

ENTERED

GIANT
REFINING CO.

Steve P.

September 30, 1997

Mr. Roger Anderson
Environmental Bureau Chief
New Mexico Oil Conservation division
2040 South Pacheco
Santa Fe, New Mexico 87505

50 Road 4990
P.O. Box 159
Bloomfield, New Mexico 87413
505
632-8013

RECEIVED
OCT 1997
A

Re: Bi-Weekly Report Giant Refining Company - Bloomfield
GW-001

Dear Mr. Anderson:

Giant Refining Company - Bloomfield submits the bi-weekly report on activities associated with the river terrace at this facility.

The most recent analysis for the bi-weekly sampling is attached. Trace amounts of Benzene, Ethylbenzene, Toluene, and Xylenes have been detected in concentrations below WQCC standards. Because the concentrations of the analytes are below WQCC standards, Giant does not consider this to be a significant issue. However, Giant continues to monitor the area on a daily basis.

Despite the fact that the river has been flowing at relatively low levels, hydrocarbon has not been observed in the recovery culvert, either as a sheen or as separate phase hydrocarbon.

Sincerely:

Lynn Shelton

Lynn Shelton
Environmental Manager
Giant Refining Company - Bloomfield

TLS/tls

Enclosure

cc: John Stokes, Refinery Manager
Kathleen O'Leary, Regulatory Affairs Coordinator
Greg Lyssy, Region VI, USEPA
Steve Pullen, NMED / HRMB



PARAGON ANALYTICS, INC.

225 Commerce Drive ♦ Fort Collins, CO 80524 ♦ (800) 443-1511 ♦ (970) 490-1511 ♦ FAX (970) 490-1522

September 5, 1997

Mr. Lynn Shelton
Giant Refining Company
#50 County Road 4990/PO Box 159
Bloomfield, NM 87413

RE: Paragon Workorder: 97-08-205
Client Project Name: Not Submitted
Client Project Number: Not Submitted

Dear Mr. Shelton:

One solid and three water samples were received from Giant Refining Company on August 18, 1997. The samples were scheduled for the following analyses:

GC/MS Semivolatiles	pages 1-7
GC/MS Volatiles	pages 1-7
TCLP Pesticides	pages 1-7
TCLP Herbicides	pages 1-7
TCLP Metals	pages 1-7
Aromatic Volatile Organics	pages 1-9

The results for these analyses are contained in the enclosed report.

Thank you for your confidence in Paragon Analytics, Inc. Should you have any questions, please call.

Sincerely,

Paragon Analytics, Inc.
Victoria Bayly
Project Manager

VB/jjc
Enclosure: Report

Paragon Analytics, Inc.



Aromatic Volatile Organics Case Narrative

Giant Refining Company

Order Number - 9708205

1. This report consists of 3 water samples received by Paragon on 08/18/97.
2. These samples were prepared and analyzed according to SW-846, 3rd Edition procedures. Specifically, the water samples were prepared by heating and purging 5 mls using purge and trap procedures based on Method 5030. The calibration curve was also prepared using the heated purge.
3. The samples were analyzed using a GC with a DB-624 capillary column and a PID detector according to protocols based on SW-846 Method 8020. All positive results were quantitated using the responses from the initial calibration curve using the internal standard technique. Second column confirmation was performed on all samples with positive results on a DB-VRX capillary column.
4. All samples were analyzed within the established holding times except sample 9708205-1 which was received by Paragon after the holding time had lapsed.
5. The method blank associated with this project was below the reporting limits for all analytes.
6. All matrix spike and matrix spike duplicate recoveries and RPDs were within acceptance criteria.
7. All blank spike and blank spike duplicate recoveries and RPDs were within the acceptance criteria.
8. All surrogate recoveries were within acceptance criteria.
9. All internal standard recoveries were within acceptance criteria.



10. Due to high levels of non-target analytes sample 9708205-3 was analyzed at a higher dilution. The reporting limits have been adjusted accordingly.
11. All initial and continuing calibration criteria were within acceptance criteria.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Mark R. Hayes
Mark R. Hayes
Fuels Chemist

9-4-97
Date

RR
Reviewer's Initials

9-5-97
Date

Paragon Analytics, Inc.

