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GIVAUDAN-ROURE Specialties

Natural and Synthetic Ingredients

Certified Mail - Return Receipt Requested P-261-661-276

March 18, 1994

Mr. Frank D'Ascensio
Manager, Industrial & Pollution Control
Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Re: Monthly Report For Permit No. 03401024
Givaudan-Roure Corporation
Clifton, NJ 07015-5034

Dear Mr. D'Ascensio:

This report is submitted pursuant to the wastewater discharge reporting requirements as amended by the New Jersey Clean Water Enforcement Act (N.J.C.W.E.A).

The information submitted herein deals with the wastewater discharges from Givaudan-Roure operations at the referenced site. The following reports, documents and drawings are included in this submittal covering the month of February, 1994.

Attachment A - Outfall 001

- Completed PVSC form MR-1
- Analytical Reports
- Analytical QA/QC Data Package
- Updated Flow Diagram

Attachment B

- Completed PVSC forms MR-2 for Outfalls 001, 002, 003, and 004

The wastewater analyses reported herein were performed by the following certified laboratories:

- International Technology Corporation
- Givaudan-Roure Environmental Laboratory

The New Jersey Department of Environmental Protection and Energy certified laboratory numbers assigned to these facilities are 12064 and 16867, respectively.

145094

GIVAUDAN-ROURE CORPORATION

Delawanna Avenue, Clifton, New Jersey 07015-5034 • Tel: (201) 365-8000 • Telex 219259 givc ur
Fax (201) 777-9304

The comments that follow apply to the compliance issues governing Outfalls 001 and 003:

1. Outfall 001

Givaudan-Roure is within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H including PVSC local regulatory agency permit requirements except toluene and ethylbenzene.

Toluene

The official sample collected on February 8, 1994 indicates a 46 μg/l concentration of toluene.

The respective average and mass limits for toluene are 0.13466 lbs./day and 0.35589 lbs./day. The mass value for toluene on February 8, 1994 was 0.23095 lbs./day. This calculated value exceeds the average mass limit for toluene by 0.09629 lbs./day but is within the maximum limit. The problem with toluene is being addressed in a consent order entered into with the PVSC. (Also see ethylbenzene below.)

Ethylbenzene

The official sample collected on February 8, 1994 indicates a 200 μg/l concentration of ethylbenzene.

The average and mass limits for this parameter are 0.68293 and 1.82755 lbs./day, respectively. The mass value for ethylbenzene was 1.00414 lbs./day which exceeded the average mass limit for ethylbenzene by 0.32221 lbs./day, but is within the maximum limit.

Givaudan-Roure does not use ethylbenzene in its plant. Since this product is present in petroleum products it may have resulted from a petroleum product which inadvertently got into the system. One possibility is a gasoline upset connected with the snow removal equipment used in the plant. Other than that we have no explanation. It is also possible that the excess toluene reported above had a similar origin.

2. Outfall 003

Givaudan-Roure is within all regulatory permit effluent limitations.

GIVAUDAN-ROURE

Only sanitary type waste water is sent to Outfall 003. All industrial regulated process flow from Flavor operations which was previously sent to Outfall 003 is now diverted to Outfall 001.

As referenced in the PVSC letter, dated 12/23/93, Outfall 003 has been delisted from 40CFR 414 OCPSF regulation effective 1/1/94. It is understood therefore, that MR-1 reports for Outfall 003 will no longer be required to be submitted in the monthly reports to the PVSC.

If you have any questions regarding the above matter, please call Ms. Patricia Hopkins at (201) 365-8507 or Mr. Joseph Zgurzynski at (201)365-8566.

Sincerely,

GIVAUDAN-ROURE CORPORATION

Harold G. Thompson

H. G. Thompson
Sr.Vice President Operations

HGT:cj
Encl.
permt-mr.ma4

ATTACHMENT A

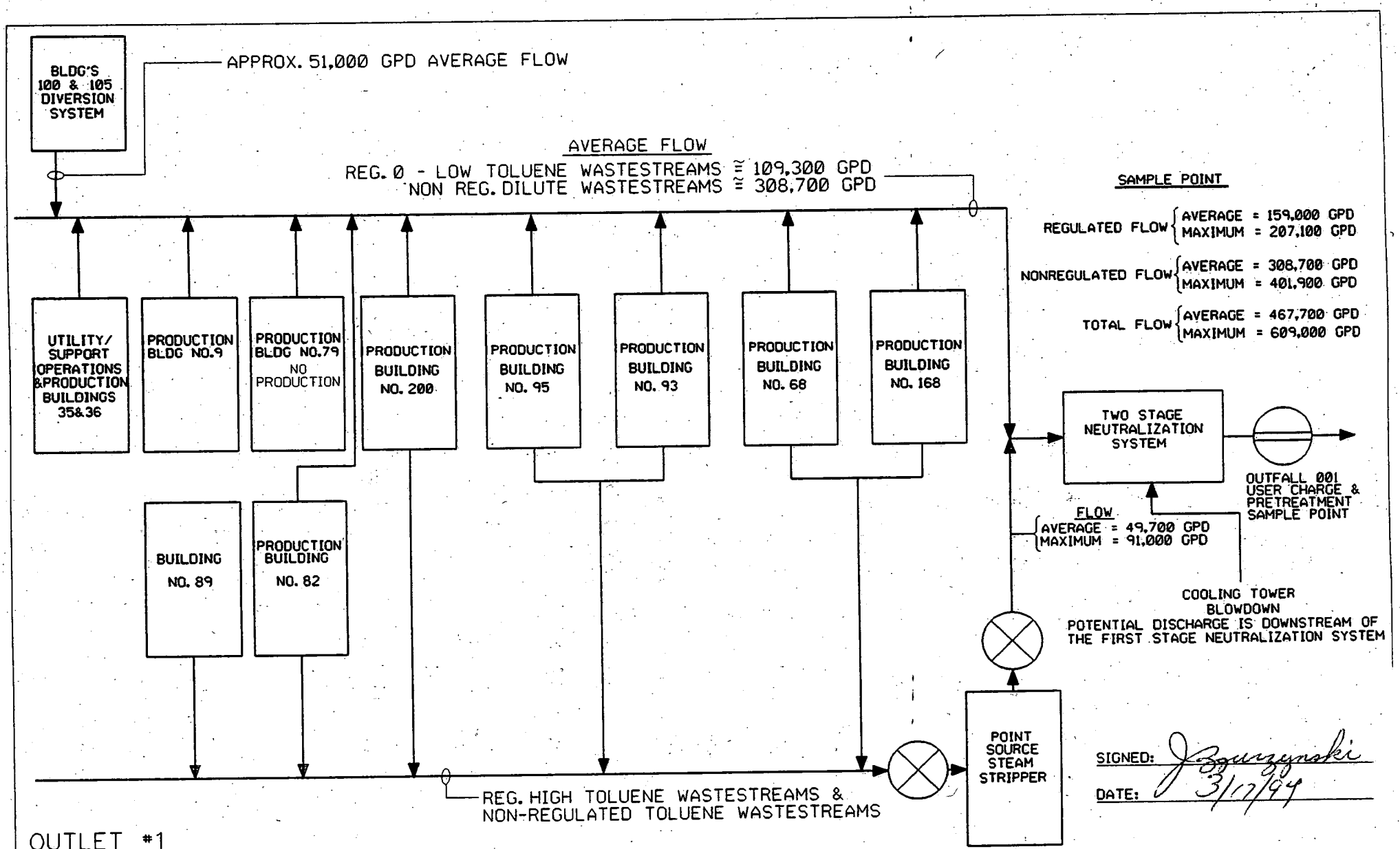
MR-1 FORM FOR :

DISCHARGE POINT 001 (includes all lab data and the flow diagram)

ATTACHMENT B

MR-2 FORMS FOR :

DISCHARGE POINT 001, 002, 003 & 004



SIGNED: J. Bourzynski

DATE: 3/17/94

OUTLET #1

OUTLET 03401021 FOR USER CHARGE/PRETREATMENT IS LOCATED BY SAMPLE SHED BUILDING #11 LOCATED IN SOUTHWEST CORNER OF PROPERTY (40 CFR 414)

⊖ = COMPLIANCE MONITORING STATION

⊗ = MONITORING STATION

GIVAUDAN-ROURE CORPORATION

UPDATED
WASTE WATER PFD
OUTFALL 001
FEBRUARY 1994

CHART 1994-03

130 1848

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
03	01	94	03	31	94
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	150,500	216,200
Total Flow-gal/day	442,700	636,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days 31

N/A ***Flow on Sample date 3/14-3/15 - 454,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Benzene	Sample measurement	< 0.18932	< 0.18932	# / day	1	Grab
	Permit requirement	0.27421	0.64463	# / day	1	
Carbon Tetrachloride	Sample measurement	< 0.18932	< 0.18932	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Chlorobenzene	Sample measurement	< 0.18932	< 0.18932	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
1,2,4-Trichloro-benzene	Sample measurement	< 0.15145	< 0.15145	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
Hexachlorobenzene	Sample measurement	< 0.15145	< 0.15145	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,2-Dichloroethane	Sample measurement	< 0.18932	< 0.18932	# / day	1	Grab
	Permit requirement	0.86568	2.76056	# / day	1	
1,1,1-Trichloro-ethane	Sample measurement	< 0.18932	< 0.18932	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	
Hexachloroethane	Sample measurement	< 0.15145	< 0.15145	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,1-Dichloroethane	Sample measurement	< 0.18932	< 0.18932	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	

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PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

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Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

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Contact Official Andrew Soos **Telephone #** (201) 365-8486

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Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	150,500	216,200
Total Flow-gal/day	442,700	636,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow os Sample date 3/14-3/15 - 454,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,1,2-Trichloro-ethane	Sample measurement	< 0.18932	< 0.18932	# / day	1	Grab
	Permit requirement	0.15390	0.61079	# / day	1	
Chloroethane	Sample measurement	< 0.37864	< 0.37864	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Chloroform	Sample measurement	< 0.18932	< 0.18932	# / day	1	Grab
	Permit requirement	0.53384	1.56304	# / day	1	
1,2-Dichloro-benzene	Sample measurement	< 0.15145	< 0.15145	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,3-Dichloro-benzene	Sample measurement	< 0.15145	< 0.15145	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,4-Dichloro-benzene	Sample measurement	< 0.15145	< 0.15145	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,1-Dichloro-ethylene	Sample measurement	< 0.18932	< 0.18932	# / day	1	Grab
	Permit requirement	0.10581	0.28856	# / day	1	
1,2-Trans-Dichloroethylene	Sample measurement	< 0.18932	< 0.18932	# / day	1	Grab
	Permit requirement	0.12023	0.31742	# / day	1	
1,2-Dichloro-propane	Sample measurement	< 0.18932	< 0.18932	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	

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PRETREATMENT MONITORING REPORT

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Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
03	01	94	03	31	94
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	150,500	216,200
Total Flow-gal/day	442,700	636,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 3/14-3/15 - 454,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3-Dichloro-propylene	Sample measurement	< 0.18932	< 0.18932	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	
Ethylbenzene	Sample measurement	< 0.18932	< 0.18932	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Methylene Chloride	Sample measurement	0.09845	0.09845	# / day	1	Grab
	Permit requirement	0.17314	0.81759	# / day	1	
Methyl Chloride	Sample measurement	< 0.37864	< 0.37864	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Hexachloro-butadiene	Sample measurement	< 0.15145	< 0.15145	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
Nitrobenzene	Sample measurement	< 0.15145	< 0.15145	# / day	1	Comp.
	Permit requirement	10.75850	30.78942	# / day	1	
2-Nitrophenol	Sample measurement	< 0.15145	< 0.15145	# / day	1	Comp.
	Permit requirement	0.31261	1.11096	# / day	1	
4-Nitrophenol	Sample measurement	< 0.75727	< 0.75727	# / day	1	Comp.
	Permit requirement	0.77911	2.77018	# / day	1	
4,6-Dinitro-o-Cresol	Sample measurement	< 0.75727	< 0.75727	# / day	1	Comp.
	Permit requirement	0.37513	1.33219	# / day	1	

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PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
03	01	94	03	31	94
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	150,500	216,200
Total Flow-gal/day	442,700	636,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 3/14-3/15 - 454,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Tetrachloro-ethylene	Sample measurement	< 0.18932	< 0.18932	# / day	1	Grab
	Permit requirement	0.250009	0.78873	# / day	1	
Toluene	Sample measurement	0.49223	0.49233	# / day	1	Grab
	Permit requirement	0.13466	0.35589	# / day	1	
Trichloro-ethylene	Sample measurement	< 0.18932	< 0.18932	# / day	1	Grab
	Permit requirement	0.12504	0.33184	# / day	1	
Vinyl Chloride	Sample measurement	< 0.37864	< 0.37864	# / day	1	Grab
	Permit requirement	0.46651	0.82721	# / day	1	
Total Cyanide	Sample measurement	< 0.03786	< 0.03786	# / day	1	Grab
	Permit requirement	2.01992	5.77121	# / day	1	
Total Lead	Sample measurement	0.03029	0.03029	# / day	1	Comp.
	Permit requirement	1.53899	3.31845	# / day	1	
Total Zinc	Sample measurement	0.41650	0.41650	# / day	1	Comp.
	Permit requirement	5.04981	12.55239	# / day	1	
Petroleum Hydrocarbons	Sample measurement	< 1.0	< 1.0	mg / L	1	Grab
	Permit requirement		100	mg / L	1	
	Sample measurement					
	Permit requirement					

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Certification of Non-use if applicable (use additional sheets) 130 7848

Not Applicable

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

SEE ATTACHMENT 1

Explain Method for preserving samples

The laboratory preservation methods and holding times were performed in accordance with EPA/NJDEPE approved procedures and methodologies.

*** SEE ATTACHMENT 2 FOR SPECIFIC PRESERVATION METHODOLOGIES. ***

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Harold G. Thompson

Signature of Principal Executive or Authorized Agent

Harold G. Thompson

Senior Vice President / Operations

Type Name and Title

April 19, 1994

Date

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PVSC Form MR-1 Rev. 5 3/91 P2

Attachment 1

Outfall 001

Compliance statement

Givaudan-Roure is within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H and other regulatory agency limitations except toluene.

Toluene

The official sample (single laboratory analytical result) collected on March 15, 1994 indicates a 130 μg/l concentration of toluene. The permitted average mass limit and permitted maximum mass limit for toluene is 0.13466 lbs./day and 0.35589 lbs./day respectively. The calculated analytical toluene mass value on March 15, 1994 was 0.49223 lbs./day. This calculated value exceeds the average mass limit by 0.35757 lbs./day and the maximum mass limit by 0.13634 lbs./day.

Information was provided to the Agency on 3/14/94 in the attached letter with details of an accidental discharge of toluene and the corrective action to be taken by Givaudan-Roure to prevent future discharges.

While the cause of the toluene levels in the effluent sample on March 15, 1994 cannot be identified with certainty, we believe that this is partially true to an accidental release explained in the attached letter of Mr. J. Zgurzynski. It is believed that the excess toluene may result from residues due to that release. This has not been established with certainty, however.

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Attachment 2

PRESERVATION METHODOLOGIES

Volatile Organics Samples :
Cool to 4°C in an ice chest.

Total Cyanide Samples :
Preserve sample with 10 N NaOH to a pH of greater than 12. After preserving the sample, cool to 4°C in an ice chest.

Total Lead and Total Zinc Samples :
Acidify sample with Conc. HNO_3 to a pH of 2 or less.

Acid / Base Neutrals Extractables Samples :
Approximately 80 mg/l sodium thiosulfate is added to the bottle(s) in the laboratory prior to being brought into the field. After collection, the sample is cooled to 4°C in an ice chest.

Petroleum Hydrocarbon Samples :
Preserve sample with conc. H_2SO_4 or HCl to a pH of less than 2 and cool to 4°C in an ice chest.

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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

Givaudan-Roure Corporation
100 Delawanna Ave.
Clifton, NJ 07014
Attn: Ms. Pat Hopkins

Date: April 04, 1994

NJ Lab Certification ID#: 12064

Job No.: 1221.27

P.O. Number: 106791

This is the Certificate of Analysis for the following samples:

Client Project ID: 001/003 MONTHLY
Date Received: 03/15/94
Number of Samples: 2
Sample Type: WATER

I. Introduction

Samples were labeled as follows:

SAMPLE IDENTIFICATION	LABORATORY #
001	F4-03-260-01
003	F4-03-260-02

Reviewed and Approved:

Mary A. Wright
Project Manager

NJ DEPT OF HEALTH
INDUSTRIAL HYGIENE LABORATORY
12 29 2009

Company: Givaudan-Roure Corporation
Date: April 04, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-03-260

II. QA/QC

The results presented in this report were determined in accordance with EPA/NJDEPE approved methodologies except as noted in the optional sample narrative located on the second page of Section III.

In the presented analytical data, 'ND' or 'U' indicates that the compound is not detected at the specified limit. See Appendix A for other commonly used abbreviations.

III. Analytical Data

The analytical results for this report are presented by analytical test. Each set of data will include sample identification information, the analytical results, and the appropriate detection limits. Detection limits may vary due to factors arising from concentration/dilution of samples.

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Company: Givaudan-Roure Corporation
Date: April 04, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-03-260

NARRATIVE

Matrix spike and replicate analyses for petroleum hydrocarbons could not be performed due to insufficient sample volume. A blank spike and blank spike duplicate were analyzed with the samples to meet QC requirements.

The RPD between the matrix spike/matrix spike duplicate for chloromethane was outside of acceptable QC limits. 624

The ABN analysis was run at a 4x dilution .

Base Neutral surrogate #1 and acid surrogate #1 where outside of acceptable QC limits. The matrix spike/matrix spike duplicate confirmed matrix interferences.

Company: Givaudan-Roure Corporation
Date: April 04, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-03-260

SAMPLE ID	001	003	
SAMPLED	03/15/94	03/15/94	
TEST			UNITS
Total Cyanide	ND [0.01]		mg/L
Petroleum Hydrocarbons	ND [1.0]	ND [1.0]	mg/L

ND indicates the parameter was not detected.
Detection limits are specified in [].

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 FAX 201-365-0711

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 001 **Date of Sample :** March 1994

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : 13,725,000 gals. Average Flow : 442,742 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	COD (mg/L)
3/1/94	1087	90		
3/2/94	3425	47	8747	6215
3/3/94	2322	45		
3/4/94	2031	21		
3/5/94	2964	151		
3/6/94	871	136		
3/7/94	991	94		
3/8/94	2352	31		
3/9/94	2784	50	8942	4906
3/10/94	2892	32		
3/11/94	2808	22		
3/12/94	1795	34		
3/13/94	477	41		
3/14/94	1232	41		
3/15/94	2766	11		
3/16/94	2461	20	12935	4729
3/17/94	2599	17		
3/18/94	2719	63		
3/19/94	748	18		
3/20/94	847	12		
3/21/94	486	14		
3/22/94	2731	36		
3/23/94	3168	24	7909	4656
3/24/94	2095	21		
3/25/94	3874	87		
3/26/94	3641	125		
3/27/94	1213	42		
3/28/94	49	44		
3/29/94	2383	34		
3/30/94	3868	30	5792	5277
3/31/94	3018	35		

Patricia Hopkins
Laboratory Supervisor

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DEPARTMENT

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 FAX 201-365-0711

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 002 **Date of Sample :** March 1994

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : NA Average Flow : NA

Sampling Date	BOD (mg/L)	TSS (mg/L)
3/2/94	1593	18
3/16/94	1468	16

Patricia Hopkins
Laboratory Supervisor

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DEPARTMENT

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 FAX 201-365-0711

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 003 **Date of Sample :** March 1994

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : 1,620,580 gals. Average Flow : 52,277 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	COD (mg/L)
3/1/94	60	17	151
3/9/94	49	90	
3/16/94	64	43	
3/23/94	110	81	
3/30/94	88	39	

Patricia Hopkins
Laboratory Supervisor

APR 1994
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DEPARTMENT

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

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P.O. Number: 106791

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Sample Type: WATER

I. Introduction

Samples were labeled as follows:

SAMPLE IDENTIFICATION	LABORATORY #
001	F4-03-260-01
003	F4-03-260-02

Reviewed and Approved:

Mary A. Wright
Project Manager

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DEPARTMENT

Company: Givaudan-Roure Corporation
Date: April 04, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-03-260

II. QA/QC

The results presented in this report were determined in accordance with EPA/NJDEPE approved methodologies except as noted in the optional sample narrative located on the second page of Section III.

In the presented analytical data, 'ND' or 'U' indicates that the compound is not detected at the specified limit. See Appendix A for other commonly used abbreviations.

III. Analytical Data

The analytical results for this report are presented by analytical test. Each set of data will include sample identification information, the analytical results, and the appropriate detection limits. Detection limits may vary due to factors arising from concentration/dilution of samples.

APR 1994
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DEPARTMENT

Company: Givaudan-Roure Corporation
Date: April 04, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-03-260

NARRATIVE

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The ABN analysis was run at a 4x dilution .

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DEPARTMENT

Company: Givaudan-Roure Corporation
Date: April 04, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-03-260

SAMPLE ID	001	003	
SAMPLED	03/15/94	03/15/94	
TEST			UNITS
Total Cyanide	ND [0.01]		mg/L
Petroleum Hydrocarbons	ND [1.0]	ND [1.0]	mg/L

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ND indicates the parameter was not detected.
Detection limits are specified in [].

Company: Givaudan-Roure Corporation
Date: April 04, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-03-260

TEST NAME: **Metals**

SAMPLE ID: **001**
SAMPLE DATE: **03/15/94**

ANALYSIS DATE: 03/18/94

	Results in ug/L	Detection Limit
Lead	8.0	3.0
Zinc	110	20

Comments: ND indicates the compound is not detected at the level indicated.

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Company: Givaudan-Roure Corporation
Date: April 04, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-03-260

TEST NAME: **Acid/Base Neutrals**

SAMPLE ID: **001**
SAMPLE DATE: **03/15/94**

ANALYSIS DATE: 03/24/94

	Results in ug/L	Detection Limit
Acenaphthene	ND	40
Acenaphthylene	ND	40
Anthracene	ND	40
Benzo(a)Anthracene	ND	40
Benzo(b)Fluoranthene	ND	40
Benzo(k)Fluoranthene	ND	40
Benzo(a)Pyrene	ND	40
Benzo(g,h,i)perylene	ND	40
bis(2-Chloroethyl)Ether	ND	40
bis(2-Chloroethoxy)Methane	ND	40
bis(2-Ethylhexyl)Phthalate	58	40
bis(2-Chloroisopropyl)Ether	ND	40
4-Bromophenyl Phenyl Ether	ND	40
Butyl Benzyl Phthalate	ND	40
2-Chloronaphthalene	ND	40
4-Chlorophenyl Phenyl Ether	ND	40
Chrysene	ND	40
Dibenzo(a,h)anthracene	ND	40
Di-n-butylphthalate	ND	40
1,2-Dichlorobenzene	ND	40
1,3-Dichlorobenzene	ND	40
1,4-Dichlorobenzene	ND	40
3,3'-Dichlorobenzidine	ND	40
Diethylphthalate	ND	40
Dimethylphthalate	ND	40
2,4-Dinitrotoluene	ND	40
2,6-Dinitrotoluene	ND	10
Di-n-Octylphthalate	ND	40
Fluoranthene	ND	10
Fluorene	ND	40
Hexachlorobenzene	ND	40
Hexachlorobutadiene	ND	40
Hexachloroethane	ND	40
Indeno(1,2,3-cd)pyrene	ND	40
Isophorone	ND	10
Naphthalene	ND	40

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Company: Givaudan-Roure Corporation
Date: April 04, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-03-260

TEST NAME: **Acid/Base Neutrals**

SAMPLE ID: **001**
SAMPLE DATE: **03/15/94**

Nitrobenzene	ND	40
N-Nitrosodipropylamine	ND	40
Phenanthrene	ND	40
Pyrene	ND	40
1,2,4-Trichlorobenzene	ND	40
4-Chloro-3-methylphenol	ND	40
2-Chlorophenol	ND	40
2,4-Dichlorophenol	ND	40
2,4-Dimethylphenol	ND	40
2,4-Dinitrophenol	ND	200
4,6-Dinitro-2-methylphenol	ND	200
2-Nitrophenol	ND	40
4-Nitrophenol	ND	200
Pentachlorophenol	ND	200
Phenol	ND	40
2,4,6-Trichlorophenol	ND	40

Comments: ND indicates the compound is not detected at the level indicated.

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Company: Givaudan-Roure Corporation
Date: April 04, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-03-260

TEST NAME: **Volatile Organics**

SAMPLE ID: **001**
SAMPLE DATE: **03/15/94**

ANALYSIS DATE: 03/17/94

Results in	ug/L	Detection Limit
Acrolein	ND	500
Acrylonitrile	ND	500
Benzene	ND	50
Bromoform	ND	50
Bromomethane	ND	100
Carbon Tetrachloride	ND	50
Chlorobenzene	ND	50
Chlorodibromomethane	ND	50
Chloroethane	ND	100
2-Chloroethylvinyl Ether	ND	50
Chloroform	ND	50
Chloromethane	ND	100
Dichlorobromomethane	ND	50
1,1-Dichloroethane	ND	50
1,2-Dichloroethane	ND	50
1,1-Dichloroethene	ND	50
1,2-Dichloroethene	ND	50
1,2-Dichloropropane	ND	50
cis-1,3-Dichloropropene	ND	50
trans-1,3-Dichloropropene	ND	50
Ethylbenzene	ND	50
Methylene Chloride	26J	50
1,1,2,2-Tetrachloroethane	ND	50
Tetrachloroethene	ND	50
Toluene	130	50
1,1,1-Trichloroethane	ND	50
1,1,2-Trichloroethane	ND	50
Trichloroethene	ND	50
Trichlorofluoromethane	ND	50
Vinyl Chloride	ND	100
Dichlorodifluoromethane	ND	50

dil factor??

Comments: ND indicates the compound is not detected at the level indicated.

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Company: Givaudan-Roure Corporation
Date: April 04, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-03-260

IV METHODOLOGY

Requested analyses were performed according to the following methods.

Metals

The analysis of all metals is based on Test Methods for Evaluating Solid Waste (SW-846), 3rd Edition, Method 6010 (Inductively Coupled Plasma) with the exception of the following:

Lead	SW-846 3rd Ed.	7421	(Graphite Furnace)
Arsenic	SW-846 3rd Ed.	7060	(Graphite Furnace)
Selenium	SW-846 3rd Ed.	7740	(Graphite Furnace)
Antimony	SW-846 3rd Ed.	7041	(Graphite Furnace)
Thallium	SW-846 3rd Ed.	7841	(Graphite Furnace)
Mercury	EPA, Rev. Ed.	245.5	(Cold Vapor)
Zinc	EPA Method 200.7 (ICP)		

Base/Neutral and Acid Extractable Organics - GC/MS (Water)

The analysis of base/neutral and acid extractable organics is based on EPA Method 625. An aliquot of sample is serially extracted with methylene chloride at a pH greater than 11.0 and again at a pH less than 2.0 using a separatory funnel. The extracts are dried through sodium sulfate, concentrated and analyzed by mass spectroscopy.

Volatile Organics - GC/MS (Waste water)

For the analysis of volatile organics, EPA Methods 624 is used. An inert gas is bubbled through a sample contained in a specifically designed purging chamber. The purgeables are efficiently transferred from the aqueous phase to the vapor phase. The vapor is swept through a sorbent column where the purgeables are trapped. After purging is completed, the sorbent column is heated and backflushed with the inert gas to desorb the purgeables onto a gas

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Company: Givaudan-Roure Corporation
Date: April 04, 1994
Client Job No.: 1221.27
Work Order: F4-03-260

chromatographic column. The gas chromatograph is temperature programmed to separate the purgeables which are then detected with a mass spectrometer.

Cyanide - Auto Analyzer Method

The analysis of cyanide is based on EPA, Methods for Chemical Analysis of Water and Wastes, Revision 1983, Method 335.3. (Automated Spectrophotometric Analysis)

Petroleum Hydrocarbons - IR

The analysis of petroleum hydrocarbons is based on EPA, Methods for Chemical Analysis of Water and Wastes, Revision 1983, Method, 418.1. (Infrared Spectrophotometric Analysis)

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APPENDIX A

IT ANALYTICAL SERVICES
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(908) 225-2000

DEFINITIONS

ND(U) - Analyte was analyzed for, but not detected. The value given after the ND or U is the detection limit for that compound.

A - The compound denoted with an "A" indicates a suspected aldol condensation product.

B - Indicates the compound was also detected in the blank.

J - Indicates the compound was detected in the sample, but at levels less than the detection limit. Results should be regarded as estimated.

MS - Matrix Spike

MSD - Matrix Spike Duplicate

RPD - Relative Percent Difference

ug/L - Micrograms/Liter

ug/Kg - Micrograms/Kilogram

mg/Kg - Milligrams/Kilogram

%Rec - Precent Recovery

mg/L - Milligrams/Liter

DL - Detection Limit

QUALITY CONTROL WINDOWS

Surrogate Recoveries

GC/MS Volatiles (624, 8240)	Water	Soil
D4-1,2-dichloroethane	76-114	70-121
D8-toluene	88-110	81-117
4-Bromofluorobenzene	86-115	74-121

Surrogate Recoveries

GC/MS SemiVolatiles (625, 8270)	Water	Soil
D5-Nitrobenzene	35-114	23-120
2-Fluorobiphenyl	43-116	30-115
D14-Terphenyl	33-141	18-137
D5-Phenol	10-94	24-113
2-Fluorophenol	21-100	25-121
2,4,6-Tribromophenol	10-123	19-122

Surrogate Recoveries

Pesticides* (608, 8080)	Water	Soil
Tetrachloro-m-xylene	60-150	60-150
Dibutyl chlorendate	24-154	20-150

Surrogate Recoveries

Method 602, BTEX, 8020	Water	Soil
4-Bromofluorobenzene	62-139	62-138

* SW846 allows one surrogate to be outside recovery windows.

Surrogate Recoveries

Method 601 (8010)	Water	Soil
Bromochloromethane	74-121	74-121

Surrogate Recoveries

Method 8060**	Water	Soil
Tetrachloro-m-xylene	60-150	60-150
Decachlorobiphenyl	60-150	60-150

Method 8015	Water	Soil
Acetone	68-132	68-132

Herbicides**	Water	Soil
2,4-DB	60-150	60-150

** Advisory Limits

METALS / WET CHEMISTRY

	Recovery	RPD
Blank Spike	75-125	
Blank Spike Duplicate	75-125	<20%
Matrix Spike	75-125	
Matrix Spike Duplicate	75-125	<20%

	Recovery	RPD
Replicate		<20%
Check Standard	90-110	

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ANALYTICAL QA/QC DATA PACKAGE
FOR
GIVAUDAN-ROURE CORPORATION
CLIFTON, NEW JERSEY

SAMPLE DATE: MARCH 15, 1994

Report being sent under separate cover due to its size (over 300 pages)

IT CORPORATION
165 FIELDCREST AVENUE
EDISON, NEW JERSEY

APRIL 1994

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Analytical Data Report Package
for
Client: Givaudan-Roure Corporation
City & State: Clifton, New Jersey

Laboratory Sample #	Sample Location	Date and Time Collected
F403260-01	001	03/15/94 0850
F403260-02	003	03/15/94 0910

Laboratory Name : ITAS-Edison

Certification # : 12064

Supervisor/Manager Signature : Nancy Dunn

Printed Name : Nancy Dunn

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NA - Not available from chain of custody record.

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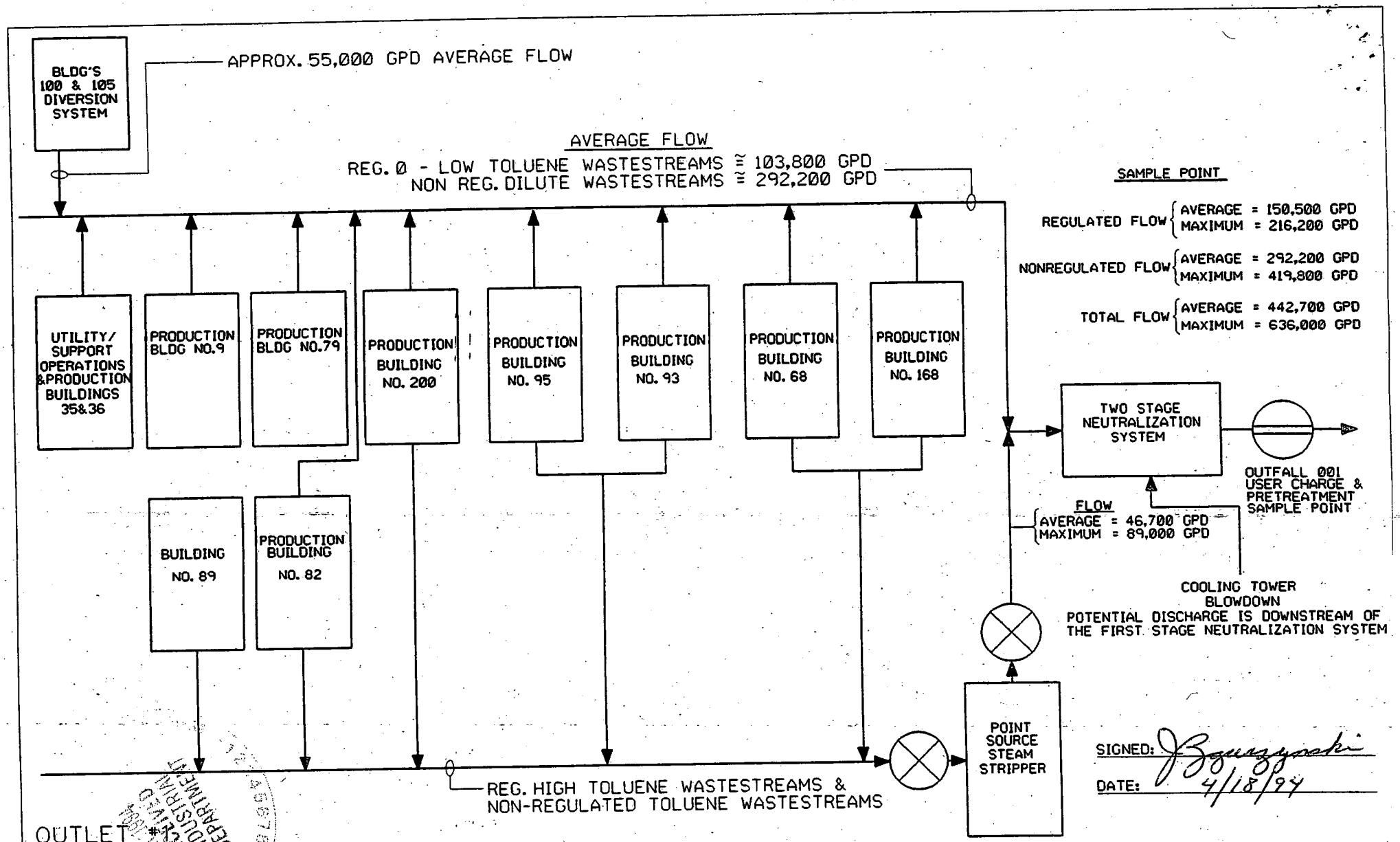
BLDG'S 100 & 105 DIVERSION SYSTEM
APPROX. 55,000 GPD AVERAGE FLOW
AVERAGE FLOW
REG. Ø - LOW TOLUENE WASTESTREAMS ≅ 103,800 GPD
NON REG. DILUTE WASTESTREAMS ≅ 292,200 GPD
SAMPLE POINT
REGULATED FLOW AVERAGE = 150,500 GPD MAXIMUM = 216,200 GPD
NONREGULATED FLOW AVERAGE = 292,200 GPD MAXIMUM = 419,800 GPD
TOTAL FLOW AVERAGE = 442,700 GPD MAXIMUM = 636,000 GPD
UTILITY/ SUPPORT OPERATIONS &PRODUCTION BUILDINGS 35&36
PRODUCTION BLDG NO.9
PRODUCTION BLDG NO.79
PRODUCTION BUILDING NO. 200
PRODUCTION BUILDING NO. 95
PRODUCTION BUILDING NO. 93
PRODUCTION BUILDING NO. 68
PRODUCTION BUILDING NO. 168
TWO STAGE NEUTRALIZATION SYSTEM
OUTFALL 001 USER CHARGE & PRETREATMENT SAMPLE POINT
FLOW
AVERAGE = 46,700 GPD
MAXIMUM = 89,000 GPD
COOLING TOWER BLOWDOWN
POTENTIAL DISCHARGE IS DOWNSTREAM OF THE FIRST STAGE NEUTRALIZATION SYSTEM
BUILDING NO. 89
PRODUCTION BUILDING NO. 82
POINT SOURCE STEAM STRIPPER
REG. HIGH TOLUENE WASTESTREAMS & NON-REGULATED TOLUENE WASTESTREAMS
SIGNED: J Bauszynski
DATE: 4/18/94
OUTLET #1
OUTLET 034010211 FOR USER CHARGE/PRETREATMENT IS LOCATED BY SAMPLE SHED BUILDING #11 LOCATED IN SOUTHWEST CORNER OF PROPERTY (40 CFR 414)
= COMPLIANCE MONITORING STATION
= MONITORING STATION
GIVAUDAN-ROURE CORPORATION
UPDATED WASTE WATER PFD OUTFALL 001 MARCH 1994
CHART 1994-04

GIVAUDAN-ROURE

Specialties

Natural and Synthetic Ingredients

Certified Mail - Return Receipt
Requested P-261-661-282

April 18, 1994

Mr. Frank D'Ascensio
Manager, Industrial & Pollution Control
Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Re: Monthly Report For Permit No. 03401024
Givaudan-Roure Corporation
Clifton, NJ 07015-5034

Dear Mr. D'Ascensio:

This report is submitted pursuant to the wastewater discharge reporting requirements as amended by the New Jersey Clean Water Enforcement Act (N.J.C.W.E.A).

The information submitted herein deals with the wastewater discharges from Givaudan-Roure operations at the referenced site. The following reports, documents and drawings are included in this submittal covering the month of March, 1994.

Attachment A - Outfall 001

- Completed PVSC form MR-1
- Analytical Reports
- Analytical QA/QC Data Package
- Updated Flow Diagram

Attachment B

- Completed PVSC forms MR-2 for Outfalls 001, 002, 003, and 004

The wastewater analyses reported herein were performed by the following certified laboratories:

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GIVAUDAN-ROURE CORPORATION

Delawanna Avenue, Clifton, New Jersey 07015-5034 • Tel: (201) 365-8000 • Telex 219259 givc ur
Fax (201) 777-9304

- International Technology Corporation
- Givaudan-Roure Environmental Laboratory

The New Jersey Department of Environmental Protection and Energy certified laboratory numbers assigned to these facilities are 12064 and 16867.

The comments that follow apply to the compliance issues governing Outfalls 001 and 003:

1. Outfall 001

Givaudan-Roure is within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H including PVSC local regulatory agency permit requirements except toluene.

Toluene

The official sample collected on March 15, 1994 indicates a 130 μg/l concentration of toluene.

The respective average and maximum mass limits for toluene are 0.13466 lbs./day and 0.35589 lbs./day. The mass value for toluene on March 15, 1994 was 0.49223 lbs./day. This calculated value exceeds the average mass limit for toluene by 0.35757 lbs./day and the maximum mass limit by 0.13634 lbs./day. The problem with toluene is being addressed in a consent order entered into with the PVSC.

Information was provided to the Agency on 3/14/94 in the attached letter with details of an accidental discharge of toluene and the corrective action to be taken by Givaudan-Roure to prevent future discharges.

While the cause of the toluene levels in the effluent sample on March 15, 1994 cannot be identified with certainty, we believe that this is partially true to an accidental release explained in the attached letter of Mr. J. Zgurzynski. It is believed that the excess toluene may result from residues due to that release. This has not been established with certainty, however.

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GIVAUDAN-ROURE

2. Outfall 003

Givaudan-Roure is within all regulatory permit effluent limitations.

If you have any questions regarding the above matter, please call Ms. Patricia Hopkins at (201) 365-8507 or Mr. Joseph Zgurzynski at (201)365-8566.

Sincerely,

GIVAUDAN-ROURE CORPORATION

Harold G. Thompson

H. G. Thompson
Sr.Vice President Operations

HGT:cj
Encl.
permt-mr.ap4

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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

Givaudan-Roure Corporation
100 Delawanna Ave.
Clifton, NJ 07014
Attn: Ms. Pat Hopkins

Date: March 07, 1994

NJ Lab Certification ID#: 12064

Job No.: 1221.27

P.O. Number: 106791

This is the Certificate of Analysis for the following samples:

Client Project ID: 001/003 MONTHLY
Date Received: 02/10/94
Number of Samples: 3
Sample Type: WATER

I. Introduction

Samples were labeled as follows:

SAMPLE IDENTIFICATION	LABORATORY #
001	F4-02-115-01
003	F4-02-115-02
WELL #6	F4-02-115-03

Reviewed and Approved:

Mary A. Wright
Project Manager

Company: Givaudan-Roure Corporation
Date: March 07, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-02-115

II. QA/QC

The results presented in this report were determined in accordance with EPA/NJDEPE approved methodologies except as noted in the optional sample narrative located on the second page of Section III.

In the presented analytical data, 'ND' or 'U' indicates that the compound is not detected at the specified limit. See Appendix A for other commonly used abbreviations.

III. Analytical Data

The analytical results for this report are presented by analytical test. Each set of data will include sample identification information, the analytical results, and the appropriate detection limits. Detection limits may vary due to factors arising from concentration/dilution of samples.

Company: Givaudan-Roure Corporation
Date: March 07, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-02-115

NARRATIVE

Matrix spike / duplicate and replicate analyses for petroleum hydrocarbons could not be performed due to insufficient sample volume. A blank spike and blank spike duplicate were analyzed with the samples to meet QC requirements.

Matrix spike / duplicate recoveries did not meet QC acceptance criteria for lead for batch 1685 due to matrix effects. Results were accepted on the basis of blank spike recoveries.

Matrix spike / duplicate recoveries did not meet QC acceptance criteria for zinc for batch 1685 due to matrix effects. Results were accepted on the basis of blank spike recoveries.

One acid surrogate recovery was outside of QC acceptance limits. MS/MSD confirmed matrix effects.

Company: Givaudan-Roure Corporation
Date: March 07, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-02-115

SAMPLE ID	001	003	WELL #6	
SAMPLED	02/08/94	02/08/94	02/08/94	
TEST				UNITS
Chloride			120 [2.0]	mg/L
Total Cyanide	0.018 [0.01]			mg/L
Petroleum Hydrocarbons	5.5 [1.0]	3.8 [1.0]		mg/L

ND indicates the parameter was not detected.
Detection limits are specified in [].

Company: Givaudan-Roure Corporation
Date: March 07, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-02-115

TEST NAME: Metals

SAMPLE ID: 001
SAMPLE DATE: 02/08/94

ANALYSIS DATE: 02/15/94

	Results in ug/L	Detection Limit
Lead	7.4	3.0
Zinc	120	20

Comments: ND indicates the compound is not detected at the level indicated.

Company: Givaudan-Roure Corporation
Date: March 07, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-02-115

TEST NAME: Acid/Base Neutrals

SAMPLE ID: 001
SAMPLE DATE: 02/08/94

ANALYSIS DATE: 02/16/94
QC BATCH #: W1593

	Results in ug/L	Detection Limit
Acenaphthene	ND	10
Acenaphthylene	3J	10
Anthracene	ND	10
Benzo(a)Anthracene	ND	10
Benzo(b)Fluoranthene	ND	10
Benzo(k)Fluoranthene	ND	10
Benzo(a)Pyrene	ND	10
Benzo(g,h,i)perylene	ND	10
bis(2-Chloroethyl)Ether	ND	10
bis(2-Chloroethoxy)Methane	ND	10
bis(2-Ethylhexyl)Phthalate	48B	10
bis(2-Chloroisopropyl)Ether	ND	10
4-Bromophenyl Phenyl Ether	ND	10
Butyl Benzyl Phthalate	ND	10
2-Chloronaphthalene	ND	10
4-Chlorophenyl Phenyl Ether	ND	10
Chrysene	ND	10
Dibenzo(a,h)anthracene	ND	10
Di-n-butylphthalate	2BJ	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
3,3'-Dichlorobenzidine	ND	10
Diethylphthalate	ND	10
Dimethylphthalate	ND	10
2,4-Dinitrotoluene	ND	10
2,6-Dinitrotoluene	ND	10
Di-n-Octylphthalate	ND	10
Fluoranthene	ND	10
Fluorene	ND	10
Hexachlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Hexachloroethane	ND	10

Company: Givaudan-Roure Corporation
Date: March 07, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-02-115

TEST NAME: **Acid/Base Neutrals**

SAMPLE ID: **001**
SAMPLE DATE: **02/08/94**

Indeno(1,2,3-cd)pyrene	ND	10
Isophorone	22	10
Naphthalene	ND	10
Nitrobenzene	ND	10
N-Nitrosodipropylamine	ND	10
Phenanthrene	ND	10
Pyrene	ND	10
1,2,4-Trichlorobenzene	ND	10
4-Chloro-3-methylphenol	ND	10
2-Chlorophenol	ND	10
2,4-Dichlorophenol	ND	10
2,4-Dimethylphenol	ND	10
2,4-Dinitrophenol	ND	50
4,6-Dinitro-2-methylphenol	ND	50
2-Nitrophenol	22	10
4-Nitrophenol	ND	50
Pentachlorophenol	ND	50
Phenol	ND	10
2,4,6-Trichlorophenol	ND	10

Comments: ND indicates the compound is not detected at the level indicated.

Company: Givaudan-Roure Corporation
Date: March 07, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-02-115

TEST NAME: Volatile Organics

SAMPLE ID: 001
SAMPLE DATE: 02/08/94

ANALYSIS DATE: 02/11/94
QC BATCH #: K0214

	Results in ug/L	Detection Limit
Acrolein	ND	250
Acrylonitrile	ND	250
Benzene	4J	25
Bromoform	ND	25
Bromomethane	ND	50
Carbon Tetrachloride	ND	25
Chlorobenzene	ND	25
Chlorodibromomethane	ND	25
Chloroethane	ND	50
2-Chloroethylvinyl Ether	ND	25
Chloroform	22J	25
Chloromethane	ND	50
Dichlorobromomethane	5J	25
1,1-Dichloroethane	ND	25
1,2-Dichloroethane	ND	25
1,1-Dichloroethene	ND	25
1,2-Dichloroethene	ND	25
1,2-Dichloropropane	ND	25
cis-1,3-Dichloropropene	ND	25
trans-1,3-Dichloropropene	ND	25
Ethylbenzene	200	25
Methylene Chloride	19BJ	25
1,1,2,2-Tetrachloroethane	ND	25
Tetrachloroethene	ND	25
Toluene	46	25
1,1,1-Trichloroethane	ND	25
1,1,2-Trichloroethane	ND	25
Trichloroethene	ND	25
Trichlorofluoromethane	ND	25
Vinyl Chloride	ND	50
Dichlorodifluoromethane	ND	25

Comments: ND indicates the compound is not detected at the level indicated.

Company: Givaudan-Roure Corporation
Date: March 07, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-02-115

IV METHODOLOGY

Requested analyses were performed according to the following methods.

Metals

The analysis of all metals is based on Test Methods for Evaluating Solid Waste (SW-846), 3rd Edition, Method 6010 (Inductively Coupled Plasma) with the exception of the following:

Lead	SW-846 3rd Ed.	7421	(Graphite Furnace)
Arsenic	SW-846 3rd Ed.	7060	(Graphite Furnace)
Selenium	SW-846 3rd Ed.	7740	(Graphite Furnace)
Antimony	SW-846 3rd Ed.	7041	(Graphite Furnace)
Thallium	SW-846 3rd Ed.	7841	(Graphite Furnace)
Mercury	EPA, Rev. Ed.	245.5	(Cold Vapor)
Zinc	EPA Method 200.7 (ICP)		

Base/Neutral and Acid Extractable Organics - GC/MS (Water)

The analysis of base/neutral and acid extractable organics is based on EPA Method 625. An aliquot of sample is serially extracted with methylene chloride at a pH greater than 11.0 and again at a pH less than 2.0 using a separatory funnel. The extracts are dried through sodium sulfate, concentrated and analyzed by mass spectroscopy.

Volatile Organics - GC/MS (Waste water)

For the analysis of volatile organics, EPA Methods 624 is used. An inert gas is bubbled through a sample contained in a specifically designed purging chamber. The purgeables are efficiently transferred from the aqueous phase to the vapor phase. The vapor is swept through a sorbent column where the purgeables are trapped. After purging is completed, the sorbent column is heated and backflushed with the inert gas to desorb the purgeables onto a gas

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000

Company: Givaudan-Roure Corporation
Date: March 07, 1994
Client Job No.: 1221.27
Work Order: F4-02-115

chromatographic column. The gas chromatograph is temperature programmed to separate the purgeables which are then detected with a mass spectrometer.

Chloride

The analysis of chloride is based on EPA, Methods for Chemical Analysis of Water and Wastes, Revison 1983, Method 325.3. (Titrimetric Analysis)

Cyanide - Auto Analyzer Method

The analysis of cyanide is based on EPA, Methods for Chemical Analysis of Water and Wastes, Revision 1983, Method 335.3. (Automated Spectrophotometric Analysis)

Petroleum Hydrocarbons - IR

The analysis of petroleum hydrocarbons is based on EPA, Methods for Chemical Analysis of Water and Wastes, Revision 1983, Method, 418.1. (Infrared Spectrophotometric Analysis)

APPENDIX A

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000

EFINITIONS

D(U) - Analyte was analyzed for, but not detected. The value given after the ND or U is the detection limit for that compound.

A - The compound denoted with an "A" indicates a suspected aldol condensation product.

B - Indicates the compound was also detected in the blank.

J - Indicates the compound was detected in the sample, but at levels less than the detection limit. Results should be regarded as estimated.

MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
ug/L - Micrograms/Liter
ug/Kg - Micrograms/Kilogram
mg/Kg - Milligrams/Kilogram
%Rec - Precent Recovery
mg/L - Milligrams/Liter
DL - Detection Limit

ALITY CONTROL WINDOWS

Surrogate Recoveries

GC/MS Volatiles (624, 8240)	Water	Soil
-1,2-dichloroethane	76-114	70-121
-toluene	88-110	81-117
4-Bromofluorobenzene	86-115	74-121

Surrogate Recoveries

GC/MS SemiVolatiles (625, 8270)	Water	Soil
D5-Nitrobenzene	35-114	23-120
2-Fluorobiphenyl	43-116	30-115
D14-Terphenyl	33-141	18-137
D5-Phenol	10-94	24-113
2-Fluorophenol	21-100	25-121
2,4,6-Tribromophenol	10-123	19-122

Surrogate Recoveries

esticides* (608, 8080)	Water	Soil
Tetrachloro-m-xylene	60-150	60-150
butyl chlorendate	24-154	20-150

Surrogate Recoveries

Method 602, BTEX, 8020	Water	Soil
4-Bromofluorobenzene	62-139	62-138

* SW846 allows one surrogate to be outside recovery windows.

Surrogate Recoveries

Method 601 (8010)	Water	Soil
omochloromethane	74-121	74-121

Surrogate Recoveries

Method 8060**	Water	Soil
Tetrachloro-m-xylene	60-150	60-150
Decachlorobiphenyl	60-150	60-150

thod 8015	Water	Soil
etone	68-132	68-132

Herbicides**	Water	Soil
2,4-DB	60-150	60-150

** Advisory Limits

ETALS / WET CHEMISTRY

	Recovery	RPD
ank Spike	75-125	
Blank Spike Duplicate	75-125	<20%
trix Spike	75-125	
trix Spike Duplicate	75-125	<20%

	Recovery	RPD
Replicate		<20%
Check Standard	90-110	

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

Givaudan-Roure Corporation
100 Delawanna Ave.
Clifton, NJ 07014
Attn: Ms. Pat Hopkins

Date: April 15, 1994

NJ Lab Certification ID#: 12064

Job No.: 1221.27A

P.O. Number:

This is the Certificate of Analysis for the following samples:

Client Project ID: Specials
Date Received: 04/05/94
Number of Samples: 4
Sample Type: water

I. Introduction

Samples were labeled as follows:

SAMPLE IDENTIFICATION	LABORATORY #
PT 001 @ 08:15	F4-04-027-01
PT 001 @ 09:30	F4-04-027-02
PT 001 @ 10:50	F4-04-027-03
PT 001 @ 13:15	F4-04-027-04

Reviewed and Approved:

Mary A. Wright
Project Manager

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories
American Association for Laboratory Accreditation

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Company: Givaudan-Roure Corporation
Date: April 15, 1994
Client Job No.: 1221.27A
Work Order: F4-04-027

II. QA/QC

The results presented in this report were determined in accordance with EPA/NJDEPE approved methodologies except as noted in the optional sample narrative located on the second page of Section III.

In the presented analytical data, 'ND' or 'U' indicates that the compound is not detected at the specified limit. See Appendix A for other commonly used abbreviations.

III. Analytical Data

The analytical results for this report are presented by analytical test. Each set of data will include sample identification information, the analytical results, and the appropriate detection limits. Detection limits may vary due to factors arising from concentration/dilution of samples.

