntary Corrective Measures Bioventing Monitoring Plan for the River Terrace Sheet Pile Area at the Giant Bloomfield Refinery. This monitoring plan supplements the July 15, 2005 River Terrace Voluntary Corrective Measures Work Plan (VCM Work Plan), and includes the additional information requested by NMED in the July 28, 2005 letter to Giant Refining Company.

We are looking forward to receiving your approval of the river terrace monitoring plan. A hard copy of this plan is scheduled to be delivered to you on Monday, September 12, 2005. If you have any questions in this matter, please contact Randy Schmaltz at 505-632-4171.

Sincerely,

Kelly Robinson

Engineer

Malcolm Pirnie, Inc.

4646 E. Van Buren, Suite 400

Phoenix, AZ 85008

Fax: 602-231-0131

Direct: 602-797-4628

E-Mail: krobinson@pirnie.com

Price, Wayne, EMNRD

From: Monzeglio, Hope, NMENV **Sent:** Mon 9/12/2005 9:02 AM
To: James Romero [jromero@giant.com]; eriege@giant.com; Steve Morris (smorris@giant.com)
Cc: Cobrain, Dave, NMENV; Price, Wayne, EMNRD
Subject: sampling
Attachments:

Ed and James

I left you both voice messages but was cut off. My voice mail pertains to the following.

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

Price, Wayne, EMNRD

From: Price, Wayne, EMNRD **Sent:** Fri 9/9/2005 3:32 PM
To: James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; 'cobrain.david@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report
Attachments:

Thanks James for you quick response.

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 2:38 PM
To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; 'cobrain.david@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

Wayne

Give me a call when your free I'd like discuss the action items from yesterdays inspection: We have issued high priority work orders to install butterfly valves on our storm water outfalls, remove soil impacted from diesel spill to land farm, and pump out water from RR lagoon. These work orders will be completed today. Also, below are other items we discussed during your inspection

- (1) The diesel spill (the 25 cubic yard of soil) was reported to your office on 7/20/05 by Steve Morris which reported a release of 630 gallons of diesel.
- (2) We have taken samples from the old API separator and will rush the analysis
- (3) We have taken Hope's weekly sample, added MTBE, and will also be rushed
- (4) We purchased and rushed ordered boom to install in pond 2
- (4) We have began discussions with Precision regarding new wells
- (5) We believe we have found the source of oil entering the old api. We are 90% sure of the location but will need more time to make a definitive conclusion

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You forwarded this message on 9/9/2005 4:14 PM.

Price, Wayne, EMNRD

From: James Romero [jromero@giant.com]
To: Monzeglio, Hope, NMENV; Price, Wayne, EMNRD
Cc:
Subject: Denny and Dave
Attachments:

Sent: Fri 9/9/2005 3:24 PM

Hope, Wayne

For some reason emails to Denny and Dave Cobrain are being returned. Would you have their correct email address? Also, I wanted to add two more action items we will be working on. Once we get the boom deployed, we'll start on clean up of pond 2 removing oil and cleaning the banks

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Price, Wayne, EMNRD

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To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; 'cobrain.david@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
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Attachments:

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Price, Wayne, EMNRD

From: Price, Wayne, EMNRD

Sent: Fri 9/9/2005 12:54 PM

To: James Romero

Cc:

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

Attachments:

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 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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**MEETING SUMMARY
GIANT REFINING COMPANY – CINIZA REFINERY
SITE VISIT
SEPTEMBER 8, 2005**

The following summarizes hazardous waste releases at Giant Refining Company's Ciniza refinery based on a meeting between NMED, OCD and representatives of Giant Refining Company on September 8, 2005. The releases are related to events that reportedly occurred in August and September 2005 in the vicinity of the API Separator, Aeration Ponds 1 and 2, and the Evaporation Ponds.

API release #1:

A pipe failure occurred between the (new) API separator and benzene stripper #2. The release was the result of failure of a pump that conveys water from the API separator to the benzene strippers. Giant estimates that approximately 750 gallons of wastewater was released to a ditch, located on the east and north sides of the Aeration Ponds and Evaporation Pond 1, that drains downhill toward the west toward a storm water retention pond located west of Evaporation Pond 10. Approximately 5-10 cubic yards of soil contaminated by the release were removed from the ditch and stockpiled in the OCD land farm. The release occurred downstream of the API separator and upstream of the benzene strippers and aggressive biologic treatment (ABT) system; therefore, the waste codes for the released wastewater are D018 and F037 and, potentially, F038.