SAMPLE NUMBER(S) CROSS-REFERENCE TABLE

Client Name: Giant Refining Company

Client Project ID: Not Submitted

<u>PAI-ID</u>	<u>Client ID</u>	<u>MATRIX</u>	<u>DATE</u> <u>SAMPLED</u>
9708205-1	River-B (7/31)	Water	07/31/97
9708205-2	River-B (8/12)	Water	08/12/97
9708205-3	NOWP-E	Water	08/14/97
9708205-4	Pond Sludge	Solid	08/14/97

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

Reagent Blank

Lab Name: Paragon Analytics, Inc.
Client Name: Giant Refining Company
Client Project ID: Not Submitted

Lab Sample ID: WRB1 08/21/97

Date Collected: N/A
Date Extracted: 8/21/97
Date Analyzed: 8/21/97

Sample Matrix: Water

Sample Volume: 5 mL
Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
M,P-Xylene	ND	1.0
O-Xylene	ND	0.50
Total Xylenes	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	96	88 - 119

ND = Not Detected at or above client requested reporting limit.

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

River-B (7/31)

Lab Name: Paragon Analytics, Inc.
Client Name: Giant Refining Company
Client Project ID: Not Submitted

Lab Sample ID: 9708205-1

Date Collected: 7/31/97
Date Extracted: 8/21/97
Date Analyzed: 8/21/97

Sample Matrix: Water

Sample Volume: 5 mL
Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	0.72	0.50
Toluene	ND	0.50
Ethylbenzene	1.1	0.50
M,P-Xylene	3.9	1.0
O-Xylene	1.1	0.50
Total Xylenes	5.0	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	96	88 - 119

ND = Not Detected at or above client requested reporting limit.

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

River-B (8/12)

Lab Name: Paragon Analytics, Inc.
Client Name: Giant Refining Company
Client Project ID: Not Submitted

Lab Sample ID: 9708205-2

Date Collected: 8/12/97

Date Extracted: 8/21/97

Date Analyzed: 8/21/97

Sample Matrix: Water

Sample Volume: 5 mL

Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	0.56	0.50
Toluene	ND	0.50
Ethylbenzene	1.0	0.50
M,P-Xylene	3.9	1.0
O-Xylene	1.0	0.50
Total Xylenes	5.0	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	96	88 - 119

ND = Not Detected at or above client requested reporting limit.

AROMATIC VOLATILE ORGANICS BLANK SPIKE

Method 8020

Sample ID

Blank Spike

Lab Name: Paragon Analytics, Inc.
 Client Name: Giant Refining Company
 Client Project ID: Not Submitted

Date Extracted: 8/21/97
 Date Analyzed: 8/21/97

Lab Sample ID: WBS1 08/21/97

Sample Matrix: Water

Sample Volume: 5 mL

Analyte	Spike Added (ug/L)	BS Concentration (ug/L)	BS Percent Recovery	QC Limits % Rec
Benzene	40.0	45.2	113	85 - 115
Toluene	40.0	43.1	108	85 - 115
Ethylbenzene	40.0	43.4	108	85 - 115
M,P-Xylene	80.0	86.9	109	85 - 115
O-Xylene	40.0	43.3	108	85 - 115
Total Xylenes	120	130	109	85 - 115

Analyte	Spike Added (ug/L)	BSD Concentration (ug/L)	BSD Percent Recovery	RPD	QC Limits RPD
Benzene	40.0	45.9	115	2	20
Toluene	40.0	44.1	110	2	20
Ethylbenzene	40.0	43.8	109	1	20
M,P-Xylene	80.0	87.5	109	1	20
O-Xylene	40.0	43.9	110	1	20
Total Xylenes	120	131	110	1	20

SURROGATE RECOVERY BS/BSD

Analyte	% Recovery BS	% Recovery BSD	% Rec Limits
2,3,4-Trifluorotoluene	99	98	88 - 119

D = Detected

AROMATIC VOLATILE ORGANICS MATRIX SPIKE

Method 8020

Sample ID

River-B (8/12)

Lab Name: Paragon Analytics, Inc.
 Client Name: Giant Refining Company
 Client Project ID: Not Submitted