Company: Givaudan-Roure Corporation
Date: April 15, 1994
Client Job No.: 1221.27A

IT ANALYTICAL SERVICES
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(908) 225-2000
Work Order: F4-04-027

NARRATIVE

Matrix spike / duplicate recoveries did not meet QC acceptance criteria for sulfide for the batch due to matrix effects. Results were accepted on the basis of blank spike recoveries.

RPD's for TPHC (batch 1693) did not meet QC acceptance criteria. Data was accepted since the difference between the results was less than three times the detection limit.

Matrix spike and replicate analyses for oil & grease could not be performed due to insufficient sample volume. A blank spike and blank spike duplicate were analyzed with the samples to meet QC requirements.

Matrix spike and replicate analyses for petroleum hydrocarbons could not be performed due to insufficient sample volume. A blank spike and blank spike duplicate were analyzed with the samples to meet QC requirements.

Oil and grease and petroleum hydrocarbon for sample PT 001 @ 13:15 (F404027-04) were cancelled.

Company: Givaudan-Roure Corporation
Date: April 15, 1994
Client Job No.: 1221.27A

IT ANALYTICAL SERVICES
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Work Order: F4-04-027

SAMPLE ID	PT 001 @ 08:15	PT 001 @ 09:30	PT 001 @ 10:50	
SAMPLED	04/05/94	04/05/94	04/05/94	
TEST				UNITS
Oil and Grease	140 [25]	80 [25]	75 [10]	mg/L
Petroleum Hydrocarbons	4.7 [1.0]	3.3 [1.0]	1.3 [1.0]	mg/L
Sulfide	ND [0.04]	ND [0.04]	ND [0.04]	mg/L

ND indicates the parameter was not detected.
Detection limits are specified in [].

Company: Givaudan-Roure Corporation
Date: April 15, 1994
Client Job No.: 1221.27A

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000

Work Order: F4-04-027

SAMPLE ID	PT 001 @ 12:15	
SAMPLED	04/05/94	
TEST		UNITS
Sulfide	ND [0.04]	mg/L

ND indicates the parameter was not detected.
Detection limits are specified in [].

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000

Company: Givaudan-Roure Corporation
Date: April 15, 1994
Client Job No.: 1221.27A
Work Order: F4-04-027

IV METHODOLOGY

Requested analyses were performed according to the following methods.

Oil & Grease - IR

The analysis of oil and grease is based on EPA, Methods for Chemical Analysis of Water and Wastes, Revision 1983, Method 413.2. (Infrared Spectrophotometric)

Petroleum Hydrocarbons - IR

The analysis of petroleum hydrocarbons is based on EPA, Methods for Chemical Analysis of Water and Wastes, Revision 1983, Method, 418.1. (Infrared Spectrophotometric Analysis)

Sulfide

The analysis of sulfide is based on EPA, Methods for Chemical Analysis of Water and Wastes, Revision 1983, Method 376.1. (Titrimetric Analysis)

APPENDIX A

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000

DEFINITIONS

ND(U) - Analyte was analyzed for, but not detected. The value given after the ND or U is the detection limit for that compound.

A - The compound denoted with an "A" indicates a suspected aldol condensation product.

B - Indicates the compound was also detected in the blank.

J - Indicates the compound was detected in the sample, but at levels less than the detection limit. Results should be regarded as estimated.

MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
ug/L - Micrograms/Liter
ug/Kg - Micrograms/Kilogram
mg/Kg - Milligrams/Kilogram
%Rec - Precent Recovery
mg/L - Milligrams/Liter
DL - Detection Limit

QUALITY CONTROL WINDOWS

Surrogate Recoveries

GC/MS Volatiles (624, 8240)	Water	Soil
D4-1,2-dichloroethane	76-114	70-121
D8-toluene	88-110	81-117
4-Bromofluorobenzene	86-115	74-121

Surrogate Recoveries

GC/MS SemiVolatiles (625, 8270)	Water	Soil
D5-Nitrobenzene	35-114	23-120
2-Fluorobiphenyl	43-116	30-115
D14-Terphenyl	33-141	18-137
D5-Phenol	10-94	24-113
2-Fluorophenol	21-100	25-121
2,4,6-Tribromophenol	10-123	19-122

Surrogate Recoveries

Pesticides* (608, 8080)	Water	Soil
Tetrachloro-m-xylene	60-150	60-150
Dibutyl chlorendate	24-154	20-150

Surrogate Recoveries

Method 602, BTEX, 8020	Water	Soil
4-Bromofluorobenzene	62-139	62-138

* SW846 allows one surrogate to be outside recovery windows.

Surrogate Recoveries

Method 601 (8010)	Water	Soil
Bromochloromethane	74-121	74-121

Method 8015	Water	Soil
Acetone	68-132	68-132

Surrogate Recoveries

Method 8060**	Water	Soil
Tetrachloro-m-xylene	60-150	60-150
Decachlorobiphenyl	60-150	60-150

Herbicides**	Water	Soil
2,4-DB	60-150	60-150

** Advisory Limits

METALS / WET CHEMISTRY

	Recovery	RPD
Blank Spike	75-125	
Blank Spike Duplicate	75-125	<20%
Matrix Spike	75-125	
Matrix Spike Duplicate	75-125	<20%

	Recovery	RPD
Replicate		<20%
Check Standard	90-110	

1404 027

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 408543
Page 1 of 2

Project Name/No. [1] Givaudan-Roure
Sample Team Members [2]
Profit Center No. [3]
Project Manager [4] Mary Wright
Purchase Order No. [6]
Required Report Date [11] 2-weeks

Samples Shipment Date [7] 4/5/94
Lab Destination [8] ITAS Edison
Lab Contact [9]
Project Contact/Phone [12] Pat Hopkins (201)365-8507
Carrier/Waybill No. [13]

Bill to: [5] Givaudan-Roure
100 Delawanna Ave P.O. Box 5037
Clifton, N.J. 07015
Att: Accounts Payable

Report to: [10] Givaudan-Roure Corp
125 Delawanna Ave
Clifton, N.J. 07015
Att: Pat Hopkins

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
	Discharge Pt 001	4/5/94 8:15	Glass	1L	H_2SO_4 → pH 2	Oil + Grease	Quality pH pH 2	
	Discharge Pt 001	4/5/94 8:15	Glass	1L	H_2SO_4 → pH 2	Total Petroleum Hydrocarbons		
	Discharge Pt 001	4/5/94 8:15	Plastic	1L	NaOH	Sulfides		
	Discharge Pt 001	4/5/94 9:30	Glass	1L	H_2SO_4 → pH 2	Oil + Grease	pH 2	
	Discharge Pt 001	4/5/94 9:30	Glass	1L	H_2SO_4 → pH 2	Total Petroleum Hydrocarbons		
	Discharge Pt 001	4/5/94 9:30	Plastic	1L	NaOH	Sulfides		
	Discharge Pt 001	4/5/94 10:50	Glass	1L	H_2SO_4 → pH 2	Oil + Grease	pH 2	
	Discharge Pt 001	4/5/94 10:50	Glass	1L	H_2SO_4 → pH 2	Total Petroleum Hydrocarbons		

Special Instructions: [23] 2-week Report Turnaround

Possible Hazard Identification: [24]
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal: [25]
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

Turnaround Time Required: [26]
Normal ☐ Rush ☒ 2 weeks for results

QC Level: [27]
I. ☐ II. ☐ III. ☐ Project Specific (specify): Reduced Deliverable

1. Relinquished by [28] (Signature/Affiliation)	Date: 4/5/94 Time: 1:25 PM	1. Received by [28] (Signature/Affiliation)	Date: 4/5/94 Time: 1:30 PM
2. Relinquished by (Signature/Affiliation)	Date: 4/5/94 Time: 2:20 PM	2. Received by (Signature/Affiliation)	Date: 4-5-94 Time: 1420
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: [29]

LOTA 16591

White: To accompany samples
Yellow: Field copy
*See back of form for special instructions

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No.[30] 408543

Project Name Giveaway-Rose

Project No.

Samples Shipment Date 4/5/94

ONE CONTAINER PER LINE

Sample[14] Number	Sample[15] Description/Type	Date/Time[16] Collected	Container[17] Type	Sample[18] Volume	Pre-[19] servative	Requested Testing[20] Program	Condition on[21] Receipt	Disposal[22] Record No.
	Discharge PA001	4/5/94 10:50	Plastic	1L	NaOH	Sulfides	good condition	
	Discharge PA001	4/5/94 1:15	Glass	1L	H_2SO_4 → pH 2	Oil & Grease		
	Discharge PA001	4/5/94 1:15	Glass	1L	H_2SO_4 → pH 2	Total Petroleum Hydrocarbons		
	Discharge PA001	4/5/94 1:15	Plastic	1L	NaOH	Sulfides		

White: To accompany samples Yellow: Field copy

*See back of form for special instructions.

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

Givaudan-Roure Corporation
100 Delawanna Ave.
Clifton, NJ 07014
Attn: Ms. Pat Hopkins

Date: April 15, 1994

NJ Lab Certification ID#: 12064

Job No.: 1221.27

P.O. Number:

This is the Certificate of Analysis for the following samples:

Client Project ID: Special
Date Received: 04/07/94
Number of Samples: 1
Sample Type: WATER

I. Introduction

Samples were labeled as follows:

SAMPLE IDENTIFICATION	LABORATORY #
001	F4-04-071-01

Reviewed and Approved:

Mary A. Wright
Project Manager

Company: Givaudan-Roure Corporation
Date: April 15, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-04-071

II. QA/QC

The results presented in this report were determined in accordance with EPA/NJDEPE approved methodologies except as noted in the optional sample narrative located on the second page of Section III.

In the presented analytical data, 'ND' or 'U' indicates that the compound is not detected at the specified limit. See Appendix A for other commonly used abbreviations.

III. Analytical Data

The analytical results for this report are presented by analytical test. Each set of data will include sample identification information, the analytical results, and the appropriate detection limits. Detection limits may vary due to factors arising from concentration/dilution of samples.

Company: Givaudan-Roure Corporation
Date: April 15, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-04-071

NARRATIVE

Matrix spike and replicate analyses for oil & grease could not be performed due to insufficient sample volume. A blank spike and blank spike duplicate were analyzed with the samples to meet QC requirements.

Matrix spike and replicate analyses for total petroleum hydrocarbons could not be performed due to insufficient sample volume. A blank spike and blank spike duplicate were analyzed with the samples to meet QC requirements.

Company: Givaudan-Roure Corporation
Date: April 15, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-04-071

SAMPLE ID	001	
SAMPLED	04/07/94	
TEST		UNITS
Oil and Grease	36 [1.0]	mg/L
Petroleum Hydrocarbons	1.9 [1.0]	mg/L

ND indicates the parameter was not detected.
Detection limits are specified in [].

Company: Givaudan-Roure Corporation
Date: April 15, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-04-071

IV METHODOLOGY

Requested analyses were performed according to the following methods.

Oil & Grease - IR

The analysis of oil and grease is based on EPA, Methods for Chemical Analysis of Water and Wastes, Revision 1983, Method 413.2. (Infrared Spectrophotometric)

Petroleum Hydrocarbons - IR

The analysis of petroleum hydrocarbons is based on EPA, Methods for Chemical Analysis of Water and Wastes, Revision 1983, Method, 418.1. (Infrared Spectrophotometric Analysis)

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000

DEFINITIONS

ND(U) - Analyte was analyzed for, but not detected. The value given after the ND or U is the detection limit for that compound.

A - The compound denoted with an "A" indicates a suspected aldol condensation product.

B - Indicates the compound was also detected in the blank.

J - Indicates the compound was detected in the sample, but at levels less than the detection limit Results should be regarded as estimated.

MS	Matrix Spike	ug/L	Micrograms/Liter	%Rec	Precent Recovery
MSD	Matrix Spike Duplicate	ug/Kg	Micrograms/Kilogram	mg/L	Milligrams/Liter
RPD	Relative Percent Difference	mg/Kg	Milligrams/Kilogram	DL	Detection Limit

QUALITY CONTROL WINDOWS

Surrogate Recoveries

GC/MS Volatiles (624, 8240)	Water	Soil
D4-1,2-dichloroethane	76-114	70-121
D8-toluene	88-110	81-117
4-Bromofluorobenzene	86-115	74-121

Surrogate Recoveries

GC/MS SemiVolatiles (625, 8270)	Water	Soil
D5-Nitrobenzene	35-114	23-120
2-Fluorobiphenyl	43-116	30-115
D14-Terphenyl	33-141	18-137
D5-Phenol	10-94	24-113
2-Fluorophenol	21-100	25-121
2,4,6-Tribromophenol	10-123	19-122

Surrogate Recoveries

Pesticides* (608, 8080)	Water	Soil
Tetrachloro-m-xylene	60-150	60-150
Dibutyl chlorendate	24-154	20-150

Surrogate Recoveries

Method 602, BTEX, 8020	Water	Soil
4-Bromofluorobenzene	62-139	62-138

* SW846 allows one surrogate to be outside recovery windows.

Surrogate Recoveries

Method 601 (8010)	Water	Soil
Bromochloromethane	74-121	74-121

Method 8015	Water	Soil
Acetone	68-132	68-132

Surrogate Recoveries

Method 8060**	Water	Soil
Tetrachloro-m-xylene	60-150	60-150
Decachlorobiphenyl	60-150	60-150

Herbicides**	Water	Soil
2,4-DB	60-150	60-150

** Advisory Limits

METALS / WET CHEMISTRY

	Recovery	RPD
Blank Spike	75-125	
Blank Spike Duplicate	75-125	<20%
Matrix Spike	75-125	
Matrix Spike Duplicate	75-125	<20%

	Recovery	RPD
Replicate		<20%
Check Standard	90-110	

F4-04-041

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 479196
Page 1 of 1

Project Name/No. 1GIVA-122127
Sample Team Members 2
Profit Center No. 3 4614
Project Manager 4 M WRIGHT
Purchase Order No. 6 108071
Required Report Date 11

Samples Shipment Date 7 4/7/94
Lab Destination 8 ITAS EDISON
Lab Contact 9 SANDY ANDERSON
Project Contact/Phone 12 Pat Hopkins 201/365-8507
Carrier/Waybill No. 13

Bill to: 5 Givaudan-Roure Corp
100 Delawanna Ave. P.O. Box 5034
Clifton, N.J. 07015
Att: Accounts Payable

Report to: 10 Givaudan-Roure Corp
125 Delawanna Ave
Clifton N.J. 07015
Att: Pat Hopkins

ONE CONTAINER PER LINE

Sample Number 14	Sample Description/Type 15	Date/Time Collected 16	Container Type 17	Sample Volume 18	Preservative 19	Requested Testing Program 20	Condition on Receipt 21	Disposal Record No. 22
01A	001	4/7/94 8:45	PL	1l	HNO3	PB 2A	Good 4°	FOR LAB USE ONLY
01B	↓	4/7/94 8:45	PL	1l	NaOH	CN		
01C	↓	4/7/94 8:45	AG	2.5l	ICE 4°	ABN		
01DEF	↓	4/7/94 8:45	CG	3x 40ml	ICE 4°	VOA		
01G	001	4/7/94 8:45	CG	1l	H2SO4	TPHC		FOR LAB USE ONLY
02A	003	4/7/94 8:30	CG	1l	H2SO4	TPHC		
03A	Well #6	4/7/94 9:00AM	PL	250ml	Ice 4°	Chloride		
	001	4/7/94 8:45	Glass	1L	H2SO4	Oil + Grease		

Special Instructions: 23

Possible Hazard Identification: 24
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal: 25
Return to Client ☐ Disposal by Lab ☐ Archive _____ (mos.)

Turnaround Time Required: 26
Normal ☒ Rush ☐

QC Level: 27
I ☐ II ☐ III ☐ Project Specific (specify): QA Report as per Quote

1. Relinquished by 28 (Signature/Affiliation) Pat Hopkins	Date: 4/7/94 Time: 10:25 AM	1. Received by 28 (Signature/Affiliation)	Date: 4/7 Time: 10:35 AM
2. Relinquished by (Signature/Affiliation)	Date: 4/7 Time: 11:11 AM	2. Received by (Signature/Affiliation) R.J. Anderson ITI	Date: 4-7-94 Time: 11:11
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: 29
Lot # 16424

ANALYTICAL RESULTS

Compound	October	November	December	January	February	March	April 4/5/94	April 4/7/94	AVG	MAX	STANDARD AVG	STANDARD MAX
Oil & Grease (mg/L)							140	36				
							80					
							75		82.75	140		
Petroleum Hydrocarbons (mg/L)	3.92	6.73	3.08	<1.0	5.5	<1	4.7	1.9				
							3.3					
							1.3		3.14	6.73		100
Sulfide (mg/L)							<0.04					
							<0.04					
							<0.04					
							<0.04		<0.04	<0.04		
1,1-Dichloroethylene	<50	<25	<25	<5	<25	<50			<50	<50	22	60
1,1,1-Trichloroethane	<50	<25	<25	<5	<25	<50			<50	<50	22	59
1,2-Trans-Dichloroethylene	<50	<25	<25	<5	<25	<50			<50	<50	25	66
1,2-Dichlorobenzene	<1000	<10	<10	<10	<10	<40			<1000	<1000	196	794
1,2-Dichloropropane	<50	<25	<25	<5	<25	<50			<50	<50	196	794
1,2-Dichloroethane	70	<25	<25	<5	<25	<50			22.5	70	180	574
1,3-Dichloropropene	<50	<25	<25	<5	<25	<50			<50	<50	196	794
1,4-Dichlorobenzene	<1000	<10	<10	<10	<10	<40			<1000	<1000	142	380
Benzene	<50	<25	<25	<5	4	<50			13.58	4	57	134
Bromodichloromethane	<50	<25	<25	<5	5	<50			13.75	5	142	380
Bromomethane	<100	<25	<25	<5	<50	100			<100	<100	142	380
Chlorobenzene	<50	<25	<25	<5	<25	<50			<50	<50	142	380
Chloromethane	<100	<25	<25	<5	<50	100			<100	<100	110	295
Cyanide (Total) (mg/L)	<0.01	<0.01	<0.01	<0.01	0.018	<0.01			0.0072	0.018	220	640
Dibromochloromethane	<50	<25	<25	<5	<25	<50			<50	<50	196	794
Dichloromethane	<50	<25	<25	<5	19	26			16.25	26	36	170
Ethylbenzene	<50	<25	<25	<5	200	<50			46.25	200	142	380
Lead(Total)	16	<30	4.1	16	7.4	8			11.08	16	320	690
Naphthalene	<1000	<10	<10	<10	<10	<40			<1000	<1000	19	47
Tetrachloroethylene	<50	<25	<25	<5	<25	<50			<50	<50	52	164
Tetrachloromethane	<50	<25	<25	<5	<25	<50			<50	<50	142	380
Toluene	<50	<25	<25	8	46	130			39	130	28	74
Tribromomethane	<50	<25	<25	<5	<25	<50			<50	<50	196	794
Trichloromethane	<50	66	<25	8	22	<50			24.58	66	111	325

(5)

*Results in ppb (ug/L) except where noted

ANALYTICAL RESULTS

Compound	October	November	December	January	February	March	April	April	AVG	MAX	STAN	DARD
							4/5/94	4/7/94			AVG	MAX
TOTAL PHENOLS												
4-Chloro-3-methylphenol	<1000	<10	<10	<10	<10	<40			<1000	<1000		
2-Chlorophenol	<1000	<10	<10	<10	<10	<40			<1000	<1000		
2,4-dichlorophenol	<1000	<10	<10	<10	<10	<40			<1000	<1000		
2,4-Dimethylphenol	<1000	<10	<10	<10	<10	<40			<1000	<1000		
2,4-Dinitrophenol	<5000	<50	<50	<50	<50	<200			<5000	<5000		
4,6-Dinitro-2-methylphenol	<5000	<50	<50	<50	<50	<200			<5000	<5000		
2-Nitrophenol	<1000	11	<10	<10	22	<40			93.83	22		
4-Nitrophenol	<5000	<50	<50	<50	<50	<200			<5000	<5000		
Pentachlorophenol	<5000	<50	<50	<50	<50	<200			<5000	<5000		
Phenol	360	<10	<10	<10	<10	<40			66.67	360		
2,4,6-Trichlorophenol	<1000	<10	<10	<10	<10	<40			<1000	<1000		

*Results in ppb (ug/L) except where noted

PVSC
- Analytical

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

Givaudan-Roure Corporation
100 Delawanna Ave.
Clifton, NJ 07014
Attn: Ms. Pat Hopkins

Date: April 28, 1994

NJ Lab Certification ID#: 12064

Job No.: 1221.27

P.O. Number: 108071

This is the Certificate of Analysis for the following samples:

Client Project ID: 001/003 MONTHLY
Date Received: 04/07/94
Number of Samples: 3
Sample Type: WATER

I. Introduction

Samples were labeled as follows:

SAMPLE IDENTIFICATION	LABORATORY #
001	F4-04-061-01
003	F4-04-061-02
WELL # 6	F4-04-061-03

Reviewed and Approved:

Mary A. Wright
Project Manager

Company: Givaudan-Roure Corporation
Date: April 28, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-04-061

II. QA/QC

The results presented in this report were determined in accordance with EPA/NJDEPE approved methodologies except as noted in the optional sample narrative located on the second page of Section III.

In the presented analytical data, 'ND' or 'U' indicates that the compound is not detected at the specified limit. See Appendix A for other commonly used abbreviations.

III. Analytical Data

The analytical results for this report are presented by analytical test. Each set of data will include sample identification information, the analytical results, and the appropriate detection limits. Detection limits may vary due to factors arising from concentration/dilution of samples.

Company: Givaudan-Roure Corporation
Date: April 28, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-04-061

NARRATIVE

Matrix spike and replicate analyses for petroleum hydrocarbons could not be performed due to insufficient sample volume. A blank spike and blank spike duplicate were analyzed with the samples to meet QC requirements.

All VOA surrogate recoveries for sample 001 (F404061-01) did not meet QC acceptance criteria. Reanalysis confirmed the matrix effects.

Company: Givaudan-Roure Corporation
Date: April 28, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-04-061

SAMPLE ID	001	003	WELL # 6	
SAMPLED	04/07/94	04/07/94	04/07/94	
TEST				UNITS
Chloride			120 [2.0]	mg/L
Total Cyanide	ND [0.01]			mg/L
Petroleum Hydrocarbons	1.9 [1.0]	ND [1.0]		mg/L

ND indicates the parameter was not detected.
Detection limits are specified in [].

Company: Givaudan-Roure Corporation
Date: April 28, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-04-061

TEST NAME: **Metals**

SAMPLE ID: **001**
SAMPLE DATE: **04/07/94**

ANALYSIS DATE: 04/11/94

	Results in ug/L	Detection Limit
Lead	53	3.0
Zinc	240	20

Comments: ND indicates the compound is not detected at the level indicated.

Company: Givaudan-Roure Corporation
Date: April 28, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-04-061

TEST NAME: **Acid/Base Neutrals**

SAMPLE ID: **001**
SAMPLE DATE: **04/07/94**

ANALYSIS DATE: 04/11/94

Results in	ug/L	Detection Limit
Acenaphthene	ND	10
Acenaphthylene	ND	10
Anthracene	ND	10
Benzo(a)Anthracene	ND	10
Benzo(b)Fluoranthene	ND	10
Benzo(k)Fluoranthene	ND	10
Benzo(a)Pyrene	ND	10
Benzo(g,h,i)perylene	ND	10
bis(2-Chloroethyl)Ether	ND	10
bis(2-Chloroethoxy)Methane	ND	10
bis(2-Ethylhexyl)Phthalate	ND	10
bis(2-Chloroisopropyl)Ether	ND	10
4-Bromophenyl Phenyl Ether	ND	10
Butyl Benzyl Phthalate	ND	10
2-Chloronaphthalene	ND	10
4-Chlorophenyl Phenyl Ether	ND	10
Chrysene	ND	10
Dibenzo(a,h)anthracene	ND	10
Di-n-butylphthalate	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
3,3'-Dichlorobenzidine	ND	20
Diethylphthalate	ND	10
Dimethylphthalate	ND	10
2,4-Dinitrotoluene	ND	10
2,6-Dinitrotoluene	ND	10
Di-n-Octylphthalate	ND	10
Fluoranthene	ND	10
Fluorene	ND	10
Hexachlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Hexachloroethane	ND	10

Company: Givaudan-Roure Corporation
Date: April 29, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-04-061

TEST NAME: **Acid/Base Neutrals**

SAMPLE ID: **001**
SAMPLE DATE: **04/07/94**

Indeno(1,2,3-cd)pyrene	ND	10
Isophorone	ND	10
Naphthalene	ND	10
Nitrobenzene	ND	10
N-Nitrosodipropylamine	ND	10
Phenanthrene	ND	10
Pyrene	ND	10
1,2,4-Trichlorobenzene	ND	10
4-Chloro-3-methylphenol	ND	10
2-Chlorophenol	ND	10
2,4-Dichlorophenol	ND	10
2,4-Dimethylphenol	ND	10
2,4-Dinitrophenol	ND	50
4,6-Dinitro-2-methylphenol	ND	50
2-Nitrophenol	ND	10
4-Nitrophenol	ND	50
Pentachlorophenol	ND	50
Phenol	ND	10
2,4,6-Trichlorophenol	ND	10

Comments: ND indicates the compound is not detected at the level indicated.

Company: Givaudan-Roure Corporation
Date: April 28, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-04-061

TEST NAME: **Volatile Organics**

SAMPLE ID: **001**
SAMPLE DATE: **04/07/94**

ANALYSIS DATE: 04/14/94

Results in	ug/L	Detection Limit
Acrolein	ND	50
Acrylonitrile	ND	50
Benzene	ND	5
Bromoform	ND	5
Bromomethane	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chlorodibromomethane	ND	5
Chloroethane	ND	5
2-Chloroethylvinyl Ether	ND	5
Chloroform	ND	5
Chloromethane	ND	5
Dichlorobromomethane	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethane	ND	5
1,1-Dichloroethene	ND	5
1,2-Dichloroethene	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
trans-1,3-Dichloropropene	ND	5
Ethylbenzene	ND	5
Methylene Chloride	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	6	5
1,1,1-Trichloroethane	ND	5
1,1,2-Trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	5

Comments: ND indicates the compound is not detected at the level indicated.

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000

Company: Givaudan-Roure Corporation
Date: April 28, 1994
Client Job No.: 1221.27
Work Order: F4-04-061

IV METHODOLOGY

Requested analyses were performed according to the following methods.

Metals

The analysis of all metals is based on Test Methods for Evaluating Solid Waste (SW-846), 3rd Edition, Method 6010 (Inductively Coupled Plasma) with the exception of the following:

Lead	SW-846 3rd Ed.	7421	(Graphite Furnace)
Arsenic	SW-846 3rd Ed.	7060	(Graphite Furnace)
Selenium	SW-846 3rd Ed.	7740	(Graphite Furnace)
Antimony	SW-846 3rd Ed.	7041	(Graphite Furnace)
Thallium	SW-846 3rd Ed.	7841	(Graphite Furnace)
Mercury	EPA, Rev. Ed.	245.5	(Cold Vapor)
Zinc	EPA Method 200.7 (ICP)		

Base/Neutral and Acid Extractable Organics - GC/MS (Water)

The analysis of base/neutral and acid extractable organics is based on EPA Method 625. An aliquot of sample is serially extracted with methylene chloride at a pH greater than 11.0 and again at a pH less than 2.0 using a separatory funnel. The extracts are dried through sodium sulfate, concentrated and analyzed by mass spectroscopy.

Volatile Organics - GC/MS (Waste water)

For the analysis of volatile organics, EPA Methods 624 is used. An inert gas is bubbled through a sample contained in a specifically designed purging chamber. The purgeables are efficiently transferred from the aqueous phase to the vapor phase. The vapor is swept through a sorbent column where the purgeables are trapped. After purging is completed, the sorbent column is heated and backflushed with the inert gas to desorb the purgeables onto a gas

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EDISON, NJ
(908) 225-2000

chromatographic column. The gas chromatograph is temperature programmed to separate the purgeables which are then detected with a mass spectrometer.

Chloride

The analysis of chloride is based on EPA, Methods for Chemical Analysis of Water and Wastes, Revison 1983, Method 325.3. (Titrimetric Analysis)

Cyanide - Auto Analyzer Method

The analysis of cyanide is based on EPA, Methods for Chemical Analysis of Water and Wastes, Revision 1983, Method 335.3. (Automated Spectrophotometric Analysis)

Petroleum Hydrocarbons - IR

The analysis of petroleum hydrocarbons is based on EPA, Methods for Chemical Analysis of Water and Wastes, Revision 1983, Method, 418.1. (Infrared Spectrophotometric Analysis)

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DEFINITIONS

ND(U) - Analyte was analyzed for, but not detected. The value given after the ND or U is the detection limit for that compound.

A - The compound denoted with an "A" indicates a suspected aldol condensation product.

B - Indicates the compound was also detected in the blank.

J - Indicates the compound was detected in the sample, but at levels less than the detection limit. Results should be regarded as estimated.

MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
ug/L - Micrograms/Liter
ug/Kg - Micrograms/Kilogram
mg/Kg - Milligrams/Kilogram
%Rec - Precent Recovery
mg/L - Milligrams/Liter
DL - Detection Limit

QUALITY CONTROL WINDOWS

Surrogate Recoveries

GC/MS Volatiles (624, 8240)	Water	Soil
D4-1,2-dichloroethane	76-114	70-121
D8-toluene	88-110	81-117
4-Bromofluorobenzene	86-115	74-121

Surrogate Recoveries

GC/MS SemiVolatiles (625, 8270)	Water	Soil
D5-Nitrobenzene	35-114	23-120
2-Fluorobiphenyl	43-116	30-115
D14-Terphenyl	33-141	18-137
D5-Phenol	10-94	24-113
2-Fluorophenol	21-100	25-121
2,4,6-Tribromophenol	10-123	19-122

Surrogate Recoveries

Pesticides* (608, 8080)	Water	Soil
Tetrachloro-m-xylene	60-150	60-150
Dibutyl chlorendate	24-154	20-150

Surrogate Recoveries

Method 602, BTEX, 8020	Water	Soil
4-Bromofluorobenzene	62-139	62-138

* SW846 allows one surrogate to be outside recovery windows.

Surrogate Recoveries

Method 601 (8010)	Water	Soil
Bromochloromethane	74-121	74-121

Method 8015	Water	Soil
Acetone	68-132	68-132

Surrogate Recoveries

Method 8060**	Water	Soil
Tetrachloro-m-xylene	60-150	60-150
Decachlorobiphenyl	60-150	60-150

Herbicides**	Water	Soil
2,4-DB	60-150	60-150

** Advisory Limits

METALS / WET CHEMISTRY

	Recovery	RPD
Blank Spike	75-125	
Blank Spike Duplicate	75-125	<20%
Matrix Spike	75-125	
Matrix Spike Duplicate	75-125	<20%

	Recovery	RPD
Replicate		<20%
Check Standard	90-110	

F4-04-061

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 479198
Page 1 of 1

Project Name/No. 1 GIVA-122127
Sample Team Members 2
Profit Center No. 3 4614
Project Manager 4 MWRIGHT
Purchase Order No. 6 108071
Required Report Date 11

Samples Shipment Date 7 4/7/94
Lab Destination 8 ITAS EDISON
Lab Contact 9 SANDY ANDERSON
Project Contact/Phone 12 Pat Hopkins 201/365-8507
Carrier/Waybill No. 13

Bill to: 5 Givaudan-Roure Corp
100 Delawanna Ave. P.O. Box 5034
Clifton N.J. 07015
Att: Accounts Payable

Report to: 10 Givaudan-Roure Corp
125 Delawanna Ave
Clifton N.J. 07015
Att: Pat Hopkins

ONE CONTAINER PER LINE

Sample Number 14	Sample Description/Type 15	Date/Time Collected 16	Container Type 17	Sample Volume 18	Preservative 19	Requested Testing Program 20	Condition on Receipt 21	Disposal Record No. 22
01A	001	4/7/94 8:45	PL	1l	HNO3	PB ZN	Good 4°	FOR LAB USE ONLY
01B	↓	4/7/94 8:45	PL	1l	NAOH	CN		
01C	↓	4/7/94 8:45	AG	2.5l	ICE 4°	ABN		
01 DEF	↓	4/7/94 8:45	CG	3x 40ml	ICE 4°	VOA		
01G	001	4/7/94 8:45	CG	1l	H2SO4	TPHC		
02A	003	4/7/94 8:30	CG	1l	H2SO4	TPHC		FOR LAB USE ONLY
03A	Well #6	4/7/94 9:00AM	PL	250ml	Ice 4°	Chloride		
	001	4/7/94 8:45	Glass	1L	H2SO4	Oil + Grease		

Special Instructions: 23

Possible Hazard Identification: 24
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal: 25
Return to Client ☐ Disposal by Lab ☐ Archive _____ (mos.)

Turnaround Time Required: 26
Normal ☒ Rush ☐

QC Level: 27
I. ☐ II. ☐ III. ☐ Project Specific (specify): QA Report as per Quote

1. Relinquished by 26 (Signature/Affiliation) Pat Hop	Date: 4/7/94 Time: 10:25 AM	1. Received by 28 (Signature/Affiliation)	Date: 4/7 Time: 10:35 AM
2. Relinquished by (Signature/Affiliation)	Date: 4/7 Time: 11:11 AM	2. Received by (Signature/Affiliation) R.J. Anderson IT	Date: 4-7-94 Time: 11:11
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: 29
Lot #16424

*See back of form for special instructions.

MCA 3/15/91

130 - 1480

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

AUG 1994 RECEIVED INDUSTRIAL DEPARTMENT

Monitoring Period					
07	01	94	07	31	94
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	108,700	159,500
Total Flow-gal/day	319,700	469,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days 31

N/A ***Flow on Sample date 7/6-7/7 - 461,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Benzene	Sample measurement	<1.15342	<1.15342	# / day	1	Grab
	Permit requirement	0.27421	0.64463	# / day	1	
Carbon Tetrachloride	Sample measurement	< 1.92237	< 1.92237	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Chlorobenzene	Sample measurement	< 0.99963	< 0.99963	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
1,2,4-Trichloro-benzene	Sample measurement	< 0.00461	< 0.00461	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
Hexachlorobenzene	Sample measurement	< 0.00338	< 0.00338	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,2-Dichloroethane	Sample measurement	< 1.69169	< 1.69169	# / day	1	Grab
	Permit requirement	0.86568	2.76056	# / day	1	
1,1,1-Trichloro-ethane	Sample measurement	< 1.80703	< 1.80703	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	
Hexachloroethane	Sample measurement	< 0.00384	< 0.00384	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,1-Dichloroethane	Sample measurement	< 1.38411	< 1.38411	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
07	01	94	07	31	94
Mo.	Day	Yr.	Mo.	Day	Yr
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	108,700	159,500
Total Flow-gal/day	319,700	469,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N/A ***Flow on Sample date 7/6-7/7 - 461,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,1,2-Trichloro-ethane	Sample measurement	< 1.15342	< 1.15342	# / day	1	Grab
	Permit requirement	0.15390	0.61079	# / day	1	
Chloroethane	Sample measurement	< 3.84474	< 3.84474	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Chloroform	Sample measurement	< 1.07653	< 1.07653	# / day	1	Grab
	Permit requirement	0.53384	1.56304	# / day	1	
1,2-Dichloro-benzene	Sample measurement	< 0.00384	< 0.00384	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,3-Dichloro-benzene	Sample measurement	< 0.00500	< 0.00500	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,4-Dichloro-benzene	Sample measurement	< 0.00384	< 0.00384	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,1-Dichloro-ethylene	Sample measurement	< 2.11461	< 2.11461	# / day	1	Grab
	Permit requirement	0.10581	0.28856	# / day	1	
1,2-Trans-Dichloroethylene	Sample measurement	< 1.07653	< 1.07653	# / day	1	Grab
	Permit requirement	0.12023	0.31742	# / day	1	
1,2-Dichloro-propane	Sample measurement	< 1.15342	< 1.15342	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
07	01	94	07	31	94
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

AUG 1994 RECEIVED INDUSTRIAL DEPARTMENT

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	108,700	159,500
Total Flow-gal/day	319,700	469,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 7/6-7/7 - 461,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3-Dichloro-propylene	Sample measurement	< 1.07653	< 1.07653	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	
Ethylbenzene	Sample measurement	< 0.65361	< 0.65361	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Methylene Chloride	Sample measurement	< 1.49945	< 1.49945	# / day	1	Grab
	Permit requirement	0.17314	0.81759	# / day	1	
Methyl Chloride	Sample measurement	< 1.42255	< 1.42255	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Hexachloro-butadiene	Sample measurement	< 0.00615	< 0.00615	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
Nitrobenzene	Sample measurement	< 0.00319	< 0.00319	# / day	1	Comp.
	Permit requirement	10.75850	30.78942	# / day	1	
2-Nitrophenol	Sample measurement	0.08458	0.08458	# / day	1	Comp.
	Permit requirement	0.31261	1.11096	# / day	1	
4-Nitrophenol	Sample measurement	< 0.00846	< 0.00846	# / day	1	Comp.
	Permit requirement	0.77911	2.77018	# / day	1	
4,6-Dinitro-o-Cresol	Sample measurement	< 0.00177	< 0.00177	# / day	1	Comp.
	Permit requirement	0.37513	1.33219	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
07	01	94	07	31	94
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	108,700	159,500
Total Flow-gal/day	319,700	469,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 7/6-7/7 - 461,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Tetrachloro-ethylene	Sample measurement	< 2.30684	< 2.30684	# / day	1	Grab
	Permit requirement	0.250009	0.78873	# / day	1	
Toluene	Sample measurement	< 1.23032	< 1.23032	# / day	1	Grab
	Permit requirement	0.13466	0.35589	# / day	1	
Trichloro-ethylene	Sample measurement	< 1.30721	< 1.30721	# / day	1	Grab
	Permit requirement	0.12504	0.33184	# / day	1	
Vinyl Chloride	Sample measurement	< 1.84548	< 1.84548	# / day	1	Grab
	Permit requirement	0.46651	0.82721	# / day	1	
Total Cyanide	Sample measurement	< 0.03845	< 0.03845	# / day	1	Grab
	Permit requirement	2.01992	5.77121	# / day	1	
Total Lead	Sample measurement	0.01769	0.01769	# / day	1	Comp.
	Permit requirement	1.53899	3.31845	# / day	1	
Total Zinc	Sample measurement	0.26529	0.26529	# / day	1	Comp.
	Permit requirement	5.04981	12.55239	# / day	1	
Petroleum Hydrocarbons	Sample measurement	< 1.0	< 1.0	mg / L	1	Grab
	Permit requirement		100	mg / L	1	
	Sample measurement					
	Permit requirement					

Certification of Non-use if applicable (use additional sheets)

Not Applicable

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

SEE ATTACHMENT 1

Explain Method for preserving samples

The laboratory preservation methods and holding times were performed in accordance with EPA/NJDEPE approved procedures and methodologies.

*** SEE ATTACHMENT 2 FOR SPECIFIC PRESERVATION METHODOLOGIES. ***

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Harold G. Thompson

Signature of Principal Executive or Authorized Agent

Harold G. Thompson

Senior Vice President / Operations

Type Name and Title

August 18, 1994

Date

AUG 1994 RECEIVED INDUSTRIAL DEPARTMENT

PVSC Form MR-1 Rev. 5 3/91 P2

Attachment 1

Outfall 001

Compliance statement

Givaudan-Roure's test readings were within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H and other regulatory agency limitations with the exception of pH.

It should be noted that although the MDL's for all the volatile organics were above permit limits, it has been proven in the past that Givaudan-Roure has been well below permit limits for these parameters. The QA/QC report for this analysis will be submitted to verify the elevated MDL's for this analysis as soon as it is received.

a) pH Discharges

A pH excursion occurred in Outfall 001 on July 24 during our planned plant shutdown. pH's were measured manually with a portable pH probe and grab samples. The excursion was phoned in to PVSC on July 24 (Bob Devita). The excursion was:

10:00 AM (pH 2.9)

11:00 AM (pH 3.0)

The excursion was caused by the discharge of less than one quart of 62% sulfuric acid when a line was drained as safety precaution prior to the repair of a sulfuric acid pump used in the wastewater treatment system. The flow rate in Outfall 001 was very low and almost stagnant. At the time of the excursion, there was no plant power and no operations. This was a planned shutdown to perform maintenance activities.

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Attachment 2

PRESERVATION METHODOLOGIES

Volatile Organics Samples :
Cool to 4°C in an ice chest.

Total Cyanide Samples :
Preserve sample with 10 N NaOH to a pH of greater than 12. After preserving the sample, cool to 4°C in an ice chest.

Total Lead and Total Zinc Samples :
Acidify sample with Conc. HNO_3 to a pH of 2 or less.

Acid / Base Neutrals Extractables Samples :
Approximately 80 mg/l sodium thiosulfate is added to the bottle(s) in the laboratory prior to being brought into the field. After collection, the sample is cooled to 4°C in an ice chest.

Petroleum Hydrocarbon Samples :
Preserve sample with conc. H_2SO_4 or HCl to a pH of less than 2 and cool to 4°C in an ice chest.

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CERTIFICATE OF ANALYSIS

Givaudan-Roure Corporation
100 Delawanna Ave.
Clifton, NJ 07014
Attn: Ms. Pat Hopkins

Date: August 15, 1994

NJ Lab Certification ID#: 12064

Job No.: 1221.27

P.O. Number:

This is the Certificate of Analysis for the following samples:

Client Project ID: 001/003 Monthly
Date Received: 07/07/94
Number of Samples: 3
Sample Type: WATER

I. Introduction

Samples were labeled as follows:

SAMPLE IDENTIFICATION	LABORATORY #
001	F4-07-048-01
003	F4-07-048-02
WELL #6	F4-07-048-03

Reviewed and Approved:

Mary A. Wright
Project Manager

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000

Company: Givaudan-Roure Corporation
Date: August 15, 1994
Client Job No.: 1221.27
Work Order: F4-07-048

II. QA/QC

The results presented in this report were determined in accordance with EPA/NJDEPE approved methodologies except as noted in the optional sample narrative located on the second

accordance with EPA/NJDEPE approved methodologies except as noted in the optional sample narrative located on the second page of Section III.

In the presented analytical data, 'ND' or 'U' indicates that the compound is not detected at the specified limit. See Appendix A for other commonly used abbreviations.

III. Analytical Data

The analytical results for this report are presented by analytical test. Each set of data will include sample identification information, the analytical results, and the appropriate detection limits. Detection limits may vary due to factors arising from concentration/dilution of samples.

Company: Givaudan-Roure Corporation
Date: August 15, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-07-048

NARRATIVE

VOA was analyzed out of holding time. *

2-Fluorobiphenyl, terphenyl-d14 and phenol-d5 surrogate recoveries for sample 001 did not meet QC acceptance criteria. Reanalysis confirmed the matrix effects.

Internal standard area count for d10-Phenanthrene was below QC acceptance criteria for sample 001. Reanalysis confirmed matrix effects.

Company: Givaudan-Roure Corporation
Date: August 15, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-07-048

SAMPLE ID	001	003	WELL #6	
SAMPLED	07/07/94	07/07/94	07/07/94	
TEST				UNITS
Chloride			110 [2.0]	mg/L
Total Cyanide	ND [0.01]			mg/L
Petroleum Hydrocarbons	ND [1.0]	ND [1.0]		mg/L

ND indicates the parameter was not detected.
Detection limits are specified in [].

IT ANALYTICAL SERVICES
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(908) 225-2000

Company: Givaudan-Roure Corporation
Date: August 15, 1994
Client Job No.: 1221.27
Work Order: F4-07-048

TEST NAME: Volatile Organics

SAMPLE ID: 001
SAMPLE DATE: 07/07/94

Results in ug/L		Detection Limit
Acrolein	ND	25000
Acrylonitrile	ND	25000
Benzene	ND	300
Bromoform	ND	400
Bromomethane	ND	600
Carbon Tetrachloride	ND	500
Chlorobenzene	ND	260
Chlorodibromomethane	ND	260
Chloroethane	ND	1000
2-Chloroethylvinyl Ether	ND	800
Chloroform	ND	280
Chloromethane	ND	370
Dichlorobromomethane	ND	260
1,1-Dichloroethane	ND	360
1,2-Dichloroethane	ND	440
1,1-Dichloroethene	ND	550
trans-1-2-Dichloroethene	ND	280
1,2-Dichloropropane	ND	300
cis-1-3-Dichloropropene	ND	280
trans-1-3-Dichloropropene	ND	280
Ethylbenzene	ND	170
Methylene Chloride	ND	390
1,1,2,2-Tetrachloroethane	ND	460
Tetrachloroethene	ND	600
Toluene	ND	320
1,1,1-Trichloroethane	ND	470
1,1,2-Trichloroethane	ND	300
Trichloroethene	ND	340
Trichlorofluoromethane	ND	2500
Vinyl Chloride	ND	480

Comments: ND indicates the compound is not detected at the level indicated.

Company: Givaudan-Roure Corporation
Date: August 15, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-07-048

TEST NAME: Metals

SAMPLE ID: 001
SAMPLE DATE: 07/07/94

ANALYSIS DATE: 07/13/94

	Results in ug/L	Detection Limit
Lead	4.6	3.0
Zinc	69	20

Comments: ND indicates the compound is not detected at the level indicated.

Company: Givaudan-Roure Corporation
Date: August 15, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-07-048

TEST NAME: Acid/Base Neutrals

SAMPLE ID: 001
SAMPLE DATE: 07/07/94

ANALYSIS DATE: 07/12/94

Results in	ug/L	Detection Limit
Acenaphthene	ND	0.47
Acenaphthylene	ND	0.63
Anthracene	ND	0.62
Benzo(a)Anthracene	ND	0.65
Benzo(b)Fluoranthene	ND	2.2
Benzo(k)Fluoranthene	ND	3.0
Benzo(a)Pyrene	ND	1.3
Benzo(g,h,i)perylene	ND	1.0
bis(2-Chloroethyl)Ether	ND	0.81
bis(2-Chloroethoxy)Methane	ND	0.63
bis(2-Ethylhexyl)Phthalate	45	0.95
bis(2-Chloroisopropyl)Ether	ND	1.0
4-Bromophenyl Phenyl Ether	ND	1.3
Butyl Benzyl Phthalate	ND	0.92
2-Chloronaphthalene	ND	0.63
4-Chlorophenyl Phenyl Ether	ND	0.86
Chrysene	ND	1.2
Dibenzo(a,h)anthracene	ND	0.85
Di-n-butylphthalate	3.0	0.46
1,2-Dichlorobenzene	ND	1.0
1,3-Dichlorobenzene	ND	1.3
1,4-Dichlorobenzene	ND	1.0
3,3'-Dichlorobenzidine	ND	1.0
Diethylphthalate	ND	0.67
Dimethylphthalate	ND	0.71
2,4-Dinitrotoluene	ND	0.90
2,6-Dinitrotoluene	ND	0.58
Di-n-Octylphthalate	ND	1.1
Fluoranthene	ND	0.79
Fluorene	ND	0.55
Hexachlorobenzene	ND	0.88
Hexachlorobutadiene	ND	1.6
Hexachloroethane	ND	1.0
Indeno(1,2,3-cd)pyrene	ND	1.1
Isophorone	ND	0.64
Naphthalene	3.0	0.74

Company: Givaudan-Roure Corporation
Date: August 15, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-07-048

TEST NAME: Acid/Base Neutrals

SAMPLE ID: 001
SAMPLE DATE: 07/07/94

Nitrobenzene	ND	0.83
N-Nitrosodipropylamine	ND	0.89
Phenanthrene	ND	0.61
Pyrene	ND	1.0
1,2,4-Trichlorobenzene	ND	1.2
4-Chloro-3-methylphenol	ND	0.60
2-Chlorophenol	ND	1.3
2,4-Dichlorophenol	ND	0.99
2,4-Dimethylphenol	ND	0.83
2,4-Dinitrophenol	ND	3.4
4,6-Dinitro-2-methylphenol	ND	0.46
2-Nitrophenol	22	0.66
4-Nitrophenol	ND	2.2
Pentachlorophenol	ND	3.5
Phenol	ND	0.73
2,4,6-Trichlorophenol	ND	0.45

Comments: ND indicates the compound is not detected at the level indicated.

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000

Company: Givaudan-Roure Corporation
Date: August 15, 1994
Client Job No.: 1221.27
Work Order: F4-07-048

IV METHODOLOGY

Requested analyses were performed according to the following methods.

Volatile Organics - GC/MS (Waste water)

For the analysis of volatile organics, EPA Methods 624 is used. An inert gas is bubbled through a sample contained in a specifically designed purging chamber. The purgeables are efficiently transferred from the aqueous phase to the vapor phase. The vapor is swept through a sorbent column where the purgeables are trapped. After purging is completed, the sorbent column is heated and backflushed with the inert gas to desorb the purgeables onto a gas chromatographic column. The gas chromatograph is temperature programmed to separate the purgeables which are then detected with a mass spectrometer.

Bis(2Ethylhexyl)Phthalate was observed in the QC blank at a reportable level, but still at <5 times the detection limit. The presence of this compound in the sample may be considered suspect.

Metals

The analysis of all metals is based on Test Methods for Evaluating Solid Waste (SW-846), 3rd Edition, Method 6010 (Inductively Coupled Plasma) with the exception of the following:

Lead	SW-846 3rd Ed.	7421	(Graphite Furnace)
Arsenic	SW-846 3rd Ed.	7060	(Graphite Furnace)
Selenium	SW-846 3rd Ed.	7740	(Graphite Furnace)
Antimony	SW-846 3rd Ed.	7041	(Graphite Furnace)
Thallium	SW-846 3rd Ed.	7841	(Graphite Furnace)
Mercury	EPA, Rev. Ed.	245.5	(Cold Vapor)
Zinc	EPA Method 200.7 (ICP)		

Base/Neutral and Acid Extractable Organics - GC/MS (Water)

Company: Givaudan-Roure Corporation
Date: August 15, 1994
Client Job No.: 1221.27

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000
Work Order: F4-07-048

The analysis of base/neutral and acid extractable organics is based on EPA Method 625. An aliquot of sample is serially extracted with methylene chloride at a pH greater than 11.0 and again at a pH less than 2.0 using a separatory funnel. The extracts are dried through sodium sulfate, concentrated and analyzed by mass spectroscopy.

Chloride

The analysis of chloride is based on EPA, Methods for Chemical Analysis of Water and Wastes, Revison 1983, Method 325.3. (Titrimetric Analysis)

Cyanide - Auto Analyzer Method

The analysis of cyanide is based on EPA, Methods for Chemical Analysis of Water and Wastes, Revision 1983, Method 335.3. (Automated Spectrophotometric Analysis)

Petroleum Hydrocarbons - IR

The analysis of petroleum hydrocarbons is based on EPA, Methods for Chemical Analysis of Water and Wastes, Revision 1983, Method, 418.1. (Infrared Spectrophotometric Analysis)

IT ANALYTICAL SERVICES
EDISON, NJ
(908) 225-2000

APPENDIX A

DEFINITIONS

ND(U) - Analyte was analyzed for, but not detected. The value given after the ND or U is the detection limit for that compound.

A - The compound denoted with an "A" indicates a suspected aldol condensation product.

B - Indicates the compound was also detected in the blank.

J - Indicates the compound was detected in the sample, but at levels less than the detection limit. Results should be regarded as estimated.

MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
ug/L - Micrograms/Liter
ug/Kg - Micrograms/Kilogram
mg/Kg - Milligrams/Kilogram
%Rec - Precent Recovery
mg/L - Milligrams/Liter
DL - Detection Limit

QUALITY CONTROL WINDOWS

Surrogate Recoveries

GC/MS Volatiles (624, 8240)	Water	Soil
D4-1,2-dichloroethane	76-114	70-121
D8-toluene	88-110	81-117
4-Bromofluorobenzene	86-115	74-121

Surrogate Recoveries

GC/MS SemiVolatiles (625, 8270)	Water	Soil
D5-Nitrobenzene	35-114	23-120
2-Fluorobiphenyl	43-116	30-115
D14-Terphenyl	33-141	18-137
D5-Phenol	10-94	24-113
2-Fluorophenol	21-100	25-121
2,4,6-Tribromophenol	10-123	19-122

Surrogate Recoveries

Pesticides* (608, 8080)	Water	Soil
Tetrachloro-m-xylene	60-150	60-150
Dibutyl chlorendate	24-154	20-150

Surrogate Recoveries

Method 602, BTEX, 8020	Water	Soil
4-Bromofluorobenzene	62-139	62-138

* SW846 allows one surrogate to be outside recovery windows.