The pump was repaired in approximately two days. During the repair period, all refinery wastewater was routed from the API separator through benzene stripper #1 (approximately 60-120 gpm). Benzene was detected at a concentration (1 mg/L) greater than the maximum concentration for toxicity characteristic of 0.5 mg/L in a sample of Evaporation Pond 1 influent water (from Aeration Pond 2), collected during the period that benzene stripper #2 was off line. Therefore, the wastewater discharged from Aeration Pond 1 to Evaporation Pond 1 was characteristic for benzene (D018) during the period when all refinery wastewater was routed through benzene stripper #1. Benzene was not detected at a concentration greater than the toxicity characteristic of 0.5 mg/L in a sample of Evaporation Pond 1 effluent water collected at the discharge point to Evaporation Pond 2 during the same period.

Based on an estimated average flow of 90 gpm for two days (2880 minutes) the volume of characteristic hazardous waste (D018) discharged to Evaporation Pond 1 was approximately 259,200 gallons (6,171 barrels). Concentrations of benzene in wastewater samples collected from the effluent discharged from Aeration Pond 2 to Evaporation Pond 1 decreased to less than 100 µg/L after benzene stripper #2 resumed operation.

API release #2:

A second release occurred during a storm event when a weir, located upstream from the API separator overflowed. The wastewater also was released to the ditch that runs east

Giant Ciniza Meeting Summary
September, 8 2005

and then north of the Aeration Ponds and Evaporation Pond 1 and downhill to the west toward the storm water retention pond located west of Evaporation Pond 10. Approximately 10 cubic yards of soil contaminated by the release were removed from the ditch after this incident and stockpiled in the OCD land farm. The release occurred upstream of the API separator; therefore, the waste codes for the released wastewater are D018 and F037 and, potentially, F038.

API release #3:

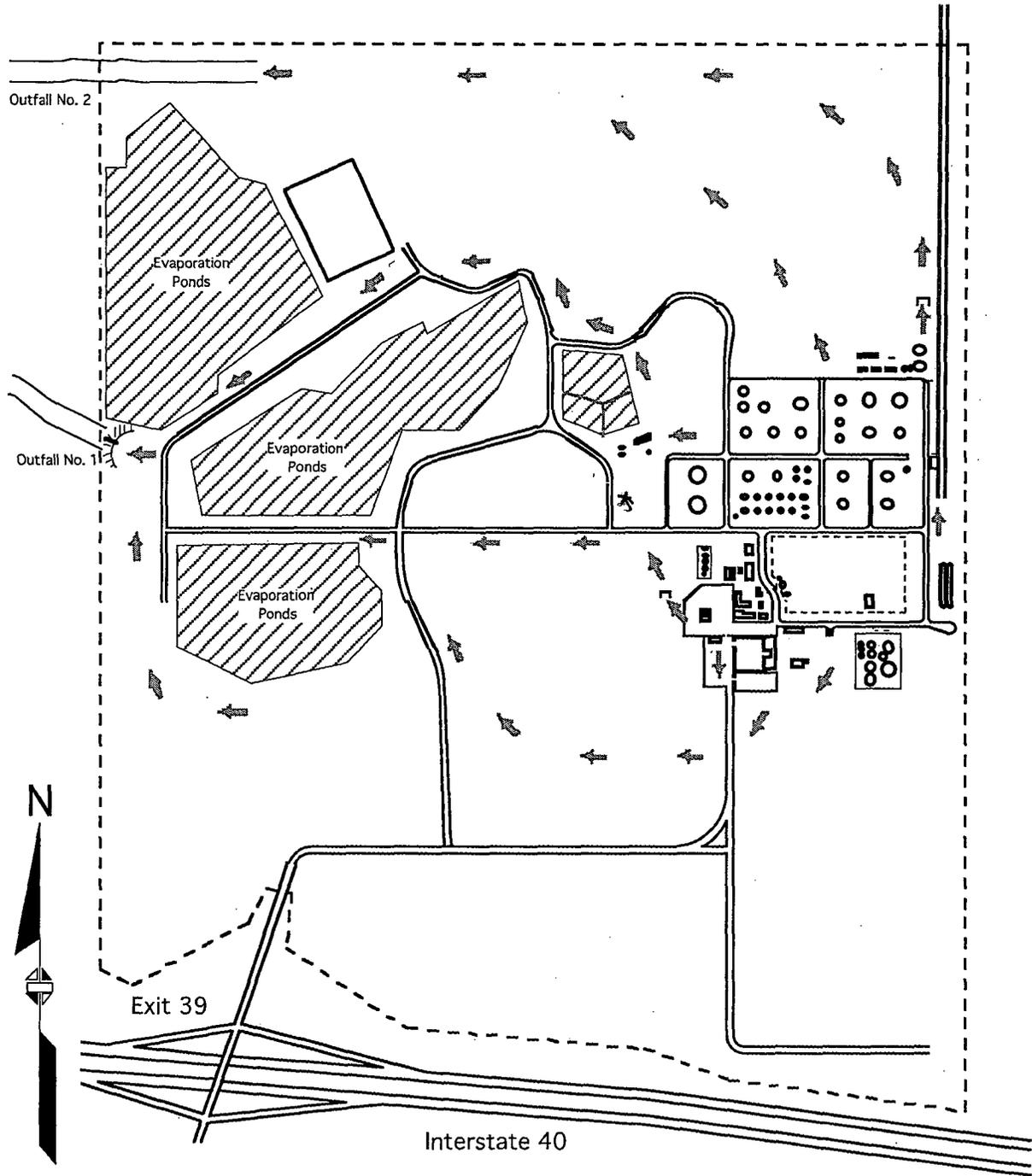
Giant discovered breakthrough of oil and sludge from the API separator resulting in the release of oil to the benzene strippers, aeration ponds and evaporation ponds. The breakthrough resulted from a pump failure in the API separator sump. Giant is currently recovering the oil in the sump using a vacuum truck and plans to replace the pump. NMED and OCD representatives observed oil on the water surface in the Aeration Ponds, Evaporation Pond 1, Evaporation Pond 2 and Evaporation Pond 10 on September 8, 2005. The release of oil and sludge from the API separator sump includes waste codes K051 and F037, K049 and, potentially, F038.