Date Collected: 8/12/97
 Date Extracted: 8/21/97
 Date Analyzed: 8/21/97

Lab Sample ID: 9708205-2MS

Sample Volume: 5 mL
 Dilution Factor: 1

Sample Matrix: Water

Analyte	Spike Added (ug/L)	Sample Concentration (ug/L)	MS Concentration (ug/L)	MS Percent Recovery	QC Limits % Rec
Benzene	40.0	0.56	46.7	115	85 - 115
Toluene	40.0	ND	44.0	110	85 - 115
Ethylbenzene	40.0	1.03	44.5	109	85 - 115
M,P-Xylene	80.0	3.93	91.0	109	85 - 115
O-Xylene	40.0	1.03	44.4	108	85 - 115
Total Xylenes	120	4.96	135	109	85 - 115

Analyte	Spike Added (ug/L)	MSD Concentration (ug/L)	MSD Percent Recovery	RPD	QC Limits RPD
Benzene	40.0	45.4	112	3	20
Toluene	40.0	42.7	107	3	20
Ethylbenzene	40.0	42.8	104	4	20
M,P-Xylene	80.0	87.2	104	4	20
O-Xylene	40.0	42.6	104	4	20
Total Xylenes	120	130	104	4	20

SURROGATE RECOVERY MS/MSD

Analyte	% Recovery MS	% Recovery MSD	% Rec Limits
2,3,4-Trifluorotoluene	97	97	88 - 119

ND = Not Detected



ACCESSION NUMBER (LAB ID) 9708-205

REPORT TO: LYNN SHELTON
COMPANY:
ADDRESS: GIANT REFINING - BLOOMFIELD
P.O. Box 159
BLOOMFIELD, NM 87413
SAMPLER: [Signature]
(505) 632 9013 (505) 632 3911
PHONE NO. **FAX NO.**

ANALYSIS REQUESTED

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Oil & Grease 8070/9071/413.2	418.1 - TRPH	8015 Mod. Gasoline	8015 Mod. Diesel	8015m/8020 - Gasoline/BETX	8020 - BETX only	8240/8260 - GC/MS VOC's	8270 - GC/MS SVOC's	8080 - Pesticides/PCB's	8080 - PCB's only	8310/810 - HPLC PNA's	8150 - Herbicides	8147/814 - OP Pesticides	TOX - EDX - AOX - TX	Total Metals *(specify in comments)	TCLP: *(specify parameters in comments) ALL	Gross Alpha / Beta	Gross Gamma	Gamma Spec	Isotopic Plutonium	Isotopic Uranium	Total Uranium (KPA)	Radium 226 / 228	Tritium (H3)	Strontium 89 / 90	8315 - Formaldehyde	% Moisture	WCCG PARAMETERS	SEE ATTACHED	Number Containers		
RIVER - B	7/31	900	H ₂ O	01						X																								40mL	2	
RIVER - B	8/12	940	H ₂ O	02						X																										2
NOWP - E	8/14	1230	H ₂ O	03						X																										1
POND SLUDGE	8/14	1345	SOIL	04																X																1

PROJECT INFORMATION		SAMPLE RECEIPT		RELINQUISHED BY: 1		RELINQUISHED BY: 2		RELINQUISHED BY: 3	
PROJECT NUMBER:		TOTAL NO. OF CONTAINERS:		Sign. [Signature]	Time 1500	Sign.	Time	Sign.	Time
PROJECT NAME:		CHAIN OF CUSTODY SEALS Y/N:		Print LYNN SHELTON	Date 8/14/97	Print	Date	Print	Date
P.O. NUMBER:		SEALS INTACT? Y/N/NA:							
TAT:	STANDARD	REC'D GOOD COND/COLD?							
SAMPLE DISPOSAL:	<input checked="" type="checkbox"/> HAZ WASTE \$5.00 ea	RAD CHEM \$15.00 ea		Company GIANT		Company FDX		Company	
COMMENTS: 1-40mL UOA Recd Broken				RECEIVED BY: 1		RECEIVED BY: 2		RECEIVED BY: 3	
				Sign.	Time	Sign. [Signature]	Time 12w	Sign.	Time
Run - 1 guyway.				Print	Date	Print D.H.	Date 8/18/97	Print	Date
				Company FDX		Company PAE		Company	

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