Surrogate Recoveries

Method 601 (8010)	Water	Soil
Bromochloromethane	74-121	74-121

Method 8015	Water	Soil
Acetone	68-132	68-132

Surrogate Recoveries

Method 8060**	Water	Soil
Tetrachloro-m-xylene	60-150	60-150
Decachlorobiphenyl	60-150	60-150

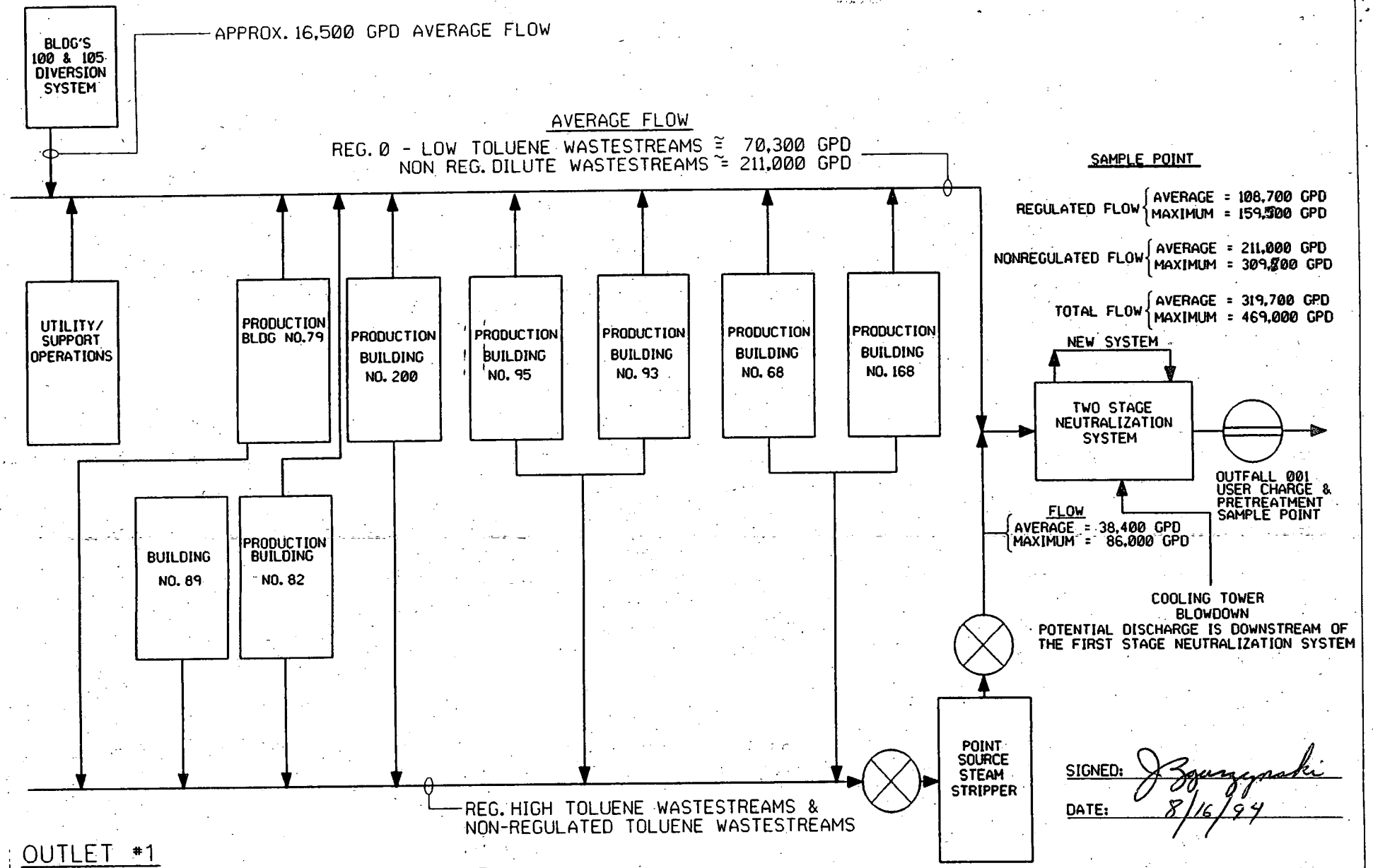
Herbicides**	Water	Soil
2,4-DB	60-150	60-150

** Advisory Limits

METALS / WET CHEMISTRY

	Recovery	RPD
Blank Spike	75-125	
Blank Spike Duplicate	75-125	<20%
Matrix Spike	75-125	
Matrix Spike Duplicate	75-125	<20%

	Recovery	RPD
Replicate		<20%
Check Standard	90-110	



SIGNED: J Bzurzynski

DATE: 8/16/94

OUTLET #1

OUTLET 03401021 FOR USER CHARGE/PRETREATMENT IS LOCATED BY SAMPLE SHED BUILDING #11 LOCATED IN SOUTHWEST CORNER OF PROPERTY (40 CFR 414)

NOTE: NEW NEUTRALIZATION/DIVERSION SYSTEM IN START-UP MODE

⊖ = COMPLIANCE MONITORING STATION

⊗ = MONITORING STATION

GIVAUDAN-ROURE CORPORATION

UPDATED
WASTE WATER PFD
OUTFALL 001
JULY 1994

CHART 1994-05

ATTACHMENT A

MR-1 FORM FOR :

DISCHARGE POINT 001 (includes all lab data and the flow diagram)

12/94

>F1228 INST 59704 DFTPP050 MS CAL STD ,30m SPB-5 CAP COLUMN
561 SUB NRM

File: >F1228 Scan #: 561 Retn. time: 10.99

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
38.10	1.062	93.05	5.753	146.25	.504	196.05	2.863	258.10	3.014
39.10	5.932	96.05	.497	147.05	1.186	198.05	100.000	265.10	1.028
39.90	.359	98.05	3.897	148.05	2.111	199.05	6.070	273.10	1.518
50.00	14.500	99.05	2.835	148.95	.441	201.55	.524	274.10	3.849
51.10	59.192	101.05	2.028	153.05	.897	203.05	.552	275.10	21.942
52.10	3.463	103.05	.586	154.05	.793	204.05	3.083	276.10	3.139
56.00	1.980	104.15	1.490	155.05	1.359	205.05	4.877	277.10	1.738
57.00	3.835	105.05	1.262	156.15	1.842	206.15	21.611	293.10	.310
58.00	.297	106.15	.559	157.15	.421	207.15	2.745	296.10	5.367
61.00	.828	107.05	14.079	160.05	.980	210.35	.338	297.10	.835
62.00	.704	108.15	2.352	161.05	1.062	210.95	.745	303.00	.586
63.10	2.394	110.05	32.703	165.05	.869	215.95	.504	315.10	.648
65.10	.786	111.05	4.456	166.15	.842	217.05	5.946	316.00	.545
69.00	69.028	117.05	9.126	167.05	3.994	218.15	.773	323.10	2.131
70.00	.338	118.05	.793	168.05	1.787	221.15	5.905	334.10	1.683
73.10	.435	122.05	.911	172.05	.552	223.15	1.159	346.00	.407
74.10	4.270	123.05	1.587	173.05	.538	224.15	10.954	352.10	.635
75.00	8.726	124.05	.690	174.05	.890	225.20	2.814	354.10	.704
76.15	3.070	125.15	.621	175.15	1.607	227.10	4.946	365.00	2.642
77.15	46.755	127.05	47.637	176.05	.517	228.10	.773	365.90	.359
78.15	4.008	128.15	4.146	177.05	.890	229.10	1.180	372.10	1.255
79.05	3.773	129.05	21.556	179.05	3.201	237.10	.338	403.05	.690
80.05	2.780	130.05	1.800	180.05	2.497	242.00	.607	404.05	.359
81.05	3.828	134.15	.738	181.05	.917	243.20	.786	421.05	.676
82.05	1.062	135.05	1.407	185.15	1.531	244.10	9.788	423.15	5.153
83.15	.338	136.05	.642	186.15	11.644	245.20	1.352	424.05	1.104
85.05	.952	137.15	.752	187.15	3.228	246.10	1.738	441.15	12.672
86.05	.800	141.05	2.325	189.05	.690	255.10	46.203	442.15	94.047
87.05	.324	142.05	.938	192.05	1.000	256.10	6.774	443.15	17.811
91.15	.766	143.05	.559	193.15	1.042	257.00	.621	444.15	1.711
92.05	.828								

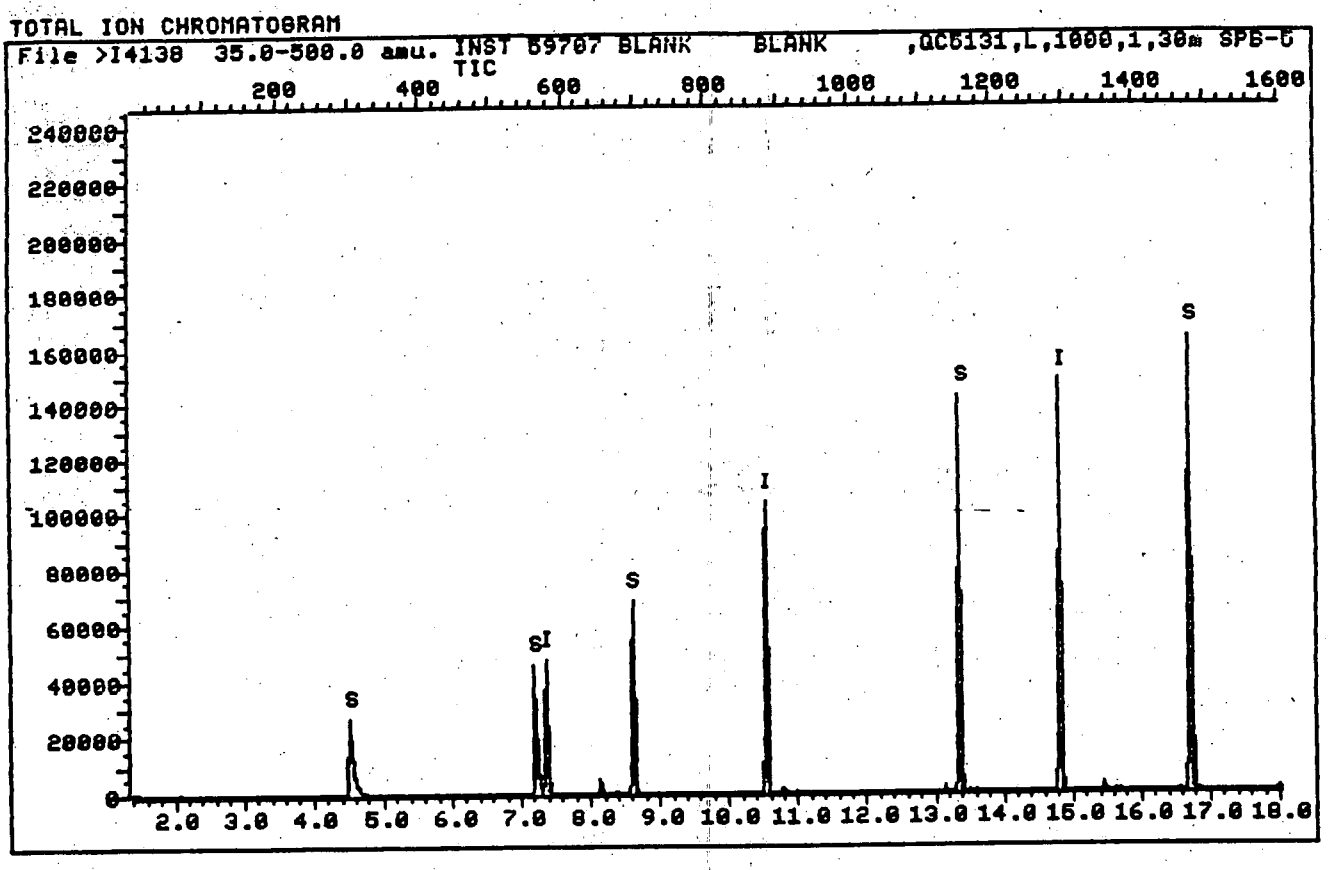
QUANT REPORT

Operator ID: GT0101 Quant Rev: 7 Quant Time: 941213 15:59
Output File: ^I4138::QT Injected at: 941213 15:24
Data File: >I4138::I1 Dilution Factor: 1.00000
Name: INST 59707 BLANK Instrument ID: INST I
Misc: BLANK ,QC5131,L,1000,1,30m SPB-5 CAP COLUMN BTL# 9

ID File: ID625I::SC
Title: CLP BNA IDFILE
Last Calibration: 941213 15:55 Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	7.34	152.0	15673	40.00	UG/ML	97
3)	2-Fluorophenol	4.49	112.0	25170	59.71	UG/ML	85
4)	Phenol-d6	7.18	99.0	34784	43.72	UG/ML	94
18)	*Naphthalene-d8	10.52	136.0	79670	40.00	UG/ML	91
19)	Nitrobenzene-d5	8.59	82.0	39347	48.96	UG/ML	92
33)	*Acenaphthene-d10	14.82	164.0	66492	40.00	UG/ML	93
38)	2-Fluorobiphenyl	13.36	172.0	85044	49.03	UG/ML	88
53)	2,4,6-Tribromophenol	16.72	330.0	58831	112.69	UG/ML	82
54)	*Phenanthrene-d10	18.33	188.0	139306	40.00	UG/ML	99
66)	*Chrysene-d12	24.73	240.0	188057	40.00	UG/ML	98
68)	Terphenyl-d14	22.44	244.0	281045	62.11	UG/ML	86
73)	~~bis(2-Ethylhexyl)phthalate~~	25.63	149.0	2308	.434	UG/ML	99
74)	*Perylene-d12 JK 1 12/14/94	27.91	264.0	154103	40.00	UG/ML	96

* Compound is ISTD



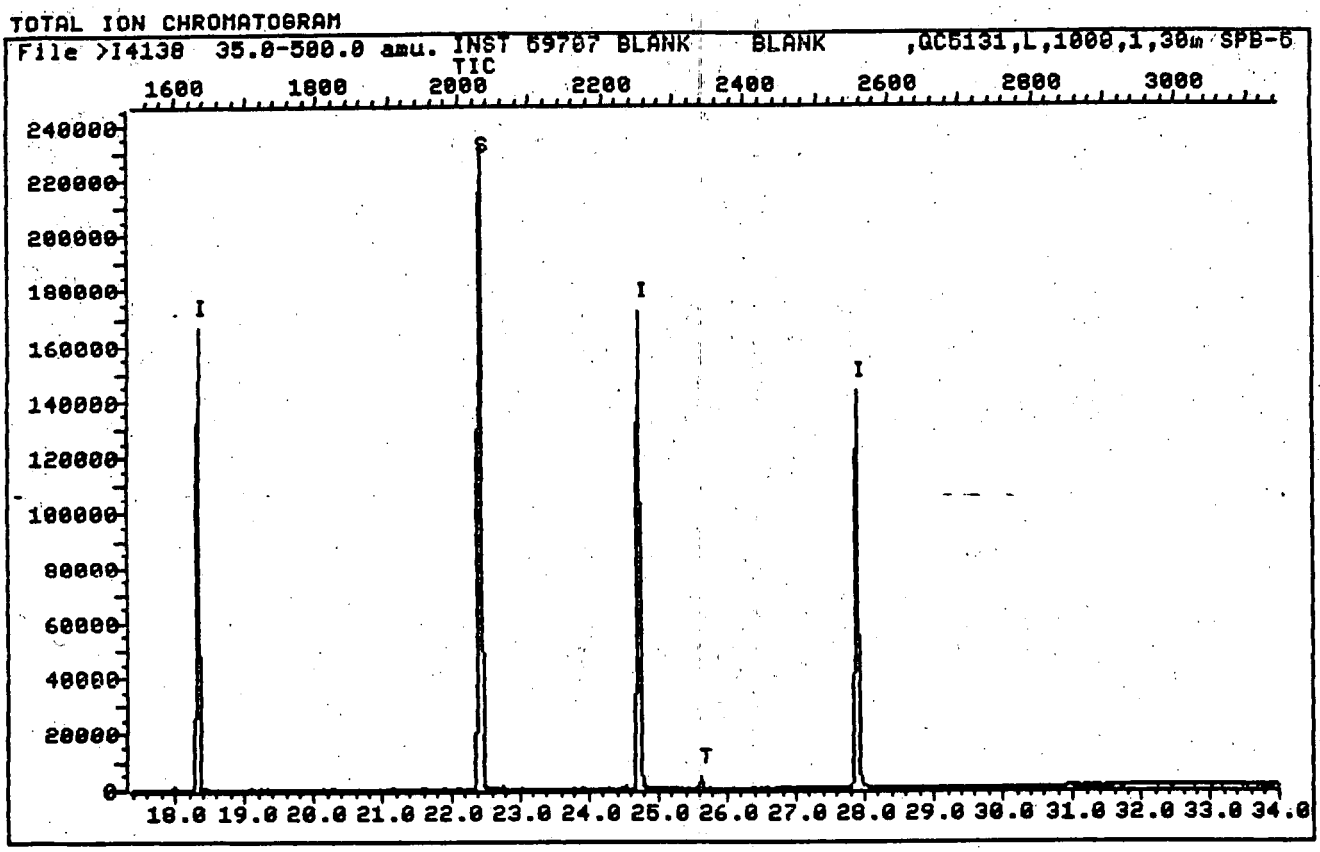
Data File: >I4138::I1 Quant Output File: ^I4138::QT
Name: INST 59707 BLANK Instrument ID: INST I
Misc: BLANK ,QC5131,L,1000,1,30m SPB-5 CAP COLUMN BTL# 9

Id File: ID625I::SC
Title: CLP BNA IDFILE
Last Calibration: 941213 15:55 Last Qcal Time: <none>

Operator ID: GT0101
Quant Time : 941213 15:59
Injected at: 941213 15:24

Page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >I4138::I1 Quant Output File: ^I4138::QT
Name: INST 59707 BLANK Instrument ID: INST I
Misc: BLANK ,QC5131,L,1000,1,30m SPB-5 CAP COLUMN BTL# 9

Id File: ID625I::SC
Title: CLP BNA IDFILE
Last Calibration: 941213 15:55 Last Qcal Time: <none>

Operator ID: GT0101
Quant Time : 941213 15:59
Injected at: 941213 15:24

Page 2 of 2

QC5131
202354

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: I 7

Contractor: INDUSTRIAL CORROSION Calibration Date: 12/14/94

Contract No: MANAGEMENT

Minimum $\overline{RF}$ for SPCC is Maximum % RSD for CCC is 35%

Compound	>F1231 RF 20.00	>F1229 RF 50.00	>F1230 RF 160.00	>F1232 RF 5.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
N-Nitrosodimethylamine	1.20959	1.03852	1.04057	.86125	.286	1.03748	13.709	*	
2-Fluorophenol	1.41571	1.22439	1.27986	1.11510	.667	1.25877	9.933		
Phenol-d6	2.54547	2.05233	1.84208	2.22242	.956	2.16557	13.725		
Phenol	2.65783	2.15811	2.06692	2.24517	.960	2.28201	11.433	*	
Aniline	2.90355	2.59633	2.53127	2.55411	.927	2.64631	6.560		
2-Chlorophenol	1.73323	1.42038	1.21267	1.47702	.957	1.46083	14.665	*	
bis(2-Chloroethyl)ether	2.08851	1.66386	1.35306	1.84433	.954	1.73744	17.828	*	
1,3-Dichlorobenzene	1.71845	1.49967	1.37180	1.35369	.988	1.48590	11.313	*	
1,4-Dichlorobenzene	1.78837	1.54860	1.38055	1.43931	1.005	1.53921	11.702	*	
1,2-Dichlorobenzene	1.75526	1.49187	1.27643	1.42224	1.055	1.48645	13.484	*	
Benzyl alcohol	1.44124	1.24050	1.28746	1.09654	1.067	1.26644	11.217		
bis(2-Chloroisopropyl)ether	4.03661	3.49412	3.38724	3.33124	1.109	3.56230	9.077	*	
2-Methylphenol	1.93436	1.63463	1.56494	1.60904	1.118	1.68574	9.979		
Hexachloroethane	.77453	.70314	.64402	.53525	1.141	.66424	15.236	*	
N-Nitroso-di-n-propylamine	2.23930	1.85081	1.81298	1.82697	1.153	1.93252	10.614	*	
4-Methylphenol	2.17016	1.81031	1.53998	1.84374	1.164	1.84105	14.021		
Nitrobenzene-d5	.55257	.47941	.43903	.42263	.858	.47341	12.234		
Nitrobenzene	.56598	.48442	.60309	.45414	.862	.52691	13.163	*	
Isophorone	1.22310	1.06979	.86937	1.00340	.917	1.04129	14.118	*	
2-Nitrophenol	.27041	.23345	.23439	.20520	.928	.23587	11.327	*	
2,4-Dimethylphenol	.45928	.42762	.42238	.40369	.960	.42824	5.395	*	
bis(2-Chloroethoxy)methane	.66064	.56128	.54806	.54382	.974	.57845	9.559	*	
2,4-Dichlorophenol	.36778	.31550	.27713	.29378	.986	.31355	12.573	*	
Benzoic acid	-	.03104	.21501	-	1.024	.12303	105.736		
1,2,4-Trichlorobenzene	.35029	.30866	.28337	.28343	.994	.30644	10.301	*	
Naphthalene	1.26536	1.06592	.95970	1.07706	1.004	1.09201	11.639	*	
4-Chloroaniline	.61625	.52081	.47882	.53722	1.029	.53827	10.684		
Hexachlorobutadiene	.18803	.16375	.14175	.15037	1.050	.16097	12.536	*	
4-Chloro-3-methylphenol	.55259	.45131	.38052	.46829	1.147	.46318	15.263	*	
2-Methylnaphthalene	1.27271	1.05064	.84304	1.07689	1.151	1.06082	16.569		

RF - Response Factor (Subscript is amount in UG/ML)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: I 7

Contractor: INDUSTRIAL CORROSION MANAGEMENT Calibration Date: 12/14/94

Contract No: _____

Minimum $\overline{RF}$ for SPCC is _____ Maximum % RSD for CCC is 35%

Laboratory ID:	>F1231	>F1229	>F1230	>F1232					
Compound	RF 20.00	RF 50.00	RF 160.00	RF 5.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
Hexachlorocyclopentadiene	.09661	.15023	.18347	-	.877	.14343	30.556	*	
2,4,6-Trichlorophenol	.44141	.38682	.32551	.32686	.893	.37015	14.979	*	
2,4,5-Trichlorophenol	.48682	.43132	.32404	.33967	.898	.39546	19.503		
2-Fluorobiphenyl	1.31939	1.11546	.92596	1.11975	.905	1.12014	14.342		
2-Chloronaphthalene	1.23511	1.06177	.90377	1.03378	.913	1.05861	12.878	*	
2-Nitroaniline	.75490	.64459	.60814	.59865	.940	.65157	11.001		
Acenaphthylene	2.27213	1.89315	1.52669	1.90754	.975	1.89988	16.021	*	
Dimethylphthalate	1.79120	1.54571	1.36255	1.51215	.980	1.55290	11.443	*	
2,6-Dinitrotoluene	.44244	.40632	.35596	.34089	.986	.38640	12.079	*	
3-Nitroaniline	.54272	.43582	.37337	.40772	1.005	.43991	16.627		
Acenaphthene	1.35588	1.10470	.87954	1.18496	1.006	1.13127	17.487	*	
2,4-Dinitrophenol	.00295	.02492	.13250	-	1.020	.05346	129.686	*	10
Dibenzofuran	1.93209	1.63848	1.35246	1.68247	1.030	1.65138	14.385		
4-Nitrophenol	.18836	.17174	.20814	.04177	1.046	.15250	49.380	*	10
2,4-Dinitrotoluene	.63328	.54261	.48909	.47350	1.044	.53462	13.491	*	
Fluorene	1.61554	1.34005	1.07113	1.39373	1.083	1.35511	16.511	*	
4-Chlorophenyl-phenylether	.69377	.57243	.48366	.63222	1.089	.59552	15.034	*	
Diethylphthalate	1.84120	1.51897	2.06336	1.65424	1.091	1.76944	13.356	*	
4-Nitroaniline	.55797	.48606	.39107	.43676	1.102	.46797	15.269		
2,4,6-Tribromophenol	.29510	.25841	.22361	.18298	1.124	.24002	19.974		
4,6-Dinitro-2-methylphenol	.05935	.08319	.09673	-	.905	.07976	23.729	*	
N-Nitrosodiphenylamine (1)	.65481	.52486	.36771	.57356	.907	.53024	22.799	*	
Azobenzene	1.61960	1.32446	1.08481	1.33866	.909	1.34188	16.308		
4-Bromophenyl-phenylether	.26055	.22274	.19824	.22083	.949	.22559	11.447	*	
Hexachlorobenzene	.32756	.28083	.24958	.28571	.963	.28592	11.207	*	
Pentachlorophenol	.08482	.10714	.16547	-	.990	.11915	34.953	*	
Phenanthrene	1.40094	1.16287	1.11666	1.24949	1.003	1.23249	10.148	*	
Anthracene	1.44004	1.20824	.95445	1.27396	1.009	1.21917	16.539	*	
Di-n-butylphthalate	2.17304	1.77739	1.54420	1.82196	1.095	1.82915	14.193	*	
Fluoranthene	1.57386	1.30415	1.12771	1.32112	1.152	1.33171	13.787	*	

RF - Response Factor (Subscript is amount in UG/ML)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: I 7

Contractor: INDUSTRIAL CORROSION Calibration Date: 12/14/94

Contract No: MANAGEMENT

Minimum $\overline{RF}$ for SPCC is Maximum % RSD for CCC is 35%

Laboratory ID:	>F1231	>F1229	>F1230	>F1232					
Compound	RF 20.00	RF 50.00	RF 160.00	RF 5.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
Benzidine	.19559	.34933	.22923	.47684	1.174	.31275	40.850	*	15
Pyrene	1.65290	1.41681	1.33262	1.45662	.883	1.46474	9.263	*	
Terphenyl-d14	1.06296	.91387	.84072	.93717	.906	.93868	9.852		
Butylbenzylphthalate	1.05561	.89171	.87508	.89733	.960	.92993	9.067	*	
Benzo(a)anthracene	1.46390	1.27024	1.27455	1.21768	.998	1.30659	8.266	*	
3,3'-Dichlorobenzidine	.45335	.41504	.33298	.31752	1.001	.37972	17.150	*	
Chrysene	1.34167	1.13706	.90426	1.15348	1.003	1.13412	15.797	*	
bis(2-Ethylhexyl)phthalate	1.50133	1.22898	1.15057	1.28746	1.021	1.29209	11.636	*	
Di-n-octylphthalate	3.70251	2.80103	2.63629	3.34884	.950	3.12217	15.771	*	
Benzo(b)fluoranthene	1.66893	1.48409	1.80862	1.17699	.970	1.53466	17.788	*	
Benzo(k)fluoranthene	1.44484	1.24688	.62417	1.17699	.971	1.12322	31.295	*	
Benzo(a)pyrene	1.31861	1.18240	1.07038	1.05976	.995	1.15779	10.426	*	
Indeno(1,2,3-cd)pyrene	.70415	.63415	.70459	.36992	1.087	.60320	26.360	*	
Dibenz(a,h)anthracene	.58700	.62949	.60091	.30972	1.090	.53178	28.037	*	
Benzo(g,h,i)perylene	.47901	.50587	.47816	.32180	1.110	.44621	18.810	*	
Pyridine	-	-	-	-	-	-	-		
Carbazole	-	-	-	-	-	-	-		

RF - Response Factor (Subscript is amount in UG/ML)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
201-584-0330
DECEMBER 16, 1994

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

SURROGATE RECOVERY SUMMARY
Aqueous Acid Fraction

Batch number: QC5131

Sample Number	Data File	% Recovery 2-Fphenol	% Recovery Phenol-d6	% Recovery 2,4,6	# Outside QC Limits
202377 S	>I4140	32	14	91	0
BLANK S	>I4139	30	23	87	0
BLANK	>I4138	30	22	56	0
202354	>F1235	65	45	114	0

	Compound	Percent Recovery	Concentration Added
QC Limits:	2-Fluorophenol	16-90	200ppb
	Phenol-d6	10-86	200ppb
	2,4,6-Tribromophenol	44-119	200ppb

** Surrogates are diluted out.
* Values outside QC Limits.

S= Spike sample
SD= Spike duplicate sample
DL= Dilution
RE= Indicates a reanalysis of the sample confirming matrix interference.
NA= Not Applicable

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INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
201-584-0330
DECEMBER 16, 1994

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

SURROGATE RECOVERY SUMMARY
Aqueous Base/Neutral

Batch number: QC5131

Sample Number	Data File	% Recovery NBZ-d5	% Recovery 2-Fbiphenyl	% Recovery Ter-d14	# Outside QC Limits
202377 S	>I4140	132*	73	71	1
BLANK S	>I4139	54	53	73	0
BLANK	>I4138	49	49	62	0
202354	>F1235	99	147*	100	1

	Compound	Percent Recovery	Concentration Added
QC Limits:	Nitrobenzene-d5	44-101	100ppb
	2-Fluorobiphenyl	38-126	100ppb
	Terphenyl-d14	38-143	100ppb

** Surrogates are diluted out.
* Values outside QC Limits.

S= Spike sample
SD= Spike duplicate sample
DL= Dilution
RE= Indicates a reanalysis of the sample confirming matrix interference.
NA= Not Applicable

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Randolph, NJ 07869
201-584-0330
DECEMBER 16, 1994

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

QUALITY ASSURANCE DATA
MATRIX SPIKE RECOVERY
Acid Fraction - Water

Spiked sample: 202377
QC Batch number: QC5131

For samples: 202354

ompound	Spike % Recovery	QC Limits	Concentration Added (ug/L)	Matrix Spike Concentration (ug/L)
henol	81	5-112	40	24.84
-Chlorophenol	68	23-134	40	27.31
-Nitrophenol ***	61	29-182	40	24.21
,4-Dimethylphenol ***	56	42-144	40	22.53
,4-Dichlorophenol ***	62	39-135	40	24.77
-Chloro-3-methylphenol ***	72	22-147	40	28.79
,4,6-Trichlorophenol	69	37-144	40	27.47
,4-Dinitrophenol	21	D-191	40	8.22
-Nitrophenol	36	D-132	40	14.23
,6-Dinitro-2-methylphenol	20	D-181	40	8.13
entachlorophenol	101	14-176	40	40.27

** Spike recovery does not meet quality control limits due to a high concentration of this parameter in the spiked sample.
** Recovery is determined from Blank Spike.

ND = Not Determined.

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1152 Route 10
Randolph, NJ 07869
201-584-0330
DECEMBER 16, 1994

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

QUALITY ASSURANCE DATA
MATRIX SPIKE RECOVERY
Base/Neutral - Water

Spiked sample: 202377
QC Batch number: QC5131

For samples: 202354

ompound	Spike % Recovery	QC Limits	Concentration Added (ug/L)	Matrix Spike Concentration (ug/L)
-Nitrosodimethylamine ***	32	ND-ND	40	12.82
is(2-Chloroethyl)ether	82	12-158	40	32.85
,3-Dichlorobenzene	53	D-172	40	21.23
,4-Dichlorobenzene	70	20-124	40	27.97
,2-Dichlorobenzene	59	32-129	40	23.73
is(2-Chloroisopropyl)ether ***	52	36-166	40	20.99
-Nitroso-di-n-propylamine ***	72	D-230	40	28.86
exachloroethane ***	45	40-113	40	18.01
Nitrobenzene	77	35-180	40	30.78
sophorone	84	21-196	40	33.68
is(2-Chloroethoxy)methane	106	33-184	40	42.22
,2,4-Trichlorobenzene	77	44-142	40	30.82
aphthalene	68	21-133	40	27.27
-Chloroaniline	15	ND-ND	40	5.94
exachlorobutadiene ***	49	24-116	40	19.40
exachlorocyclopentadiene ***	8	ND-ND	40	3.23
-Chloronaphthalene	77	60-118	40	30.62
imethylphthalate	85	D-112	40	33.95
cenaphthylene	84	33-145	40	33.63
,6-Dinitrotoluene	75	50-158	40	29.85
cenaphthene	76	47-145	40	30.31
,4-Dinitrotoluene	77	39-139	40	30.92
iethylphthalate	83	D-114	40	33.01
-Chlorophenyl-phenylether	78	25-158	40	31.12
luorene	78	59-121	40	31.01
-Nitrosodiphenylamine	89	ND-ND	40	35.49
zobenzene	84	ND-ND	40	33.44
-Bromophenyl-phenylether	90	53-127	40	36.11
exachlorobenzene	88	D-152	40	35.28
henanthrene	81	54-120	40	32.24
nthracene	85	27-133	40	33.82
i-n-butylphthalate	85	1-118	40	34.09
luoranthene	87	26-137	40	34.81
enzidine ***	5	ND-ND	40	2.11
yrene	80	52-115	40	32.12
utylbenzylphthalate	83	D-152	40	33.02
,3'-Dichlorobenzidine	2	D-262	40	.973
enzo(a)anthracene ***	88	33-143	40	35.33
hrysene	163	17-168	40	65.01
is(2-Ethylhexyl)phthalate	82	8-158	40	32.78
i-n-octylphthalate	112	4-146	40	44.97
enzo(b)fluoranthene ***	84	24-159	40	33.40
enzo(k)fluoranthene ***	125	11-162	40	50.02
enzo(a)pyrene	86	17-163	40	34.48
ndeno(1,2,3-cd)pyrene	60	D-171	40	24.05
ibenz(a,h)anthracene	59	D-227	40	23.57
enzo(g,h,i)perylene	56	D-219	40	22.23

** Spike recovery does not meet quality control limits due to a high concentration of this parameter in the spiked sample.
** Recovery is determined from Blank Spike.

ND = Not Determined.

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
DECEMBER 19, 1994

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

METALS QUALITY ASSURANCE DATA - SPIKE RECOVERIES

Lab Number: 202239
Matrix: Liquid (Aqueous)

Results in mg/l (ppm).

This report serves as Quality Assurance Data for the following lab numbers:
202443 202377

202239 202147-202148 202240 202241

202292 202330 202~~2~~3254 202355 202358
DS 12/27/94

Parameter	Sample Result	Spike Added	Spike Sample Result	Spike Recovery %	Spike Contr. Limits %	Minimum Detection Limit	Method Blank Analysis
Aluminum	0.266	2.00	2.20	97	75-125	0.100	U
Antimony	U	0.500	0.449	90	75-125	0.050	U
Arsenic	U	0.040	0.037	93	75-125	0.004	U
Barium	0.020	2.00	1.94	96	75-125	0.010	U
Beryllium	U	0.050	0.047	94	75-125	0.005	U
Cadmium	U	0.050	0.047	94	75-125	0.005	U
Calcium	23.7	5.00	28.3	92	75-125	0.200	U
Chromium	U	0.200	0.189	95	75-125	0.010	U
Cobalt	0.223	0.500	0.701	96	75-125	0.010	U
Copper	0.063	0.250	0.305	97	75-125	0.025	U
Iron	0.798	1.00	1.74	94	75-125	0.050	U
Lead	0.011	0.040	0.051	100	75-125	0.004	U
Magnesium	26.8	5.00	31.4	92	75-125	0.100	U
Manganese	0.073	0.500	0.550	95	75-125	0.015	U
Mercury	0.0006	0.004	0.0046	100	75-125	0.0005	U
Nickel	U	0.500	0.483	97	75-125	0.025	U
Potassium	4.96	5.00	9.90	99	75-125	2.00	U
Selenium	U	0.040	0.042	105	75-125	0.004	U
Silver	U	0.050	0.046	92	75-125	0.010	U
Sodium	151	5.00	156	100	75-125	1.00	U
Thallium	U	0.040	0.038	95	75-125	0.004	U
Vanadium	U	0.500	0.487	97	75-125	0.025	U
Zinc	0.076	0.500	0.548	94	75-125	0.020	U
Molybdenum	U	1.00	0.927	93	75-125	0.010	U

U = Not Detected
NC = Non-calculable RPD due to value(s) less than detection limit
RPD = Relative percent difference

INDUSTRIAL CORROSION MANAGEMENT, INC.
Richard Levine, President

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
DECEMBER 19, 1994

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

METALS QUALITY ASSURANCE DATA - DUPLICATES

Lab Number: 202239
Matrix: Liquid (Aqueous)

Results in mg/l (ppm).

This report serves as Quality Assurance Data for the following lab numbers:
202443 202377

202239 202147-202148 202240 202241

202292 202330 202354 202355 202358

	Sample	Duplicate	RPD	Dupl. Contr. Limits	Minimum Detection	Method Blank
Aluminum	0.266	0.274	3	+-37	0.100	U
Antimony	U	U	NC	NC	0.050	U
Arsenic	U	0.004	NC	NC	0.004	U
Barium	0.020	0.020	0	+-50	0.010	U
Beryllium	U	U	NC	NC	0.005	U
Cadmium	U	U	NC	NC	0.005	U
Calcium	23.7	24.3	3	+-20	0.200	U
Chromium	U	U	NC	NC	0.010	U
Cobalt	0.223	0.232	4	+-20	0.010	U
Copper	0.063	0.067	6	+-38	0.025	U
Iron	0.798	0.810	1	+-20	0.050	U
Lead	0.011	0.010	10	+-38	0.004	U
Magnesium	26.8	27.5	3	+-20	0.100	U
Manganese	0.073	0.074	1	+-20	0.015	U
Mercury	0.0006	0.0007	15	+-77	0.0005	U
Nickel	U	U	NC	NC	0.025	U
Potassium	4.96	4.96	0	+-40	2.00	U
Selenium	U	U	NC	NC	0.004	U
Silver	U	U	NC	NC	0.010	U
Sodium	151	156	3	+-20	1.00	U
Thallium	U	U	NC	NC	0.004	U
Vanadium	U	U	NC	NC	0.025	U
Zinc	0.076	0.076	0	+-26	0.020	U
Molybdenum	U	U	NC	NC	0.020	U

U = Not Detected
NC = Non-calculable RPD due to value(s) less than detection limit
RPD = Relative percent difference

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201-584-0330
DECEMBER 15, 1994

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

QUALITY ASSURANCE DATA - SPIKE RECOVERIES

Sample spiked: BLANK
Matrix type: AQUEOUS
Batch Number: 2861S

Parameter	Result mg/l	Amount Added mg/l	Conc. Matrix Spike mg/l	% Spike Rec.	QC Limit % Spike Recovery	Minimum Detection Limit mg/l	Method Blank Analysis mg/l
Petroleum Hydrocarbons	U	5.0	4.9	98	75-125	0.5	U

* = Values are outside QC Limits
U = Not detected
< = Less than
> = Greater than
NA= Not Applicable

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NJ #14116 NY #11376
US EPA Historic CLP Lab

QUALITY ASSURANCE DATA - DUPLICATES

Sample duplicated: BLANK S
Matrix type: AQUEOUS
Batch Number: 2861D

Parameter	Result mg/l	Duplicate Result mg/l	RPD	QC Limits RPD	Minimum Detection Limit mg/l	Method Blank Analysis mg/l
Petroleum Hydrocarbons	4.9	4.9	0	+/-20%	0.5	U

* = Values are outside QC Limits
U = Not detected
NC= Non calculable RPD due to value(s) less than the detection limit
< = Less than
> = Greater than
NA= Not Applicable

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NJ #14116 NY #11376
US EPA Historic CLP Lab

QUALITY ASSURANCE DATA - SPIKE RECOVERIES

Matrix type: AQUEOUS
Batch Number: 2860S

Parameter	Result mg/l	Amount Added mg/l	Conc. Matrix Spike mg/l	% Spike Rec.	QC Limit % Spike Recovery	Minimum Detection Limit mg/l	Method Blank Analysis mg/l
Cyanide, Total	U	0.100	0.093	93	75-125	0.010	U

* = Values are outside QC Limits
U = Not detected
< = Less than
> = Greater than
NA= Not Applicable

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NJ #14116 NY #11376
US EPA Historic CLP Lab

QUALITY ASSURANCE DATA - DUPLICATES

Matrix type: AQUEOUS
Batch Number: 2860D

Parameter	Result mg/l	Duplicate Result mg/l	RPD	QC Limits RPD	Minimum Detection Limit mg/l	Method Blank Analysis mg/l
Cyanide, Total	0.093	0.093	0	+/-20%	0.010	U

* = Values are outside QC Limits
U = Not detected
NC= Non calculable RPD due to value(s) less than the detection limit
< = Less than
> = Greater than
NA= Not Applicable

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GM

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PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
12	01	94	12	31	94
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	83,400	118,700
Total Flow-gal/day	245,300	349,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days 31

N/A ***Flow on Sample date 12/7-12/8 - 319,000 GPD**

Parameter		Mass Limit or Concentration Average	Maximum	Units	No. of Samples	Sample type Comp./grab
Benzene	Sample measurement	< 0.00266	< 0.00266	# / day	1	Grab
	Permit requirement	0.27421	0.64463	# / day	1	
Carbon Tetrachloride	Sample measurement	< 0.00532	< 0.00532	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day		
Chlorobenzene	Sample measurement	< 0.00266	< 0.00266	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
1,2,4-Trichloro-benzene	Sample measurement	< 0.66512	< 0.66512	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day		
Hexachlorobenzene	Sample measurement	< 0.53209	< 0.53209	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,2-Dichloroethane	Sample measurement	< 0.00532	< 0.00532	# / day	1	Grab
	Permit requirement	0.86568	2.76056	# / day	1	
1,1,1-Trichloro-ethane	Sample measurement	< 0.00266	< 0.00266	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	
Hexachloroethane	Sample measurement	< 0.53209	< 0.53209	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,1-Dichloroethane	Sample measurement	< 0.00266	< 0.00266	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	

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** During this monitoring period, no change has been made to the plot plan submitted to PVSC on 9/19/94.*

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
12	01	94	12	31	94
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	83,400	118,700
Total Flow-gal/day	245,300	349,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 12/7-12/8 - 319,000 GPD**

Parameter		Mass Limit or Concentration Average	Maximum	Units	No. of Samples	Sample type Comp./grab
1,1,2-Trichloro-ethane	Sample measurement	< 0.00532	< 0.00532	# / day	1	Grab
	Permit requirement	0.15390	0.61079	# / day	1	
Chloroethane	Sample measurement	< 0.00798	< 0.00798	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Chloroform	Sample measurement	0.01862	0.01862	# / day	1	Grab
	Permit requirement	0.53384	1.56304	# / day	1	
1,2-Dichloro-benzene	Sample measurement	< 0.66512	< 0.66512	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,3-Dichloro-benzene	Sample measurement	< 0.66512	< 0.66512	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,4-Dichloro-benzene	Sample measurement	< 0.66512	< 0.66512	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,1-Dichloro-ethylene	Sample measurement	< 0.00532	< 0.00532	# / day	1	Grab
	Permit requirement	0.10581	0.28856	# / day	1	
1,2-Trans-Dichloroethylene	Sample measurement	< 0.00532	< 0.00532	# / day	1	Grab
	Permit requirement	0.12023	0.31742	# / day	1	
1,2-Dichloro-propane	Sample measurement	< 0.00266	< 0.00266	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	

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Monitoring Period					
12	01	94	12	31	94
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	83,400	118,700
Total Flow-gal/day	245,300	349,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 12/7-12/8 - 319,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3-Dichloro-propylene	Sample measurement	< 0.00266	< 0.00266	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	
Ethylbenzene	Sample measurement	< 0.00532	< 0.00532	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Methylene Chloride	Sample measurement	< 0.00532	< 0.00532	# / day	1	Grab
	Permit requirement	0.17314	0.81759	# / day	1	
Methyl Chloride	Sample measurement	< 0.00532	< 0.00532	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Hexachloro-butadiene	Sample measurement	< 0.66512	< 0.66512	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
Nitrobenzene	Sample measurement	< 0.13302	< 0.13302	# / day	1	Comp.
	Permit requirement	10.75850	30.78942	# / day	1	
2-Nitrophenol	Sample measurement	< 0.13302	< 0.13302	# / day	1	Comp.
	Permit requirement	0.31261	1.11096	# / day	1	
4-Nitrophenol	Sample measurement	< 0.13302	< 0.13302	# / day	1	Comp.
	Permit requirement	0.77911	2.77018	# / day	1	
4,6-Dinitro-o-Cresol	Sample measurement	< 0.53209	< 0.53209	# / day	1	Comp.
	Permit requirement	0.37513	1.33219	# / day	1	

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Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034
Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034
Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451
Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
12	01	94	12	31	94
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	83,400	118,700
Total Flow-gal/day	245,300	349,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 12/7-12/8 - 319,000 GPD**

Parameter		Mass Limit or Concentration Average	Maximum	Units	No. of Samples	Sample type Comp./grab
Tetrachloro-ethylene	Sample measurement	< 0.00266	< 0.00266	# / day	1	Grab
	Permit requirement	0.250009	0.78873	# / day	1	
Toluene	Sample measurement	0.01330	0.01330	# / day	1	Grab
	Permit requirement	0.13466	0.35589	# / day	1	
Trichloro-ethylene	Sample measurement	< 0.00266	< 0.00266	# / day	1	Grab
	Permit requirement	0.12504	0.33184	# / day	1	
Vinyl Chloride	Sample measurement	< 0.00532	< 0.00532	# / day	1	Grab
	Permit requirement	0.46651	0.82721	# / day	1	
Total Cyanide	Sample measurement	< 0.02660	< 0.02660	# / day	1	Grab
	Permit requirement	2.01992	5.77121	# / day	1	
Total Lead	Sample measurement	< 0.02128	< 0.02128	# / day	1	Comp.
	Permit requirement	1.53899	3.31845	# / day	1	
Total Zinc	Sample measurement	0.20486	0.20486	# / day	1	Comp.
	Permit requirement	5.04981	12.55239	# / day	1	
Petroleum Hydrocarbons	Sample measurement	2.5	2.5	mg / L	1	Grab
	Permit requirement		100	mg / L	1	
	Sample measurement					
	Permit requirement					

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During this monitoring period, no change has been made to the plot plan submitted to PVSC on 9/19/94.

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)
Not Applicable

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

SEE ATTACHMENT 1

Explain Method for preserving samples

The laboratory preservation methods and holding times were performed in accordance with EPA/NJDEPE approved procedures and methodologies.

***** SEE ATTACHMENT 2 FOR SPECIFIC PRESERVATION METHODOLOGIES.*****

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Harold G. Thompson
Signature of Principal Executive or Authorized Agent

Harold G. Thompson

Senior Vice President / Operations
Type Name and Title

January 19, 1995
Date

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During this monitoring period, no change has been made to the plot plan submitted to PVSC on 9/19/94.

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Attachment 1

Outfall 001

Compliance statement

Givaudan-Roure's test readings were within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H and other regulatory agency limitations.

It should be noted that the laboratory was unable to obtain a Minimum Detectable Limit (MDL) for 4,6-Dinitro-o-Cresol that was below the amount allowed for this parameter. Givaudan-Roure does not handle this material, and we have always been below permit limits when the MDL allowed that determination. We are certain that we are in compliance now. The QA/QC report is attached.

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Attachment 2

PRESERVATION METHODOLOGIES

Volatile Organics Samples :
Cool to 4°C in an ice chest.

Total Cyanide Samples :
Preserve sample with 10 N NaOH to a pH of greater than 12. After preserving the sample, cool to 4°C in an ice chest.

Total Lead and Total Zinc Samples :
Acidify sample with Conc. HNO_3 to a pH of 2 or less.

Acid / Base Neutrals Extractables Samples :
Approximately 80 mg/l sodium thiosulfate is added to the bottle(s) in the laboratory prior to being brought into the field. After collection, the sample is cooled to 4°C in an ice chest.

Petroleum Hydrocarbon Samples :
Preserve sample with conc. H_2SO_4 or HCl to a pH of less than 2 and cool to 4°C in an ice chest.

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DECEMBER 21, 1994

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NJ #14116 NY #11376
US EPA Historic CLP Lab

VOLATILE ORGANIC ANALYSIS BY GC/MS

Lab Number: 202353
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 MONTHLY
Sample ID: 001 GRAB
Sample date: 12/08/94
Sampled by: Customer
At lab date: 12/08/94
Matrix: WATER

Data File: >G3738

Analysis Date: 12/19/94
Dilution Factor: 1

Init Sample vol= 5ml Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	2
Bromomethane	U	U	4
Vinyl chloride	U	U	2
Chloroethane	U	U	3
Methylene chloride	U	U	2
Trichlorofluoromethane	U	U	1
1,1-Dichloroethene	U	U	2
1,1-Dichloroethane	U	U	1
trans-1,2-Dichloroethene	U	U	2
Chloroform	7	U	1
1,2-Dichloroethane	U	U	2
1,1,1-Trichloroethane	U	U	1
Carbon tetrachloride	U	U	2
Bromodichloromethane	U	U	2
1,2-Dichloropropane	U	U	1
cis-1,3-Dichloropropene	U	U	1
2-Chloroethyl vinyl ether	U	U	4
Trichloroethene	U	U	1
Dibromochloromethane	U	U	2
1,1,2-Trichloroethane	U	U	2
Benzene	U	U	1
trans-1,3-Dichloropropene	U	U	1
Bromoform	U	U	2
Tetrachloroethene	U	U	1
1,1,2,2-Tetrachloroethane	U	U	1
Toluene	5	U	1
Chlorobenzene	U	U	1
Ethylbenzene	U	U	2
total Xylenes	U	U	1
1,3-Dichlorobenzene	U	U	1
1,2-Dichlorobenzene	U	U	2
1,4-Dichlorobenzene	U	U	2

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
Note: Dichlorobenzenes, when applicable analyzed as semi-volatiles.
ND: Not Determined.

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US EPA Historic CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 MONTHLY
Sample Date: 12/08/94
Sampled by: Customer
At Lab Date: 12/08/94
Sample Matrix: Aqueous

Lab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
02353	001 GRAB	2.5	U	0.57	12/15/94	12/15/94

U = Not detected

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NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 202353
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 MONTHLY
Sample ID: 001 GRAB
Sample matrix: LIQUID (AQUEOUS)
Sample date: 12/08/94
Sampled by: Customer
At lab date: 12/08/94

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Cyanide, Total	U	U	0.010

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Lab Number: 202354
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 MONTHLY
Sample ID: 001 COMPOSITE
Sample date: 12/08/94
Sampled by: Customer
At lab date: 12/08/94
Matrix: WATER

Data File: >F1235

Analysis Date: 12/14/94

Init Sample vol= 1000ml Final volume= 50ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	50
2-Nitrophenol	U	U	50
Phenol	U	U	50
2,4-Dimethylphenol	U	U	100
2,4-Dichlorophenol	U	U	50
2,4,6-Trichlorophenol	U	U	50
Pentachlorophenol	U	U	150
2,4-Dinitrophenol	U	U	450
4,6-Dinitro-2-methylphenol	U	U	200
4-Nitrophenol	U	U	50
4-Chloro-3-methylphenol	U	U	50

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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201-584-0330
DECEMBER 15, 1994

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Lab Number: 202354
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 MONTHLY
Sample ID: 001 COMPOSITE
Sample date: 12/08/94
Sampled by: Customer
At lab date: 12/08/94
Matrix: WATER

Data File: >F1235

Analysis Date: 12/14/94

Init Sample vol= 1000ml Final volume= 50ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	50
bis(2-Chloroethyl)ether	U	U	50
1,3-Dichlorobenzene	U	U	250
1,4-Dichlorobenzene	U	U	250
1,2-Dichlorobenzene	U	U	250
bis(2-Chloroisopropyl)ether	U	U	100
N-Nitroso-di-n-propylamine	U	U	50
Hexachloroethane	U	U	200
Nitrobenzene	U	U	50
Isophorone	U	U	50
bis(2-Chloroethoxy)methane	U	U	50
1,2,4-Trichlorobenzene	U	U	250
Naphthalene	U	U	200
Hexachlorobutadiene	U	U	250
Hexachlorocyclopentadiene	U	U	200
2-Chloronaphthalene	U	U	250
Dimethyl phthalate	U	U	250
Acenaphthylene	U	U	150
2,6-Dinitrotoluene	U	U	50
Acenaphthene	U	U	200
2,4-Dinitrotoluene	U	U	100
Diethyl phthalate	U	U	150
4-Chlorophenyl phenyl ether	U	U	250
Fluorene	U	U	150
N-Nitrosodiphenylamine	U	U	100
1,2-Diphenylhydrazine (Azobenzene)	U	U	100
4-Bromophenyl phenyl ether	U	U	200
Hexachlorobenzene	U	U	200
Phenanthrene	U	U	100
Anthracene	U	U	50
Di-n-butylphthalate	U	U	50
Fluoranthene	U	U	100
Benzidine	U	U	200
Pyrene	U	U	100
Butyl benzylphthalate	U	U	100
3,3'-Dichlorobenzidine	U	U	50
Benzo(a)anthracene	U	U	100
Chrysene	U	U	50
bis(2-Ethylhexyl)phthalate	U	U	100
Di-n-octylphthalate	U	U	100
Benzo(b)fluoranthene	U	U	150

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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MEG

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
DECEMBER 15, 1994

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Lab Number: 202354
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 MONTHLY
Sample ID: 001 COMPOSITE
Sample date: 12/08/94
Sampled by: Customer
At lab date: 12/08/94
Matrix: WATER

Data File: >F1235

Analysis Date: 12/14/94

Init Sample vol= 1000ml Final volume= 50ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Benzo(k)fluoranthene	U	U	150
Benzo(a)pyrene	U	U	50
Indeno(1,2,3-cd)pyrene	U	U	50
Dibenz(a,h)anthracene	U	U	50
Benzo(g,h,i)perylene	U	U	100

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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INORGANIC LABORATORY ANALYSIS

Lab Number: 202354
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 MONTHLY
Sample ID: 001 COMPOSITE
Sample date: 12/08/94
Sampled by: Customer
At lab date: 12/08/94
Matrix: WATER

Percent Moisture: 100%

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Lead	U	U	0.008	12/15/94
Zinc	0.077	U	0.020	12/15/94

U = Not Detected

INDUSTRIAL CORROSION MANAGEMENT, INC.
Richard Levine, President

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GEE

ATTACHMENT A

MR-1 FORM FOR :

DISCHARGE POINT 001 (includes all lab data and the flow diagram)

ANALYTICAL DATA REPORT PACKAGE

GIVAUDAN-ROURE CORPORATION

001 MONTHLY

REPORT GENERATION DATE: December 28, 1994
DATE SAMPLED: 12/08/94

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

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ICM LABORATORIES (INDUSTRIAL CORROSION MANAGEMENT, INC.)
1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

DECEMBER 28, 1994
11:31:55

CLIENT: GIVAUDAN-ROURE CORPORATION
SOURCE: 001 MONTHLY

ANALYTICAL DATA SUMMARY REPORT FOOTNOTE PAGE

U = Indicates a compound was analyzed for but not detected.
For results marked U, the numerical value is the compound MDL.