Giant is currently using booms and a vacuum truck to recover phase-separated hydrocarbons from Evaporation Pond 1 and anticipates recovering the phase-separated hydrocarbons present in Evaporation Pond 2. Giant attributed the staining observed along a large portion of the shoreline of Evaporation 2 to the release from the API separator sump.

Old API release:

A black layer of oil was observed floating on the water in the old API separator. Giant reported that the thickness of the oil was 2 inches or less and was observed after a storm event. The source of the oil was unknown at the time of the site meeting. Giant speculated that the source was either somewhere in the process area or possibly from Crude Tank 101, which had recently been emptied and was undergoing cleaning to remove residual sludge (crude tank sediment [bottoms] K169) so that the seal on the floating roof could be replaced. The old API separator discharges directly to Aeration Pond 1. Giant had not yet tested the oil to determine the fuel fingerprint. Giant reported that they had been attempting to identify the source of the oil for the previous two weeks and would continue to investigate until they were able to determine the source of the release.

Figure No. 3
Property Site Map
Unconfined Storm Water Flow Direction



OCD ENVIRONMENTAL BUREAU
SITE INSPECTION SHEET

DATE: September 8, 2005 Time: 10:00 a.m.

Type of Facility: Refinery X Gas Plant Compressor St. Brine St. Oilfield Service Co.
Surface Waste Mgt. Facility E&P Site Crude Oil Pump Station
Other _____

Discharge Plan No Yes X GW# 032

FACILITY NAME: Giant Refining Company- Ciniza Refinery

PHYSICAL LOCATION: I-40 Exit 39, Jamestown, NM (17 Mi. East of Gallup, NM)

Legal: QTR SE QTR NE Sec 33 TS 15N R15W County: McKinley

OWNER/OPERATOR (NAME) Giant Industries Arizona, Inc.

Contact Person: Ed Riege, Environmental Superintendent Tele:# (505) 722-0217

MAILING ADDRESS: Rt. 3 Box 7 I-40 Exit 39, Gallup, State NM ZIP 87301

Owner/Operator Rep's: Mr. James Romero, Mr. Stephen C. Morris, Mr. John Lorent

OCD INSPECTORS: Mr. Wayne Price (OCD), Mr. Carl Chavez (OCD), Mr. David Cobrain (HWB) & Ms. Hope Monzeglio (HWB)

1. **Drum Storage:** All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment.
No violations observed during inspection.