J = Indicates an estimated value. It is utilized when a reported value meets the identification.
criteria but the result is less than the specified detection limit and greater than zero.

B = Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

W = Analytical Spike recovery for furnace AA analysis was not within control limits but was greater than or equal to 40%.

NA = Not Applicable.

Trip Blank pH is measured in laboratory.

IND = Indeterminable - compound decomposes in water.

NOTES

202354 - 001 COMPOSITE

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1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

DECEMBER 28, 1994
11:30:20

CLIENT: GIVAUDAN-ROURE CORPORATION
SOURCE: 001 MONTHLY

ANALYTICAL DATA SUMMARY REPORT

Client Sample Number	001 GRAB	See Notes
ICM Sample Number	202353	202354
Sampling Date	12/08/94	12/08/94
Units	UG/L	UG/L
VOLATILE PARAMETERS		
Chloromethane	2 U	NA
Bromomethane	4 U	NA
Vinyl chloride	2 U	NA
Chloroethane	3 U	NA
Methylene chloride	2 U	NA
Trichlorofluoromethane	1 U	NA
1,1-Dichloroethene	2 U	NA
1,1-Dichloroethane	1 U	NA
trans-1,2-Dichloroethene	2 U	NA
Chloroform	7	NA
1,2-Dichloroethane	2 U	NA
1,1,1-Trichloroethane	1 U	NA
Carbon tetrachloride	2 U	NA
Bromodichloromethane	2 U	NA
1,2-Dichloropropane	1 U	NA
cis-1,3-Dichloropropene	1 U	NA
2-Chloroethyl vinyl ether	4 U	NA
Trichloroethene	1 U	NA
Dibromochloromethane	2 U	NA
1,1,2-Trichloroethane	2 U	NA
Benzene	1 U	NA
trans-1,3-Dichloropropene	1 U	NA
Bromoform	2 U	NA
Tetrachloroethene	1 U	NA
1,1,2,2-Tetrachloroethane	1 U	NA
Toluene	5	NA
Chlorobenzene	1 U	NA
Ethylbenzene	2 U	NA
total Xylenes	1 U	NA
1,3-Dichlorobenzene	1 U	NA
1,2-Dichlorobenzene	2 U	NA
1,4-Dichlorobenzene	2 U	NA
Total Non-Target Compounds	NA	NA

1-A

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1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

DECEMBER 28, 1994
11:30:55

CLIENT: GIVAUDAN-ROURE CORPORATION
SOURCE: 001 MONTHLY

ANALYTICAL DATA SUMMARY REPORT

Client Sample Number	001 GRAB	See Notes
ICM Sample Number	202353	202354
Sampling Date	12/08/94	12/08/94
Units	UG/L	UG/L
SEMIVOLATILE PARAMETERS (ACID FRACTION)		
2-Chlorophenol	NA	50 U
2-Nitrophenol	NA	50 U
Phenol	NA	50 U
2,4-Dimethylphenol	NA	100 U
2,4-Dichlorophenol	NA	50 U
2,4,6-Trichlorophenol	NA	50 U
Pentachlorophenol	NA	150 U
2,4-Dinitrophenol	NA	450 U
4,6-Dinitro-2-methylphenol	NA	200 U
4-Nitrophenol	NA	50 U
4-Chloro-3-methylphenol	NA	50 U
Total Non-Target Compounds	NA	NA

1B

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1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

DECEMBER 28, 1994
11:31:01

CLIENT: GIVAUDAN-ROURE CORPORATION
SOURCE: 001 MONTHLY

ANALYTICAL DATA SUMMARY REPORT

Client Sample Number	001 GRAB	See Notes
ICM Sample Number	202353	202354
Sampling Date	12/08/94	12/08/94
Units	UG/L	UG/L
SEMIVOLATILE PARAMETERS (BASE/NEUTRAL)		
N-Nitrosodimethylamine	NA	50 U
bis(2-Chloroethyl)ether	NA	50 U
1,3-Dichlorobenzene	NA	250 U
1,4-Dichlorobenzene	NA	250 U
1,2-Dichlorobenzene	NA	250 U
bis(2-Chloroisopropyl)ether	NA	100 U
N-Nitroso-di-n-propylamine	NA	50 U
Hexachloroethane	NA	200 U
Nitrobenzene	NA	50 U
Isophorone	NA	50 U
bis(2-Chloroethoxy)methane	NA	50 U
1,2,4-Trichlorobenzene	NA	250 U
Naphthalene	NA	200 U
Hexachlorobutadiene	NA	250 U
Hexachlorocyclopentadiene	NA	200 U
2-Chloronaphthalene	NA	250 U
Dimethyl phthalate	NA	250 U
Acenaphthylene	NA	150 U
2,6-Dinitrotoluene	NA	50 U
Acenaphthene	NA	200 U
2,4-Dinitrotoluene	NA	100 U
Diethyl phthalate	NA	150 U
4-Chlorophenyl phenyl ether	NA	250 U
Fluorene	NA	150 U
N-Nitrosodiphenylamine	NA	100 U
1,2-Diphenylhydrazine (Azobenzene)	NA	100 U
4-Bromophenyl phenyl ether	NA	200 U
Hexachlorobenzene	NA	200 U
Phenanthrene	NA	100 U
Anthracene	NA	50 U
Di-n-butylphthalate	NA	50 U
Fluoranthene	NA	100 U
Benzidine	NA	200 U
Pyrene	NA	100 U
Butyl benzylphthalate	NA	100 U
3,3'-Dichlorobenzidine	NA	50 U
Benzo(a)anthracene	NA	100 U
Chrysene	NA	50 U
bis(2-Ethylhexyl)phthalate	NA	100 U
Di-n-octylphthalate	NA	100 U
Benzo(b)fluoranthene	NA	150 U
Benzo(k)fluoranthene	NA	150 U
Benzo(a)pyrene	NA	50 U
Indeno(1,2,3-cd)pyrene	NA	50 U
Dibenz(a,h)anthracene	NA	50 U
Benzo(g,h,i)perylene	NA	100 U
Total Non-Target Compounds	NA	NA

1C

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1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

DECEMBER 28, 1994
11:31:52

CLIENT: GIVAUDAN-ROURE CORPORATION
SOURCE: 001 MONTHLY

ANALYTICAL DATA SUMMARY REPORT

Client Sample Number	001 GRAB	See Notes
ICM Sample Number	202353	202354
Sampling Date	12/08/94	12/08/94
Units	MG/L	MG/L
INORGANIC PARAMETERS (METALS)		
Lead	NA	0.008 U
Zinc	NA	0.077

1D

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1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

DECEMBER 28, 1994
11:31:46

CLIENT: GIVAUDAN-ROURE CORPORATION
SOURCE: 001 MONTHLY

ANALYTICAL DATA SUMMARY REPORT

Client Sample Number	001 GRAB	See Notes
ICM Sample Number	202353	202354
Sampling Date	12/08/94	12/08/94
Units	MG/L	MG/L
INORGANIC PARAMETERS		
Petroleum Hydrocarbons	2.5	NA
Cyanide, Total	0.010 U	NA

1E

INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
201-584-0330
DECEMBER 28, 1994

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

ANALYTICAL DATA REPORT PACKAGE

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 MONTHLY
Sampled By: Customer

SAMPLE ID:	MATRIX	LAB NUMBER	DATE & TIME COLLECTED	AT LAB DATE
001 GRAB	Aqueous	202353	12/08/94 08:40	12/08/94
001 COMPOSITE	Aqueous	202354	12/08/94 08:40	12/08/94

Supervisor/Manager Signature:

Richard S. Levine (RMC)
Richard S. Levine

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PAU

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

NJDEP Certified Drinking Water/
Wastewater Laboratory ID# 14116

LABORATORY DELIVERABLES

The following laboratory deliverables are included in this data submission. All deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non-Conformance Summary.

		Check if Complete
I.	Cover Page, Format, and Laboratory Certification (Including Cross Reference Table of Field I.D. # and Laboratory I.D. #)	✓
II.	Chain of Custody	✓
III.	Summary Sheets Listing Analytical Results Including QA Data Information	✓
IV.	Laboratory Chronicle and Methodology Summary Including Sample Holding Time Check	✓
V.	Initial Calibration and Continuing Calibration	✓
VI.	Tune Summary (MS)	✓
VII.	Blanks (Method, Field, Trip)	✓
VIII.	Surrogate Recovery Summary	✓
IX.	Chromatographs Labelled/Compound Identification	✓
X.	Minimum Detection Limits (Lower than Action Level if Clean Zone Sample - and consistent with method guidelines)	✓
XI.	Non-Conformance Summary	✓

Donna G. Grile
Quality Assurance Coordinator

12/27/94
Date

NA = Not Applicable

ICM LABORATORIES — CHAIN OF CUSTODY REPORT

CLIENT: Givaudan-Roure
ADDRESS: 125 Delawanna Ave. Clifton, N.J. 07015
PHONE: (201) 365-8507
PROJECT: 001 Monthly
PROJ. MGR.: Pat Hopkins

BILL TO: Accounts Payable
SEND REPORT TO: Pat Hopkins
IN CASE OF QUESTIONS UPON SAMPLE RECEIPT CALL: Pat Hopkins
PHONE: (201) 365-8507

DELIVERABLES:
- [x] REDUCED DELIVERABLES NON-CLP FORMAT non 6/7
- [ ] REDUCED DEL. CLP FORMAT
- [ ] REGULATORY FORMAT
- [ ] FULL DEL. CLP FORMAT
- [ ] NPDES
- [ ] STATE FORMS REQUIRED

TURNAROUND TIME
FAX (PRELIMINARIES) (If required): X
HARDCOPY:
COOLER TEMP: 2.9°C

LABORATORY ID CODE	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	COMPOSITE	GRAB	SOIL	LIQUID	SLUDGE	OTHER	# OF BOTTLES	Volatiles Method 624	ABN (625)	Total Cyanide	Petroleum Hydrocarbon	Metals *								H_2SO_4	HNO_3	HCL	NAOH	OTHER
202353	001	12/8/94	8:40 AM		X		X			3-40 mVials	X														X		
202354	001	12/8/94	8:40 AM	X			X			2x1L Glass		X															
202353	001	12/8/94	8:40 AM		X		X			1x1L Plastic			X													X	
202353	001	12/8/94	8:40 AM		X		X			1x1L Glass				X									X				
202354	001	12/8/94	8:40 AM	X			X			1x1L Plastic					X									X			

SAMPLED BY: Pat Hopkins — DATE: 12/8/94 TIME: 8:40AM
RELINQUISHED BY: [signature] — DATE: 12/8/94 TIME: 7:40
RECEIVED BY: John Conrad — DATE: 12/8/94 TIME: 9:45
RELINQUISHED BY: John Conrad — DATE: 12/8/94 TIME: 1:00
RECEIVED BY: Nutan Chakar — DATE: 12-8-94 TIME: 1:00
RELINQUISHED BY: — DATE: TIME:
RECEIVED BY: — DATE: TIME:

COMMENTS: * Metals (Lead + Zinc)
Use P.O. #110973

COMPOUND LIST
- [x] PRIORITY POLLUTANT
- [ ] TARGET COMPOUND LIST
- [ ] NJAC 7:14A APP B
- [ ] OTHER

CONCENTRATIONS EXPECTED
- [ ] HIGH
- [ ] MEDIUM
- [ ] LOW
- KNOWN HAZARD

IS SAMPLE CHLORINATED? [ ] YES [ ] NO

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1152 Route 10
Randolph, NJ 07869
201-584-0330

NJ DEP and PA DER Certified
NJ DEP Lab ID# 14116
US EPA Historic CLP Lab

LABORATORY CHRONICLE

DATE SAMPLED: 12/8/94

PRESERVATIVE: 4 degrees C
HCl

DATE RECEIPT/REFRIGERATION: 12/8/94

GC/MS VOLATILES:

Lab ID#	Date Analyzed
202353	12/19/94

DEPT. SUPERVISOR: [signature]

QA REVIEW & APPROVAL: [signature]

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

NJ DEP and PA DER Certified
NJ DEP Lab ID# 14116
US EPA Historic CLP Lab

LABORATORY CHRONICLE

DATE SAMPLED: 12/8/94 PRESERVATIVE: 4 degrees C

DATE RECEIPT/REFRIGERATION: 12/8/94

GC/MS SEMI-VOLATILES:

Lab ID#	Acids Extracted	Acids Analyzed	Base Neutrals Extracted	Base Neutrals Analyzed
202354	12/12/94	12/14/94	12/12/94	12/14/94

DEPT. SUPERVISOR: [illegible]

QA REVIEW & APPROVAL: Donna Ba. Beale

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

NJ DEP and PA DER Certified
NJ DEP Lab ID# 14116
US EPA Historic CLP Lab

LABORATORY CHRONICLE

DATE SAMPLED: 12/8/94

PRESERVATIVE: 4 degrees C
HNO3

DATE RECEIPT/REFRIGERATION: 12/8/94

METALS:

Lab ID #	Analysis Date Metals	Analysis Date Mercury
202354	12/15/94	N/A

DEPT. SUPERVISOR: Jane K. Madell

QA REVIEW & APPROVAL: Donna L. Basile

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

NJ DEP and PA DER Certified
NJ DEP Lab ID# 14116
US EPA Historic CLP Lab

LABORATORY CHRONICLE

DATE SAMPLED: 12/8/94 PRESERVATIVE: 4 degrees C H_2SO_4

DATE RECEIPT/REFRIGERATION: 12/8/94

PETROLEUM HYDROCARBONS:

Lab ID #	Date Extracted	Date Analyzed
202353	12/15/94	12/15/94

DEPT. SUPERVISOR: [signature]

QA REVIEW & APPROVAL: Donna G. Grale

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

NJ DEP and PA DER Certified
NJ DEP Lab ID# 14116
US EPA Historic CLP Lab

LABORATORY CHRONICLE

DATE SAMPLED: 12/8/94 PRESERVATIVE: 4 degrees C NaOH

DATE RECEIPT/REFRIGERATION: 12/8/94

GENERAL ANALYTICAL:

Lab ID #	Parameter	Date Analyzed
202353	Cyanide	12/12/94

DEPT. SUPERVISOR: [signature]

QA REVIEW & APPROVAL: Donna B. Basile

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1152 Route 10
Randolph, NJ 07869
201-584-0330

NJ DEP and PA DER Certified.
NJ DEP Lab ID# 14116
US EPA Historic CLP Lab

CONFORMANCE/NONCONFORMANCE SUMMARY CHECKLIST

Lab Numbers: 202353, 202354

Volatile Organics: Analyzed ✓ Not Analyzed ____

All tunes were run in required frequency. Yes ✓ No ____

All tune m/z ratios met criteria. Yes ✓ No ____

All initial and/or continuing calibrations were run in required frequency. Yes ✓ No ____

All calibration SPCCs and CCCs met criteria. Yes ____ No ____ NA ✓

Surrogate recoveries met QC criteria. Yes ✓ No ____

All method blanks met contamination criteria. Yes ✓ No ____

All samples were analyzed within the required holding times. Yes ✓ No ____

Comments: _____

Semi-volatile Organics: Analyzed ✓ Not Analyzed ____

All tunes were run in required frequency. Yes ✓ No ____

All tune m/z ratios met criteria. Yes ✓ No ____

All initial and/or continuing calibrations were run in required frequency. Yes ✓ No ____

All calibration SPCCs and CCCs met criteria. Yes ____ No ____ NA ✓

Surrogate recoveries met QC criteria. Yes ✓ No ____

All method blanks met contamination criteria. Yes ✓ No ____

All samples were extracted and analyzed within the required holding times. Yes ✓ No ____

Comments: _____

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

NJ DEP and PA DER Certified.
NJ DEP Lab ID# 14116
US EPA Historic CLP Lab

CONFORMANCE/NONCONFORMANCE SUMMARY CHECKLIST

Lab Numbers: 202353, 202354

Pesticides/PCBs: Analyzed____ Not Analyzed ✓

All method blanks met contamination criteria. Yes____ No____

All samples were extracted and analyzed within the required holding times. Yes____ No____

Comments:

Metals: Analyzed ✓ Not Analyzed____

All method blanks met contamination criteria. Yes ✓ No____

All samples were analyzed within the required holding times. Yes ✓ No____

Comments:

Petroleum Hydrocarbons: Analyzed ✓ Not Analyzed____

All samples were extracted and analyzed within the required holding times. Yes ✓ No____

Comments:

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Randolph, NJ 07869
201-584-0330

NJ DEP and PA DER Certified.
NJ DEP Lab ID# 14116
US EPA Historic CLP Lab

CONFORMANCE/NONCONFORMANCE SUMMARY CHECKLIST

Lab Numbers: 202353, 202354

General Chemistry: Analyzed ✓ Not Analyzed ____

All samples were analyzed within the required holding times.
Yes ✓ No ____

Comments: _____

Donna L. Basile
Quality Assurance Coordinator

12/27/94
Date

olatiles
*40 Code of Federal Regulations
**Method 624

emi-volatiles
*40 Code of Federal Regulations
**Method 625

Lead
*EPA Methods for Chemical Analysis of Water and Wastes, March 1983
**Method 239.2

Zinc
*40 Code of Federal Regulations
**Method 200.7

etroleum Hydrocarbons
*EPA Methods for Chemical Analysis of Water and Wastes, March 1983
**Method 418.1

yanide (Automated)
*EPA Methods for Chemical Analysis of Water and Wastes, March 1983
**Method 335.3

* Indicates reference.
* Indicates method.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
DECEMBER 21, 1994

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

VOLATILE ORGANIC ANALYSIS BY GC/MS

Lab Number: 202353
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 MONTHLY
Sample ID: 001 GRAB
Sample date: 12/08/94
Sampled by: Customer
At lab date: 12/08/94
Matrix: WATER

Data File: >G3738

Analysis Date: 12/19/94
Dilution Factor: 1

Init Sample vol= 5ml Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	2
Bromomethane	U	U	4
Vinyl chloride	U	U	2
Chloroethane	U	U	3
Methylene chloride	U	U	2
Trichlorofluoromethane	U	U	1
1,1-Dichloroethene	U	U	2
1,1-Dichloroethane	U	U	1
trans-1,2-Dichloroethene	U	U	2
Chloroform	7	U	1
1,2-Dichloroethane	U	U	2
1,1,1-Trichloroethane	U	U	1
Carbon tetrachloride	U	U	2
Bromodichloromethane	U	U	2
1,2-Dichloropropane	U	U	1
cis-1,3-Dichloropropene	U	U	1
2-Chloroethyl vinyl ether	U	U	4
Trichloroethene	U	U	1
Dibromochloromethane	U	U	2
1,1,2-Trichloroethane	U	U	2
Benzene	U	U	1
trans-1,3-Dichloropropene	U	U	1
Bromoform	U	U	2
Tetrachloroethene	U	U	1
1,1,2,2-Tetrachloroethane	U	U	1
Toluene	5	U	1
Chlorobenzene	U	U	1
Ethylbenzene	U	U	2
total Xylenes	U	U	1
1,3-Dichlorobenzene	U	U	1
1,2-Dichlorobenzene	U	U	2
1,4-Dichlorobenzene	U	U	2

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
Note: Dichlorobenzenes, when applicable analyzed as semi-volatiles.
ND: Not Determined.

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MEG

QUANT REPORT

Operator ID: KS9934 Quant Rev: 7 Quant Time: 941219 02:[illegible]
Output File: ^G3738::QT Injected at: 941219 02:10
Data File: >G3738::G1 Dilution Factor: 1.000[illegible]
Name: INST 59705, SAMPLE Instrument ID: INST 2G
Misc: 202353 , QV3510, L,5,5, 0.53mm X 75M CAP COLUMN

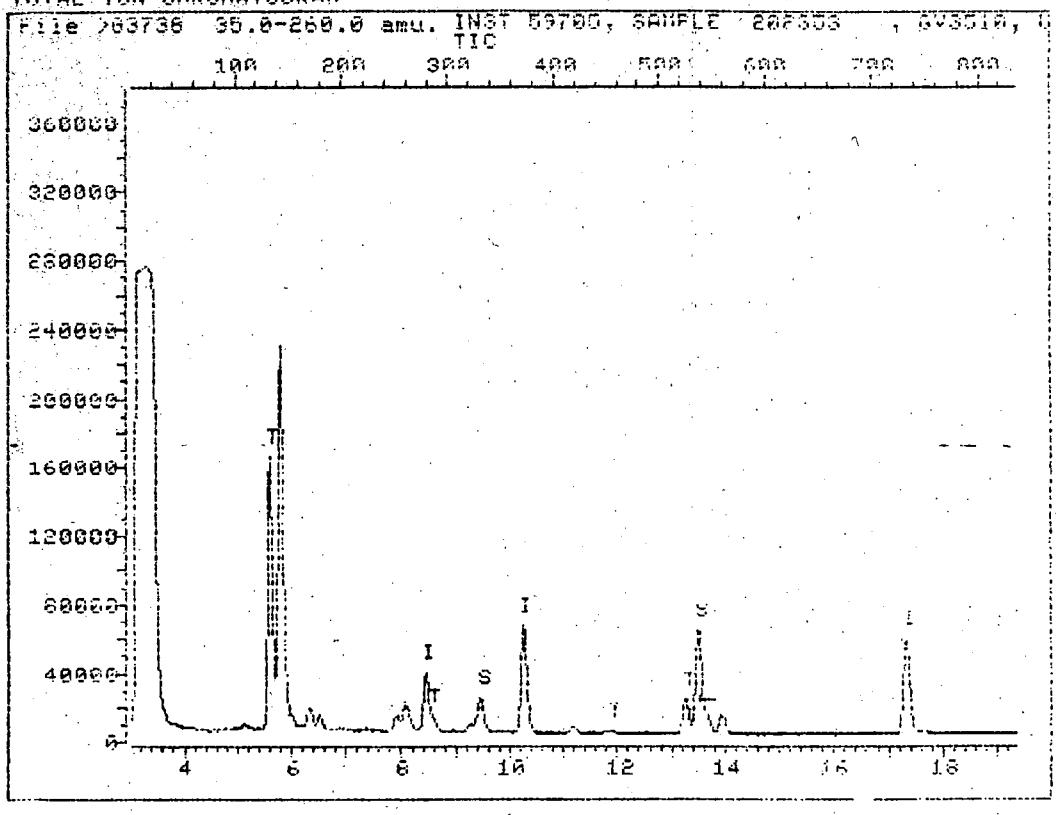
ID File: CPG624::SC
Title: GENERAL IDFILE FOR INSTRUMENT
Last Calibration: 941217 15:54 Last Qual Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	
1)	*Bromochloromethane	8.44	128.0	30423	30.00	UG/L	[illegible]
2)	Acetone NT	5.60	43.0	631532	3883.17	UG/L	100
14)	Chloroform	8.58	83.0	21075	7.49	UG/L	[illegible]
15)	1,2-Dichloroethane-d4	9.46	65.0	44109	33.44	UG/L	99
17)	2-Butanone NT	8.07	43.0	76971	180.22	UG/L	1[illegible]
18)	*1,4-Difluorobenzene	10.24	114.0	184317	30.00	UG/L	98
~~22)~~	~~Bromodichloromethane~~	11.87	83.0	3424	1.21	UG/L	[illegible]
32)	*Chlorobenzene-d5	17.33	117.0	142381	30.00	UG/L	97
33)	4-Methyl-2-Pentanone NT	13.26	43.0	73530	68.01	UG/L	[illegible]
37)	Toluene-d8	13.49	98.0	188458	30.60	UG/L	93
38)	Toluene	13.67	92.0	17215	4.99	UG/L	[illegible]
44)	Bromofluorobenzene	20.93	95.0	108342	29.06	UG/L	76

* Compound is ISTD

NT=NOT TARGETED

TOTAL ION CHROMATOGRAM



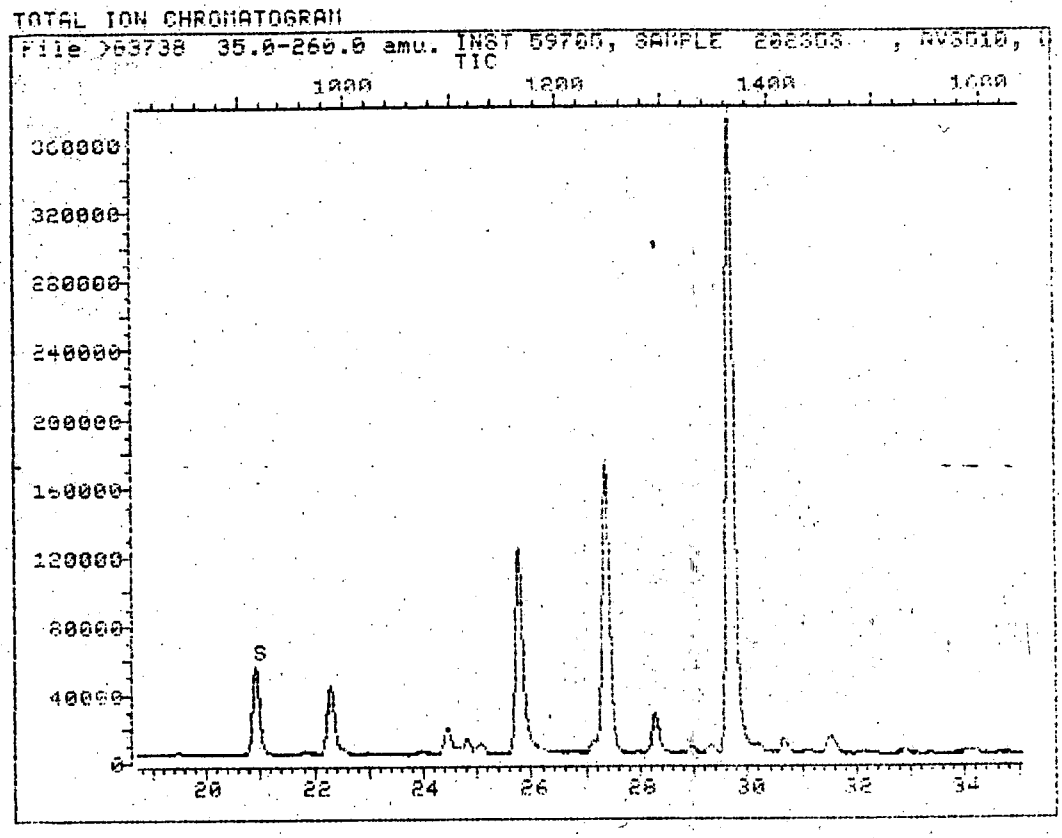
Data File: >G3738::G1 Quant Output File: >G3738::QT
Name: INST 59705, SAMPLE Instrument ID: INST 2G
Misc: 202353 , QV3510, 1,5,5, 0.53mm X 25m CAP COLUMN

Id File: CPG674::SC
Title: GENERAL IDFILE FOR INSTRUMENT G
Last Calibration: 941217 15:54 Last Qual Time: (non

Operator ID: KS9934
Quant Time : 941219 02:
Injected at: 941219 02:10

Page 1 of 2

TOTAL ION CHROMATOGRAM



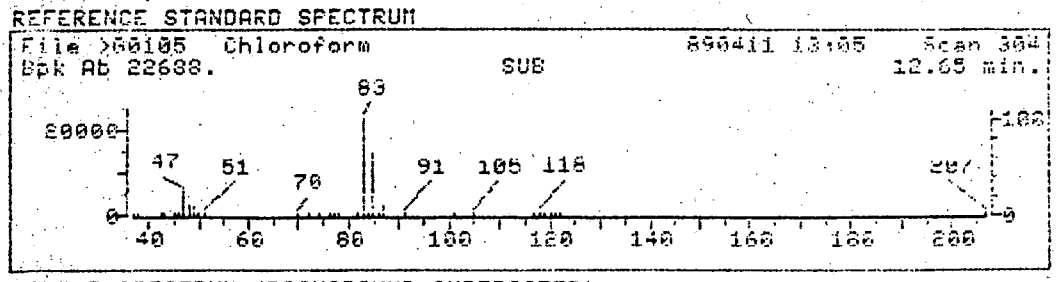
Data File: >G3738::G1 Quant Output File: ^G3738::QT
Name: INST 59705, SAMPLE Instrument ID: INST 2G
Misc: 202353 , QV3510, L,5,5, 0.53mm X 25M CAP COLUMN

Id File: CPG624::SC
Title: GENERAL IDFILE FOR INSTRUMENT G
Last Calibration: 941217 15:54 Last Qual Time: <non

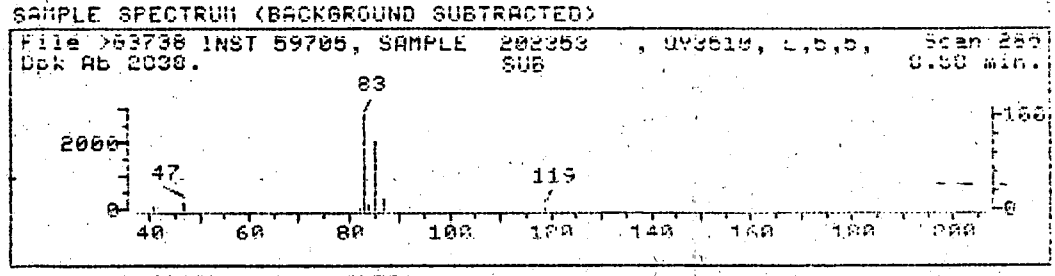
Operator ID: KS9934
Quant Time : 941219 02:
Injected at: 941219 02:10

Page 2 of 2

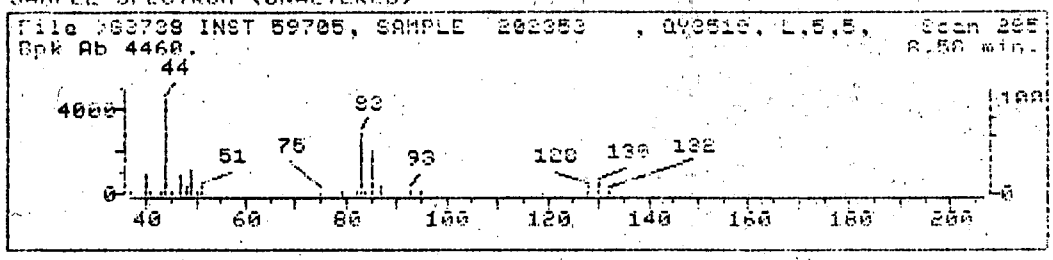
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

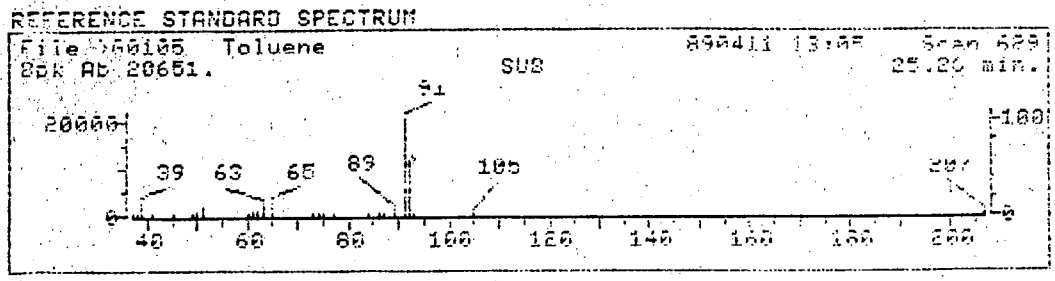


Data File: >G3738::G1
Name: INST 59705, SAMPLE
Misc: 202353 , QV3510, L,5,5,
Quant Time: 941219 02:45
Injected at: 941219 02:10
Last Qcal Time: <none>

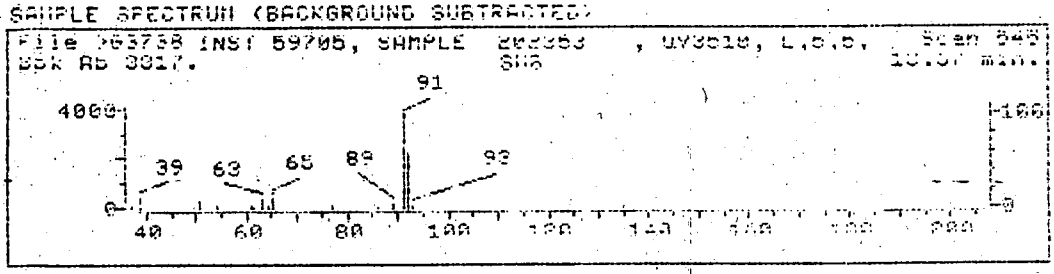
Quant Output File: ^G3738::QT
Instrument ID: INST 2G
0.53mm X 25M CAP COLUMN
Quant ID File: CP[illegible]24::
Last Calibration: 941217 15:54

Compound No : 14
Compound Name : Chloroform
Scan Number : 285
Retention Time: 8.58 min
Quant Ion : 83.0
Area : 210[illegible]
Concentration : 7.49 UG/L
q-value : 99

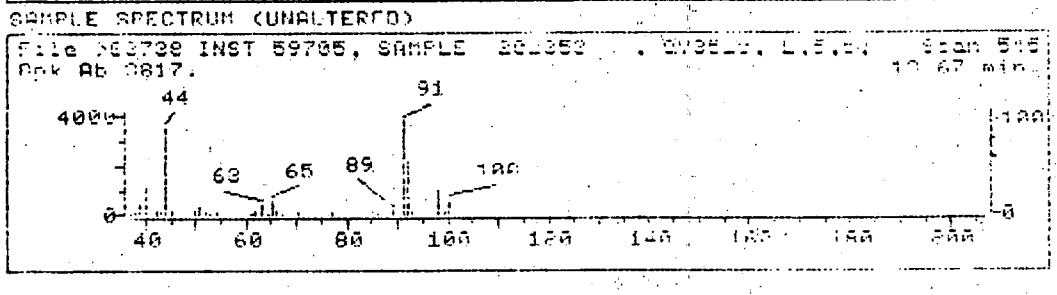
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >G3738::G1
Name: INST 59705, SAMPLE
Misc: 202353 , QV3510, L,5,5, 0.53mm X 25M CAP COLUMN
Quant Time: 941219 02:45
Injected at: 941219 02:10
Last Qcal Time: <none>

Quant Output File: >G3738::QT
Instrument ID: INST 2G
Quant ID File: CP[illegible]24::[illegible]
Last Calibration: 941217 15:54

Compound No : 38
Compound Name : Toluen
Scan Number : 545
Retention Time: 13.67 min
Quant Ion : 92.0
Area : 172[illegible]
Concentration : 4.94 ug/L
q-value : 94

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 MONTHLY
Sample Date: 12/08/94
Sampled by: Customer
At Lab Date: 12/08/94
Sample Matrix: Aqueous

Lab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
02353	001 GRAB	2.5	U	0.57	12/15/94	12/15/94

U = Not detected

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Richard Levine, President

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CLA

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
DECEMBER 20, 1994

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 202353
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 MONTHLY
Sample ID: 001 GRAB
Sample matrix: LIQUID (AQUEOUS)
Sample date: 12/08/94
Sampled by: Customer
At lab date: 12/08/94

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Cyanide, Total	U	U	0.010

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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BON

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201-584-0330
DECEMBER 15, 1994

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NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Lab Number: 202354
Data File: >F1235
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 MONTHLY
Sample ID: 001 COMPOSITE
Sample date: 12/08/94
Sampled by: Customer
Analysis Date: 12/14/94
At lab date: 12/08/94
Matrix: WATER

Init Sample vol= 1000ml Final volume= 50ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	50
2-Nitrophenol	U	U	50
Phenol	U	U	50
2,4-Dimethylphenol	U	U	100
2,4-Dichlorophenol	U	U	50
2,4,6-Trichlorophenol	U	U	50
Pentachlorophenol	U	U	150
2,4-Dinitrophenol	U	U	450
4,6-Dinitro-2-methylphenol	U	U	200
4-Nitrophenol	U	U	50
4-Chloro-3-methylphenol	U	U	50

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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DECEMBER 15, 1994

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NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Lab Number: 202354
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 MONTHLY
Sample ID: 001 COMPOSITE
Sample date: 12/08/94
Sampled by: Customer
At lab date: 12/08/94
Matrix: WATER

Data File: >F1235

Analysis Date: 12/14/94

Init Sample vol= 1000ml Final volume= 50ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	50
bis(2-Chloroethyl)ether	U	U	50
1,3-Dichlorobenzene	U	U	250
1,4-Dichlorobenzene	U	U	250
1,2-Dichlorobenzene	U	U	250
bis(2-Chloroisopropyl)ether	U	U	100
N-Nitroso-di-n-propylamine	U	U	50
Hexachloroethane	U	U	200
Nitrobenzene	U	U	50
Isophorone	U	U	50
bis(2-Chloroethoxy)methane	U	U	50
1,2,4-Trichlorobenzene	U	U	250
Naphthalene	U	U	200
Hexachlorobutadiene	U	U	250
Hexachlorocyclopentadiene	U	U	200
2-Chloronaphthalene	U	U	250
Dimethyl phthalate	U	U	250
Acenaphthylene	U	U	150
2,6-Dinitrotoluene	U	U	50
Acenaphthene	U	U	200
2,4-Dinitrotoluene	U	U	100
Diethyl phthalate	U	U	150
4-Chlorophenyl phenyl ether	U	U	250
Fluorene	U	U	150
N-Nitrosodiphenylamine	U	U	100
1,2-Diphenylhydrazine (Azobenzene)	U	U	100
4-Bromophenyl phenyl ether	U	U	200
Hexachlorobenzene	U	U	200
Phenanthrene	U	U	100
Anthracene	U	U	50
Di-n-butylphthalate	U	U	50
Fluoranthene	U	U	100
Benzidine	U	U	200
Pyrene	U	U	100
Butyl benzylphthalate	U	U	100
3,3'-Dichlorobenzidine	U	U	50
Benzo(a)anthracene	U	U	100
Chrysene	U	U	50
bis(2-Ethylhexyl)phthalate	U	U	100
Di-n-octylphthalate	U	U	100
Benzo(b)fluoranthene	U	U	150

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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1152 Route 10
Randolph, NJ 07869
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DECEMBER 15, 1994

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Lab Number: 202354
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 MONTHLY
Sample ID: 001 COMPOSITE
Sample date: 12/08/94
Sampled by: Customer
At lab date: 12/08/94
Matrix: WATER

Data File: >F1235

Analysis Date: 12/14/94

Init Sample vol= 1000ml Final volume= 50ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Benzo(k)fluoranthene	U	U	150
Benzo(a)pyrene	U	U	50
Indeno(1,2,3-cd)pyrene	U	U	50
Dibenz(a,h)anthracene	U	U	50
Benzo(g,h,i)perylene	U	U	100

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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QUANT REPORT

Operator ID: GT0101 Quant Rev: 7 Quant Time: 941214 15:31
Output File: ^F1235::QT Injected at: 941214 14:52
Data File: >F1235::F1 Dilution Factor: 1.00000
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 202354 ,QC5131,L,1000,50,30m SPB-5 CAP COLUMN BTL# 8

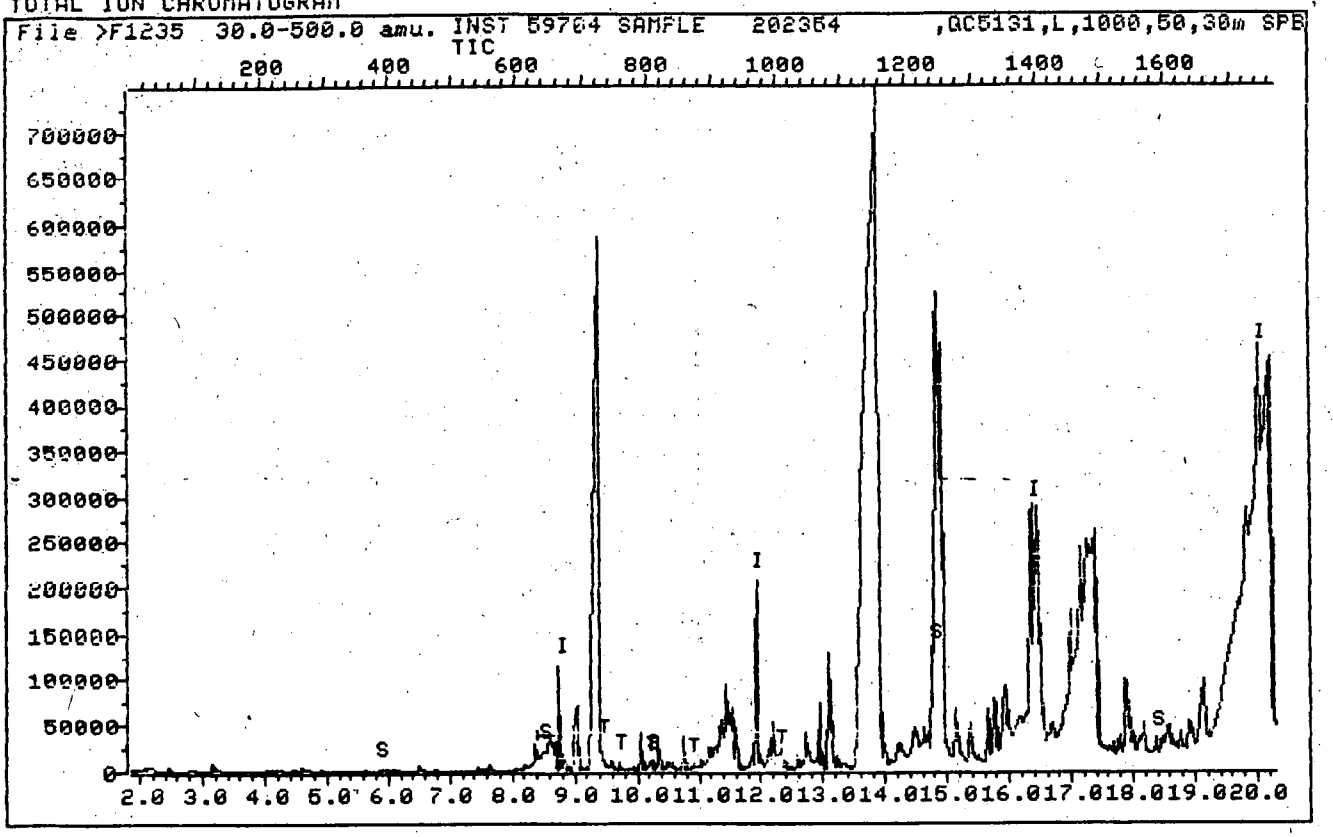
ID File: ID625F::EX
Title: CLP BNA IDFILE
Last Calibration: 941214 13:22 Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	8.74	152.0	31745	40.00	UG/ML	97
3)	2-Fluorophenol	5.85	112.0	2576	2.58	UG/ML	98
4)	Phenol-d6	8.48	99.0	3068	1.79	UG/ML	82
5)	~~Phenol~~	8.52	94.0	1524	.841	UG/ML	98
11)	~~Benzyl alcohol~~	9.41	108.0	3197	3.18	UG/ML	69
14)	~~bis(2-Chloroisopropyl)ether~~	9.70	45.0	2028	.717	UG/ML	80
15)	4-Methylphenol NT	10.18	108.0	2370	1.62	UG/ML	86
18)	*Naphthalene-d8	11.91	136.0	155177	40.00	UG/ML	91
19)	Nitrobenzene-d5	10.20	82.0	3609	1.97	UG/ML	90
20)	Ni~~trobenzene~~ NT	10.18	77.0	1279	.626	UG/ML	86
21)	I~~sophorone~~ 19/12/94	10.87	82.0	1153	.285	UG/ML	100
24)	Benzoic acid NT	12.28	122.0	3009	6.30	UG/ML	81
33)	*Acenaphthene-d10	16.35	164.0	104582	40.00	UG/ML	89
38)	2-Fluorobiphenyl	14.76	172.0	8575	2.93	UG/ML	88
53)	2,4,6-Tribromophenol	18.35	330.0	2856	4.55	UG/ML	94
54)	*Phenanthrene-d10	20.02	188.0	150356	40.00	UG/ML	99
66)	*Chrysene-d12	26.68	240.0	172865	40.00	UG/ML	94
68)	Terphenyl-d14	24.15	244.0	8145	2.01	UG/ML	92
73)	~~bis(2-Ethylhexyl)phthalate~~	27.22	149.0	11012	1.97	UG/ML	94
74)	*Perylene-d12	30.23	264.0	111239	40.00	UG/ML	95

* Compound is ISTD

NT=NOT TARGETED

TOTAL ION CHROMATOGRAM



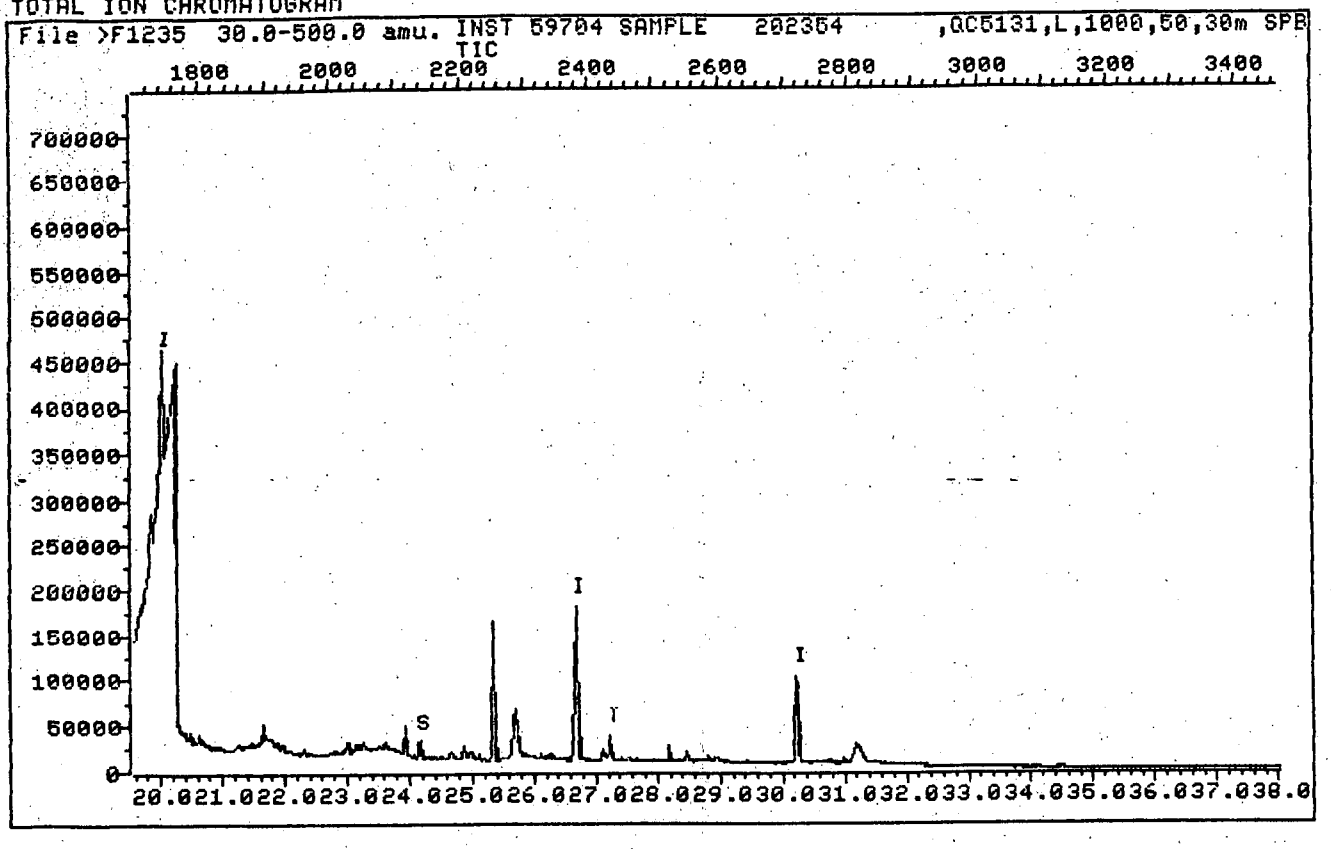
Data File: >F1235::F1 Quant Output File: ^F1235::QT
Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 202354 ,QC5131,L,1000,50,30m SPB-5 CAP COLUMN BTL# 8

Id File: ID625F::EX
Title: CLP BNA IDFILE
Last Calibration: 941214 13:22 Last Qcal Time: <none>

Operator ID: GT0101
Quant Time : 941214 15:31
Injected at: 941214 14:52

Page 1 of 2

TOTAL ION CHROMATOGRAM



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Name: INST 59704 SAMPLE Instrument ID: INST F
Misc: 202354 ,QC5131,L,1000,50,30m SPB-5 CAP COLUMN BTL# 8

Id File: ID625F::EX
Title: CLP BNA IDFILE
Last Calibration: 941214 13:22 Last Qcal Time: <none>

Operator ID: GT0101
Quant Time : 941214 15:31
Injected at: 941214 14:52

Page 2 of 2

Randolph, NJ 07869
201-584-0330
DECEMBER 23, 1994

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 202354
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 MONTHLY
Sample ID: 001 COMPOSITE
Sample date: 12/08/94
Sampled by: Customer
At lab date: 12/08/94
Matrix: WATER

Percent Moisture: 100%

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Lead	U	U	0.008	12/15/94
Zinc	0.077	U	0.020	12/15/94

U = Not Detected

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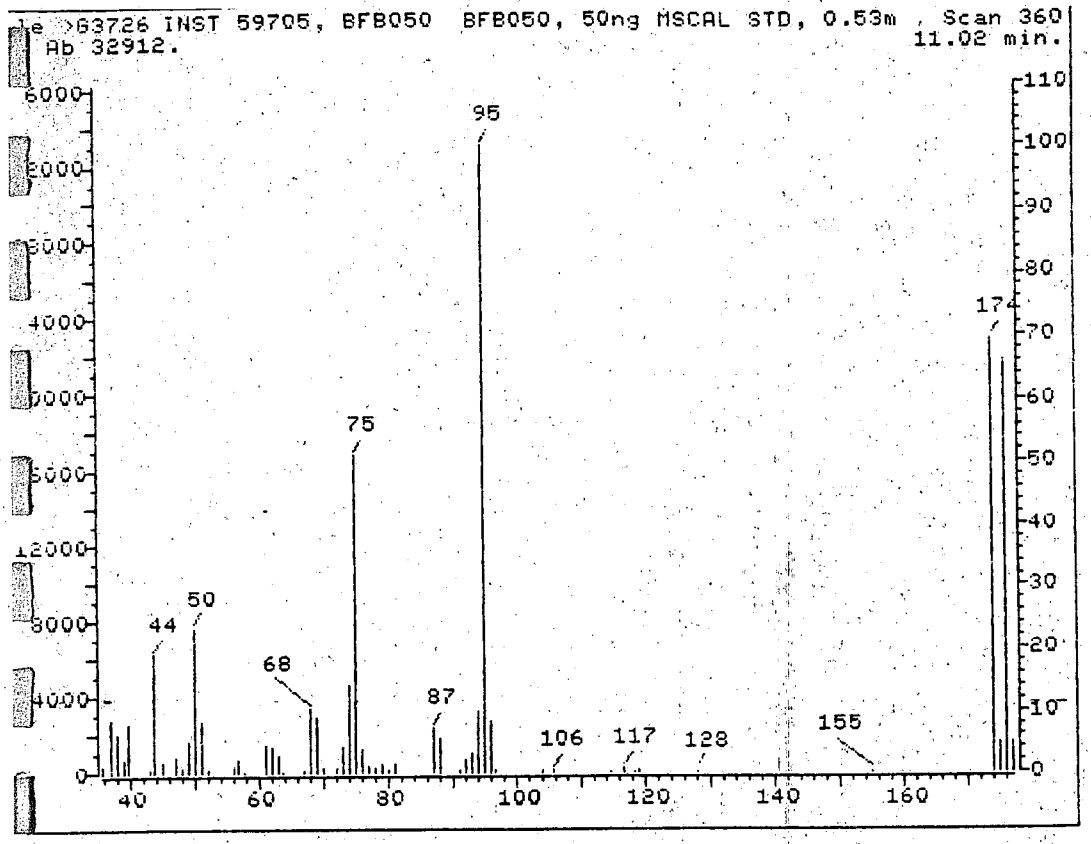
GEE



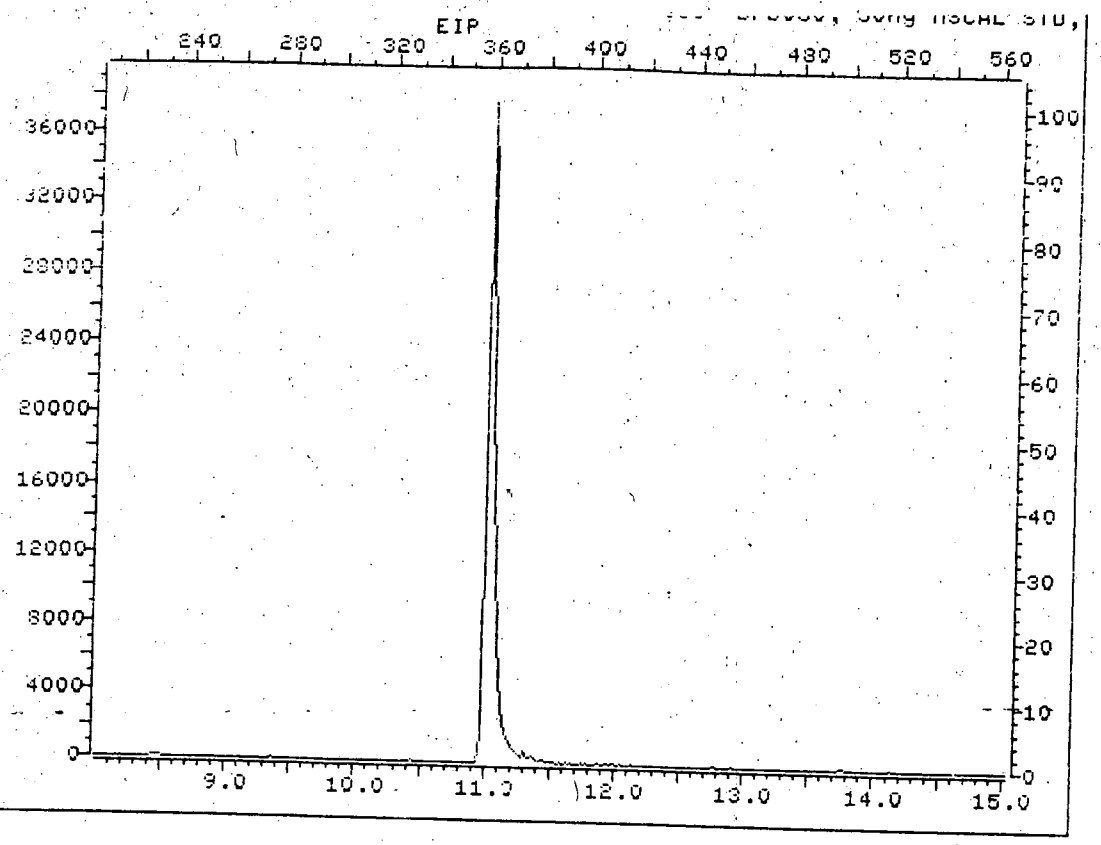
GC/MS PERFORMANCE STANDARD
Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	23.12	23.12	Ok
75	30-60% of mass 95	51.00	51.00	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	8.07	8.07	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	69.20	69.20	Ok
175	5-9% of mass 174	4.91	7.09	Ok
176	95-101% of mass 174	66.04	95.43	Ok
177	5-9% of mass 176	4.76	7.20	Ok

Injection Date: 12/18/94 Data File: >G3726
Injection Time: 17:17 Scan: 360

Analyst's Signature: Suzanne M Lall

Sample Numbers : 202353


EIP
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440
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520
560
36000
32000
28000
24000
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16000
12000
8000
4000
0
100
90
80
70
60
50
40
30
20
10
0
9.0
10.0
11.0
12.0
13.0
14.0
15.0

3726 INST 59705, BFB050 BFB050, 50ng MSCAL STD, 0.53mm X 75M CAP

360 NRM

le: >G3726 Scan #: 360 Retn. time: 11.02

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
5.90	.942	51.00	8.201	69.95	.732	80.90	1.343	105.75	.322
7.00	8.526	51.95	.413	70.15	.671	87.00	7.152	114.80	.131
8.00	6.019	55.95	1.063	72.00	.747	87.90	5.524	116.80	.626
9.00	2.154	56.85	2.166	73.00	4.278	90.90	.301	118.20	.152
9.90	7.721	57.85	.191	74.00	14.071	91.95	2.017	119.00	.422
5.10	.477	60.95	4.597	75.00	50.997	92.95	3.105	127.90	.219
3.90	18.920	61.95	4.202	76.00	3.941	93.95	9.860	154.90	.234
5.00	1.674	62.95	2.774	76.90	.936	94.95	100.000	173.95	69.203
7.00	2.595	63.75	.240	78.00	.833	95.95	8.070	174.85	4.907
8.00	.684	66.95	.368	78.90	1.550	96.85	.453	175.95	66.043
9.00	5.275	68.05	10.118	79.90	.462	104.15	-.316	176.95	4.755
0.00	23.116	68.95	8.872						

QUANT REPORT

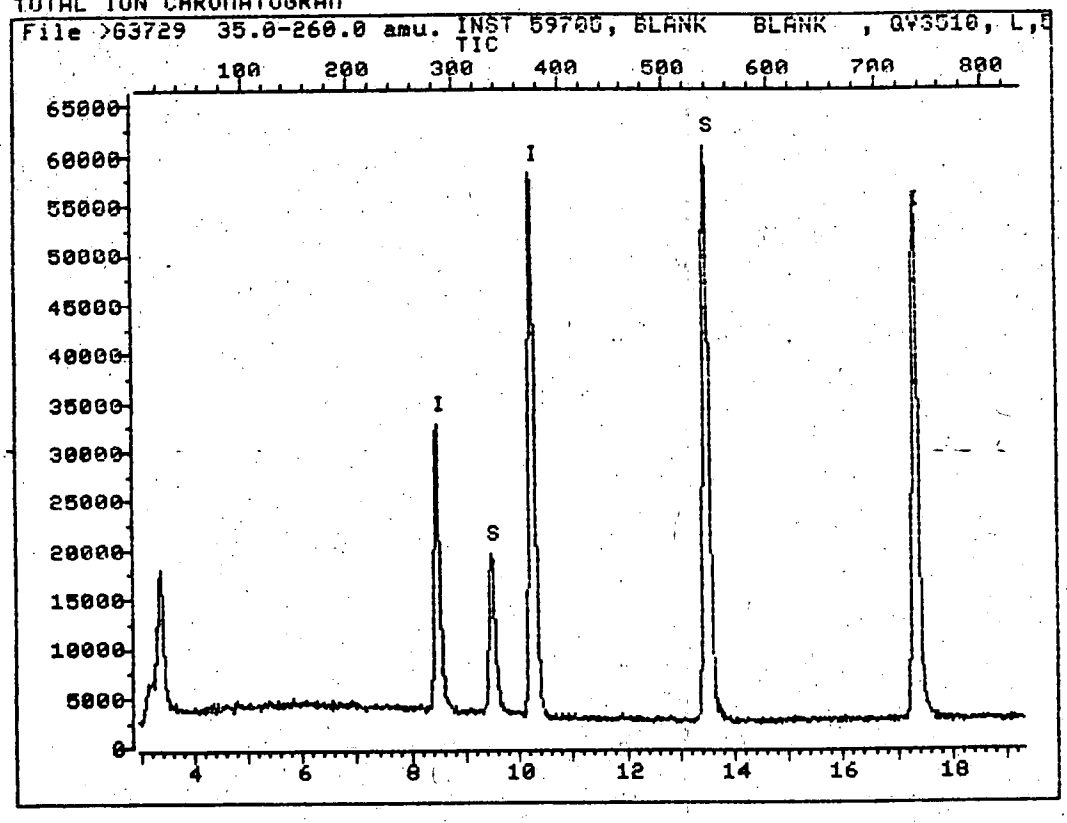
Operator ID: KS9934 Quant Rev: 7 Quant Time: 941218 20:[illegible]
Output File: ^G3729::QT Injected at: 941218 19:54
Data File: >G3729::G1 Dilution Factor: 1.000[illegible]
Name: INST 59705, BLANK Instrument ID: INST 2G
Misc: BLANK , QV3510, L,5,5, 0.53mm X 75M CAP COLUMN

ID File: CPG624::SC
Title: GENERAL IDFILE FOR INSTRUMENT [illegible]
Last Calibration: 941217 15:54 Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	I
1)	*Bromochloromethane	8.47	128.0	30169	30.00	UG/L	9[illegible]
15)	1,2-Dichloroethane-d4	9.47	65.0	41743	31.96	UG/L	88
18)	*1,4-Difluorobenzene	10.25	114.0	174117	30.00	UG/L	9[illegible]
32)	*Chlorobenzene-d5	17.32	117.0	139789	30.00	UG/L	90
37)	Toluene-d8	13.50	98.0	179570	31.07	UG/L	9[illegible]
44)	Bromofluorobenzene	20.92	95.0	100348	28.38	UG/L	83

* Compound is ISTD

TOTAL ION CHROMATOGRAM



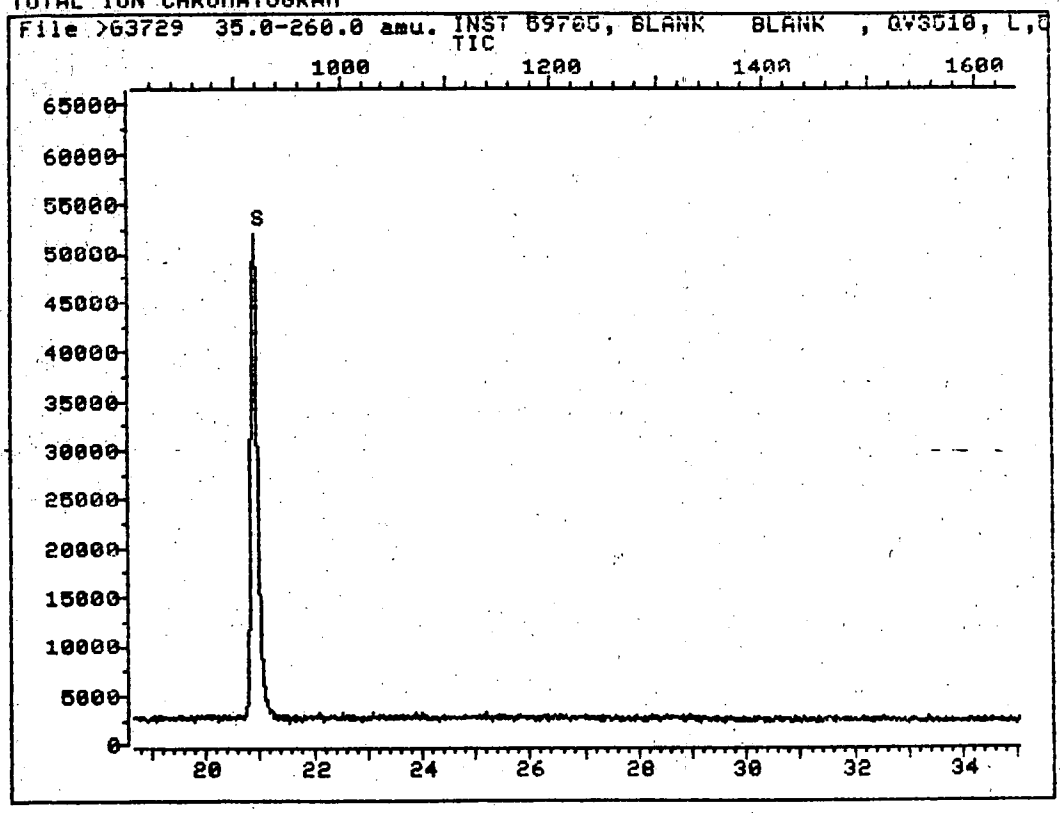
Data File: >G3729::G1 Quant Output File: ^G3729::QT
Name: INST 59705, BLANK Instrument ID: INST 2G
Misc: BLANK , QV3510, L,5,5, 0.53mm X 75M CAP COLUMN

Id File: CPG624::SC
Title: GENERAL IDFILE FOR INSTRUMENT G
Last Calibration: 941217 15:54 Last Qcal Time: <none>

Operator ID: KS9934
Quant Time : 941218 20:3[illegible]
Injected at: 941218 19:54

Page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >G3729::G1 Quant Output File: ^G3729::QT
Name: INST 59705, BLANK Instrument ID: INST 2G
Misc: BLANK , QV3510, L,5,5, 0.53mm X 75M CAP COLUMN

Id File: CPG624::SC
Title: GENERAL IDFILE FOR INSTRUMENT G
Last Calibration: 941217 15:54 Last Qcal Time: <none>

Operator ID: KS9934
Quant Time : 941218 20:3[illegible]
Injected at: 941218 19:54

Page 2 of 2

Title: GENERAL IDFILE FOR INSTRUMENT G
Calibrated: 941217 15:51

QV3510
202353

Compound	Files: >G3704 RF 5.00	>G3706 RF 20.00	>G3707 RF 50.00	>G3708 RF 100.00	>G3709 RF 200.00	$\overline{RRT}$	$\overline{RF}$	% RSD	
hloromethane	1.10387	1.63059	1.48344	1.48892	1.39779	.455	1.42092	13.789	
romomethane	1.30005	.85169	.76323	.69993	.54799	.521	.83258	34.093	
inyl Chloride	1.91668	1.64397	1.48701	1.45274	1.35912	.463	1.57190	13.892	
hloroethane	1.05619	.71437	.71415	.68210	.43872	.537	.72111	30.512	
ethylene Chloride	1.64119	1.41100	1.15393	1.07768	.99600	.730	1.25596	21.149	
cetone	.24884	.16107	.14549	.13144	.11370	.664	.16011	32.846	
arbon Disulfide	4.57425	4.02817	3.77302	3.67019	3.41773	.690	3.89267	11.288	
richlorofluoromethane	2.23696	2.09704	1.90046	1.81282	1.70066	.575	1.94959	11.103	
,1-Dichloroethene	1.64216	1.46829	1.28810	1.16225	1.05210	.653	1.32258	17.869	
1,1-Dichloroethane	3.70220	3.11877	2.64542	2.44520	2.15870	.847	2.81406	21.584	
rans-1,2-Dichloroethene	1.86402	1.46532	1.31791	1.19829	1.06763	.775	1.38264	22.174	
hloroform	3.32734	2.88212	2.69814	2.53544	2.41535	1.016	2.77168	12.872	
1,2-Dichloroethane-d4	1.25981	1.29499	1.34772	1.35999	1.23046	1.120	1.29859	4.278	(Conc=30.0,30.0,30.0,30.0,30.0)
,2-Dichloroethane	1.58838	1.40088	1.26973	1.20117	1.11578	1.137	1.31519	14.061	
-Butanone	.51902	.54813	.34809	.35379	.33334	.957	.42048	24.740	
,1,1-Trichloroethane	.53475	.44448	.40185	.38521	.35986	.867	.42523	16.117	
arbon Tetrachloride	.46432	.37636	.33692	.32536	.30839	.894	.36227	17.195	
romodichloromethane	.54004	.48268	.45062	.42177	.40302	1.159	.45963	11.775	
,2-Dichloropropane	.68586	.54361	.46759	.42596	.37671	.698	.49995	24.123	
cis-1,3-Dichloropropene	.51678	.45333	.42459	.40717	.37266	1.257	.43491	12.485	
richloroethene	.45561	.37752	.35493	.33099	.29649	1.052	.36311	16.467	
ibromochloromethane	.36968	.30753	.31247	.29553	.27160	1.538	.31136	11.634	
,1,2-Trichloroethane	.27326	.22126	.19945	.19509	.17706	1.438	.21323	17.383	
enzene	1.10881	.90091	.78040	.72065	.65683	.931	.83352	21.386	
rans-1,3-Dichloropropene	.21087	.29608	.30495	.29058	.27149	1.392	.27479	13.748	
2-Chloroethylvinylether	.05594	.03256	.02677	.03100	.03149	1.225	.03555	32.649	
Bromoform	.22309	.19785	.20637	.20913	.20175	1.940	.20764	4.651	
-Methyl-2-Pentanone	.25107	.22849	.20633	.21253	.20191	.766	.22007	9.108	
-Hexanone	.14508	.12998	.12191	.13216	.13350	.891	.13252	6.290	
etrachloroethene	.57121	.44191	.40085	.36705	.34050	.867	.42430	21.323	
,1,2,2-Tetrachloroethane	.47475	.38901	.39986	.39768	.37407	1.241	.40707	9.622	
oluene-d8	1.24044	1.24408	1.23966	1.22450	1.25370	.779	1.24048	.849	(Conc=30.0,30.0,30.0,30.0,30.0)
oluene	.88656	.75010	.66312	.62686	.58165	.788	.70166	17.164	
hlorobenzene	.95965	.82053	.79453	.76877	.71753	1.005	.81220	11.178	
thylbenzene	.54404	.44794	.41456	.38954	.35612	1.025	.43044	16.697	
tyrene	1.10368	.86519	.79742	.73223	.66451	1.117	.83260	20.286	
p&m Xylene	.64479	.56067	.48520	.43577	.38760	1.045	.50280	20.279	(Conc=10.0,40.0,100.0,200.0,400.0)
-Xylene	.69333	.55736	.50926	.46722	.41985	1.113	.52940	19.795	
romofluorobenzene	.69790	.68443	.80519	.77654	.83004	1.207	.75882	8.536	(Conc=30.0,30.0,30.0,30.0,30.0)

F - Response Factor (Subscript is amount in UG/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{F}$ - Average Response Factor

RSD - Percent Relative Standard Deviation

Title: GENERAL IDFILE FOR INSTRUMENT G
Calibrated: 941217 15:51

Compound	Files: >G3704 RF 5.00	>G3706 RF 20.00	>G3707 RF 50.00	>G3708 RF 100.00	>G3709 RF 200.00	$\overline{RRT}$	$\overline{RF}$	% RSD
1,3-Dichlorobenzene	.98448	.75209	.80140	.76670	.68554	1.409	.79804	14.083
1,2-Dichlorobenzene	.83918	.60296	.66938	.61970	.58918	1.497	.66408	15.431
1,4-Dichlorobenzene	.94384	.74489	.76090	.68299	.68200	1.427	.76292	14.056

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{F}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

Calibration Check Report

CQV3510

202353

Title: GENERAL IDFILE FOR INSTRUMENT G
Calibrated: 941217 15:51

Check Standard Data File: >G3727
Injection Time: 941218 18:03

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
Chloromethane	1.42092	1.63284	14.91	Average	
Bromomethane	.83258	.46340	44.34	Average	
Vinyl Chloride	1.57190	1.68429	7.15	Average	
Chloroethane	.72111	1.04295	44.63	Average	
Methylene Chloride	1.25596	1.26559	.77	Average	
Acetone	.16011	.15603	2.55	Average	
Carbon Disulfide	3.89267	4.14050	6.37	Average	
Trichlorofluoromethane	1.94959	2.09491	7.45	Average	
1,1-Dichloroethene	1.32258	1.40631	6.33	Average	
1,1-Dichloroethane	2.81406	3.06033	8.75	Average	
trans-1,2-Dichloroethene	1.38264	1.59550	15.40	Average	
Chloroform	2.77168	2.84103	2.50	Average	
1,2-Dichloroethane-d4	1.29859	1.22142	5.94	Average	(Conc=30.00)
1,2-Dichloroethane	1.31519	1.32725	.92	Average	
2-Butanone	.42048	.39495	6.07	Average	
1,1,1-Trichloroethane	.42523	.45558	7.14	Average	
Carbon Tetrachloride	.36227	.39191	8.18	Average	
Bromodichloromethane	.45963	.48219	4.91	Average	
1,2-Dichloropropane	.49995	.54759	9.53	Average	
cis-1,3-Dichloropropene	.43491	.44947	3.35	Average	
Trichloroethene	.36311	.38497	6.02	Average	
Dibromochloromethane	.31136	.30937	.64	Average	
1,1,2-Trichloroethane	.21323	.21142	.85	Average	
Benzene	.83352	.89694	7.61	Average	
trans-1,3-Dichloropropene	.27479	.29948	8.98	Average	
2-Chloroethylvinylether	.03555	.02939	17.33	Average	
Bromoform	.20764	.19244	7.32	Average	
4-Methyl-2-Pentanone	.22007	.19768	10.17	Average	
2-Hexanone	.13252	.10895	17.79	Average	
Tetrachloroethene	.42430	.44591	5.09	Average	
1,1,2,2-Tetrachloroethane	.40707	.37558	7.74	Average	
Toluene-d8	1.24048	1.24790	.60	Average	(Conc=30.00)
Toluene	.70166	.72259	2.98	Average	
Chlorobenzene	.81220	.81956	.91	Average	
Ethylbenzene	.43044	.44729	3.92	Average	
Styrene	.83260	.87334	4.89	Average	
p&m Xylene	.50280	.55062	9.51	Average	(Conc=40.00)
o-Xylene	.52940	.57380	8.39	Average	
Bromofluorobenzene	.75882	.70403	7.22	Average	(Conc=30.00)
1,3-Dichlorobenzene	.79804	.85607	7.27	Average	

RF - Response Factor from daily standard file at 20.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

Calibration Check Report

Title: GENERAL IDFILE FOR INSTRUMENT G
Calibrated: 941217 15:51

Check Standard Data File: >G3727
Injection Time: 941218 18:03

Compound	$\overline{RF}$	RF	%Diff	Calib Meth
1,2-Dichlorobenzene	.66408	.65688	1.08	Average
1,4-Dichlorobenzene	.76292	.80812	5.92	Average

RF - Response Factor from daily standard file at 20.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
201-584-0330
DECEMBER 21, 1994

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

SURROGATE RECOVERY SUMMARY
Aqueous Volatile

Batch number: QV3510

Sample Number	Data\File	% Recovery 1,2 DCE-d4	% Recovery Tol-d8	% Recovery BFB	# Outside QC Limits
BLANK	>G3711	112	105	105	0
202295 S	>G3721	106	98	94	0
BLANK S	>G3722	109	106	96	0
BLANK	>G3729	107	104	95	0
202353	>G3738	111	102	97	0

	Compound	Percent Recovery	Concentration Added
QC Limits:	1,2-Dichloroethane-d4	82-113	30ppb
	Toluene-d8	88-114	30ppb
	Bromofluorobenzene	88-117	30ppb

* Values outside QC Limits.

S= Spike sample
SD= Spike duplicate sample
DL= Dilution
RE= Indicates a reanalysis of the sample confirming matrix interference.
NA= Not Applicable

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MEG

INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
201-584-0330
DECEMBER 21, 1994

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

QUALITY ASSURANCE DATA
MATRIX SPIKE RECOVERY
Volatiles - Water

Spiked sample: 202295
QC Batch number: QV3510

For samples: 202353

ompound	Spike % Recovery	QC Limits	Concentration Added (ug/L)	Matrix Spike Concentration (ug/L)
hloromethane	104	0-273	20	20.72
romomethane	118	0-242	20	23.55
inyl Chloride	95	0-251	20	18.93
Chloroethane	124	14-230	20	24.84
ethylene Chloride	107	0-221	20	21.38
cetone	103	ND-ND	20	20.69
arbon Disulfide	103	ND-ND	20	20.51
richlorofluoromethane	110	17-181	20	22.01
1,1-Dichloroethene	106	0-234	20	21.29
,1-Dichloroethane	112	59-155	20	22.31
,2-Dichloroethene (trans)	108	54-156	20	21.62
hloroform	110	51-138	20	21.92
1,2-Dichloroethane	112	49-155	20	22.32
,1,1-Trichloroethane	115	52-162	20	22.96
arbon Tetrachloride	111	70-140	20	22.13
romodichloromethane	115	35-155	20	23.08
,2-Dichloropropane	114	0-210	20	22.88
cis-1,3-Dichloropropene	108	0-227	20	21.54
richloroethene	112	71-157	20	22.39
ibromochloromethane	110	53-149	20	21.90
,1,2-Trichloroethane	112	52-150	20	22.36
Benzene	120	37-151	20	23.96
rans-1,3-Dichloropropene	116	17-183	20	23.29
-Chloroethylvinylether ***	76	0-305	20	15.26
romoform	102	45-169	20	20.47
-Methyl-2-Pentanone	98	ND-ND	20	19.62
2-Hexanone	97	ND-ND	20	19.36
etrachloroethene	102	64-148	20	20.35
,1,2,2-Tetrachloroethane	107	46-157	20	21.33
oluene	108	47-150	20	21.68
Chlorobenzene	97	37-160	20	20.90
thylbenzene	113	37-162	20	22.50
tyrene	108	ND-ND	20	21.51
ylene (total)	108	ND-ND	60	69.50
,3-Dichlorobenzene	107	59-156	20	21.44
1,2-Dichlorobenzene	108	18-190	20	21.69
,4-Dichlorobenzene	104	18-190	20	20.71
crolein	100	ND-ND	100	99.97
crylonitrile	102	ND-ND	100	102.10
Dichlorodifluoromethane	15	ND-ND	40	5.98
thylene Dibromide	119	ND-ND	50	59.62
,4-Dioxane ***	94	ND-ND	1000	942.99
is-1,2-Dichloroethene ***	106	ND-ND	20	21.14

** Spike recovery does not meet quality control limits due to a high concentration of this parameter in the spiked sample.
** Recovery is determined from Blank Spike.

ND = Not Determined.

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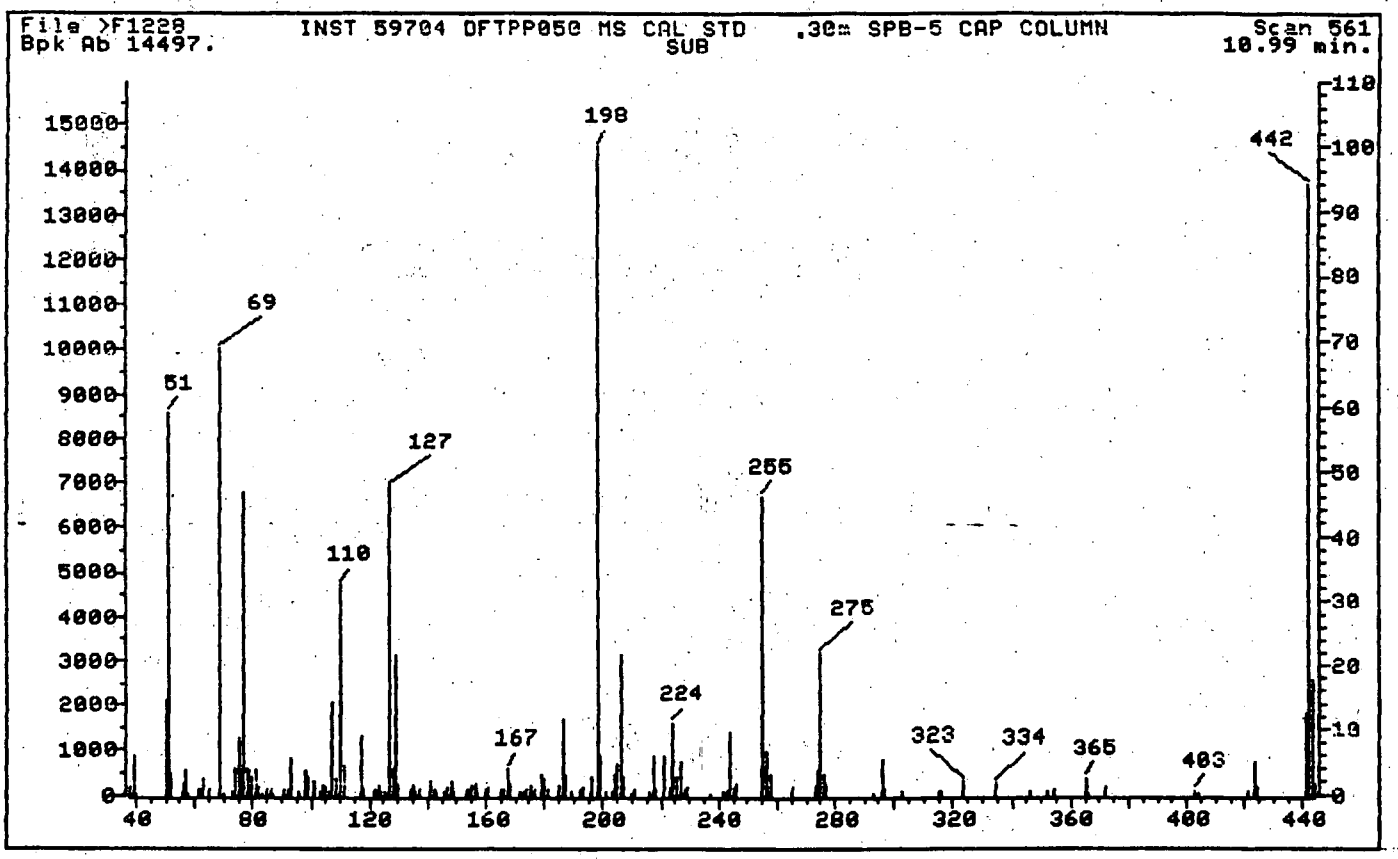
MEG

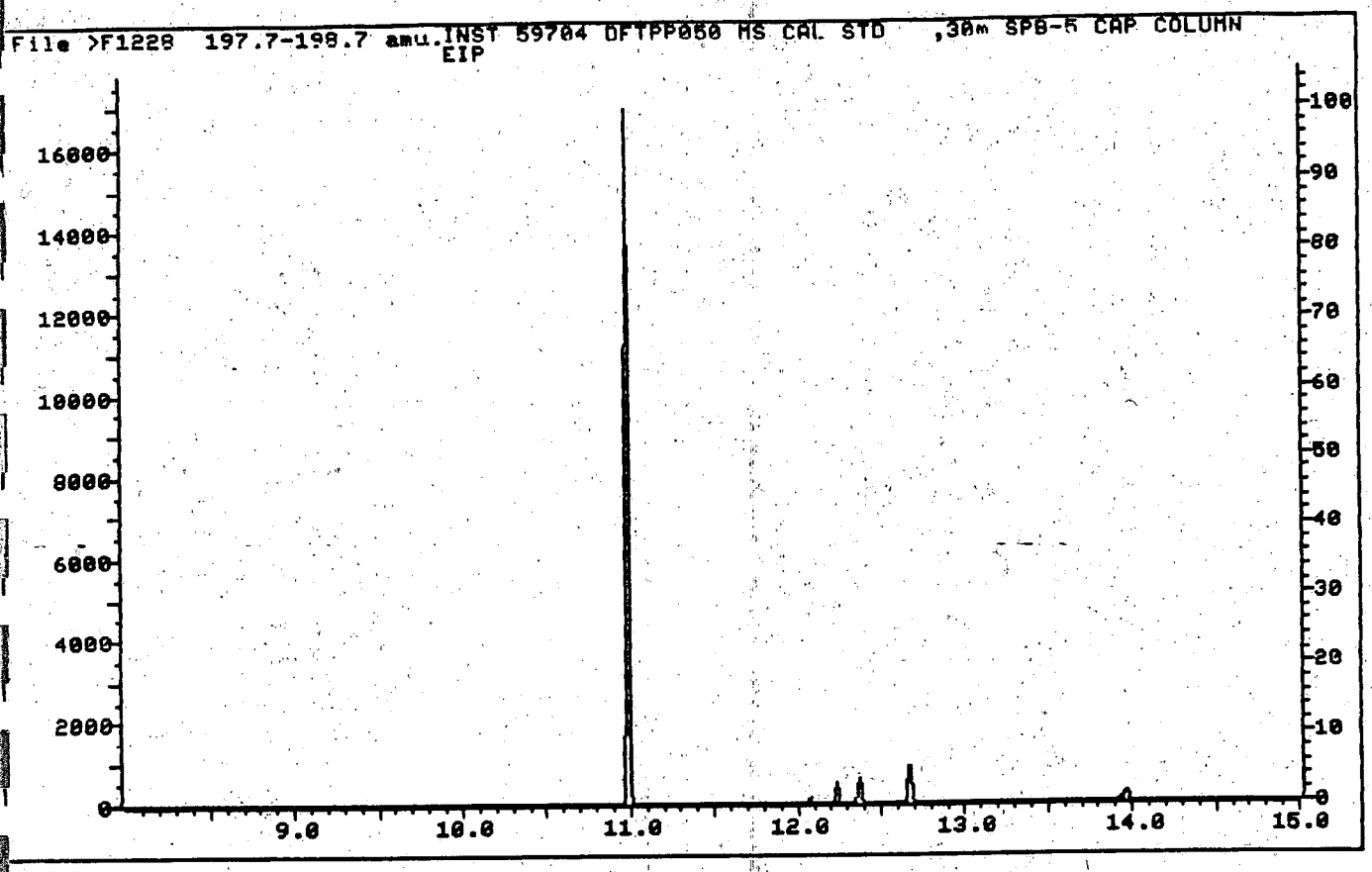


GC/MS PERFORMANCE STANDARD
Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	59.19	59.19	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	69.03	69.03	Ok
70	Less than 2% of mass 69	.34	.49	Ok
127	40-60% of mass 198	47.64	47.64	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.07	6.07	Ok
275	10-30% of mass 198	21.94	21.94	Ok
365	Greater than 1% of mass 198	2.64	2.64	Ok
441	0-100% of mass 443	12.67	71.15	Ok
442	Greater than 40% of mass 198	94.05	94.05	Ok
443	17-23% of mass 442	17.81	18.94	Ok

Injection Date: 12/14/94 Data File: >F1228 Analysts
Injection Time: 09:34 Scan: 561 Signature: Gregory Tomkowich

Associated
Sample Numbers: 202354


File >F1228 197.7-198.7 amu.INST 59704 DFTPP050 MS CAL STD ,30m SPB-5 CAP COLUMN
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14000
12000
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6000
4000
2000
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90
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70
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9.0
10.0
11.0
12.0
13.0
14.0
15.0

1304125

GIVAUDAN-ROURE

Specialties

Natural and Synthetic Ingredients

Express Mail FB453495669US
Return Receipt Requested

December 20, 1994

Mr. Robert J. Davenport
Executive Director
Passaic Valley Sewage Commissioners
600 Wilson Avenue
Newark, NJ 07105

RE: Local Limits - Baseline Monitoring Report for Metals
Givaudan-Roure Corporation, Clifton, NJ

Dear Mr. Davenport,

Reference is made to Section 313.3 (Metals) of the PVSC Rules and Regulations which applies General Pretreatment Regulation (40 CFR 403.12) to those users that must meet local limitations. The following reports, documents and flow diagrams included in this submittal present the information required by the Passaic Valley Sewerage Commissioners (PVSC's) guidelines. The guide-lines were provided to assist industry in completing the filing requirements for the Local Limits Baseline Report.

Enclosed herein are the following:

- Attachment A, Items 1 - 4 of the BMR Requirements
- Attachment B, Item 5 of the BMR Requirements
  - Identification of all parameters
  - NJDEP certified laboratory results
- Attachment C, Items 6 and 7 of the BMR Requirements, Compliance Statement & Certification Statement
- Flow Diagrams, Item 8 of the BMR Requirements
  - Outfall 001
  - Outfall 002
  - Outfall 003
- Clifton Facilities Plant Map

GIVAUDAN-ROURE CORPORATION

Delawanna Avenue, Clifton, New Jersey 07015-5034 • Tel: (201) 365-8000 • Fax (201) 777-9304

GIVAUDAN-ROURE

If additional information is required, please contact me at 201-365-8595 or Mr. Frank Slaby at 201-365-8523.

Sincerely,

GIVAUDAN-ROURE CORPORATION

Harold G. Thompson

Harold G. Thompson
Sr. Vice- President Operations

HGT:cj
Attachments

H:\Slaby\Davenpor.cfr

ATTACHMENT A

Ref: 40 CFR 403.12(b)(1)-(b)(4)
Appendix B Pretreatment Limitation #1, Local Limits
Section - B-102.2

(1) Name and Address of Facility

Givaudan-Roure Corporation
125 Delawanna Avenue
Clifton, New Jersey 07015-5034

(2) Environmental Permits

- NJPDES - SIU Permit No. NJ 0099414 was terminated on February 1, 1993. The permittee is now deemed to possess a NJPDES/SIU Permit-by-Rule.
- NJPDES/DGW I NJ0088374 (Ground Water)
- PVSC Sewer Connection Permit No. 034 01023

(3) Brief Description of Operations/SIC Numbers

Givaudan-Roure Corporation is a manufacturer of Specialty Chemicals, Flavors and Fragrances.

Most of the production work is campaigned and carried out in batch operations. The types of processes in the manufacturing areas include blending, chemical reactions, distillations, purifications, crystallizations and hydrogenations.

The average rate of production is 10,000 tons/year (gross).

Outfall #1 Specialty Chemical Manufacturing Operations SIC #2869,2879,2899

Outfall #2 Fragrance Compounding, SIC #2844

Outfall #3 Sanitary Wastewater, previously Flavor Operations SIC #2087

Outfall #4 Sanitary Wastewater

Flow Diagrams - Outfall #1, #2 and #3 (attached)

Clifton Facilities Map - Wastewater Outfalls (attached)

(4) Wastewater Flow

Outfall No.:	Average Daily Flow* gpd	Maximum Daily Flow* gpd
Outfall 001	330,700	460,000
Outfall 002	2,400	7,600
Outfall 003	92,800	149,200

* Sept. - Nov. 1994 period

Flow-GPD

Sample Date	Outfall 001	Outfall 002	Outfall 003
11/22/94	--	260	95,720
11/23/94	382,000	1,410	52,920
11/28/94	324,000	2,070	58,760
11/30/94	310,000	--	--

The daily average and maximum wastewater flows were determined by meters located at Outfalls 001 and 003. (Remote reading and recording of the flow is utilized at these locations.) The flow at Outfall 002 was determined by using metered water usage in Building #103. The meter/monitoring systems utilized at Outfalls 001 and 003 consist of the following:

	Outfall 001	Outfall 003
Flow Meter	9" Parshall Flume	6# Palmer Bowlus Flume
Flow Monitor	Kay-Ray Model DFM 300 Digital Flow Monitor	Manning Techn.Inc., UT "X" 2100A

Copies of the procedure for the calibration of the flow meters are attached. Calibration is done on a monthly basis by the Givaudan-Roure Instrument Department.

h:\slaby\davenpor.cfr

RECEIVED INDUSTRIAL DEPARTMENT

Local Limit Baseline Monitoring Report Requirements

ATTACHMENT B

The following table is included to assist you in preparing this report.

Company Name GIVAUDAN-ROURE CORPORATION

Outlet Number 03401021-04626-0451

Average Daily flow 267, 433 gpd

Type of Sample: Composite

Parameter*	Date of Sample	Sample Results	Average Result	Threshold Value	Local Limit
			Monthly Average Limits (mg/l)		
Arsenic (As)	11/23/94	<0.004			
	11/29/94	<0.004			
	11/30/94	<0.004		0.15	0.15
Cadmium (Cd)	11/23/94	<0.005			
	11/29/94	<0.005			
	11/30/94	<0.005		0.005	.19
Chromium (Cr)	11/23/94	0.044			
	11/29/94	0.020			
	11/30/94	0.036		0.006	5.36
Copper (Cu)	11/23/94	0.188			
	11/29/94	0.085			
	11/30/94	0.100		0.092	3.02
Lead (Pb)		N/A			
		N/A			
		N/A		0.029	0.54
Mercury (Hg)	11/23/94	0.001			
	11/29/94	<0.0005			
	11/30/94	<0.0005		0.001	0.080
Molybdenum (Mo)	11/23/94	0.023			
	11/29/94	0.017			
	11/30/94	0.020		Suspended	Suspended
Nickel (Ni)	11/23/94	0.039			
	11/29/94	0.042			
	11/30/94	0.049		.02	5.9
Zinc (Zn)		N/A			
		N/A			
		N/A		1.67	1.67

*Note: Metals that are regulated by a categorical limit which is more strict than the PVSC Local Limit need not be included.

N/A - Not applicable - Regulated under Federal Regulations

Local Limit Baseline Monitoring Report Requirements

ATTACHMENT B

The following table is included to assist you in preparing this report.

Company Name GIVAUDAN-ROURE CORPORATION

Outlet Number 03401022-04626-0451

Average Daily flow 1,686 gpd

Type of Sample: Composite

Parameter*	Date of Sample	Sample Results	Average Result	Threshold Value	Local Limit
			Monthly Average Limits (mg/l)		
Arsenic (As)	11/22/94	<0.004			
	11/23/94	<0.004			
	11/29/94	<0.004		0.15	0.15
Cadmium (Cd)	11/22/94	<0.005			
	11/23/94	<0.005			
	11/29/94	<0.005		0.005	.19
Chromium (Cr)	11/22/94	<0.006			
	11/23/94	<0.006			
	11/29/94	<0.006		0.006	5.36
Copper (Cu)	11/22/94	0.067			
	11/23/94	0.105			
	11/29/94	0.018		0.092	3.02
Lead (Pb)	11/22/94	0.260			
	11/23/94	0.071			
	11/29/94	0.464		0.029	0.54
Mercury (Hg)	11/22/94	<0.0005			
	11/23/94	<0.0005			
	11/29/94	<0.0005		0.001	0.080
Molybdenum (Mo)	11/22/94	<0.01			
	11/23/94	<0.01			
	11/29/94	<0.01		Suspended	Suspended
Nickel (Ni)	11/22/94	<0.02			
	11/23/94	0.022			
	11/29/94	0.033		.02	5.9
Zinc (Zn)	11/22/94	0.077			
	11/23/94	0.176			
	11/29/94	0.348		1.67	1.67

*Note: Metals that are regulated by a categorical limit which is more strict than the PVSC Local Limit need not be included.

Local Limit Baseline Monitoring Report Requirements

ATTACHMENT B

The following table is included to assist you in preparing this report.

Company Name GIVAUDAN-ROURE CORPORATION

Outlet Number 03401023-04626-0451

Average Daily flow 76,386 gpd

Type of Sample: Composite

Parameter*	Date of Sample	Sample Results	Average Result	Threshold Value	Local Limit
			Monthly Average Limits (mg/l)		
Arsenic (As)	11/22/94	<0.004			
	11/23/94	<0.004			
	11/29/94	<0.004		0.15	0.15
Cadmium (Cd)	11/22/94	<0.005			
	11/23/94	<0.005			
	11/29/94	<0.005		0.005	.19
Chromium (Cr)	11/22/94	<0.006			
	11/23/94	<0.006			
	11/29/94	<0.006		0.006	5.36
Copper (Cu)	11/22/94	<0.025			
	11/23/94	0.029			
	11/29/94	<0.025		0.092	3.02
Lead (Pb)	11/22/94	<0.004			
	11/23/94	<0.004			
	11/29/94	<0.004		0.029	0.54
Mercury (Hg)	11/22/94	<0.0005			
	11/23/94	<0.0005			
	11/29/94	<0.0005		0.001	0.080
Molybdenum (Mo)	11/22/94	<0.01			
	11/23/94	<0.01			
	11/29/93	<0.01		Suspended	Suspended
Nickel (Ni)	11/22/94	<0.02			
	11/23/94	<0.02			
	11/30/94	<0.02		.02	5.9
Zinc (Zn)	11/22/94	<0.02			
	11/23/94	0.047			
	11/29/94	0.050		1.67	1.67

*Note: Metals that are regulated by a categorical limit which is more strict than the PVSC Local Limit need not be included.

ICM LABORATORIES (INDUSTRIAL CORROSION MANAGEMENT, INC.)
1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

RUSH
DECEMBER 7, 1994
15:19:22

CLIENT: GIVAUDAN-ROURE CORPORATION
SOURCE: BMR Submittal 001

TENTATIVE FAX PRELIMINARY RESULTS
These results are tentative, subject to change pending QA/QC review.

Client Sample Number	001	001	001
ICM Sample Number	201689	201690	201691
Sampling Date	11/23/94	11/29/94	11/30/94
Units	MG/L	MG/L	MG/L
INORGANIC PARAMETERS (METALS)			
Arsenic	0.004 U	0.004 U	0.004 U
Cadmium	0.005 U	0.005 U	0.005 U
Chromium	0.044	0.020	0.036
Copper	0.188	0.085	0.100
Lead	0.019	0.008	0.009
Mercury	0.001	0.0005 U	0.0005 U
Nickel	0.039	0.042	0.049
Zinc	0.122	0.237	0.114
Molybdenum	0.023	0.017	0.020

ICM LABORATORIES (INDUSTRIAL CORROSION MANAGEMENT, INC.)
1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

DECEMBER 7, 1994
15:19:41

CLIENT: GIVAUDAN-ROURE CORPORATION
SOURCE: BMR Submittal 002

TENTATIVE FAX PRELIMINARY RESULTS
These results are tentative, subject to change pending QA/QC review.

Client Sample Number	002	002	002
ICM Sample Number	201692	201693	201694
Sampling Date	11/22/94	11/23/94	11/29/94
Units	MG/L	MG/L	MG/L
INORGANIC PARAMETERS (METALS)			
Arsenic	0.004 U	0.004 U	0.004 U
Cadmium	0.005 U	0.005 U	0.005 U
Chromium	0.006 U	0.006 U	0.006 U
Copper	0.067	0.105	0.018
Lead	0.260	0.071	0.464
Mercury	0.0005 U	0.0005 U	0.0005 U
Nickel	0.02 U	0.022	0.033
Zinc	0.077	0.176	0.348
Molybdenum	0.01 U	0.01 U	0.01 U

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DEPARTMENT
1994

ICM LABORATORIES (INDUSTRIAL CORROSION MANAGEMENT, INC.)
1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

RUSH
DECEMBER 7, 1994
15:19:32

CLIENT: GIVAUDAN-ROURE CORPORATION
SOURCE: BMR Submittal 003

TENTATIVE FAX PRELIMINARY RESULTS
These results are tentative, subject to change pending QA/QC review.

Client Sample Number	003	003	003
ICM Sample Number	201695	201696	201697
Sampling Date	11/22/94	11/23/94	11/29/94
Units	MG/L	MG/L	MG/L
INORGANIC PARAMETERS (METALS)			
Arsenic	0.004 U	0.004 U	0.004 U
Cadmium	0.005 U	0.005 U	0.005 U
Chromium	0.006 U	0.006 U	0.006 U
Copper	0.025 U	0.029	0.025 U
Lead	0.004 U	0.004 U	0.004 U
Mercury	0.0005 U	0.0005 U	0.0005 U
Nickel	0.02 U	0.02 U	0.02 U
Zinc	0.02 U	0.047	0.050
Molybdenum	0.01 U	0.01 U	0.01 U

Metals Monitoring Data

SAMPLE POINT	001	001	001	001	001	002	002	002	003	003	003
DATE	10/5-10/6	11/2-11/3	11/22-11/23	11/28-11/29	11/29-11/30	11/21-11/22	11/22-11/23	11/28-11/29	11/21-11/22	11/22-11/23	11/28-11/29
FLOW (GPD)	453,000	324,000	382,000	324,000	310,000	260	1,410	2,070	95,720	52,920	58,760
ARSENIC (MG/L)	< 0.004	< 0.004	< 0.004	<0.004	<0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
(#/DAY)	< 0.01511	< 0.01081	< 0.01274	< 0.01081	< 0.01034	< 0.000009	< 0.00005	< 0.00007	< 0.00319	< 0.00177	< 0.00196
CADMIUM (MG/L)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
(#/DAY)	< 0.01889	< 0.01351	< 0.01593	< 0.01351	< 0.01293	< 0.00001	< 0.00006	< 0.00009	< 0.00399	< 0.00221	< 0.00245
CHROMIUM (MG/L)	0.021	0.024	0.044	0.02	0.036	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
(#/DAY)	0.07934	0.06485	0.14018	0.05404	0.09307	< 0.00001	< 0.00007	< 0.0001	< 0.00479	< 0.00265	< 0.00294
COPPER (MG/L)	0.998	0.091	0.188	0.085	0.1	0.067	0.105	0.018	< 0.025	0.029	< 0.025
(#/DAY)	3.7705	0.2459	0.59895	0.22968	0.25854	0.00014	0.00123	0.00031	< 0.01996	0.0128	< 0.01225
LEAD (MG/L)	< 0.004	< 0.020	0.019	0.008	0.009	0.26	0.071	0.464	< 0.004	< 0.004	< 0.004
(#/DAY)	< 0.01511	< 0.05404	0.06053	0.02162	0.02327	0.00056	0.00083	0.00801	< 0.00319	< 0.00177	< 0.00196
MERCURY (MG/L)	< 0.0005	< 0.0005	0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
(#/DAY)	< 0.00189	< 0.00135	0.00319	< 0.00135	<0.00129	< 0.000001	< 0.000006	< 0.000009	< 0.0004	< 0.00022	< 0.00025
NICKEL (MG/L)	< 0.025	< 0.025	0.039	0.042	0.049	< 0.02	0.022	0.033	< 0.02	< 0.02	< 0.02
(#/DAY)	< 0.09445	< 0.06755	0.12425	0.11349	0.12668	< 0.00004	0.00026	0.00057	< 0.01597	< 0.00883	< 0.0098
ZINC (MG/L)	0.058	0.067	0.122	0.237	0.114	0.077	0.176	0.348	< 0.02	0.047	0.05
(#/DAY)	0.21913	0.18104	0.38868	0.64041	0.29474	0.00017	0.00207	0.00601	< 0.01597	0.02074	0.0245
MOLYBDENUM (MG/L)	< 0.010	< 0.010	0.023	0.017	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
(#/DAY)	< 0.03778	< 0.02702	0.07328	0.04594	0.05171	< 0.00002	< 0.00012	< 0.00017	< 0.00798	< 0.00441	< 0.0049

ATTACHMENT C

Certification of Non-use if applicable (use additional sheets)

We neither use nor discharge for 001- any arsenic, cadmium, ~~lead, mercury and molybdenum; for 002- any arsenic, cadmium,~~ chromium, mercury, molybdenum and zinc for 003- all listed metals.

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

We use copper chromite, cuprous chloride, Raney nickel and zinc iodide as catalysts in limited manufacturing operations. We are meeting all the PVSC local limits on metals. The threshold value on the following metals were exceeded; chromium, copper and nickel for 001; copper, nickel and lead of 002; none for 003.

Explain Method for preserving samples

The laboratory preservation methods and holding times are performed in accordance with EPA/NJDEP approved procedures and methodologies

See attachment C-2 for specific preservation methodologies.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Harold G. Thompson

Signature of Principal Executive or Authorized Agent

Harold G. Thompson

Type Name and Title

Sr. Vice-President/Operations

Date

December 20, 1994

RECEIVED INDUSTRIAL DEPARTMENT

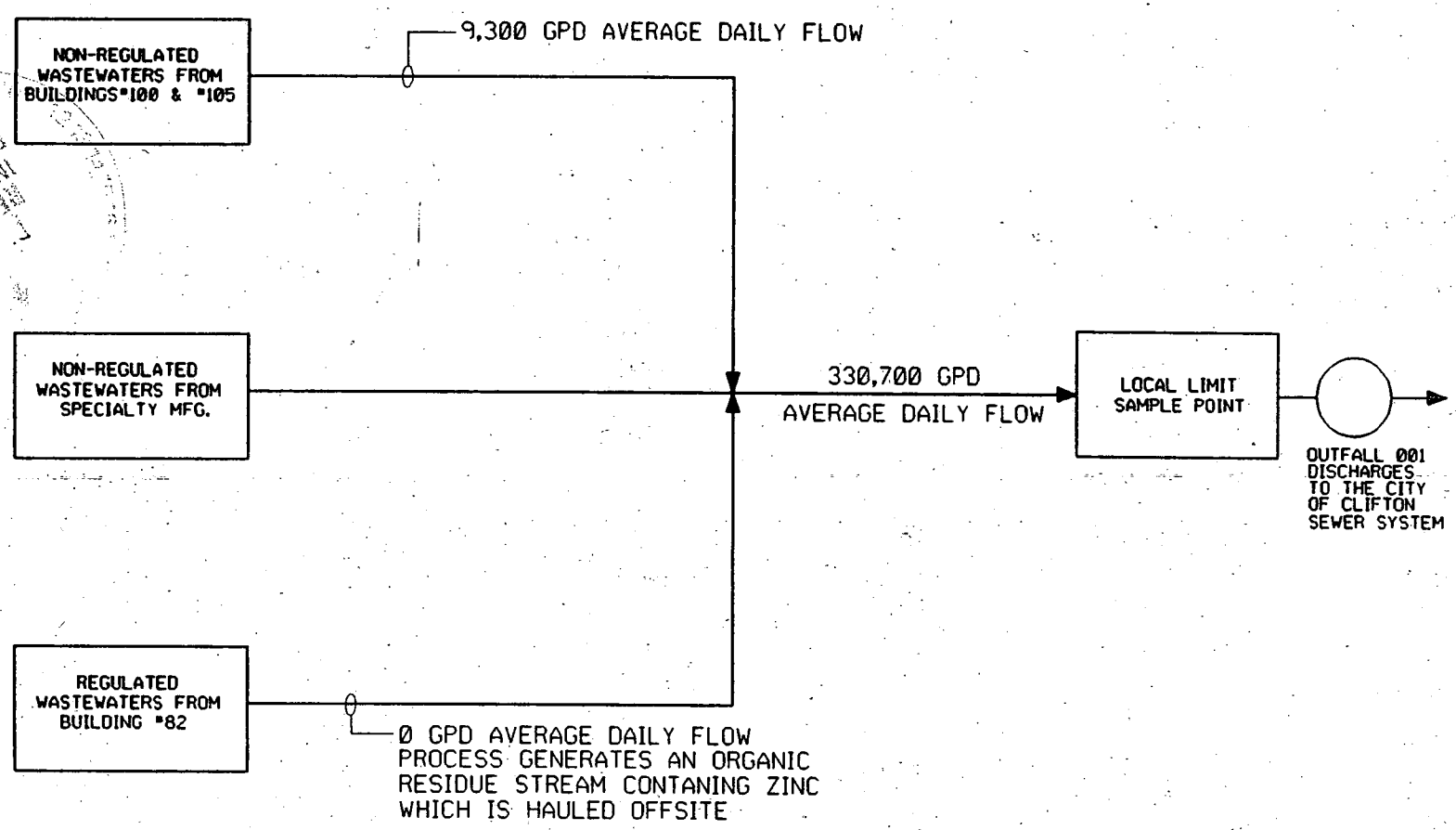
PVSC Form MR-1 Rev. 5 3/91 P2

ATTACHMENT C-1

PRESERVATION METHODOLOGIES

Total -Arsenic, -Cadmium, -Chromium, -Copper, -Lead, - Mercury -Molybdenum, -Nickel and -Zinc Samples:

Acidify sample with conc. HNO_3 to a pH of 2 or less.