2. **Process Areas:** All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.
Listed wastes from the Fluid Catalytic Cracker (FCC) Unit were observed to be bypassing the new API Separator and Benzene Stripper Units and discharging untreated into the Old API Separator then directly into the Aeration Lagoon Unit. Giant willfully continues to discharge untreated effluent into evaporation ponds downstream of the aeration lagoon failing to implement its Integrated Contingency Plan (ICP). OCD was never notified about oil observed at the Old API Separator, since 1997.

3. **Above Ground Tanks:** All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new tanks or existing tanks that undergo a major modification, as determined by the Division, must be placed within an impermeable bermed enclosure.

No violations observed during inspection.

4. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

No violations observed during inspection.

5. Labeling: All tanks, drums and containers will be clearly labeled to identify their contents and other emergency notification information.

No violations observed during inspection.

6. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must demonstrate integrity on an annual basis. Integrity tests include pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.

No violations observed during inspection.

7. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years thereafter, or prior to discharge plan renewal. The permittee may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.

No violations observed during inspection.

8. Onsite/Offsite Waste Disposal and Storage Practices: Are all wastes properly characterized and disposed of correctly? Does the facility have an EPA hazardous waste number? Yes (NMD000333211) _____ No
ARE ALL WASTE CHARACTERIZED AND DISPOSED OF PROPERLY? YES NO IF NO DETAIL BELOW.

Cooling tower salt piles (~40 yds RCRA Solid Waste) were observed to be stockpiled similar to past inspections where disposal was requested by OCD, but apparently never implemented in violation of the 90-day storage period.

9. Class V Wells: Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. All Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be closed unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Closure of Class V wells must be in accordance with a plan approved by the Division's Santa Fe Office. The OCD allows industry to submit closure plans, which are protective of human health, the environment and

groundwater as defined by the WQCC, and are cost effective. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.

ANY CLASS V WELLS NO YES IF YES DESCRIBE BELOW! Undetermined

10. Housekeeping: All systems designed for spill collection/prevention will be inspected weekly and after each storm event to ensure proper operation and to prevent overtopping or system failure. A record of inspections will be retained on site for a period of five years.

Giant stated that oil on water was observed at the Old API Separator, since 1997; however, Giant only recently informed OCD that water quality had significantly deteriorated after the August 3-4, 2005 precipitation event and during the September 8, 2005 inspection. The operator has never reported the oil to OCD and only recently undertook serious actions to locate the source of the oil, which is believed to be coming from a storm sewer drain near the Fluid Catalytic Cracker Unit. Giant is in violation of "Housekeeping," "Spill Reporting," "Process Areas," and the "Integrated Contingency Plan" of its Discharge Permit.

11. Spill Reporting: All spills/releases will be reported pursuant to OCD Rule 116 and WQCC 1203 to the proper OCD District Office.

OCD has observed discrepancies in the volume of release reported versus volume recovered in Form C-141 on July 20, 2005, which is impossible. On August 3, 2005, the operator significantly under reported the volume of release. During the inspection of September 8, 2005, OCD became aware of a release that was never reported at the Old API Separator.

12. Does the facility have any other potential environmental concerns/issues?

Yes, there is an uncontrolled discharge occurring downstream from refinery operations and into the Old API Separator that has not been fully assessed and the point source(s) remains unknown.

13. Does the facility have any other environmental permits - i.e. SPCC, Stormwater Plan, etc.?

SPCC Plan; SWPPP

14. ANY WATER WELLS ON SITE? NO YES IF YES, HOW IS IT BEING USED?

Four water wells exist on-site. One for drinking and the rest for raw water supply for refinery operations.

15. Documents reviewed:

Discharge permit and attached stormwater prevention plan.

Miscellaneous Comments:

Concerned that the Operator is not following its integrated contingency plan in the discharge permit. Provide Giant with guidance on surface impoundments with liner and vent construction. Also, include permeability test methods for the test boring recommended at the proposed fire water pond.

Photos taken: No

Documents Reviewed/Collected:

Facility spill diagram for 3 spills that occurred during the month of August 2005.