OUTLET #1

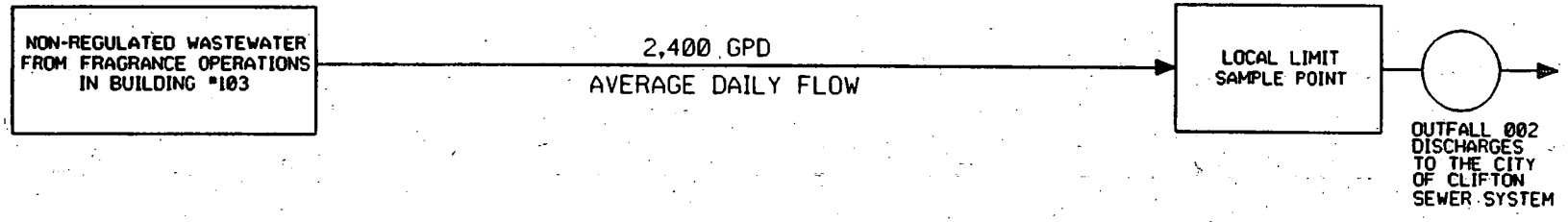
OUTLET 03401021 FOR USER CHARGE AND PRETREATMENT SAMPLE POINT/IS LOCATED BY SAMPLE SHED BUILDING #11 LOCATED IN SOUTHWEST CORNER OF PROPERTY (40 CFR 414)

NOTE: BMR REPORT SUBMITTED DECEMBER, 1994
RE: LOCAL LIMITS ON METALS

◯ = OUTFALL 001

GIVAUDAN-ROURE CORPORATION

UPDATED
FLOW DIAGRAM
OUTFALL 001
DECEMBER 1994



OUTLET #2

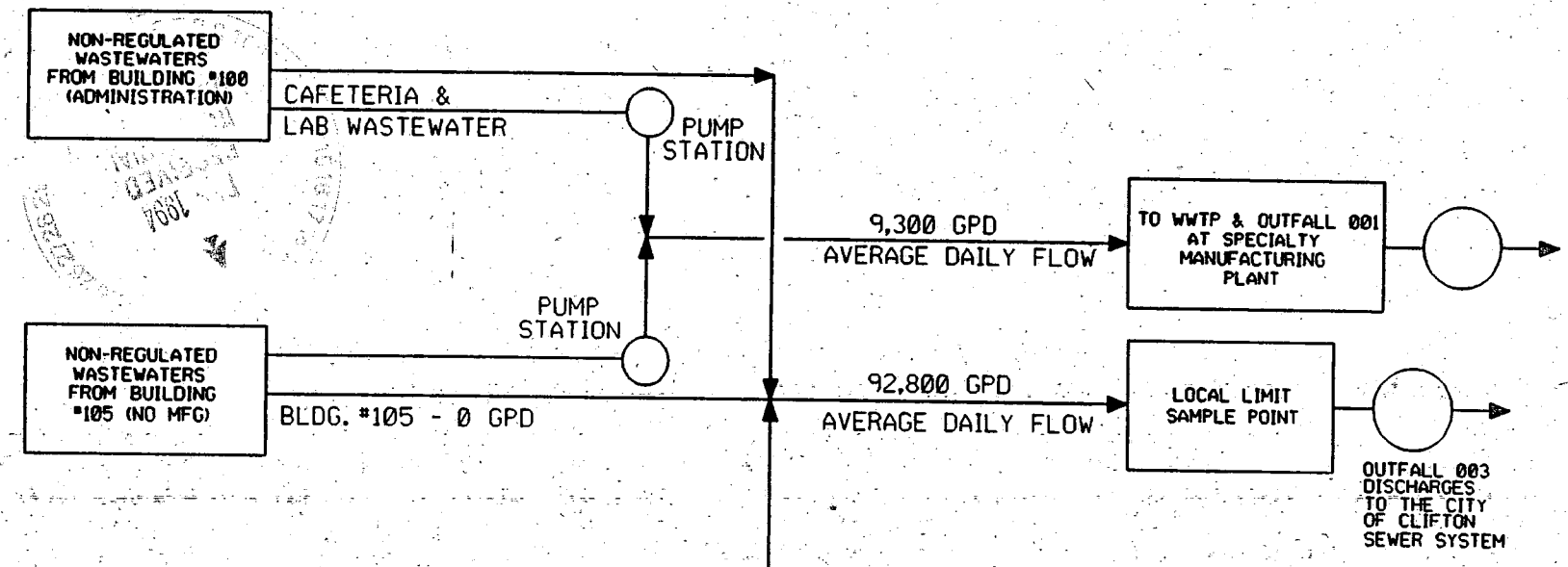
OUTLET 03401022 FOR USER CHARGE AND PRETREATMENT SAMPLE POINT/IS LOCATED IN THE LOCKER ROOM IN BUILDING #103

NOTE: BMR REPORT SUBMITTED DECEMBER,1994
RE: LOCAL LIMITS ON METALS

◯ = OUTFALL 002

GIVAUDAN-ROURE CORPORATION

UPDATED
FLOW DIAGRAM
OUTFALL 002
DECEMBER 1994



BLDG.#106 - PART OF BLDG.USED FOR STORAGE OF FURNITURE AND OLD UNUSED EQUIPMENT

BLDG.#102 - LEASED BLDG. TO SANDY ALEXANDER,USED FOR PACKAGING OF PRINTED MATERIAL, NO MANUFACTURING INVOLVED.

OUTLET #3

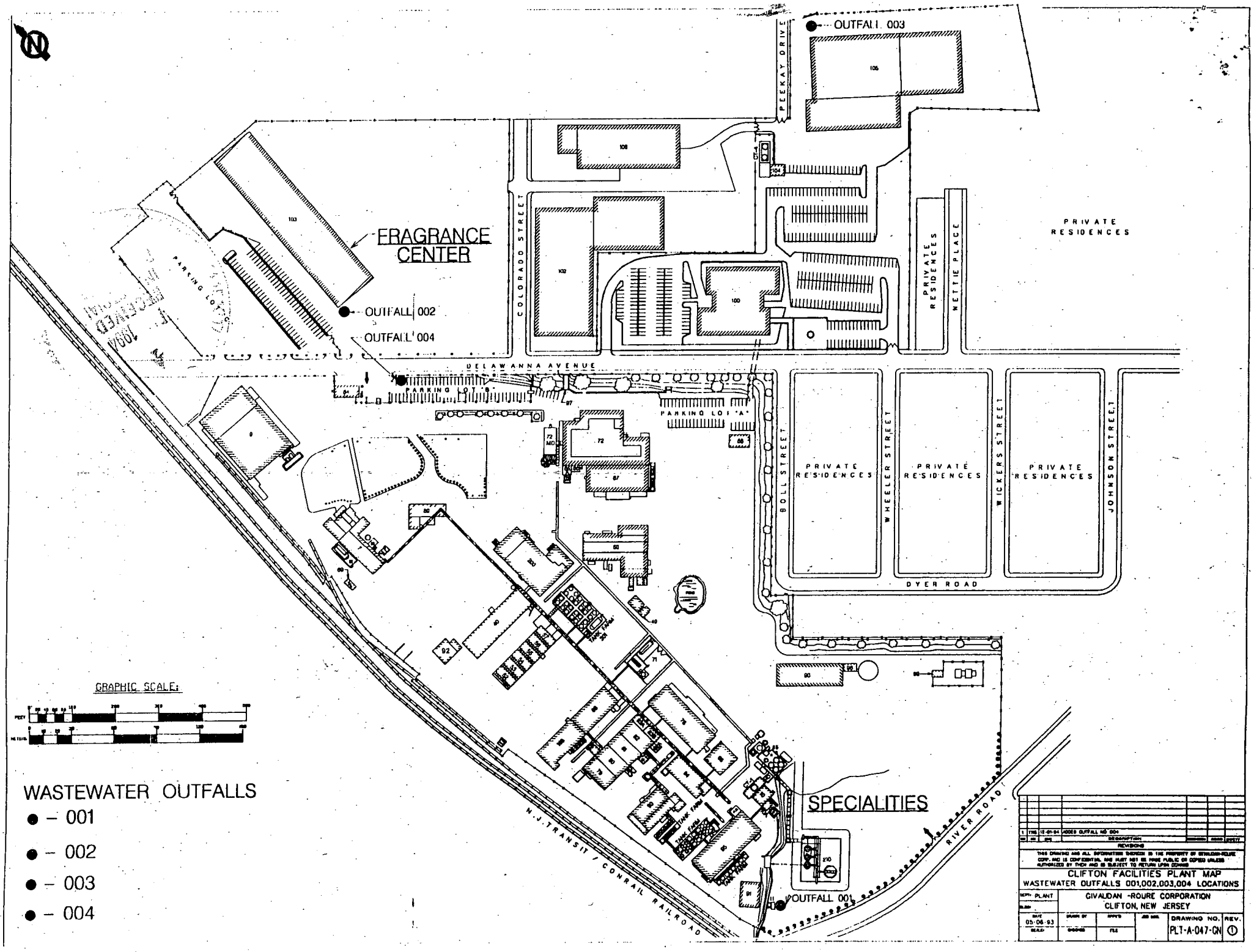
OUTLET 03401023 FOR USER CHARGE AND PRETREATMENT SAMPLE POINT/IS LOCATED IN THE DRIVEWAY OF BUILDING #105 ON PEEKAY DRIVE

NOTE: BMR REPORT SUBMITTED DECEMBER,1994
RE: LOCAL LIMITS ON METALS

◯ = OUTFALL 003

GIVAUDAN-ROURE CORPORATION

UPDATED
FLOW DIAGRAM
OUTFALL 003
DECEMBER 1994


OUTFALL 003
PEEKAY DRIVE
FRAGRANCE CENTER
OUTFALL 002
OUTFALL 004
COLORADO STREET
DELAWANNA AVENUE
PARKING LOT "B"
PARKING LOT "A"
PRIVATE RESIDENCES
NETTIE PLACE
BOLL STREET
WHEELER STREET
WICKERS STREET
JOHNSON STREET
DYER ROAD
SPECIALITIES
OUTFALL 001
N.J. TRANSIT / CONRAIL RAILROAD
RIVER ROAD
GRAPHIC SCALE:
WASTEWATER OUTFALLS
● – 001
● – 002
● – 003
● – 004
CLIFTON FACILITIES PLANT MAP
WASTEWATER OUTFALLS 001,002,003,004 LOCATIONS
GIVAUDAN -ROURE CORPORATION
CLIFTON, NEW JERSEY
DRAWING NO. PLT-A-047-CN
REV. 1

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
1	01	95	1	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	86,700	108,500
Total Flow-gal/day	255,000	319,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days 31

N/A ***Flow on Sample date 1/4-1/5 - 269,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Benzene	Sample measurement	< 0.02243	< 0.02243	# / day	1	Grab
	Permit requirement	0.27421	0.64463	# / day	1	
Carbon Tetrachloride	Sample measurement	< 0.06730	< 0.06730	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Chlorobenzene	Sample measurement	< 0.02243	< 0.02243	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
1,2,4-Trichloro-benzene	Sample measurement	< 0.10769	< 0.10769	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
Hexachlorobenzene	Sample measurement	< 0.08525	< 0.08525	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,2-Dichloroethane	Sample measurement	< 0.02243	< 0.02243	# / day	1	Grab
	Permit requirement	0.86568	2.76056	# / day	1	
1,1,1-Trichloro-ethane	Sample measurement	< 0.02243	< 0.02243	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	
Hexachloroethane	Sample measurement	< 0.08525	< 0.08525	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,1-Dichloroethane	Sample measurement	< 0.04487	< 0.04487	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
01	01	95	01	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	86,700	108,500
Total Flow-gal/day	255,000	319,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 1/4-1/5 - 269,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,1,2-Trichloro-ethane	Sample measurement	< 0.02243	< 0.02243	# / day	1	Grab
	Permit requirement	0.15390	0.61079	# / day	1	
Chloroethane	Sample measurement	< 0.11217	< 0.11217	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Chloroform	Sample measurement	< 0.02243	< 0.02243	# / day	1	Grab
	Permit requirement	0.53384	1.56304	# / day	1	
1,2-Dichloro-benzene	Sample measurement	< 0.10769	< 0.10769	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,3-Dichloro-benzene	Sample measurement	< 0.10769	< 0.10769	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,4-Dichloro-benzene	Sample measurement	< 0.10769	< 0.10769	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,1-Dichloro-ethylene	Sample measurement	< 0.06730	< 0.06730	# / day	1	Grab
	Permit requirement	0.10581	0.28856	# / day	1	
1,2-Trans-Dichloroethylene	Sample measurement	< 0.06730	< 0.06730	# / day	1	Grab
	Permit requirement	0.12023	0.31742	# / day	1	
1,2-Dichloro-propane	Sample measurement	< 0.06730	< 0.06730	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
01	01	95	01	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	86,700	108,500
Total Flow-gal/day	255,000	319,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 1/4-1/5 - 269,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3-Dichloro-propylene	Sample measurement	< 0.02243	< 0.02243	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	
Ethylbenzene	Sample measurement	< 0.02243	< 0.02243	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Methylene Chloride	Sample measurement	0.07628	0.07628	# / day	1	Grab
	Permit requirement	0.17314	0.81759	# / day	1	
Methyl Chloride	Sample measurement	< 0.02243	< 0.02243	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Hexachloro-butadiene	Sample measurement	< 0.10769	< 0.10769	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
Nitrobenzene	Sample measurement	< 0.02243	< 0.02243	# / day	1	Comp.
	Permit requirement	10.75850	30.78942	# / day	1	
2-Nitrophenol	Sample measurement	< 0.02243	< 0.02243	# / day	1	Comp.
	Permit requirement	0.31261	1.11096	# / day	1	
4-Nitrophenol	Sample measurement	< 0.02243	< 0.02243	# / day	1	Comp.
	Permit requirement	0.77911	2.77018	# / day	1	
4,6-Dinitro-o-Cresol	Sample measurement	< 0.08525	< 0.08525	# / day	1	Comp.
	Permit requirement	0.37513	1.33219	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
01	01	95	01	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	86,700	108,500
Total Flow-gal/day	255,000	319,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N/A *Flow on Sample date 1/4-1/5 - 269,000 GPD

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Tetrachloro-ethylene	Sample measurement	< 0.04487	< 0.04487	# / day	1	Grab
	Permit requirement	0.250009	0.78873	# / day	1	
Toluene	Sample measurement	< 0.02243	< 0.02243	# / day	1	Grab
	Permit requirement	0.13466	0.35589	# / day	1	
Trichloro-ethylene	Sample measurement	< 0.06730	< 0.06730	# / day	1	Grab
	Permit requirement	0.12504	0.33184	# / day	1	
Vinyl Chloride	Sample measurement	< 0.08974	< 0.08974	# / day	1	Grab
	Permit requirement	0.46651	0.82721	# / day	1	
Total Cyanide	Sample measurement	< 0.02243	< 0.02243	# / day	1	Grab
	Permit requirement	2.01992	5.77121	# / day	1	
Total Lead	Sample measurement	0.04038	0.04038	# / day	1	Comp.
	Permit requirement	1.53899	3.31845	# / day	1	
Total Zinc	Sample measurement	0.37690	0.37690	# / day	1	Comp.
	Permit requirement	5.04981	12.55239	# / day	1	
Petroleum Hydrocarbons	Sample measurement	16	16	mg / L	1	Grab
	Permit requirement		100	mg / L	1	
	Sample measurement					
	Permit requirement					

Certification of Non-use if applicable (use additional sheets)

Not Applicable

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

SEE ATTACHMENT 1

Explain Method for preserving samples

The laboratory preservation methods and holding times were performed in accordance with EPA/NJDEPE approved procedures and methodologies.

*** SEE ATTACHMENT 2 FOR SPECIFIC PRESERVATION METHODOLOGIES. ***

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Harold G. Thompson

Signature of Principal Executive or Authorized Agent

Harold G. Thompson

Senior Vice President / Operations

Type Name and Title

February 17, 1995

Date

PVSC Form MR-1 Rev. 5 3/91 P2

Attachment 1

Outfall 001

Compliance statement

Givaudan-Roure's test readings were within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H and other regulatory agency limitations.

Attachment 2

PRESERVATION METHODOLOGIES

Volatile Organics Samples :
Cool to 4°C in an ice chest.

Total Cyanide Samples :
Preserve sample with 10 N NaOH to a pH of greater than 12. After preserving the sample, cool to 4°C in an ice chest.

Total Lead and Total Zinc Samples :
Acidify sample with Conc. HNO_3 to a pH of 2 or less.

Acid / Base Neutrals Extractables Samples :
Approximately 80 mg/l sodium thiosulfate is added to the bottle(s) in the laboratory prior to being brought into the field. After collection, the sample is cooled to 4°C in an ice chest.

Petroleum Hydrocarbon Samples :
Preserve sample with conc. H_2SO_4 or HCl to a pH of less than 2 and cool to 4°C in an ice chest.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
JANUARY 17, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

VOLATILE ORGANIC ANALYSIS BY GC/MS

Lab Number: 203957
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Grab
Sample date: 01/05/95
Sampled by: Customer
At lab date: 01/05/95

Matrix: WATER

Data File: >A6064

Analysis Date: 01/13/95

Percent Moisture: 100%

Dilution Factor: 10

Init Sample vol= .5ml

Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	10
Bromomethane	U	U	30
Vinyl chloride	U	U	40
Chloroethane	U	U	50
Methylene chloride	34 *	U	30
Trichlorofluoromethane	U	U	20
1,1-Dichloroethene	U	U	30
1,1-Dichloroethane	U	U	20
trans-1,2-Dichloroethene	U	U	30
Chloroform	U	U	10
1,2-Dichloroethane	U	U	10
1,1,1-Trichloroethane	U	U	10
Carbon tetrachloride	U	U	30
Bromodichloromethane	U	U	10
1,2-Dichloropropane	U	U	30
cis-1,3-Dichloropropene	U	U	10
2-Chloroethyl vinyl ether	U	U	50
Trichloroethene	U	U	30
Dibromochloromethane	U	U	10
1,1,2-Trichloroethane	U	U	10
Benzene	U	U	10
trans-1,3-Dichloropropene	U	U	20
Bromoform	U	U	20
Tetrachloroethene	U	U	20
1,1,2,2-Tetrachloroethane	U	U	20
Toluene	U	U	10
Chlorobenzene	U	U	10
Ethylbenzene	U	U	10
total Xylenes	U	U	10
1,3-Dichlorobenzene	U	U	20
1,2-Dichlorobenzene	U	U	30
1,4-Dichlorobenzene	U	U	30

* This compound is not flagged with B since it was not found in the corresponding method blank. However, this compound is commonly found as a laboratory contaminant.

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
Note: Dichlorobenzenes, when applicable analyzed as semi-volatiles.
ND: Not Determined.

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JIM

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Randolph, NJ 07869
201-584-0330

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 Monthly
Sample Date: 01/05/95
Sampled by: Customer
At Lab Date: 01/05/95
Sample Matrix: Aqueous

Lab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
03957	001 Grab	16	U	0.56	01/12/95	01/12/95

U = Not detected

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Richard Levine, President

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CLA

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Randolph, NJ 07869
201-584-0330
JANUARY 17, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 203957
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 Monthly
Sample ID: 001 Grab
Sample matrix: LIQUID (AQUEOUS)
Sample date: 01/05/95
Sampled by: Customer
At lab date: 01/05/95

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Cyanide, Total	U	U	0.010

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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Richard Levine, President

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BON

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1152 Route 10
Randolph, NJ 07869
201-584-0330
JANUARY 16, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Lab Number: 203958
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Comp.
Sample date: 01/05/95
Sampled by: Customer
At lab date: 01/05/95
Matrix: WATER

Data File: >F1442

Analysis Date: 01/12/95

Init Sample vol= 1050ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	10
2-Nitrophenol	U	U	10
Phenol	U	U	10
2,4-Dimethylphenol	U	U	19
2,4-Dichlorophenol	U	U	10
2,4,6-Trichlorophenol	U	U	10
Pentachlorophenol	U	U	29
2,4-Dinitrophenol	U	U	86
4,6-Dinitro-2-methylphenol	U	U	38
4-Nitrophenol	U	U	10
4-Chloro-3-methylphenol	U	U	10

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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MEG

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
JANUARY 16, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Lab Number: 203958
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Comp.
Sample date: 01/05/95
Sampled by: Customer
At lab date: 01/05/95
Matrix: WATER

Data File: >F1442

Analysis Date: 01/12/95

Init Sample vol= 1050ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	10
bis(2-Chloroethyl)ether	U	U	10
1,3-Dichlorobenzene	U	U	48
1,4-Dichlorobenzene	U	U	48
1,2-Dichlorobenzene	U	U	48
bis(2-Chloroisopropyl)ether	U	U	19
N-Nitroso-di-n-propylamine	U	U	10
Hexachloroethane	U	U	38
Nitrobenzene	U	U	10
Isophorone	U	U	10
bis(2-Chloroethoxy)methane	U	U	10
1,2,4-Trichlorobenzene	U	U	48
Naphthalene	U	U	38
Hexachlorobutadiene	U	U	48
Hexachlorocyclopentadiene	U	U	38
2-Chloronaphthalene	U	U	48
Dimethyl phthalate	U	U	48
Acenaphthylene	U	U	29
2,6-Dinitrotoluene	U	U	10
Acenaphthene	U	U	38
2,4-Dinitrotoluene	U	U	19
Diethyl phthalate	U	U	29
4-Chlorophenyl phenyl ether	U	U	48
Fluorene	U	U	29
N-Nitrosodiphenylamine	U	U	19
1,2-Diphenylhydrazine (Azobenzene)	U	U	19
4-Bromophenyl phenyl ether	U	U	38
Hexachlorobenzene	U	U	38
Phenanthrene	U	U	19
Anthracene	U	U	10
Di-n-butylphthalate	U	U	10
Fluoranthene	U	U	19
Benzidine	U	U	38
Pyrene	U	U	19
Butyl benzylphthalate	U	U	19
3,3'-Dichlorobenzidine	U	U	10
Benzo(a)anthracene	U	U	19
Chrysene	U	U	10
bis(2-Ethylhexyl)phthalate	47	U	19
Di-n-octylphthalate	U	U	19
Benzo(b)fluoranthene	U	U	29

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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MEG

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1152 Route 10
Randolph, NJ 07869
201-584-0330
JANUARY 16, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Lab Number: 203958 Data File: >F1442
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Comp.
Sample date: 01/05/95
Sampled by: Customer Analysis Date: 01/12/95
At lab date: 01/05/95
Matrix: WATER

Init Sample vol= 1050ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Benzo(k)fluoranthene	U	U	29
Benzo(a)pyrene	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	10
Dibenz(a,h)anthracene	U	U	10
Benzo(g,h,i)perylene	U	U	19

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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1152 Route 10
Randolph, NJ 07869
201-584-0330
JANUARY 13, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 203958
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Comp.
Sample date: 01/05/95
Sampled by: Customer
At lab date: 01/05/95
Matrix: WATER

Percent Moisture: 100%

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Lead	0.018	U	0.008	01/11/95
Zinc	0.168	U	0.020	01/09/95

U = Not Detected

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Richard Levine, President

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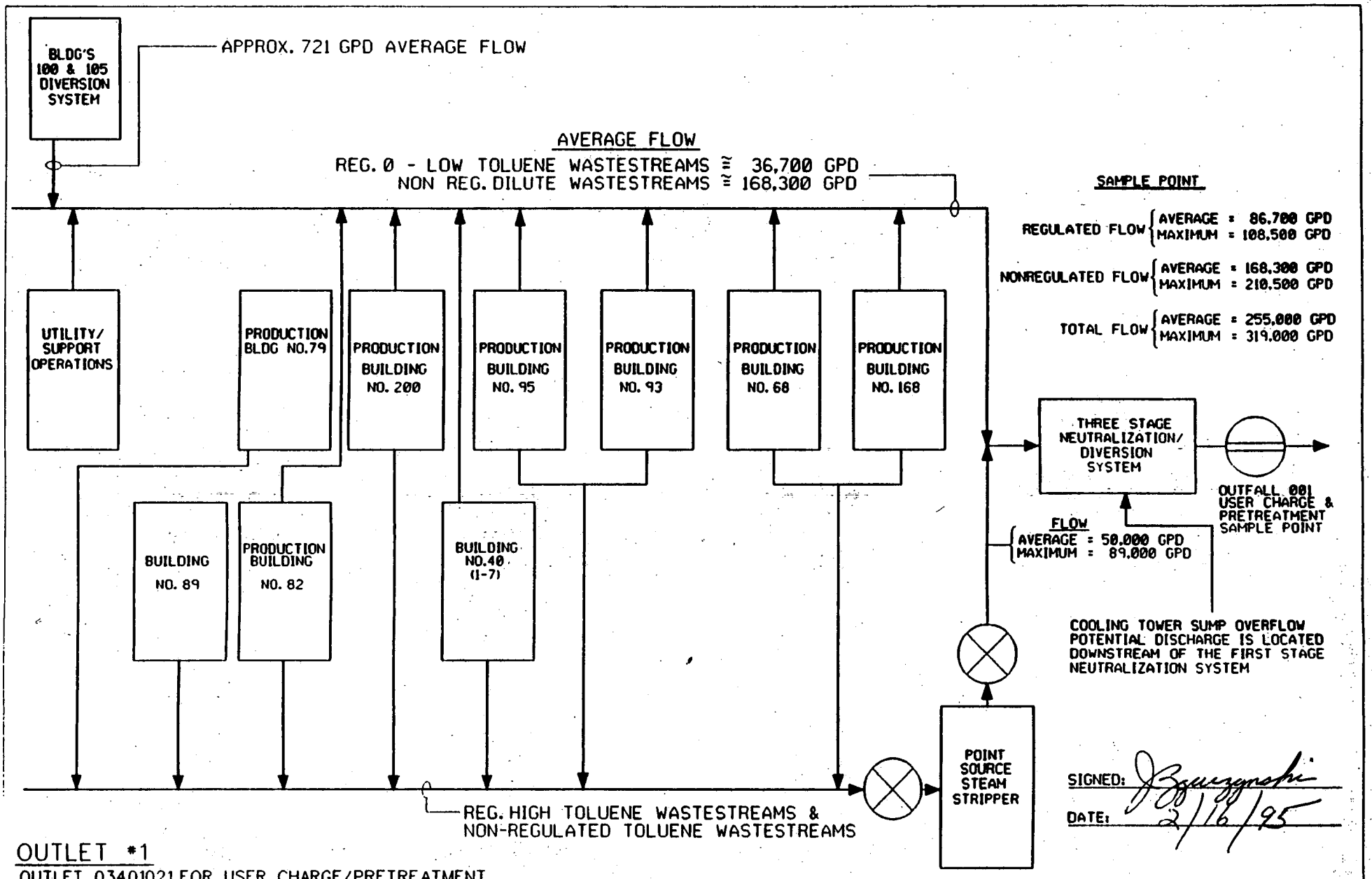
BON 1/16



SIGNED: J Zawzynski

DATE: 2/16/95

OUTLET #1

OUTLET 03401021 FOR USER CHARGE/PRETREATMENT IS LOCATED BY SAMPLE SHED BUILDING #11 LOCATED IN SOUTHWEST CORNER OF PROPERTY (40 CFR 414)

⊖ = COMPLIANCE MONITORING STATION

⊗ = MONITORING STATION

GIVAUDAN-ROURE CORPORATION

UPDATED
WASTE WATER PFD
OUTFALL 001
JANUARY 1995

ATTACHMENT B

MR-2 FORMS FOR :

DISCHARGE POINT 001, 002, 003 & 004

USER CHARGE SELF MONITORING REPORT

NAME Givaudan Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION SAME AS ABOVE

OUTLET DESIGNATION (17 DIGITS) 0340-1021-04626-0451

MONITORING PERIOD					
1	1	95	1	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
7,905,000 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 259243(000)

DATE	BOD 0310	TSS 0530	TDS-COD	DATE	BOD 0310	TSS 0530	TDS-COD
1/1	68	12		1/17	832	30	
1/2	83	23		1/18	2437	25	5122-3531
1/3	47	32		1/19	2419	22	
1/4	835	54	1893-2018	1/20	4527	319	
1/5	3084	19		1/21	2772	38	
1/6	2527	43		1/22	2203	41	
1/7	3293	44		1/23	498	40	
1/8	3737	42		1/24	1033	46	
1/9	1387	31		1/25	2044	36	5178-3068
1/10	544	86		1/26	2778	33	
1/11	3605	40	7715-5775	1/27	3677	38	
1/12	4701	30		1/28	3479	31	
1/13	4814	23		1/29	2641	35	
1/14	3102	8		1/30	940	51	
1/15	2766	10		1/31	1310	23	
1/16	1591	14					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE February 17, 1995

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 174 Delawanna Avenue - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1022-04626-0451

MONITORING PERIOD					
1	1	95	1	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
29,260 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 1535890(0)

DATE	BOD 0310	TSS 0530		DATE	BOD 0310	TSS 0530	
1/4	411	275					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE February 17, 1995

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 2 Peekay Drive - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1023-04626-0451

MONITORING PERIOD					
1	1	95	1	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

**NEW DESIGNATION AS SANITARY 1/1/95

VOL. DISCHARGED THIS PERIOD
1,912,120 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 138312(0)

DATE	BOD 0310	TSS 0530	COD	DATE	BOD 0310	TSS 0530	

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE February 17, 1995

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION Same as above

OUTLET DESIGNATION (17 DIGITS) 0340-1024-04626-0451

MONITORING PERIOD					
1	1	95	1	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
22,750 *** GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 0

Bldg.36 Effluent flow meter - no longer exists - Bldg. 36 has been razed.

*** Estimated Flow

DATE	BOD 0310	TSS 0530		DATE	BOD 0310	TSS 0530	

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE February 17, 1995

PVSC FORM MR-2 REV.2. 1/86

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 001 **Date of Sample :** January 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : 7,905,000 gals. Average Flow : 255,000 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	COD (mg/L)
1/1/95	68	12		
1/2/95	83	23		
1/3/95	47	32		
1/4/95	835	54	1893	2018
1/5/95	3084	19		
1/6/95	2527	43		
1/7/95	3293	44		
1/8/95	3737	42		
1/9/95	1387	31		
1/10/95	544	86		
1/11/95	3605	40	7715	5775
1/12/95	4701	30		
1/13/95	4814	23		
1/14/95	3102	8		
1/15/95	2766	10		
1/16/95	1591	14		
1/17/95	832	30		
1/18/95	2437	25	5122	3531
1/19/95	2419	22		
1/20/95	4527	319		
1/21/95	2772	38		
1/22/95	2203	41		
1/23/95	498	40		
1/24/95	1033	46		
1/25/95	2044	36	5178	3068
1/26/95	2778	33		
1/27/95	3677	38		
1/28/95	3479	31		
1/29/95	2641	35		
1/30/95	940	51		
1/31/95	1310	23		

Patricia Hopkins
Laboratory Supervisor

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 002 **Date of Sample :** January 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : NA Average Flow : NA

Sampling Date	BOD (mg/L)	TSS (mg/L)
1/4/95	411	275

Patricia Hopkins
Laboratory Supervisor

130 7587

3M

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
2	01	95	2	28	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	94,200	135,300
Total Flow-gal/day	277,200	398,000

Method used Flow meters & estimated flows

RECEIVED MAR 1995 INDUSTRIAL DEPARTMENT

Production rate (if applicable) No. of Working Days 28

N/A ***Flow on Sample date 2/1-2/2 - 302,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Benzene	Sample measurement	< 0.12593	< 0.12593	# / day	1	Grab
	Permit requirement	0.27421	0.64463	# / day	1	
Carbon Tetrachloride	Sample measurement	< 0.25187	< 0.25187	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Chlorobenzene	Sample measurement	< 0.25187	< 0.25187	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
1,2,4-Trichloro-benzene	Sample measurement	< 0.30224	< 0.30224	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
Hexachlorobenzene	Sample measurement	< 0.23927	< 0.23927	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,2-Dichloroethane	Sample measurement	< 0.25187	< 0.25187	# / day	1	Grab
	Permit requirement	0.86568	2.76056	# / day	1	
1,1,1-Trichloro-ethane	Sample measurement	< 0.12593	< 0.12593	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	
Hexachloroethane	Sample measurement	< 0.37780	< 0.37780	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,1-Dichloroethane	Sample measurement	< 0.12593	< 0.12593	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	

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During this monitoring period, no change has been made to the plot plan submittted to PVSC on 2/17/95

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
2	01	95	2	28	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	94,200	135,300
Total Flow-gal/day	277,200	398,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 28

N/A ***Flow on Sample date 2/1-2/2 - 302,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,1,2-Trichloro-ethane	Sample measurement	< 0.25187	< 0.25187	# / day	1	Grab
	Permit requirement	0.15390	0.61079	# / day	1	
Chloroethane	Sample measurement	< 0.37780	< 0.37780	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Chloroform	Sample measurement	< 0.12593	< 0.12593	# / day	1	Grab
	Permit requirement	0.53384	1.56304	# / day	1	
1,2-Dichloro-benzene	Sample measurement	< 0.30224	< 0.30224	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,3-Dichloro-benzene	Sample measurement	< 0.30224	< 0.30224	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,4-Dichloro-benzene	Sample measurement	< 0.30224	< 0.30224	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,1-Dichloro-ethylene	Sample measurement	< 0.25187	< 0.25187	# / day	1	Grab
	Permit requirement	0.10581	0.28856	# / day	1	
1,2-Trans-Dichloroethylene	Sample measurement	< 0.25187	< 0.25187	# / day	1	Grab
	Permit requirement	0.12023	0.31742	# / day	1	
1,2-Dichloro-propane	Sample measurement	< 0.12593	< 0.12593	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	

During this monitoring period, no change has been made to the plot plan submittted to PVSC on 2/17/95.

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
2	01	95	2	28	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	94,200	135,300
Total Flow-gal/day	277,200	398,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 28

N / A ***Flow on Sample date 2/1-2/2 - 302,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3-Dichloro-propylene	Sample measurement	< 0.12593	< 0.12593	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	
Ethylbenzene	Sample measurement	< 0.25187	< 0.25187	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Methylene Chloride	Sample measurement	< 0.25187	< 0.25187	# / day	1	Grab
	Permit requirement	0.17314	0.81759	# / day	1	
Methyl Chloride	Sample measurement	< 0.25187	< 0.25187	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Hexachloro-butadiene	Sample measurement	< 0.35262	< 0.35262	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
Nitrobenzene	Sample measurement	< 0.12593	< 0.12593	# / day	1	Comp.
	Permit requirement	10.75850	30.78942	# / day	1	
2-Nitrophenol	Sample measurement	< 0.12593	< 0.12593	# / day	1	Comp.
	Permit requirement	0.31261	1.11096	# / day	1	
4-Nitrophenol	Sample measurement	< 0.12593	< 0.12593	# / day	1	Comp.
	Permit requirement	0.77911	2.77018	# / day	1	
4,6-Dinitro-o-Cresol	Sample measurement	< 0.12593	< 0.12593	# / day	1	Comp.
	Permit requirement	0.37513	1.33219	# / day	1	

During this monitoring period, no change has been made to the plot plan submittted to PVSC on 2/17/95

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
02	01	95	02	28	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	94,200	135,300
Total Flow-gal/day	277,200	398,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 28

N / A ***Flow on Sample date 2/1-2/2 - 302,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Tetrachloro-ethylene	Sample measurement	< 0.12593	< 0.12593	# / day	1	Grab
	Permit requirement	0.250009	0.78873	# / day	1	
Toluene	Sample measurement	1.23415	1.23415	# / day	1	Grab
	Permit requirement	0.13466	0.35589	# / day	1	
Trichloro-ethylene	Sample measurement	< 0.12593	< 0.12593	# / day	1	Grab
	Permit requirement	0.12504	0.33184	# / day	1	
Vinyl Chloride	Sample measurement	< 0.25187	< 0.25187	# / day	1	Grab
	Permit requirement	0.46651	0.82721	# / day	1	
Total Cyanide	Sample measurement	< 0.02519	< 0.02519	# / day	1	Grab
	Permit requirement	2.01992	5.77121	# / day	1	
Total Lead	Sample measuremen	< 0.02015	< 0.02015	# / day	1	Comp.
	Permit requirement	1.53899	3.31845	# / day	1	
Total Zinc	Sample measurement	0.09571	0.09571	# / day	1	Comp.
	Permit requirement	5.04981	12.55239	# / day	1	
Petroleum Hydrocarbons	Sample measurement	28	28	mg / L	1	Grab
	Permit requirement		100	mg / L	1	
	Sample measurement					
	Permit requirement					

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During this monitoring period,no change has been made to the plot plan submittted to PVSC on 2/17/95

Certification of Non-use if applicable (use additional sheets)

Not Applicable

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

SEE ATTACHMENT 1

Explain Method for preserving samples

The laboratory preservation methods and holding times were performed in accordance with EPA/NJDEPE approved procedures and methodologies.

*** SEE ATTACHMENT 2 FOR SPECIFIC PRESERVATION METHODOLOGIES. ***

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Harold G. Thompson

Signature of Principal Executive or Authorized Agent

Harold G. Thompson

Senior Vice President / Operations

Type Name and Title

March 17, 1995

Date

PVSC Form MR-1 Rev. 5 3/91 P2

During this monitoring period, no change has been made to the plot plan submittted to PVSC on 2/17/95

Attachment 1

Outfall 001

Compliance statement

Givaudan-Roure's test readings were within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H and other regulatory agency limitations except toluene.

The respective average and mass limits for toluene are 0.13466 lbs/day and 0.35589 lbs/day. The mass value for toluene on February 2, 1995 was 1.23415 lbs./day. This calculated value exceeded the average mass limit for toluene by 1.09949 lbs./day and the maximum mass limit by 0.87826 lbs./day. The toluene issue is being addressed in a consent order entered into with the PVSC.

The most reasonable explanation appears to be a malfunction of the control system in the Building 200 sumps. The wastewaters in these sumps are supposed to be pumped to the steam stripper when the sump level reaches a certain level. We believe that the sump(s) overflowed into the by-pass stream because the high level alarm failed to function.

Since this has been corrected, the system has been functioning properly and the problem appears to have been solved. We cannot, however, be absolutely certain that this problem was the actual cause of the high toluene reading.

b) It is noted that the MDL's for the following specific organics were above the average permit limits:

Methylene chloride	Trichloroethylene
1,1-Dichloroethane	1,1,2-Trichloroethane
1,1,1-Trichloroethane	1,2-trans-Dichloroethylene
1,1-Dichloroethylene	

The QA/QC for this analysis is submitted herein. It has been shown in the past that Givaudan-Roure has been routinely below permit limits for these parameters.

Attachment 2

PRESERVATION METHODOLOGIES

Volatile Organics Samples :
Cool to 4°C in an ice chest.

Total Cyanide Samples :
Preserve sample with 10 N NaOH to a pH of greater than 12. After preserving the sample, cool to 4°C in an ice chest.

Total Lead and Total Zinc Samples :
Acidify sample with Conc. HNO_3 to a pH of 2 or less.

Acid / Base Neutrals Extractables Samples :
Approximately 80 mg/l sodium thiosulfate is added to the bottle(s) in the laboratory prior to being brought into the field. After collection, the sample is cooled to 4°C in an ice chest.

Petroleum Hydrocarbon Samples :
Preserve sample with conc. H_2SO_4 or HCl to a pH of less than 2 and cool to 4°C in an ice chest.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 10, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

VOLATILE ORGANIC ANALYSIS BY GC/MS

Lab Number: 205619
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Grab
Sample date: 02/02/95
Sampled by: Customer
At lab date: 02/02/95

Matrix: WATER

Data File: >G4527
Tel# 201-365-8507

Analysis Date: 02/06/95
Percent Moisture: 100%
Init Sample vol= 0.1ml

Dilution Factor: 50
Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	100
Bromomethane	U	U	200
Vinyl chloride	U	U	100
Chloroethane	U	U	150
Methylene chloride	U	U	100
Trichlorofluoromethane	U	U	50
1,1-Dichloroethene	U	U	100
1,1-Dichloroethane	U	U	50
trans-1,2-Dichloroethene	U	U	100
Chloroform	U	U	50
1,2-Dichloroethane	U	U	100
1,1,1-Trichloroethane	U	U	50
Carbon tetrachloride	U	U	100
Bromodichloromethane	U	U	100
1,2-Dichloropropane	U	U	50
cis-1,3-Dichloropropene	U	U	50
2-Chloroethyl vinyl ether	U	U	200
Trichloroethene	U	U	50
Dibromochloromethane	U	U	100
1,1,2-Trichloroethane	U	U	100
Benzene	U	U	50
trans-1,3-Dichloropropene	U	U	50
Bromoform	U	U	100
Tetrachloroethene	U	U	50
1,1,2,2-Tetrachloroethane	U	U	50
Toluene	490	U	50
Chlorobenzene	U	U	50
Ethylbenzene	U	U	100
total Xylenes	U	U	50
1,3-Dichlorobenzene	U	U	50
1,2-Dichlorobenzene	U	U	100
1,4-Dichlorobenzene	U	U	100

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
Note: Dichlorobenzenes, when applicable analyzed as semi-volatiles.
ND: Not Determined.

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MEG

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 Monthly
Tel# 201-365-8507
Sample Date: 02/02/95
Sampled by: Customer
At Lab Date: 02/02/95
Sample Matrix: Aqueous

Lab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
205619	001 Grab	28	U	0.57	02/08/95	02/08/95

U = Not detected

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Richard Levine, President

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ROB

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 14, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 205619
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 Monthly Tel# 201-365-8507
Sample ID: 001 Grab
Sample matrix: LIQUID (AQUEOUS)
Sample date: 02/02/95
Sampled by: Customer
At lab date: 02/02/95

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Cyanide, Total	U	U	0.010

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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Richard Levine, President

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BON

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 9, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Lab Number: 205620
Data File: >I4588
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Tel# 201-365-8507
Sample ID: 001 Comp.
Sample date: 02/02/95
Extracted Date: 02/03/95
Sampled by: Customer
Analysis Date: 02/07/95
Column: 30m SPB-5
At lab date: 02/02/95
Dilution Factor: 50
Percent Moisture: 100%
Matrix: WATER
Init Sample vol= 1000ml
Final volume= 50ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	50
2-Nitrophenol	U	U	50
Phenol	U	U	90
2,4-Dimethylphenol	U	U	50
2,4-Dichlorophenol	U	U	50
2,4,6-Trichlorophenol	U	U	50
Pentachlorophenol	U	U	50
2,4-Dinitrophenol	U	U	180
4,6-Dinitro-2-methylphenol	U	U	50
4-Nitrophenol	U	U	50
4-Chloro-3-methylphenol	U	U	50

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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JIM

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 17, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Lab Number: 205620
Data File: >I4588
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Comp.
Sample date: 02/02/95
Extracted Date: 02/03/95
Sampled by: Customer
Analysis Date: 02/07/95
Column: 30m SPB-5
At lab date: 02/02/95
Dilution Factor: 50
Matrix: WATER

Init Sample vol= 1000ml Final volume= 50ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	50
bis(2-Chloroethyl)ether	U	U	50
1,3-Dichlorobenzene	U	U	120
1,4-Dichlorobenzene	U	U	120
1,2-Dichlorobenzene	U	U	120
bis(2-Chloroisopropyl)ether	U	U	60
N-Nitroso-di-n-propylamine	U	U	90
Hexachloroethane	U	U	150
Nitrobenzene	U	U	50
Isophorone	U	U	50
bis(2-Chloroethoxy)methane	U	U	50
1,2,4-Trichlorobenzene	U	U	120
Naphthalene	U	U	100
Hexachlorobutadiene	U	U	140
Hexachlorocyclopentadiene	U	U	75
2-Chloronaphthalene	U	U	100
Dimethyl phthalate	U	U	230
Acenaphthylene	U	U	75
2,6-Dinitrotoluene	U	U	50
Acenaphthene	U	U	95
2,4-Dinitrotoluene	U	U	50
Diethyl phthalate	U	U	120
4-Chlorophenyl phenyl ether	U	U	100
Fluorene	U	U	85
N-Nitrosodiphenylamine	U	U	50
1,2-Diphenylhydrazine (Azobenzene)	U	U	50
4-Bromophenyl phenyl ether	U	U	95
Hexachlorobenzene	U	U	95
Phenanthrene	U	U	45
Anthracene	U	U	40
Di-n-butylphthalate	U	U	130
Fluoranthene	U	U	30
Benzidine	U	U	50
Pyrene	U	U	25
Butyl benzylphthalate	U	U	60
3,3'-Dichlorobenzidine	U	U	50
Benzo(a)anthracene	U	U	25
Chrysene	U	U	25
bis(2-Ethylhexyl)phthalate	U	U	50
Di-n-octylphthalate	U	U	50
Benzo(b)fluoranthene	U	U	35

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 9, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Lab Number: 205620
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Comp.
Sample date: 02/02/95
Sampled by: Customer
At lab date: 02/02/95

Data File: >I4588
Tel# 201-365-8507

Extracted Date: 02/03/95
Analysis Date: 02/07/95
Column: 30m SPB-5
Dilution Factor: 50
Percent Moisture: 100%

Matrix: WATER

Init Sample vol= 1000ml Final volume= 50ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Benzo(k)fluoranthene	U	U	35
Benzo(a)pyrene	U	U	25
Indeno(1,2,3-cd)pyrene	U	U	55
Dibenz(a,h)anthracene	U	U	25
Benzo(g,h,i)perylene	U	U	25

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 15, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 205620
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Comp.
Sample date: 02/02/95
Sampled by: Customer
At lab date: 02/02/95
Matrix: WATER

Percent Moisture: 100 %

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Lead	U	U	0.008	02/14/95
Zinc	0.038	U	0.020	02/13/95

U = Not Detected

INDUSTRIAL CORROSION MANAGEMENT, INC.
Richard Levine, President

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LYN 2/15

ATTACHMENT B

MR-2 FORMS FOR :

DISCHARGE POINT 001, 002, 003

ATTACHMENT A

MR-1 FORM FOR :

DISCHARGE POINT 001 (includes all lab data and the flow diagram)

CERTIFIED MAIL - RETURN RECEIPT REQUESTED -- Z 009-726-986

March 17, 1995

Mr. Frank D'Ascensio
Manager, Industrial & Pollution Control
Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Re: Monthly Report For Permit No. 03401024
Givaudan-Roure Corporation
Clifton, NJ 07015-5034

Dear Mr. D'Ascensio:

This report is submitted pursuant to the wastewater discharge reporting requirements as amended by the New Jersey Clean Water Enforcement Act (N.J.C.W.E.A).

The information submitted herein deals with the wastewater discharges from Givaudan-Roure operations at the referenced site. The following reports and documents are included in this submittal covering the month of February 1995.

Attachment A - Outfall 001

- Completed PVSC form MR-1
- Statement on MR-1 ref. Plot Plan
- Analytical Support Documents
- Analytical QA/QC Data Package

Attachment B

- Completed PVSC forms MR-2 for Outfalls 001, 002 and 003.

The wastewater analyses reported herein were performed by the following certified laboratories:

- ICM Laboratories (Industrial Corrosion Management, Inc.)
- Givaudan-Roure Environmental Laboratory

The New Jersey Department of Environmental Protection and Energy certified laboratory numbers assigned to these facilities are 14116 and 16867.

The comments that follow apply to the compliance issues governing Outfalls 001. Regarding Outfall 003, Givaudan-Roure is no longer required to monitor for pH, petroleum hydrocarbons or other parameters.

1. Outfall 001

Givaudan-Roure's test readings were within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H including PVSC local regulatory agency permit requirements except toluene.

Toluene

The official sample collected on February 2, 1995 indicates a concentration of 490 μg/l of toluene.

a) The respective average and mass limits for toluene are 0.13466 lbs/day and 0.35589 lbs/day. The mass value for toluene on February 2, 1995 was 1.23415 lbs./day. This calculated value exceeded the average mass limit for toluene by 1.09949 lbs./day and the maximum mass limit by 0.87826 lbs./day. The toluene issue is being addressed in a consent order entered into with the PVSC.

The most reasonable explanation appears to be a malfunction of the control system in the Building 200 sumps. The wastewaters in these sumps are supposed to be pumped to the steam stripper when the sump level reaches a certain level. We believe that the sump(s) overflowed into the by-pass stream because the high level alarm failed to function.

Since this has been corrected, the system has been functioning properly and the problem appears to have been solved. We cannot, however, be absolutely certain that this problem was the actual cause of the high toluene reading.

b) It is noted that the MDL's for the following specific organics were above the average permit limits:

Methylene chloride	Trichloroethylene
1,1-Dichloroethane	1,1,2-Trichloroethane
1,1,1-Trichloroethane	1,2-trans-Dichloroethylene
1,1-Dichloroethylene	

The QA/QC for this analysis is submitted herein. It has been shown in the past that Givaudan-Roure has been routinely below permit limits for these parameters.

If you have any questions regarding the above matter, please call Ms. Patricia Hopkins at (201) 365-8507 or Mr. Joseph Zgurzynski at (201)365-8566.

Sincerely,

GIVAUDAN-ROURE CORPORATION

Harold G. Thompson

H. G. Thompson
Se.Vice President Operations

HGT:cj
Encl.
H:\slaby\permt-mr.ma5

Givaudan
2/95 MR-1

ANALYTICAL DATA REPORT PACKAGE

GIVAUDAN-ROURE CORPORATION

001 Monthly

REPORT GENERATION DATE: February 17, 1995
DATE SAMPLED: 02/02/95

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

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ICM LABORATORIES (INDUSTRIAL CORROSION MANAGEMENT, INC.)
1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

FEBRUARY 17, 1995
14:37:28

CLIENT: GIVAUDAN-ROURE CORPORATION
SOURCE: 001 Monthly

ANALYTICAL DATA SUMMARY REPORT FOOTNOTE PAGE

U = Indicates a compound was analyzed for but not detected.
For results marked U, the numerical value is the compound MDL.

J = Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit and greater than zero.

B = Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

W = Analytical Spike recovery for furnace AA analysis was not within control limits but was greater than or equal to 40%.

NA = Not Applicable.

Trip Blank pH is measured in laboratory.

IND = Indeterminable - compound decomposes in water.

LISA

ICM LABORATORIES (INDUSTRIAL CORROSION MANAGEMENT, INC.)
1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

FEBRUARY 17, 1995
14:36:23

CLIENT: GIVAUDAN-ROURE CORPORATION
SOURCE: 001 Monthly

ANALYTICAL DATA SUMMARY REPORT

Client Sample Number	001 Grab	001 Comp.
ICM Sample Number	205619	205620
Sampling Date	02/02/95	02/02/95
Units	UG/L	UG/L
VOLATILE PARAMETERS		
Chloromethane	100 U	NA
Bromomethane	200 U	NA
Vinyl chloride	100 U	NA
Chloroethane	150 U	NA
Methylene chloride	100 U	NA
Trichlorofluoromethane	50 U	NA
1,1-Dichloroethene	100 U	NA
1,1-Dichloroethane	50 U	NA
trans-1,2-Dichloroethene	100 U	NA
Chloroform	50 U	NA
1,2-Dichloroethane	100 U	NA
1,1,1-Trichloroethane	50 U	NA
Carbon tetrachloride	100 U	NA
Bromodichloromethane	100 U	NA
1,2-Dichloropropane	50 U	NA
cis-1,3-Dichloropropene	50 U	NA
2-Chloroethyl vinyl ether	200 U	NA
Trichloroethene	50 U	NA
Dibromochloromethane	100 U	NA
1,1,2-Trichloroethane	100 U	NA
Benzene	50 U	NA
trans-1,3-Dichloropropene	50 U	NA
Bromoform	100 U	NA
Tetrachloroethene	50 U	NA
1,1,2,2-Tetrachloroethane	50 U	NA
Toluene	490	NA
Chlorobenzene	50 U	NA
Ethylbenzene	100 U	NA
total Xylenes	50 U	NA
1,3-Dichlorobenzene	50 U	NA
1,2-Dichlorobenzene	100 U	NA
1,4-Dichlorobenzene	100 U	NA
Total Non-Target Compounds	NA	NA

ICM LABORATORIES (INDUSTRIAL CORROSION MANAGEMENT, INC.)
1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

FEBRUARY 17, 1995
14:36:45

CLIENT: GIVAUDAN-ROURE CORPORATION
SOURCE: 001 Monthly

ANALYTICAL DATA SUMMARY REPORT

Client Sample Number	001 Grab	001 Comp.
ICM Sample Number	205619	205620
Sampling Date	02/02/95	02/02/95
Units	UG/L	UG/L
SEMIVOLATILE PARAMETERS (ACID FRACTION)		
2-Chlorophenol	NA	50 U
2-Nitrophenol	NA	50 U
Phenol	NA	90 U
2,4-Dimethylphenol	NA	50 U
2,4-Dichlorophenol	NA	50 U
2,4,6-Trichlorophenol	NA	50 U
Pentachlorophenol	NA	50 U
2,4-Dinitrophenol	NA	180 U
4,6-Dinitro-2-methylphenol	NA	50 U
4-Nitrophenol	NA	50 U
4-Chloro-3-methylphenol	NA	50 U
Total Non-Target Compounds	NA	NA

13

ICM LABORATORIES (INDUSTRIAL CORROSION MANAGEMENT, INC.)
1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

FEBRUARY 17, 1995
14:36:53

CLIENT: GIVAUDAN-ROURE CORPORATION
SOURCE: 001 Monthly

ANALYTICAL DATA SUMMARY REPORT

Client Sample Number	001 Grab	001 Comp.
ICM Sample Number	205619	205620
Sampling Date	02/02/95	02/02/95
Units	UG/L	UG/L
SEMIVOLATILE PARAMETERS (BASE/NEUTRAL)		
N-Nitrosodimethylamine	NA	50 U
bis(2-Chloroethyl)ether	NA	50 U
1,3-Dichlorobenzene	NA	120 U
1,4-Dichlorobenzene	NA	120 U
1,2-Dichlorobenzene	NA	120 U
bis(2-Chloroisopropyl)ether	NA	60 U
N-Nitroso-di-n-propylamine	NA	90 U
Hexachloroethane	NA	150 U
Nitrobenzene	NA	50 U
Isophorone	NA	50 U
bis(2-Chloroethoxy)methane	NA	50 U
1,2,4-Trichlorobenzene	NA	120 U
Naphthalene	NA	100 U
Hexachlorobutadiene	NA	140 U
Hexachlorocyclopentadiene	NA	75 U
2-Chloronaphthalene	NA	100 U
Dimethyl phthalate	NA	230 U
Acenaphthylene	NA	75 U
2,6-Dinitrotoluene	NA	50 U
Acenaphthene	NA	95 U
2,4-Dinitrotoluene	NA	50 U
Diethyl phthalate	NA	120 U
4-Chlorophenyl phenyl ether	NA	100 U
Fluorene	NA	85 U
N-Nitrosodiphenylamine	NA	50 U
1,2-Diphenylhydrazine (Azobenzene)	NA	50 U
4-Bromophenyl phenyl ether	NA	95 U
Hexachlorobenzene	NA	95 U
Phenanthrene	NA	45 U
Anthracene	NA	40 U
Di-n-butylphthalate	NA	130 U
Fluoranthene	NA	30 U
Benzidine	NA	50 U
Pyrene	NA	25 U
Butyl benzylphthalate	NA	60 U
3,3'-Dichlorobenzidine	NA	50 U
Benzo(a)anthracene	NA	25 U
Chrysene	NA	25 U
bis(2-Ethylhexyl)phthalate	NA	50 U
Di-n-octylphthalate	NA	50 U
Benzo(b)fluoranthene	NA	35 U
Benzo(k)fluoranthene	NA	35 U
Benzo(a)pyrene	NA	25 U
Indeno(1,2,3-cd)pyrene	NA	55 U
Dibenz(a,h)anthracene	NA	25 U
Benzo(g,h,i)perylene	NA	25 U
Total Non-Target Compounds	NA	NA

ICM LABORATORIES (INDUSTRIAL CORROSION MANAGEMENT, INC.)
1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

FEBRUARY 17, 1995
14:37:26

CLIENT: GIVAUDAN-ROURE CORPORATION
SOURCE: 001 Monthly

ANALYTICAL DATA SUMMARY REPORT

Client Sample Number	001 Grab	001 Comp.
ICM Sample Number	205619	205620
Sampling Date	02/02/95	02/02/95
Units	MG/L	MG/L
INORGANIC PARAMETERS (METALS)		
Lead	NA	0.008 U
Zinc	NA	0.038

A

ICM LABORATORIES (INDUSTRIAL CORROSION MANAGEMENT, INC.)
1152 ROUTE 10
RANDOLPH, NJ 07869
PHONE: (201) 584-0330 FAX: (201) 584-0515

FEBRUARY 17, 1995
14:37:23

CLIENT: GIVAUDAN-ROURE CORPORATION
SOURCE: 001 Monthly

ANALYTICAL DATA SUMMARY REPORT

Client Sample Number	001 Grab	001 Comp.
ICM Sample Number	205619	205620
Sampling Date	02/02/95	02/02/95
Units	MG/L	MG/L
INORGANIC PARAMETERS		
Petroleum Hydrocarbons	28	NA
Cyanide, Total	0.010 U	NA

INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 17, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

ANALYTICAL DATA REPORT PACKAGE

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 Monthly
Sampled By: Customer

SAMPLE ID:	MATRIX	LAB NUMBER	DATE & TIME COLLECTED	AT LAB DATE
001 Grab	Aqueous	205619	02/02/95 08:10	02/02/95
001 Comp.	Aqueous	205620	02/02/95 08:10	02/02/95

Supervisor/Manager Signature:

Richard S. Levine

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LIS

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

NJDEP Certified Drinking Water/
Wastewater Laboratory ID# 14116

LABORATORY DELIVERABLES

The following laboratory deliverables are included in this data submission. All deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non-Conformance Summary.

		Check if Complete
I.	Cover Page, Format, and Laboratory Certification (Including Cross Reference Table of Field I.D. # and Laboratory I.D. #)	✓
II.	Chain of Custody	✓
III.	Summary Sheets Listing Analytical Results Including QA Data Information	✓
IV.	Laboratory Chronicle and Methodology Summary Including Sample Holding Time Check	✓
V.	Initial Calibration and Continuing Calibration	✓
VI.	Tune Summary (MS)	✓
VII.	Blanks (Method, Field, Trip)	✓
VIII.	Surrogate Recovery Summary	✓
IX.	Chromatographs Labelled/Compound Identification	✓
X.	Minimum Detection Limits (Lower than Action Level if Clean Zone Sample - and consistent with method guidelines)	✓
XI.	Non-Conformance Summary	✓

Teresa Wittine
Quality Assurance Coordinator

2/16/95
Date

NA = Not Applicable

ICM LABORATORIES — CHAIN OF CUSTODY REPORT

CLIENT: Givaudan-Roure Corp.
ADDRESS: 125 Delawanna Ave. Clifton, N.J. 07015
PHONE: (201) 365-8507
PROJECT: 001 Monthly
PROJ. MGR.: Pat Hopkins

BILL TO: Accounts Payable
SEND REPORT TO: Pat Hopkins
IN CASE OF QUESTIONS UPON SAMPLE RECEIPT CALL: (201) 365-8507
PHONE: Mila or Pat

DELIVERABLES:
- ☐ REDUCED DELIVERABLES NON-CLP FORMAT
- ☒ REDUCED DEL. CLP FORMAT non 617
- ☐ REGULATORY FORMAT
- ☐ FULL DEL. CLP FORMAT
- ☐ NPDES
- ☐ STATE FORMS REQUIRED

TURNAROUND TIME
FAX (PRELIMINARIES) (If required) ✓
HARDCOPY
COOLER TEMP 3.2°C @ REC

LABORATORY ID CODE	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	COMPOSITE	GRAB	SOIL	LIQUID	SLUDGE	OTHER	# OF BOTTLES	PHC	G24 (PP)	CN	625 (PP) BNA	Metals*								H_2SO_4	HNO_3	HCL	NAOH	OTHER
205619	001	2/2/95	8:10		X		X			1	X												X				
	001	2/2/95	8:10		X		X			2-40 ml Vials		X													X		
	001	2/2/95	8:10		X		X			1-1L Plastic			X													X	
205620	001	2/2/95	8:10	X			X			1-1L Amber				X													
	001	2/2/95	8:10	X			X			1-1L Plastic						X								X			

SAMPLED BY: [signature] DATE: 2/2/95 TIME: 8:10
RELINQUISHED BY: [signature] DATE: 2-2-95 TIME: 11:10
RECEIVED BY: [signature] DATE: 2-2-95 TIME: 11:10
RELINQUISHED BY: [signature] DATE: 2-2-95 TIME: 14:35
RECEIVED BY: [signature] DATE: 2/2/95 TIME: 1435
RELINQUISHED BY: DATE: TIME:
RECEIVED BY: DATE: TIME:

COMMENTS: Metals include Lead & Zinc
Use P.O. # 111502

COMPOUND LIST
- [ ] PRIORITY POLLUTANT
- [ ] TARGET COMPOUND LIST
- [ ] NJAC 7:14A APP B
- [ ] OTHER

CONCENTRATIONS EXPECTED
- ☐ HIGH
- ☐ MEDIUM
- ☐ LOW
- KNOWN HAZARD

IS SAMPLE CHLORINATED? ☐ YES ☐ NO

© ICM 1993

SAMPLING EQUIPMENT CUSTODY RECORD

Client: GIVAUDAN- ROURE CORP.
Project Manager: PAT HOPKINS
Project Name: 001 MONTHLY
Sampled by: CUSTOMER

- [x] Faxed Preliminaries
- [ ] Results only
- [x] Reduced Deliverables — NON JUNE 7th
- [ ] Regulatory Format
- [ ] CLP I
- [ ] CLP II

Deliverables Required:
- [ ] ECRA
- [ ] BUST
- [ ] NJPDES
- [ ] GASOLINE/ KEROSENE
- [ ] State Forms Required

SOIL

Parameter	Bottle Order

WATER

Parameter	Bottle Order
- GRAB -	
VOA (624)	2 x 40 ml w/ HCl
Tot. CN	1 LITER PLAS. w/NaOH
PHC	1 LITER GLASS w/ H_2SO_4
- COMPOSITE -	
ABN (625)	1 LITER GLASS AMBER
METALS (Pb, Zn)	1 LITER PLAS w/ HNO_3

FIELD BLANK NONE

TRIP BLANK NONE

- [x] Delivered by ICM
- [ ] Picked up by Client
- [ ] Shipped UPS/Federal Express AirBill #:

DATE: 02-01-95
TIME: Any am

Prepared by: [signature] Cooler #'s: 500
Date/Time: 2/01/95 1250 Title: E.S.
Checked by: [signature] 3 Ice Packs [x] COC, Labels
Date/Time: 2/01/95 1251 Title: FS
Cooler Sealed: Date/Time: 2/01/95 1300 Seal #: 1347 Name: [signature]
Title: E.S.

SAMPLE CONTAINERS:
Relinquished by ICM: [signature] Date/Time: 2-1-95 1420
Received by: [signature] Date/Time: 2-1-95 1420

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
(201) 584-0330

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY CHRONICLE

DATE SAMPLED: 02/02/95 PRESERVATIVE: 4 degrees C, HCL

DATE RECEIPT/REFRIGERATION: 02/02/95

GC/MS VOLATILES:

LAB ID #	DATE ANALYZED
205619	02/06/95

DEPT. SUPERVISOR: [signature]

QA REVIEW & APPROVAL: Teresa Wittwer

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
(201) 584-0330

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY CHRONICLE

DATE SAMPLED: 02/02/95 PRESERVATIVE: 4 degrees C

DATE RECEIPT/REFRIGERATION: 02/02/95

GC/MS SEMI-VOLATILES:

LAB ID #	ACIDS DATE EXTRACTED	ACIDS DATE ANALYZED	BASE/NEUTRAL DATE EXTRACTED	BASE/NEUTRAL DATE ANALYZED
205620	02/03/95	02/07/95	02/03/95	02/07/95

DEPT. SUPERVISOR: [signature]

QA REVIEW & APPROVAL: Teresa Wittwer

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
(201) 584-0330

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY CHRONICLE

DATE SAMPLED: 02/02/95

PRESERVATIVE: 4 degrees C, HNO_3

DATE RECEIPT/REFRIGERATION: 02/02/95

METALS:

LAB ID #	DATE ANALYZED METALS	DATE ANALYZED MERCURY
205620	02/13/95, 02/14/95	NA

DEPT. SUPERVISOR: Lynne K Mardel

QA REVIEW & APPROVAL: Teresa Ventures

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
(201) 584-0330

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY CHRONICLE

DATE SAMPLED: 02/02/95 PRESERVATIVE: 4 degrees C, H_2SO_4

DATE RECEIPT/REFRIGERATION: 02/02/95

PETROLEUM HYDROCARBONS:

LAB ID #	DATE EXTRACTED	DATE ANALYZED
205619	02/08/95	02/08/95

DEPT. SUPERVISOR: [signature]

QA REVIEW & APPROVAL: Teresa Whitney

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
(201) 584-0330

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY CHRONICLE

DATE SAMPLED: 02/02/95 PRESERVATIVE: 4 degrees C, NaOH

DATE RECEIPT/REFRIGERATION: 02/02/95

:ENERAL ANALYTICAL:

LAB ID #	PARAMETER	DATE ANALYZED
205619	Cyanide, Total	02/10/95

DEPT. SUPERVISOR: [signature]

QA REVIEW & APPROVAL: [signature]

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

NJ DEP and PA DER Certified.
NJ DEP Lab ID# 14116
US EPA Historic CLP Lab

CONFORMANCE/NONCONFORMANCE SUMMARY CHECKLIST

Lab Numbers: 205619-205620

Volatile Organics: Analyzed ✓ Not Analyzed ___

All tunes were run in required frequency. Yes ✓ No ___

All tune m/z ratios met criteria. Yes ✓ No ___

All initial and/or continuing calibrations were run in required frequency. Yes ✓ No ___

All calibration SPCCs and CCCs met criteria. Yes ___ No ___ NA

Surrogate recoveries met QC criteria. Yes ✓ No ___

All method blanks met contamination criteria. Yes ✓ No ___

All samples were analyzed within the required holding times. Yes ✓ No ___

Comments: ___

Semi-volatile Organics: Analyzed ✓ Not Analyzed ___

All tunes were run in required frequency. Yes ✓ No ___

All tune m/z ratios met criteria. Yes ✓ No ___

All initial and/or continuing calibrations were run in required frequency. Yes ✓ No ___

All calibration SPCCs and CCCs met criteria. Yes ___ No ___ NA

Surrogate recoveries met QC criteria. Yes ✓ No ___

All method blanks met contamination criteria. Yes ✓ No ___

All samples were extracted and analyzed within the required holding times. Yes ✓ No ___

Comments: ___

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

NJ DEP and PA DER Certified.
NJ DEP Lab ID# 14116
US EPA Historic CLP Lab

CONFORMANCE/NONCONFORMANCE SUMMARY CHECKLIST

Lab Numbers: 205619-205620

Pesticides/PCBs: Analyzed____ Not Analyzed ✓

All method blanks met contamination criteria. Yes____ No____

All samples were extracted and analyzed within the required holding times. Yes____ No____

Comments:

Metals: Analyzed ✓ Not Analyzed____

All method blanks met contamination criteria. Yes ✓ No____

All samples were analyzed within the required holding times. Yes ✓ No____

Comments:

Petroleum Hydrocarbons: Analyzed ✓ Not Analyzed____

All samples were extracted and analyzed within the required holding times. Yes ✓ No____

Comments:

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

NJ DEP and PA DER Certified.
NJ DEP Lab ID# 14116
US EPA Historic CLP Lab

CONFORMANCE/NONCONFORMANCE SUMMARY CHECKLIST

Lab Numbers: 205619-205620

General Chemistry: Analyzed ✓ Not Analyzed ___

All samples were analyzed within the required holding times.
Yes ✓ No ___

Comments: _____

Teresa Wittwer
Quality Assurance Coordinator

2/16/95
Date

Volatiles
*40 Code of Federal Regulations
**Method 624

Semi-volatiles
*40 Code of Federal Regulations
**Method 625

Lead
*EPA Methods for Chemical Analysis of Water and Wastes, March 1983
**Method 239.2

Zinc
*40 Code of Federal Regulations
**Method 200.7

Petroleum Hydrocarbons
*EPA Methods for Chemical Analysis of Water and Wastes, March 1983
**Method 418.1

Cyanide (Automated)
*EPA Methods for Chemical Analysis of Water and Wastes, March 1983
**Method 335.3

* Indicates reference.
** Indicates method.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 10, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

VOLATILE ORGANIC ANALYSIS BY GC/MS

Lab Number: 205619
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Grab
Sample date: 02/02/95
Sampled by: Customer
At lab date: 02/02/95

Data File: >G4527
Tel# 201-365-8507

Analysis Date: 02/06/95
Percent Moisture: 100%
Dilution Factor: 50

Matrix: WATER

Init Sample vol= 0.1ml
Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	100
Bromomethane	U	U	200
Vinyl chloride	U	U	100
Chloroethane	U	U	150
Methylene chloride	U	U	100
Trichlorofluoromethane	U	U	50
1,1-Dichloroethene	U	U	100
1,1-Dichloroethane	U	U	50
trans-1,2-Dichloroethene	U	U	100
Chloroform	U	U	50
1,2-Dichloroethane	U	U	100
1,1,1-Trichloroethane	U	U	50
Carbon tetrachloride	U	U	100
Bromodichloromethane	U	U	100
1,2-Dichloropropane	U	U	50
cis-1,3-Dichloropropene	U	U	50
2-Chloroethyl vinyl ether	U	U	200
Trichloroethene	U	U	50
Dibromochloromethane	U	U	100
1,1,2-Trichloroethane	U	U	100
Benzene	U	U	50
trans-1,3-Dichloropropene	U	U	50
Bromoform	U	U	100
Tetrachloroethene	U	U	50
1,1,2,2-Tetrachloroethane	U	U	50
Toluene	490	U	50
Chlorobenzene	U	U	50
Ethylbenzene	U	U	100
total Xylenes	U	U	50
1,3-Dichlorobenzene	U	U	50
1,2-Dichlorobenzene	U	U	100
1,4-Dichlorobenzene	U	U	100

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
Note: Dichlorobenzenes, when applicable analyzed as semi-volatiles.
ND: Not Determined.

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MEG

QUANT REPORT

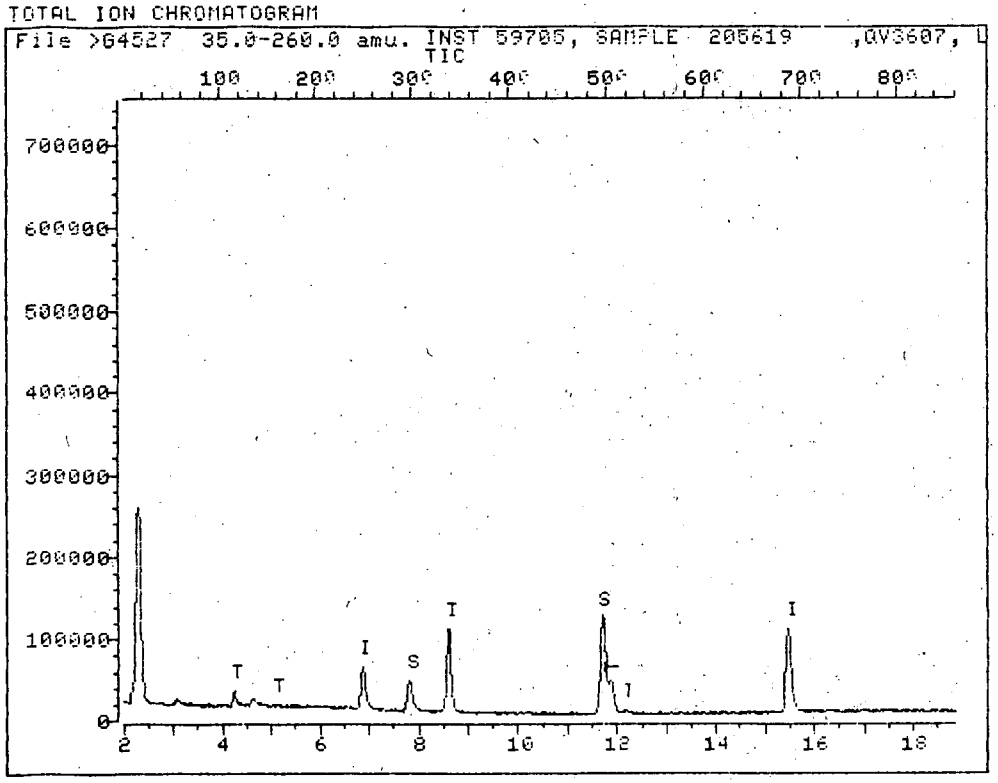
Operator ID: KS9934 Quant Rev: 7 Quant Time: 950206 14:[illegible]
Output File: ^G4527::QT Injected at: 950206 14:07
Data File: >G4527::G1 Dilution Factor: 1.000
Name: INST 59705, SAMPLE Instrument ID: INST 2G
Misc: 205619 ,QV3607, L,0.1,5, 0.53mm X 75M CAP COLUMN

ID File: ID624G::SC
Title: GENERAL IDFILE FOR INSTRUMENT G
Last Calibration: 950202 11:37 Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	I
1)	*Bromochloromethane	6.87	128.0	52872	30.00	UG/L	[illegible]
7)	~~Acrolein~~ KS 2/7/95	3.38	56.0	420	4.16	UG/L	49
10)	Acetone NT	4.24	43.0	69707	127.56	UG/L	1[illegible]
14)	~~t-Butyl methyl ether~~ KS 2/7/95	5.10	73.0	6067	1.33	UG/L	96
22)	1,2-Dichloroethane-d4	7.83	65.0	90646	32.34	UG/L	[illegible]
23)	~~1,2-Dichloroethane~~ KS 2/7/95	8.61	62.0	10768	3.50	UG/L	29
24)	~~2-Butanone~~	6.55	43.0	7400	8.38	UG/L	1[illegible]
25)	*1,4-Difluorobenzene	8.61	114.0	301828	30.00	UG/L	99
40)	*Chlorobenzene-d5	15.48	117.0	264814	30.00	UG/L	[illegible]
41)	~~4-Methyl-2-Pentanone~~ KS 2/7/95	12.16	43.0	4359	1.79	UG/L	64
45)	Toluene-d8	11.69	98.0	354027	31.64	UG/L	[illegible]
46)	Toluene	11.87	92.0	63695	9.87	UG/L	96
52)	Bromofluorobenzene	19.03	95.0	158963	29.25	UG/L	[illegible]

* Compound is ISTD

TOTAL ION CHROMATOGRAM



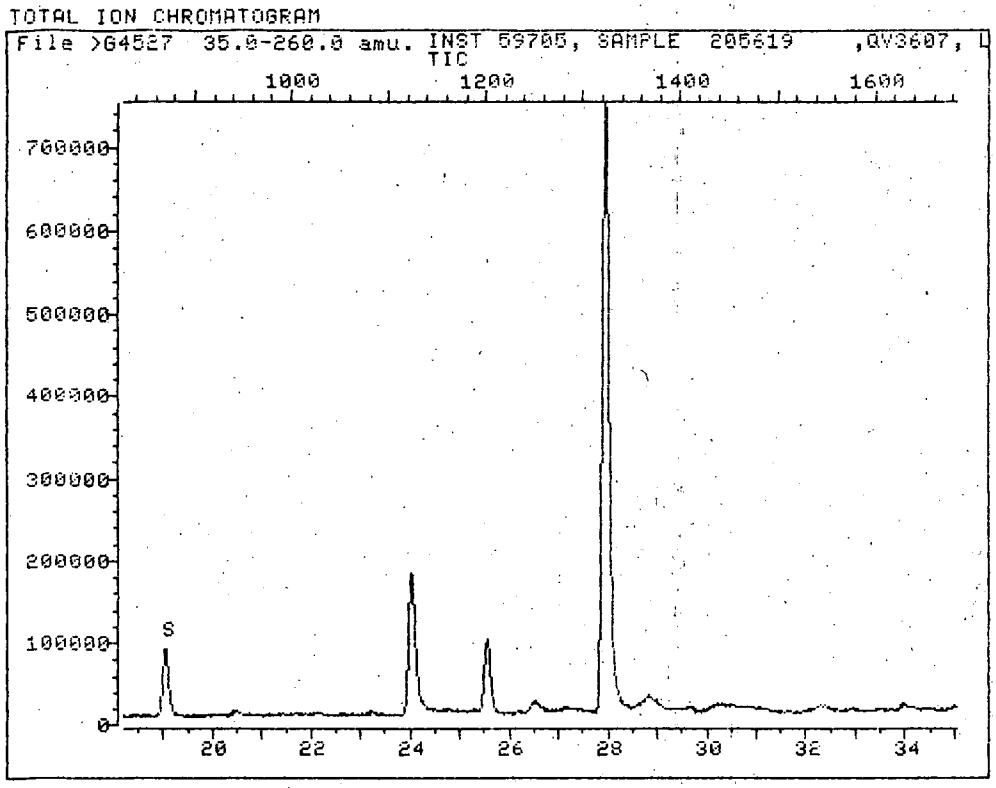
Data File: >G4527::G1 Quant Output File: ^G4527::QT
Name: INST 59705, SAMPLE Instrument ID: INST 2G
Misc: 205619 ,QV3607, L,0.1,5, 0.53mm X 75M CAP COLUMN

Id File: ID624G::SC
Title: GENERAL IDFILE FOR INSTRUMENT G
Last Calibration: 950202 11:37 Last Qcal Time: <non

Operator ID: KS9934
Quant Time : 950206 14:44
Injected at: 950206 14:07

Page 1 of 2

TOTAL ION CHROMATOGRAM



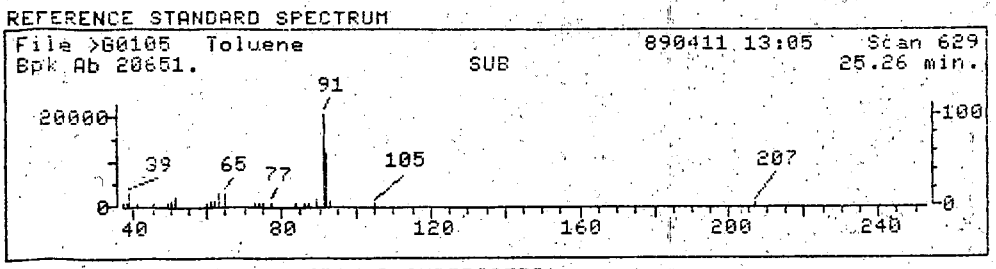
Data File: >G4527::G1 Quant Output File: ^G4527::QT
Name: INST 59705, SAMPLE Instrument ID: INST 2G
Misc: 205619 ,QV3607, L,0.1,5, 0.53mm X 75M CAP COLUMN

Id File: ID624G::SC
Title: GENERAL IDFILE FOR INSTRUMENT G
Last Calibration: 950202 11:37 Last Qcal Time: <none>

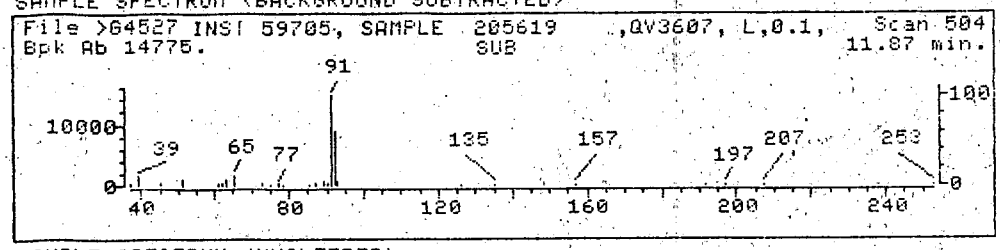
Operator ID: KS9934
Quant Time : 950206 14:43
Injected at: 950206 14:07

Page 2 of 2

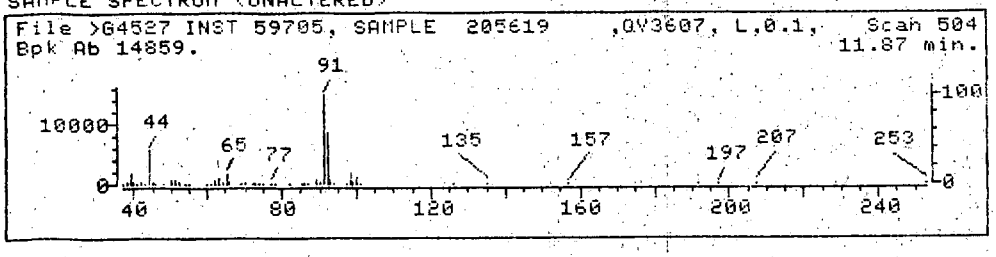
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >G4527::G1
Name: INST 59705, SAMPLE
Misc: 205619 ,QV3607, L,0.1,5, 0.53mm X 75M CAP COLUMN
Quant Time: 950206 14:43
Injected at: 950206 14:07
Last Qcal Time: <none>

Quant Output File: ^G4527::QT
Instrument ID: INST 2G
Quant ID File: ID624G:[illegible]
Last Calibration: 950202 11:37

Compound No : 46
Compound Name : Toluene
Scan Number : 504
Retention Time: 11.87 min
Quant Ion : 92-0
Area : 636[illegible]
Concentration : 9.87 UG/L
q-value : 96

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 Monthly Tel# 201-365-8507
Sample Date: 02/02/95
Sampled by: Customer
At Lab Date: 02/02/95
Sample Matrix: Aqueous

Lab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
205619	001 Grab	28	U	0.57	02/08/95	02/08/95

U = Not detected

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Richard Levine, President

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ROB

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 14, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 205619
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 Monthly Tel# 201-365-8507
Sample ID: 001 Grab
Sample matrix: LIQUID (AQUEOUS)
Sample date: 02/02/95
Sampled by: Customer
At lab date: 02/02/95

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Cyanide, Total	U	U	0.010

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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Richard Levine, President

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BON

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 9, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 | NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Lab Number: 205620
Data File: >I4588
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Tel# 201-365-8507
Sample ID: 001 Comp.
Sample date: 02/02/95
Extracted Date: 02/03/95
Sampled by: Customer
Analysis Date: 02/07/95
Column: 30m SPB-5
At lab date: 02/02/95
Dilution Factor: 50
Percent Moisture: 100%
Matrix: WATER
Init Sample vol= 1000ml
Final volume= 50ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	50
2-Nitrophenol	U	U	50
Phenol	U	U	90
2,4-Dimethylphenol	U	U	50
2,4-Dichlorophenol	U	U	50
2,4,6-Trichlorophenol	U	U	50
Pentachlorophenol	U	U	50
2,4-Dinitrophenol	U	U	180
4,6-Dinitro-2-methylphenol	U	U	50
4-Nitrophenol	U	U	50
4-Chloro-3-methylphenol	U	U	50

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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JIM

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 17, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Lab Number: 205620
Data File: >I4588
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Comp.
Sample date: 02/02/95
Extracted Date: 02/03/95
Sampled by: Customer
Analysis Date: 02/07/95
Column: 30m SPB-5
At lab date: 02/02/95
Dilution Factor: 50
Matrix: WATER

Init Sample vol= 1000ml Final volume= 50ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	50
bis(2-Chloroethyl)ether	U	U	50
1,3-Dichlorobenzene	U	U	120
1,4-Dichlorobenzene	U	U	120
1,2-Dichlorobenzene	U	U	120
bis(2-Chloroisopropyl)ether	U	U	60
N-Nitroso-di-n-propylamine	U	U	90
Hexachloroethane	U	U	150
Nitrobenzene	U	U	50
Isophorone	U	U	50
bis(2-Chloroethoxy)methane	U	U	50
1,2,4-Trichlorobenzene	U	U	120
Naphthalene	U	U	100
Hexachlorobutadiene	U	U	140
Hexachlorocyclopentadiene	U	U	75
2-Chloronaphthalene	U	U	100
Dimethyl phthalate	U	U	230
Acenaphthylene	U	U	75
2,6-Dinitrotoluene	U	U	50
Acenaphthene	U	U	95
2,4-Dinitrotoluene	U	U	50
Diethyl phthalate	U	U	120
4-Chlorophenyl phenyl ether	U	U	100
Fluorene	U	U	85
N-Nitrosodiphenylamine	U	U	50
1,2-Diphenylhydrazine (Azobenzene)	U	U	50
4-Bromophenyl phenyl ether	U	U	95
Hexachlorobenzene	U	U	95
Phenanthrene	U	U	45
Anthracene	U	U	40
Di-n-butylphthalate	U	U	130
Fluoranthene	U	U	30
Benzidine	U	U	50
Pyrene	U	U	25
Butyl benzylphthalate	U	U	60
3,3'-Dichlorobenzidine	U	U	50
Benzo(a)anthracene	U	U	25
Chrysene	U	U	25
bis(2-Ethylhexyl)phthalate	U	U	50
Di-n-octylphthalate	U	U	50
Benzo(b)fluoranthene	U	U	35

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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LTS

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 9, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Lab Number: 205620 Data File: >I4588
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly Tel# 201-365-8507
Sample ID: 001 Comp.
Sample date: 02/02/95 Extracted Date: 02/03/95
Sampled by: Customer Analysis Date: 02/07/95 Column: 30m SPB-5
At lab date: 02/02/95 Dilution Factor: 50
Percent Moisture: 100%
Matrix: WATER
Init Sample vol= 1000ml Final volume= 50ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Benzo(k)fluoranthene	U	U	35
Benzo(a)pyrene	U	U	25
Indeno(1,2,3-cd)pyrene	U	U	55
Dibenz(a,h)anthracene	U	U	25
Benzo(g,h,i)perylene	U	U	25

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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QUANT REPORT

Operator ID: GT0101 Quant Rev: 7 Quant Time: 950207 19:58
Output File: ^I4588::QT Injected at: 950207 19:23
Data File: >I4588::I1 Dilution Factor: 1.00000
Name: INST 59/07 SAMPLE Instrument ID: INST I
Misc: 205620 ,QC5228,L,1000,50,30m SPB-5 CAP COLUMN BTL#13

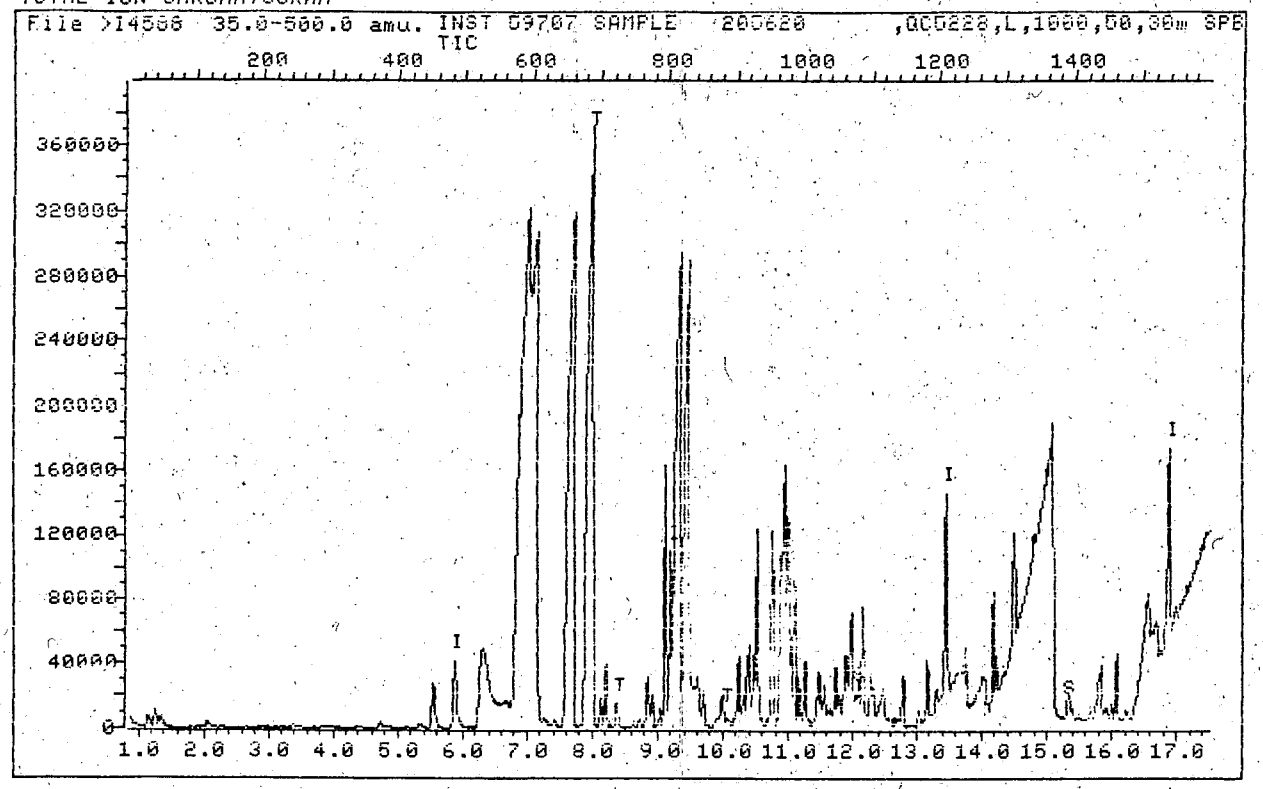
ID File: ID625I::SC
Title: CLP BNA IDFILE
Last Calibration: 950207 15:25 Last Qcal Date: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	5.88	152.0	21438	40.00	UG/ML	96
3)	2-Fluorophenol	2.89	112.0	540M	.778	UG/ML	
18)	*Naphthalene-d8	9.20	136.0	99763	40.00	UG/ML	89
19)	Nitrobenzene-d5	7.27	82.0	1672M	1.49	UG/ML	
21)	~~Isophorone~~	8.01	82.0	10735	4.11	UG/ML	100
22)	~~2-Nitrophenol~~	8.36	139.0	4675	7.24	UG/ML	39
24)	~~Benzoic acid~~	10.02	122.0	9343	17.48	UG/ML	93
33)	*Acenaphthene-d10	13.46	164.0	72015	40.00	UG/ML	86
38)	2-Fluorobiphenyl	12.05	172.0	4229	2.30	UG/ML	89
53)	2,4,6-Tribromophenol	15.31	330.0	2030	3.96	UG/ML	96
54)	*Phenanthrene-d10	16.88	188.0	127088	40.00	UG/ML	98
66)	*Chrysene-d12	23.15	240.0	149393	40.00	UG/ML	97
68)	Terphenyl-d14	20.90	244.0	6461	1.86	UG/ML	83
74)	*Perylene-d12	26.24	264.0	144331	40.00	UG/ML	95

NT 9/18/95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



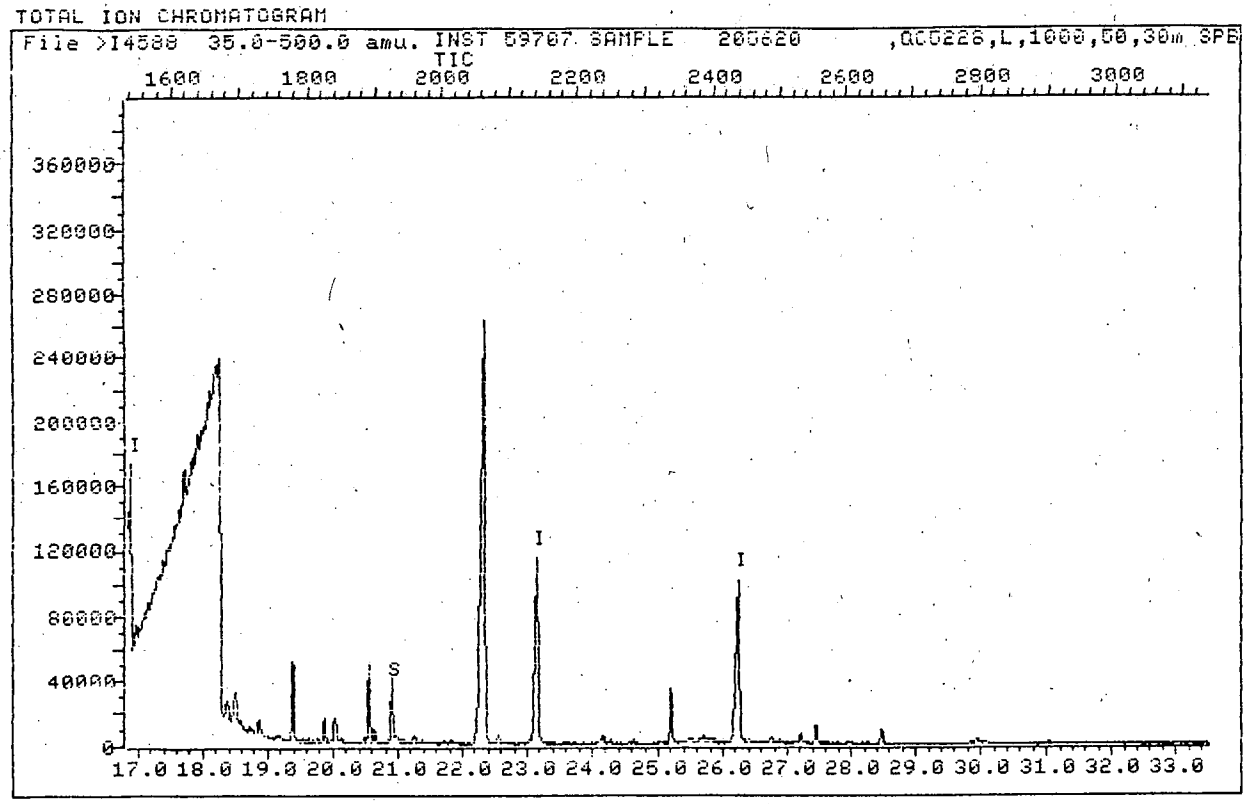
Data File: >I4588::I1 Quant Output File: ^I4588::QT
Name: INST 59707 SAMPLE Instrument ID: INST.I
Misc: 205620 ,QC5228,L,1000,50,30m SPB-5 CAP COLUMN BTL#13

Id File: ID0278I::SC
Title: CLP BNA IDFILE
Last Calibration: 950207 15:25 Last Qcal Time: <none>

Operator ID: GT0101
Quant Time : 950207 19:58
Injected at: 950207 19:23

Page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >I4588::I1 Quant Output File: ^I4588::QT
Name: INST 59707 SAMPLE Instrument ID: INST I
Misc: 205620 ,QC5228,L,1000,50,30m SPB-5 CAP COLUMN BTL#13

Id File: ID625I::SC
Title: CLP BNA IDFILE
Last Calibration: 950207 15:25 Last Qcal Time: <none>

Operator ID: GT0101
Quant Time : 950207 19:58
Injected at: 950207 15:23

Page 2 of 2

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 15, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 205620
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Comp.
Sample date: 02/02/95
Sampled by: Customer
At lab date: 02/02/95
Matrix: WATER

Percent Moisture: 100 %

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Lead	U	U	0.008	02/14/95
Zinc	0.038	U	0.020	02/13/95

U = Not Detected

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Richard Levine, President

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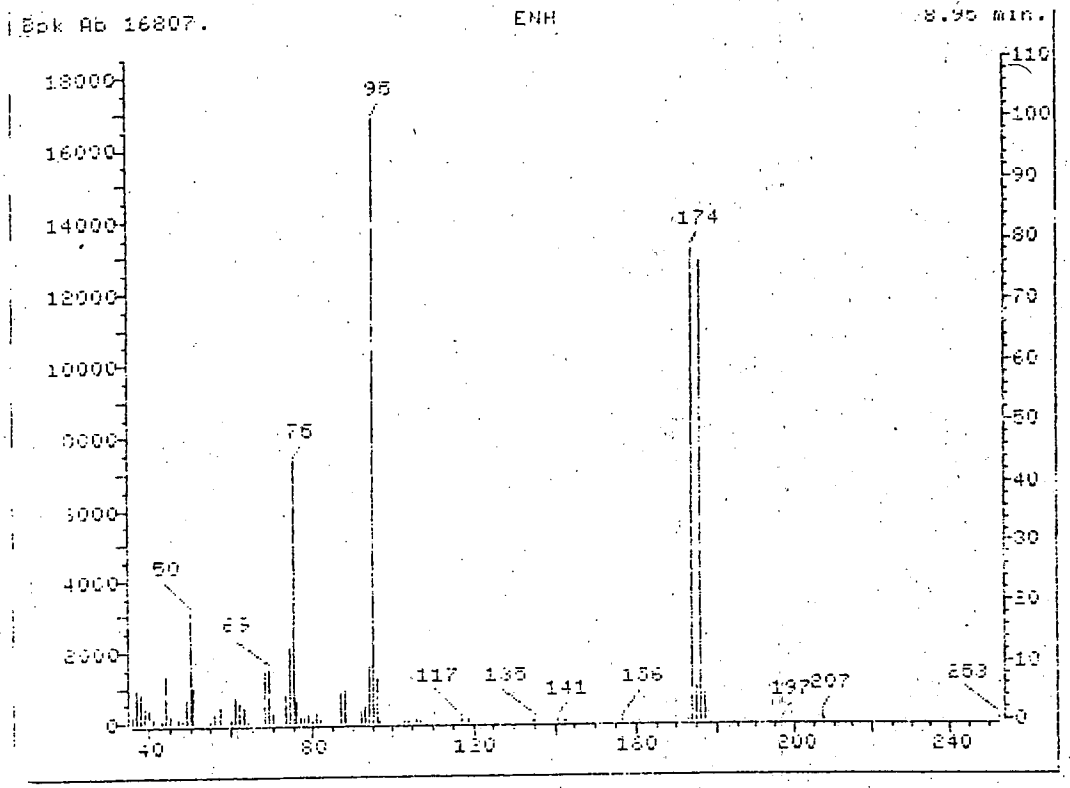
LYN 2/15



GC/MS PERFORMANCE STANDARD
Bromofluorobenzene (BFB)

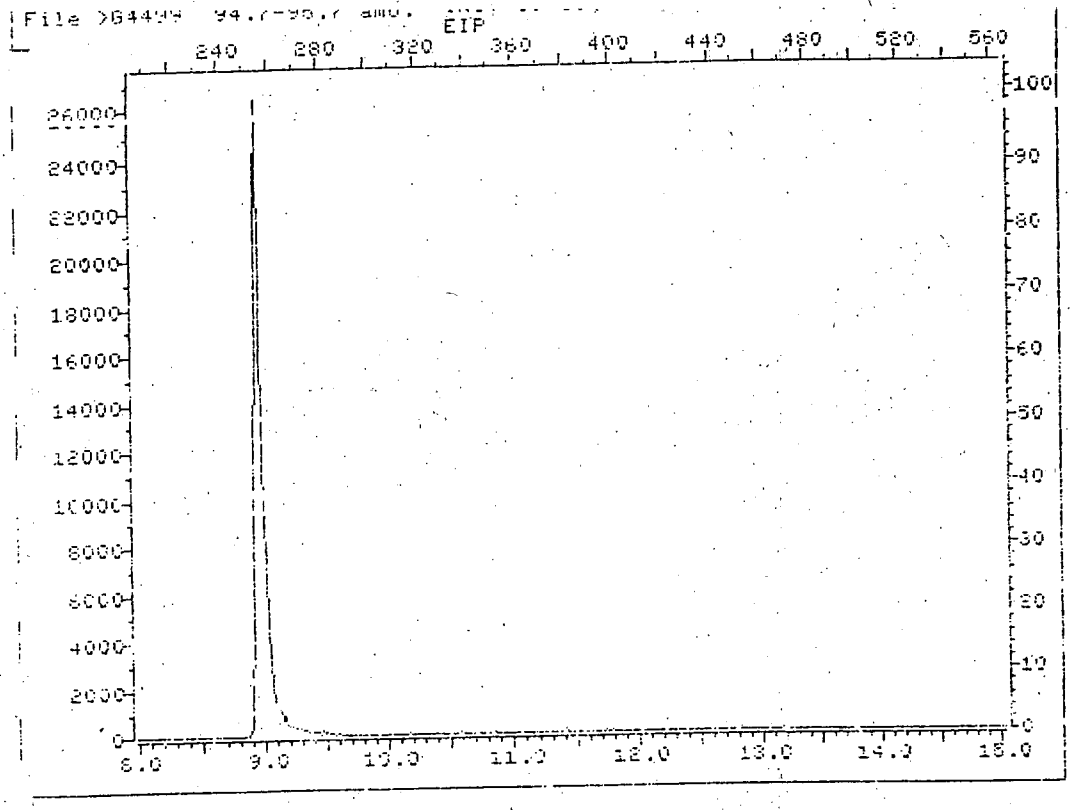
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	18.47	18.47	Ok
75	30-60% of mass 95	43.58	43.58	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.12	7.12	Ok
173	Less than 2% of mass 174	.12	.16	Ok
174	Greater than 50% of mass 95	78.24	78.24	Ok
175	5-9% of mass 174	5.53	7.07	Ok
176	95-101% of mass 174	76.10	97.27	Ok
177	5-9% of mass 176	4.55	5.98	Ok

Injection Date: 02/05/95
Injection Time: 17:11

Data File: >G4499
Scan: 255

Analyst's Signature: Suzanne M Lahl

Sample Numbers : 203619


EIP
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360
400
440
480
520
560
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
100
90
80
70
60
50
40
30
20
10
0
8.0
9.0
10.0
11.0
12.0
13.0
14.0
15.0

>G4499 INST 59705, BFB050 BFB050, 50ng MSCAL STD, 0.53mm X 75M CAP

255 NRM ENF

File: >G4499 Scan #: 255 Retn. time: 3.95

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.00	.979	54.65	.268	74.00	12.736	94.05	9.507	140.80	.269
37.10	5.457	55.05	.502	75.00	43.375	95.00	100.000	141.00	.071
38.10	4.754	56.05	1.324	76.00	5.596	96.10	7.122	142.90	.139
39.10	2.561	57.15	2.618	77.00	1.417	96.90	.161	156.45	.051
40.00	2.143	60.15	1.184	78.05	2.230	103.00	.094	173.00	.175
40.90	.685	61.00	4.059	78.85	1.555	103.90	.193	173.90	78.235
43.20	.574	61.90	5.424	79.85	.589	105.90	.305	174.90	5.533
44.05	8.017	63.00	2.508	80.95	1.520	107.00	.049	176.00	76.103
45.05	1.165	64.10	.113	81.85	.332	116.95	.339	177.00	4.549
46.95	1.055	68.00	8.420	86.95	4.847	118.85	.318	197.05	.052
48.05	.395	69.00	8.914	87.95	5.066	150.00	.255	207.00	1.084
49.05	3.702	70.00	1.564	92.05	1.790	154.80	.225	207.90	.099
50.05	18.467	73.00	4.545	93.05	2.391	155.10	.265	252.85	.396
50.95	5.671								

QUANT REPORT

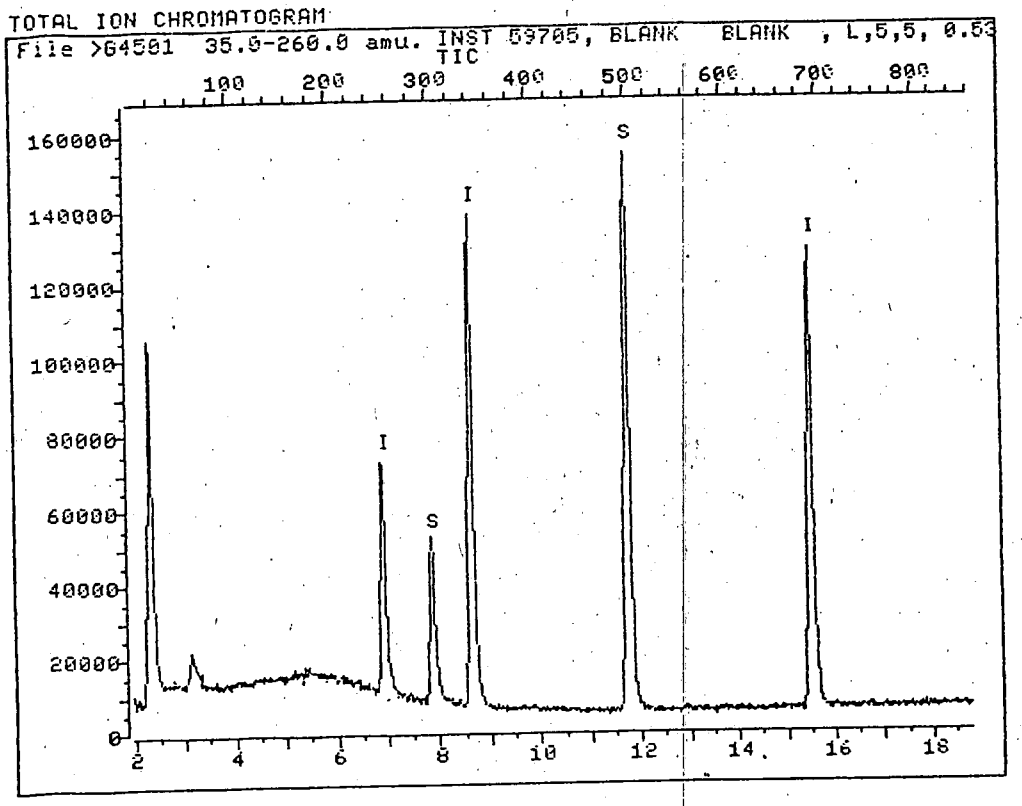
Operator ID: KS9934 Quant Rev: 7 Quant Time: 950205 19:[illegible]
Output File: ^G4501::QT Injected at: 950205 18:49
Data File: >G4501::G1 Dilution Factor: 1.000[illegible]
Name: INST 59705, BLANK Instrument ID: INST 2G
Misc: BLANK , L,5,5, 0.53mm X 75M CAP COLUMN

ID File: ID624G::SC
Title: GENERAL IDFILE FOR INSTRUMENT G
Last Calibration: 950202 11:37 Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	I
1)	*Bromochloromethane	6.89	128.0	65055	30.00	UG/L	[illegible]3
~~7)~~	~~Acrolein~~ MO 2/6/95	4.04	56.0	317	2.55	UG/L	48
22)	1,2-Dichloroethane-d4	7.85	65.0	107430	31.15	UG/L	[illegible]7
25)	*1,4-Difluorobenzene	8.63	114.0	373693	30.00	UG/L	96
40)	*Chlorobenzene-d5	15.50	117.0	311225	30.00	UG/L	[illegible]2
45)	Toluene-d8	11.73	98.0	431026	32.78	UG/L	98
52)	Bromofluorobenzene	19.07	95.0	190625	29.85	UG/L	5

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >G4501::G1
Name: INST 59705, BLANK
Misc: BLANK , L,5,5, 0.53mm X 75M CAP COLUMN

Quant Output File: ^G4501::QT
Instrument ID: INST 2G

Id File: ID624G::SC
Title: GENERAL IDFILE FOR INSTRUMENT G
Last Calibration: 950202 11:37

Last Qcal Time: <none>

Operator ID: KS9934
Quant Time : 950205 19:25
Injected at: 950205 18:49

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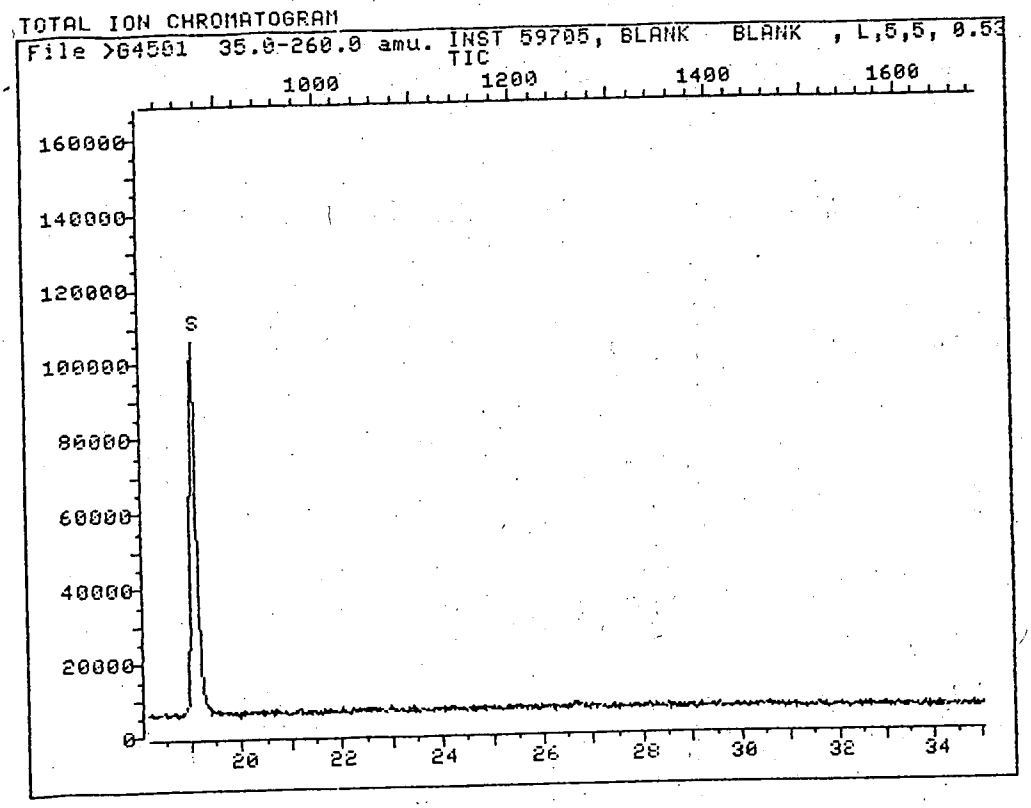

Data File: >G4501::G1 Quant Output File: ^G4501::QT
Name: INST 59705, BLANK Instrument ID: INST 2G
Misc: BLANK , L,5,5, 0.53mm X 75M CAP COLUMN

Id File: ID624G::SC
Title: GENERAL IDFILE FOR INSTRUMENT G
Last Calibration: 950202 11:37 Last Qcal Time: <none>

Operator ID: KS9934
Quant Time : 950205 19:25
Injected at: 950205 18:49

Page 2 of 2

Title: GENERAL IDFILE FOR INSTRUMENT G
Calibrated: 950202 10:40

QV5607
205619

Compound	Files: >G4403 RF 5.00	>G4405 RF 20.00	>G4406 RF 50.00	>G4407 RF 100.00	>G4408 RF 200.00	$\overline{RRT}$	$\overline{RF}$	%RSD	
Dichlorodifluoromethane	2.13832	2.29351	2.30613	2.28776	2.38996	.363	2.28314	3.981	(Conc=400.0,200.0,100.0,40.0,20.0)
Chloromethane	2.06549	2.90505	2.20867	1.75516	1.83166	.402	2.15321	21.256	
Bromomethane	1.04888	1.02419	.97225	.92110	.83844	.460	.96097	8.777	
Vinyl Chloride	1.83134	1.64995	1.69236	1.50718	1.48798	.405	1.63376	8.657	
Chloroethane	1.37162	1.08066	1.08415	1.04662	.99469	.477	1.11555	13.230	
Acrolein	.06122	.05674	.05570	.05440	.05830	.591	.05727	4.596	(Conc=25.0,100.0,250.0,500.0,1000.
Acrylonitrile	.20622	.25144	.24443	.23813	.23731	.743	.23551	7.358	(Conc=25.0,100.0,250.0,500.0,1000.
Methylene Chloride	1.42059	1.18540	1.26054	1.39616	1.27191	.696	1.30692	7.558	
Acetone	.38466	.33088	.29416	.26364	.27705	.622	.31008	15.713	
Carbon Disulfide	4.15311	4.58451	4.56638	4.32568	4.42101	.646	4.41014	4.056	
Trichlorofluoromethane	2.07593	1.86049	1.77723	1.68880	1.57564	.515	1.79562	10.527	
t-Butyl alcohol	.59281	.57949	.53996	.43266	.50255	.859	.52949	12.211	(Conc=12.5,50.0,125.0,250.0,500.0)
t-Butyl methyl ether	2.81086	2.68007	2.58592	2.37074	2.48421	.746	2.58636	6.587	
Diisopropyl ether	5.57728	5.57039	5.12232	4.73860	4.12578	.839	5.02687	12.192	(Conc=12.5,50.0,125.0,250.0,500.0)
1,1-Dichloroethene	1.43934	1.50561	1.37090	1.30719	1.32428	.605	1.38946	5.950	
1,1-Dichloroethane	2.96880	3.21774	2.86585	2.55952	2.64931	.826	2.85224	9.180	
trans-1,2-Dichloroethene	3.06242	3.20343	2.91681	2.78125	2.81761	.605	2.95630	5.950	(Conc=2.35,9.40,23.5,47.0,94.0)
~~cis-1,2-Dichloroethene~~									~~(Conc=2.65,10.6,26.5,53.0,106.0)~~
Chloroform	2.72778	2.96545	2.82718	2.67431	2.67790	1.021	2.77452	4.443	21/019
1,4-Dioxane	.00333	.00346	.00194	.00331	.00354	1.438	.00297	22.927	(Conc=250.0,1000.0,2500.0,5000.0,1
1,2-Dichloroethane-d4	1.65152	1.68484	1.65711	1.61845	1.34008	1.139	1.59040	8.923	(Conc=30.0,30.0,30.0,30.0,30.0)
1,2-Dichloroethane	1.66142	1.93561	1.85331	1.62509	1.65203	1.159	1.74549	8.004	
2-Butanone	.28835	.59073	.62281	.48541	.51937	.955	.50133	26.139	
1,1,1-Trichloroethane	.37720	.37527	.38773	.36992	.34741	.844	.37150	4.021	
Carbon Tetrachloride	.24214	.27750	.29875	.27415	.28048	.876	.27460	7.465	
Vinyl Acetate	1.11036	1.11262	1.02368	.88283	.97624	.671	1.02115	9.480	
Bromodichloromethane	.33000	.35203	.41737	.40459	.39742	1.180	.38028	9.827	
1,2-Dichloropropane	.30247	.33516	.31012	.30725	.31345	1.111	.31369	4.037	
cis-1,3-Dichloropropene	.44500	.48470	.47683	.44574	.43240	1.294	.45693	4.938	
Trichloroethene	.31963	.34133	.34017	.32826	.31004	1.057	.32789	4.088	
Dibromochloromethane	.20478	.22266	.25143	.24439	.24409	1.619	.23347	8.279	
Ethylene dibromide	.18521	.22486	.21431	.19728	.19469	1.648	.20327	7.871	(Conc=12.5,50.0,125.0,250.0,500.0.
1,1,2-Trichloroethane	.16835	.22582	.24252	.23535	.21585	1.503	.21758	13.463	
Benzene	.90077	.90256	.91983	.88631	.86045	.919	.89398	2.483	
trans-1,3-Dichloropropene	.44500	.48470	.47683	.44574	.43240	1.294	.45693	4.938	
2-Chloroethylvinylether	.15673	.15530	.17424	.17712	.16003	1.259	.16469	6.215	
Bromoform	.06139	.13452	.15239	.16346	.16832	2.091	.13602	32.124	
4-Methyl-2-Pentanone	.21940	.26512	.31321	.27825	.28170	.746	.27514	12.421	
2-Hexanone	.06157	.17536	.17784	.18198	.19142	.883	.15763	34.287	

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

Title: GENERAL IDFILE FOR INSTRUMENT G
Calibrated: 950202 10:40

Compound	Files: >G4403 RF 5.00	>G4405 RF 20.00	>G4406 RF 50.00	>G4407 RF 100.00	>G4408 RF 200.00	$\overline{RRT}$	$\overline{RF}$	% RSD	
Tetrachloroethene	.39939	.36503	.35687	.33762	.31813	.853	.35541	8.597	
1,1,2,2-Tetrachloroethane	.35751	.42992	.45174	.43456	.43213	1.273	.42117	8.694	
Toluene-d8	1.32311	1.27410	1.22532	1.26108	1.25453	.758	1.26763	2.823	(Conc=30.0,30.0,30.0,30.0,30.0)
Toluene	.77548	.77255	.72775	.69287	.68673	.768	.73108	5.775	
Chlorobenzene	.87711	.88220	.87174	.82862	.80428	1.005	.85279	4.042	
Ethylbenzene	.48329	.49076	.46915	.44707	.40767	1.028	.45959	7.279	
Styrene	1.00229	1.01971	.93516	.89415	.85125	1.131	.94051	7.562	
p&m Xylene	.32419	.58481	.54959	.50775	.47683	1.052	.48864	20.596	(Conc=20.0,40.0,100.0,200.0,400.0)
o-Xylene	.65492	.65451	.59707	.54996	.50442	1.126	.59214	11.108	
Bromofluorobenzene	.60196	.59907	.60949	.61300	.65446	1.231	.61560	3.645	(Conc=30.0,30.0,30.0,30.0,30.0)
1,3-Dichlorobenzene	.45963	.89507	.84844	.78238	.76690	1.456	.75008	22.703	
1,2-Dichlorobenzene	.72749	.73314	.73951	.69689	.65379	1.555	.71016	5.000	
1,4-Dichlorobenzene	.82610	.86217	.90884	.76877	.72097	1.477	.79735	6.819	
~~Naphthalene~~									

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

Title: GENERAL IDFILE FOR INSTRUMENT G
Calibrated: 950202 10:40

QN3607
205619

Check Standard Data File: >G4500
Injection Time: 950205 17:54

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
Dichlorodifluoromethane	2.28314	.57242	74.75	Average	(Conc=40.00)
Chloromethane	2.15321	1.78694	17.01	Average	
Bromomethane	.96097	.23781	75.25	Average	
Vinyl Chloride	1.63376	.66679	59.19	Average	
Chloroethane	1.11555	.65467	41.31	Average	
Acrolein	.05727	.03085	52.17	Average	(Conc=100.00)
Acrylonitrile	.23551	.19072	19.02	Average	(Conc=100.00)
Methylene Chloride	1.30692	1.27005	2.82	Average	
Acetone	.51008	.25845	16.65	Average	
Carbon Disulfide	4.41014	3.98457	9.65	Average	
Trichlorofluoromethane	1.77562	1.72621	3.87	Average	
t-Butyl alcohol	.52949	.52736	.40	Average	(Conc=50.00)
t-Butyl methyl ether	2.58636	2.54694	1.52	Average	
Diisopropyl ether	5.02687	4.85307	3.82	Average	(Conc=50.00)
1,1-Dichloroethene	1.38946	1.36946	1.44	Average	
1,1-Dichloroethane	2.85224	2.47706	13.13	Average	
trans-1,2-Dichloroethene	2.95630	2.91374	1.44	Average	(Conc=5.40)
~~cis-1,2-Dichloroethene~~				~~Average~~	~~(Conc=10.00)~~
Chloroform	2.77452	2.43185	12.35	Average	
1,4-Dioxane	.00297	.00212	28.55	Average	(Conc=1000.00)
1,2-Dichloroethane-d4	1.57940	1.58783	.05	Average	(Conc=50.00)
1,2-Dichloroethane	1.74549	1.45943	16.39	Average	
2-Butanone	.50133	.45252	9.74	Average	
1,1,1-Trichloroethane	.37150	.33695	9.30	Average	
Carbon Tetrachloride	.27460	.23316	15.09	Average	
Vinyl Acetate	1.02115	.94627	7.33	Average	
Bromodichloromethane	.38028	.32508	14.52	Average	
1,2-Dichloropropane	.31369	.27755	11.52	Average	
cis-1,3-Dichloropropene	.45693	.38279	16.23	Average	
Trichloroethene	.32789	.30837	5.95	Average	
Dibromochloromethane	.23347	.18085	22.54	Average	
Ethylene dibromide	.20327	.15916	21.70	Average	(Conc=50.00)
1,1,2-Trichloroethane	.21958	.18451	15.20	Average	
Benzene	.89398	.77178	13.67	Average	
trans-1,3-Dichloropropene	.45693	.38279	16.23	Average	
2-Chloroethylvinylether	.16467	.11514	30.02	Average	
Bromoform	.13502	.11057	18.67	Average	
4-Methyl-2-Pentanone	.27514	.19651	28.63	Average	
2-Hexanone	.15703	.11364	26.64	Average	
Tetrachloroethene	.35541	.30028	15.82	Average	

RF - Response Factor from daily standard file at 20.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve.

Title: GENERAL IDFILE FOR INSTRUMENT G
Calibrated: 950202 10:40

Check Standard Data File: >G4500
Injection Time: 950205 17:54

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
1,1,2,2-Tetrachloroethane	.42117	.30805	26.85	Average	
Toluene-d8	1.26763	1.32047	4.17	Average	(Conc=50.00)
Toluene	.73108	.63232	13.51	Average	
Chlorobenzene	.85279	.71017	16.73	Average	
Ethylbenzene	.45953	.39029	15.08	Average	
Styrene	.94051	.80315	14.60	Average	
p,m-Xylene	.48864	.49402	1.10	Average	(Conc=40.00)
o-Xylene	.59214	.52218	11.80	Average	
Bromofluorobenzene	.61560	.60682	1.42	Average	(Conc=50.00)
1,3-Dichlorobenzene	.75003	.68715	8.39	Average	
1,2-Dichlorobenzene	.71016	.55241	22.21	Average	
1,4-Dichlorobenzene	.79755	.64150	19.57	Average	
~~Naphthalene~~				~~Average~~	

RF - Response Factor from daily standard file at 20.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

Page 2 of 2

INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 10, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

SURROGATE RECOVERY SUMMARY
Aqueous Volatile

Batch number: QV3607

Sample Number	Data File	% Recovery 1,2 DCE-d4	% Recovery Tol-d8	% Recovery BFB	# Outside QC Limits
BLANK	>G4501	104	109	100	0
205619	>G4527	108	105	98	0
BLANK	>G4531	109	105	97	0
205614 S	>G4535	106	103	98	0
BLANK S	>G4549	102	96	90	0

	Compound	Percent Recovery	Concentration Added
QC Limits:	1,2-Dichloroethane-d4	82-113	30ppb
	Toluene-d8	88-114	30ppb
	Bromofluorobenzene	88-117	30ppb

* Values outside QC Limits.

S= Spike sample
SD= Spike duplicate sample
DL= Dilution
RE= Indicates a reanalysis of the sample confirming matrix interference.
NA= Not Applicable

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MEG

INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 10, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

QUALITY ASSURANCE DATA
MATRIX SPIKE RECOVERY
Volatiles - Water

Spiked sample: 205614
QC Batch number: QV3607

For samples: 205619

Compound	Spike % Recovery	QC Limits	Concentration Added (ug/L)	Matrix Spike Concentration (ug/L)
Chloromethane	83	0-273	20	16.61
Bromomethane	135	0-242	20	26.92
Vinyl Chloride	114	0-251	20	22.76
Chloroethane	108	14-230	20	21.69
Methylene Chloride	105	0-221	20	21.02
Acetone	92	ND-ND	20	18.47
Carbon Disulfide	93	ND-ND	20	18.57
Trichlorofluoromethane	116	17-181	20	23.25
1,1-Dichloroethene	113	0-234	20	22.52
1,1-Dichloroethane	102	59-155	20	59.80
1,2-Dichloroethene (trans)	54	54-156	20	10.87
Chloroform	101	51-138	20	29.76
1,2-Dichloroethane ***	104	49-155	20	20.73
1,1,1-Trichloroethane ***	112	52-162	20	22.33
Carbon Tetrachloride ***	118	70-140	20	23.64
Vinyl Acetate	108	ND-ND	20	21.66
Bromodichloromethane	133	35-155	20	26.65
1,2-Dichloropropane	114	0-210	20	22.81
cis-1,3-Dichloropropene	99	0-227	20	19.89
Trichloroethene	103	71-157	20	21.82
Dibromochloromethane	107	53-149	20	21.39
1,1,2-Trichloroethane	113	52-150	20	22.58
Benzene	104	37-151	20	20.72
trans-1,3-Dichloropropene	99	17-183	20	19.89
2-Chloroethylvinylether	76	0-305	20	15.24
Bromoform	105	45-169	20	21.02
4-Methyl-2-Pentanone	103	ND-ND	20	20.52
2-Hexanone	74	ND-ND	20	14.74
Tetrachloroethene	98	64-148	20	19.66
1,1,2,2-Tetrachloroethane	89	46-157	20	17.86
Toluene	99	47-150	20	19.87
Chlorobenzene	97	37-160	20	19.43
Ethylbenzene	98	37-162	20	19.65
Styrene	94	ND-ND	20	18.77
Xylene (total)	106	ND-ND	60	63.81
1,3-Dichlorobenzene	110	59-156	20	21.90
1,2-Dichlorobenzene	98	18-190	20	19.68
1,4-Dichlorobenzene	96	18-190	20	19.24
Acrolein	75	ND-ND	100	74.81
Acrylonitrile	104	ND-ND	100	103.69
Dichlorodifluoromethane	69	ND-ND	40	27.71

** Spike recovery does not meet quality control limits due to a high concentration of this parameter in the spiked sample.
*** Recovery is determined from Blank Spike.

ND = Not Determined.

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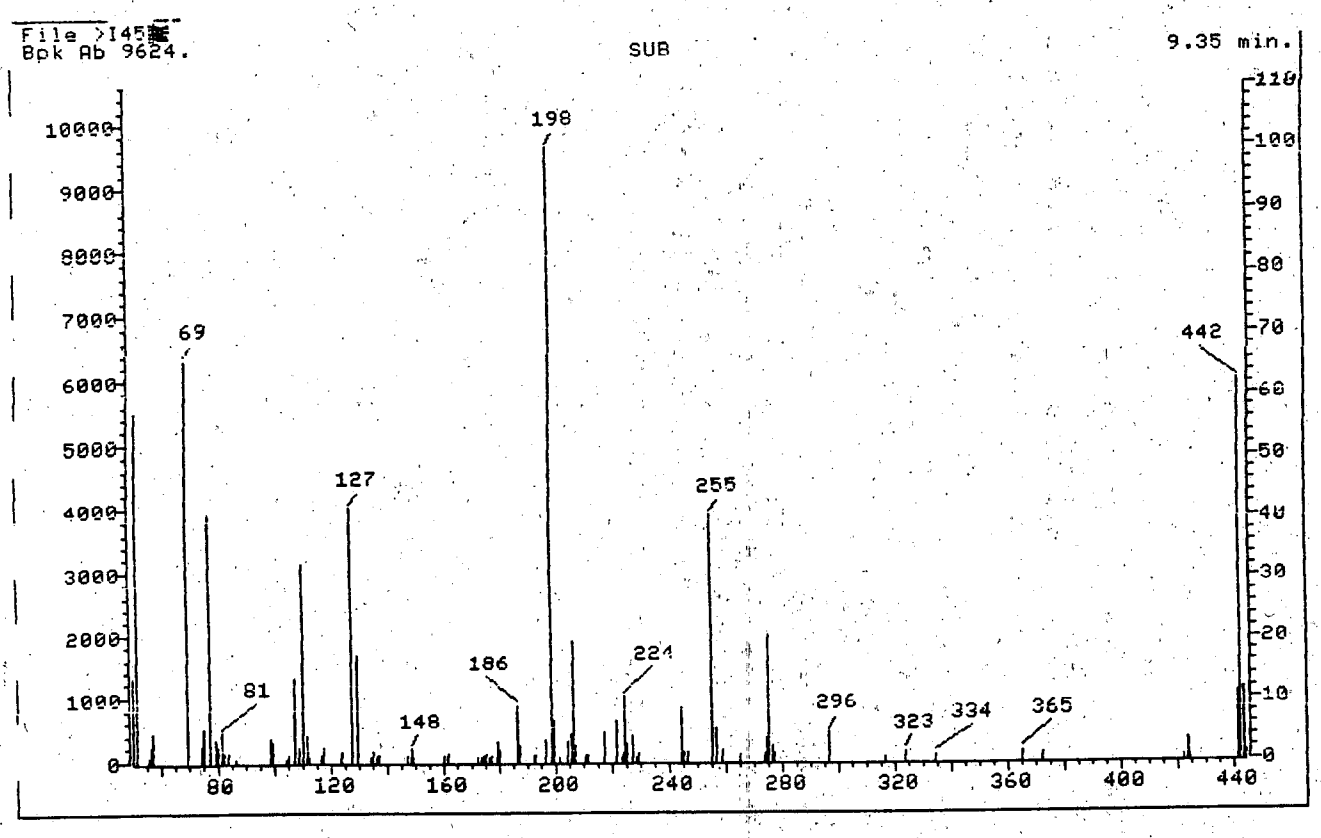
MEG

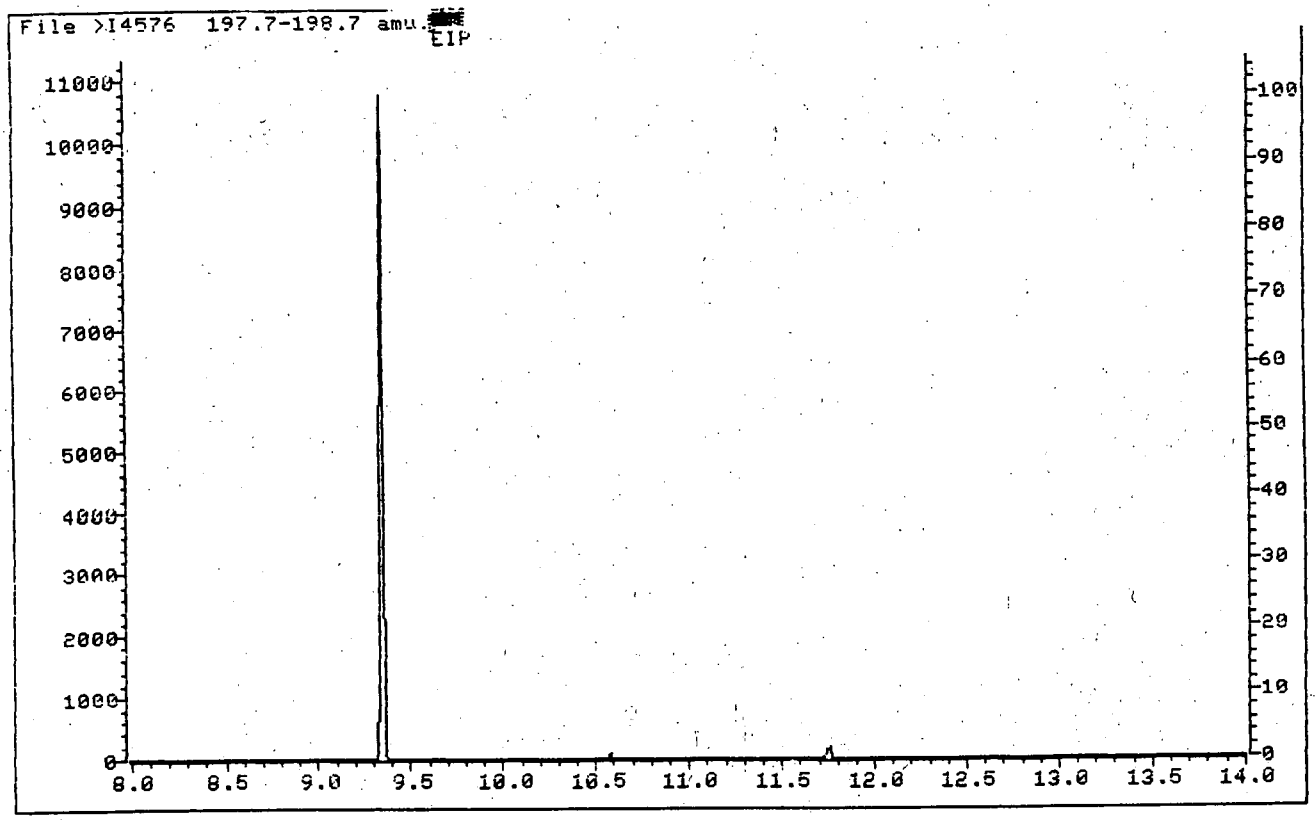


GC/MS PERFORMANCE STANDARD
Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	57.06	57.06	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	65.89	65.89	Ok
70	Less than 2% of mass 69	0.00	0.00	Ok
127	40-60% of mass 198	41.77	41.77	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.82	6.82	Ok
275	10-30% of mass 198	20.77	20.77	Ok
365	Greater than 1% of mass 198	1.56	1.56	Ok
441	0-100% of mass 443	11.10	95.10	Ok
442	Greater than 40% of mass 198	62.30	62.30	Ok
443	17-23% of mass 442	11.67	18.73	Ok

Injection Date: 02/07/95 Data File: >I4576 Analysts
Injection Time: 11:13 Scan: 256 Signature: [signature]

Associated
Sample Numbers: 205620


File >I4576 197.7-198.7 amu.
EIP
11000
10000
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13.0
13.5
14.0

>I4576 INST 59707 DFTPP050 MS CAL STD ,30m SPR-5 CAP COLUMN
256 SUB NRM

File: >I4576 Scan #: 256 Retn. time: 9.35

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
[illegible]	[illegible]	108.05	2.213	173.20	.457	207.15	2.837	265.05	.873
51.05	57.055	110.05	32.751	174.10	1.008	210.15	.571	273.10	1.351
55.15	.665	111.05	4.104	175.00	1.320	210.35	.623	274.10	3.678
56.05	2.016	111.95	.571	176.00	.571	210.85	.779	275.10	20.771
57.05	4.374	116.10	.883	177.10	.852	211.15	.914	276.10	2.442
69.05	65.887	117.10	2.244	179.00	3.128	217.05	4.873	277.10	1.164
74.05	2.535	123.10	1.413	180.10	1.974	220.95	6.588	296.10	4.655
75.05	5.497	127.10	41.771	186.10	9.050	223.15	1.226	316.10	.436
77.05	40.815	129.10	17.321	187.00	2.618	224.15	10.526	323.10	1.590
79.05	3.522	134.00	.696	191.95	.894	225.05	2.691	334.00	.935
80.05	2.151	135.00	1.600	192.95	.883	227.05	4.011	364.95	1.559
81.05	4.738	136.10	.748	196.05	3.325	228.05	.571	372.05	1.039
82.05	1.278	137.00	.966	198.05	100.000	228.95	1.029	421.90	.436
83.05	1.164	147.10	.894	199.05	6.816	244.05	8.676	423.10	3.439
86.05	.301	148.10	2.016	201.15	.551	245.05	1.424	424.00	.623
98.05	3.709	148.90	.499	201.45	.447	246.05	1.631	441.30	11.097
98.95	3.013	160.00	.769	204.15	3.169	255.05	40.461	442.10	62.303
103.95	.135	161.10	1.049	205.15	4.562	256.05	5.549	443.10	11.669
105.05	1.008	172.10	.551	206.05	19.836	258.05	1.933	444.20	1.081
107.05	13.529								

QUANT REPORT

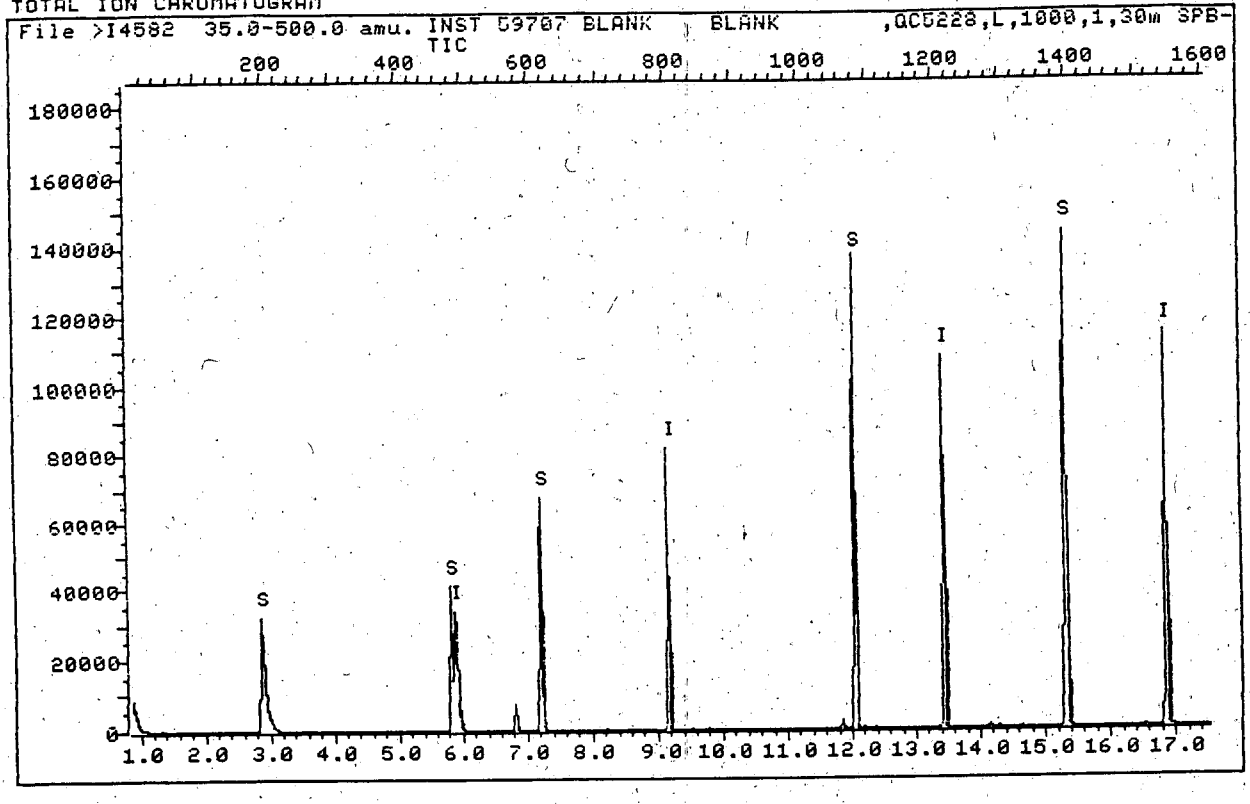
Operator ID: GT0101 Quant Rev: 7 Quant Time: 950207 15:43
Output File: ^I4582::QT Injected at: 950207 15:08
Data File: >I4582::I1 Dilution Factor: 1.00000
Name: INST 59707 BLANK Instrument ID: INST I
Misc: BLANK ;QC5228,L,1000,1,30m SPB-5 CAP COLUMN BTL# 7

ID File: ID625I::SC
Title: CLP BNA IDFILE
Last Calibration: 950207 15:25 Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	5.87	152.0	14526	40.00	UG/ML	99
3)	2-Fluorophenol	2.84	112.0	40277	85.65	UG/ML	97
4)	Phenol-d6	5.80	99.0	43440	55.53	UG/ML	88
18)	*Naphthalene-d8	9.17	136.0	70603	40.00	UG/ML	89
19)	Nitrobenzene-d5	7.22	82.0	51206	64.33	UG/ML	92
33)	*Acenaphthene-d10	13.43	164.0	53014	40.00	UG/ML	89
[illegible]	[illegible]	12.84	172.0	100777	74.45	UG/ML	86
53)	2,4,6-Tribromophenol	15.32	330.0	52631	139.39	UG/ML	96
54)	*Phenanthrene-d10	16.86	188.0	98940	40.00	UG/ML	98
66)	*Chrysene-d12	23.12	240.0	117056	40.00	UG/ML	96
68)	Terphenyl-d14	20.94	244.0	191656	70.59	UG/ML	87
74)	*Perylene-d12	26.22	264.0	117996	40.00	UG/ML	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM

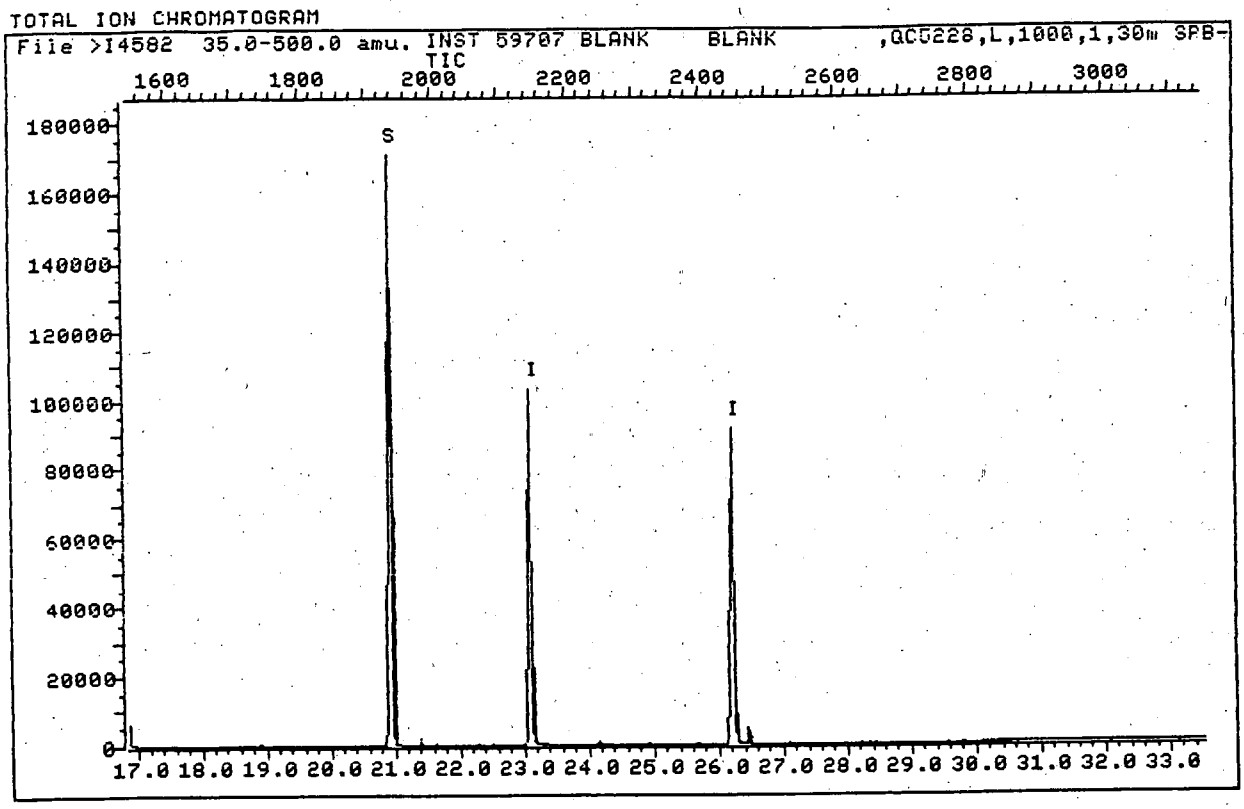


Data File: >I4582::I1 Quant Output File: ^I4582::QT
Name: INST 59707 BLANK Instrument ID: INST I
Misc: BLANK ,QC5228,L,1000,1,30m SPB-5 CAP COLUMN BTL# 7

Id File: ID625I::SC
Title: CLP BNA IDFILE
Last Calibration: 950207 15:25 Last Qcal Time: <none>

Operator ID: GT0101
Quant Time : 950207 15:43
Injected at: 950207 15:08

Page 1 of 2



Data File: >I4582::I1 Quant Output File: ^I4582::QT
Name: INST 59707 BLANK Instrument ID: INST I
Misc: BLANK ,QC5228,L,1000,1,30m SPB-5 CAP COLUMN BTL# 7

Id File: ID625I::SC
Title: CLP BNA IDFILE
Last Calibration: 950207 15:25 Last Qcal Time: <none>

Operator ID: GT0101
Quant Time : 950207 15:43
Injected at: 950207 15:08

Page 2 of 2

QC 5228
205620

Initial Calibration Data
HSL Compounds

Case No:

Instrument ID: I 7

Contractor: INDUSTRIAL CORROSION

Calibration Date: 02/07/95

Contract No: MANAGEMENT

Minimum $\overline{RF}$ for SPCC is

Maximum % RSD for CCC is 35%

Laboratory ID:	>I4579	>I4581	>I4578	>I4580					
Compound	RF 20.00	RF 50.00	RF 160.00	RF 5.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
N-Nitrosodimethylamine	1.17441	1.16741	1.36767	1.01827	.179	1.18194	12.119	*	
2-Fluorophenol	1.24938	1.28462	1.58191	1.06376	.487	1.29492	16.561		
Phenol-d6	2.20405	2.05988	2.24910	2.10333	.992	2.15409	4.063		
Phenol	2.25948	2.11653	2.24696	2.04815	.997	2.16778	4.735	*	
Aniline	2.30939	2.11884	2.35373	2.26884	.850	2.26270	4.507		
2-Chlorophenol	1.64611	1.57093	1.75210	1.51869	.945	1.62196	6.246	*	
bis(2-Chloroethyl)ether	1.84376	1.74594	2.04935	1.69486	.884	1.83348	8.542	*	
1,3-Dichlorobenzene	1.62060	1.53535	1.68424	1.55741	.983	1.59940	4.196	*	
1,4-Dichlorobenzene	1.68630	1.64351	1.68996	1.62033	1.008	1.66003	2.039	*	
1,2-Dichlorobenzene	1.65340	1.56626	1.56929	1.62565	1.087	1.60365	2.679	*	
Benzyl alcohol	1.29697	1.21940	1.48375	1.13249	1.117	1.28315	11.664		
bis(2-Chloroisopropyl)ether	3.16612	2.92231	3.47765	2.94543	1.183	3.12788	8.241	*	
2-Methylphenol	1.72815	1.56708	1.52501	1.59952	1.250	1.60494	5.460		
Hexachloroethane	.72246	.69733	.64654	.65433	1.254	.68016	5.289	*	
N-Nitroso-di-n-propylamine	2.26832	1.96072	2.20162	2.06219	1.238	2.12321	6.511	*	
4-Methylphenol	2.02374	1.84915	2.12515	1.82359	1.323	1.95541	7.361		
Nitrobenzene-d5	.43975	.42838	.54203	.39362	.787	.45095	14.151		
Nitrobenzene	.60526	.56935	.51621	.41870	.792	.52738	15.390	*	
Isophorone	1.05926	.99477	1.15704	.98280	.885	1.04847	7.610	*	
2-Nitrophenol	.25809	.26745	.28753	.22237	.894	.25886	10.527	*	
2,4-Dimethylphenol	.44283	.41971	.47191	.42521	.980	.43992	5.342	*	
bis(2-Chloroethoxy)methane	.61859	.57979	.64400	.57936	.964	.60544	5.222	*	
2,4-Dichlorophenol	.35792	.33260	.30708	.30790	.996	.32638	7.394	*	
Benzoic acid	.12587	.18471	.33236	-	1.088	.21431	49.638		
1,2,4-Trichlorobenzene	.34767	.33203	.35298	.33988	.996	.34314	2.668	*	
Naphthalene	1.21058	1.12562	1.13711	1.16688	1.005	1.16005	3.268	*	
4-Chloroaniline	.59048	.54505	.58074	.56915	1.029	.57136	3.428		
Hexachlorobutadiene	.20398	.19055	.19815	.18262	1.093	.19383	4.786	*	
4-Chloro-3-methylphenol	.51811	.47380	.50600	.47468	1.220	.49315	4.540	*	
2-Methylnaphthalene	.89240	.80098	.81860	.83983	1.197	.83795	4.729		

RF - Response Factor (Subscript is amount in UG/ML)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: I 7

Contractor: INDUSTRIAL CORROSION Calibration Date: 02/07/95

Contract No: MANAGEMENT

Minimum $\overline{RF}$ for SPCC is Maximum % RSD for CCC is 35%

Laboratory ID:	>I4579	>I4581	>I4578	>I4580					
Compound	RF 20.00	RF 50.00	RF 160.00	RF 5.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
Hexachlorocyclopentadiene	.15627	.19506	.26537	.05924	.874	.16899	50.878	*	10
2,4,6-Trichlorophenol	.42094	.39801	.37823	.37054	.886	.39193	5.750	*	
2,4,5-Trichlorophenol	.41992	.39859	.28579	.36967	.896	.36849	15.972		
2-Fluorobiphenyl	1.14756	.98995	.73650	1.21118	.897	1.02130	20.701		
2-Chloronaphthalene	1.12363	1.01577	.82474	1.16765	.899	1.03295	14.789	*	
2-Nitroaniline	.56338	.57366	.55934	.49558	.917	.53549	5.983		
Acenaphthylene	2.06521	1.86391	1.67195	2.05355	.970	1.91365	9.703	*	
Dimethylphthalate	1.62998	1.45351	1.39347	1.66236	.977	1.53483	8.571	*	
2,6-Dinitrotoluene	.39763	.37864	.35433	.35508	.961	.37142	5.600	*	
3-Nitroaniline	.49227	.45344	.45113	.45328	.991	.46253	4.293		
Acenaphthene	1.25543	1.13458	1.03771	1.27265	1.006	1.17509	9.385	*	
2,4-Dinitrophenol	.07399	.12524	.24109	-	1.007	.14678	58.322	*	10
Dibenzofuran	1.83743	1.65428	1.41251	1.87768	1.038	1.69548	12.517		
4-Nitrophenol	.16802	.17833	.21928	.08905	1.070	.16367	33.268	*	
2,4-Dinitrotoluene	.60509	.55177	.48998	.51735	1.034	.54105	9.170	*	
Fluorene	1.51115	1.34611	1.23733	1.59557	1.097	1.42254	11.330	*	
4-Chlorophenyl-phenylether	.71273	.65696	.58687	.75629	1.110	.67821	10.796	*	
Diethylphthalate	1.66100	1.47701	1.45778	1.77181	1.115	1.59190	9.481	*	
4-Nitroaniline	.50275	.48801	.48404	.52538	1.103	.50005	3.742		
2,4,6-Tribromophenol	.30157	.27264	.28030	.28508	1.140	.28489	4.296		
4,6-Dinitro-2-methylphenol	.14093	.15776	.19467	.04757	.889	.13523	46.291	*	10
N-Nitrosodiphenylamine (1)	.59511	.55051	.48658	.58678	.902	.55475	8.904	*	
Azobenzene	1.00341	1.02022	1.07052	.96252	.907	1.01417	4.408		
4-Bromophenyl-phenylether	.25033	.23205	.23243	.24443	.949	.23981	3.782	*	
Hexachlorobenzene	.33252	.30316	.31538	.33252	.966	.32089	4.462	*	
Pentachlorophenol	.16274	.17775	.22292	.05570	.995	.15478	45.761	*	10
Phenanthrene	1.26772	1.16207	1.35011	1.29952	1.004	1.26985	6.257	*	
Anthracene	1.32759	1.19793	1.28790	1.33323	1.009	1.28666	4.858	*	
Di-n-butylphthalate	1.86406	1.68245	1.62180	1.85995	1.122	1.75707	7.040	*	
Fluoranthene	1.51744	1.35707	1.36584	1.54105	1.169	1.44535	6.740	*	

RF - Response Factor (Subscript is amount in UG/ML)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: I 7

Contractor: INDUSTRIAL CORROSION Calibration Date: 02/07/95

Contract No: MANAGEMENT

Minimum $\overline{RF}$ for SPCC is Maximum % RSD for CCC is 35%

Laboratory ID:	>I4579	>I4581	>I4578	>I4580					
Compound	RF 20.00	RF 50.00	RF 160.00	RF 5.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
Benzidine	.09243	.08688	.12928	.19830	1.188	.12672	40.478	*	10
Pyrene	1.45212	1.39326	1.42109	1.33733	.872	1.40095	3.480	*	
Terphenyl-d14	.96845	.92463	.92656	.89139	.903	.92776	3.403		
Butylbenzylphthalate	.84685	.80602	.82670	.79938	.965	.81974	2.622	*	
Benzo(a)anthracene	1.39227	1.31274	1.47475	1.25531	.998	1.35877	7.033	*	
3,3'-Dichlorobenzidine	.50568	.50313	.50185	.46351	1.001	.49354	4.069	*	
Chrysene	1.25691	1.22843	.96009	1.24432	1.003	1.17244	12.115	*	
bis(2-Ethylhexyl)phthalate	1.19696	1.12219	1.09026	1.10565	1.044	1.12877	4.190	*	
Di-n-octylphthalate	1.77424	1.42021	1.06947	1.84691	.974	1.52771	23.425	*	
Benzo(b)fluoranthene	1.29473	1.36336	.95917	1.16110	.972	1.19459	14.901	*	
Benzo(k)fluoranthene	1.22139	.82752	1.04753	1.30827	.975	1.10118	19.272	*	
Benzo(a)pyrene	1.22744	1.15141	1.08002	1.18477	.995	1.16091	5.363	*	
Indeno(1,2,3-cd)pyrene	1.22232	1.16276	.97751	1.06939	1.076	1.10800	9.691	*	
Dibenz(a,h)anthracene	1.03005	.97027	.83579	.90433	1.079	.93511	8.960	*	
Benzo(g,h,i)perylene	.95514	.90986	.75711	.84339	1.093	.86637	9.937	*	
Pyridine	-	-	-	-	-	-	-		
Carbazole	-	-	-	-	-	-	-		

RF - Response Factor (Subscript is amount in UG/ML)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 9, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

SURROGATE RECOVERY SUMMARY
Aqueous Acid Fraction

Batch number: QC5228

Sample Number	Data File	% Recovery 2-Fphenol	% Recovery Phenol-d6	% Recovery 2,4,6	# Outside QC Limits
205614 S	>I4569	46	30	62	0
BLANK S	>I4583	48	32	77	0
BLANK	>I4582	43	28	70	0
205620	>I4588	19	**	99	NA

	Compound	Percent Recovery	Concentration Added
QC Limits:	2-Fluorophenol	16-90	200ppb
	Phenol-d6	10-86	200ppb
	2,4,6-Tribromophenol	44-119	200ppb

** Surrogates are diluted out.
* Values outside QC Limits.

S= Spike sample
SD= Spike duplicate sample
DL= Dilution
RE= Indicates a reanalysis of the sample confirming matrix interference.
NA= Not Applicable

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INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 9, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

SURROGATE RECOVERY SUMMARY
Aqueous Base/Neutral

Batch number: QC5228

Sample Number	Data File	% Recovery NBZ-d5	% Recovery 2-Fbiphenyl	% Recovery Ter-d14	# Outside QC Limits
205614 S	>I4569	58	65	77	0
BLANK S	>I4583	75	75	84	0
BLANK	>I4582	64	74	71	0
205620	>I4588	75	115	93	0

	Compound	Percent Recovery	Concentration Added
QC Limits:	Nitrobenzene-d5	44-101	100ppb
	2-Fluorobiphenyl	38-126	100ppb
	Terphenyl-d14	38-143	100ppb

** Surrogates are diluted out.
* Values outside QC Limits.

S= Spike sample
SD= Spike duplicate sample
DL= Dilution
RE= Indicates a reanalysis of the sample confirming matrix interference.
NA= Not Applicable

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INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 9, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

QUALITY ASSURANCE DATA
MATRIX SPIKE RECOVERY
Acid Fraction - Water

Spiked sample: 205614
QC Batch number: QC5228

For samples: 205620

Compound	Spike % Recovery	QC Limits	Concentration Added (ug/L)	Matrix Spike Concentration (ug/L)
Phenol	32	5-112	40	12.82
-Chlorophenol	73	23-134	40	29.36
-Nitrophenol	66	29-182	40	26.42
2,4-Dimethylphenol	62	42-144	40	24.72
2,4-Dichlorophenol	76	39-135	40	30.20
-Chloro-3-methylphenol	72	22-147	40	28.83
,4,6-Trichlorophenol	73	37-144	40	29.28
,4-Dinitrophenol ***	80	D-191	40	32.05
4-Nitrophenol ***	31	D-132	40	12.57
4,6-Dinitro-2-methylphenol ***	78	D-181	40	31.18
entachlorophenol ***	80	14-176	40	31.88

** Spike recovery does not meet quality control limits due to a high concentration of this parameter in the spiked sample.
** Recovery is determined from Blank Spike.

ND = Not Determined.

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INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 9, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

QUALITY ASSURANCE DATA
MATRIX SPIKE RECOVERY
Base/Neutral - Water

Spiked sample: 205614
QC Batch number: QC5228

For samples: 205620

Compound	Spike % Recovery	QC Limits	Concentration Added (ug/L)	Matrix Spike Concentration (ug/L)
N-Nitrosodimethylamine	39	ND-ND	40	15.66
bis(2-Chloroethyl)ether	60	12-158	40	24.19
,3-Dichlorobenzene	65	D-172	40	25.83
,4-Dichlorobenzene	65	20-124	40	25.80
,2-Dichlorobenzene	68	32-129	40	27.27
bis(2-Chloroisopropyl)ether	55	36-166	40	22.18
N-Nitroso-di-n-propylamine	75	D-230	40	29.90
Hexachloroethane	59	40-113	40	23.68
Nitrobenzene	50	35-180	40	20.12
Isophorone	60	21-196	40	24.00
bis(2-Chloroethoxy)methane	64	33-184	40	25.68
,2,4-Trichlorobenzene	68	44-142	40	27.03
Naphthalene	65	21-133	40	25.90
-Chloroaniline	69	ND-ND	40	27.40
Hexachlorobutadiene	67	24-116	40	26.81
Hexachlorocyclopentadiene ***	56	ND-ND	40	22.50
-Chloronaphthalene	67	60-118	40	26.72
Dimethylphthalate	49	D-112	40	19.59
Acenaphthylene	71	33-145	40	28.42
2,6-Dinitrotoluene	75	50-158	40	30.01
cenaphthene	68	47-145	40	27.36
,4-Dinitrotoluene	71	39-139	40	28.26
Diethylphthalate	64	D-114	40	25.77
4-Chlorophenyl-phenylether	75	25-158	40	29.99
Fluorene	71	59-121	40	28.27
-Nitrosodiphenylamine	79	ND-ND	40	31.53
zobenzene	73	ND-ND	40	29.01
4-Bromophenyl-phenylether	78	53-127	40	31.27
Hexachlorobenzene	77	D-152	40	30.79
henanthrene	68	54-120	40	27.09
nthracene	76	27-133	40	30.24
Di-n-butylphthalate	71	1-118	40	28.34
Fluoranthene	71	26-137	40	28.38
Benzidine	33	ND-ND	40	13.18
yrene	78	52-115	40	31.24
utylbenzylphthalate	68	D-152	40	27.34
3,3'-Dichlorobenzidine	49	D-262	40	19.56
Benzo(a)anthracene	71	33-143	40	28.38
hrysene	80	17-168	40	32.08
is(2-Ethylhexyl)phthalate	77	8-158	40	30.93
Di-n-octylphthalate	140	4-146	40	55.91
Benzo(b)fluoranthene	96	24-159	40	38.56
Benzo(k)fluoranthene	88	11-162	40	35.25
enzo(a)pyrene	78	17-163	40	31.03
ndeno(1,2,3-cd)pyrene	47	D-171	40	18.89
Dibenz(a,h)anthracene	45	D-227	40	18.08
Benzo(g,h,i)perylene	43	D-219	40	17.21

** Spike recovery does not meet quality control limits due to a high concentration of this parameter in the spiked sample.
*** Recovery is determined from Blank Spike.

ND = Not Determined.

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JIM

Randolph, NJ 07869
201-584-0330
FEBRUARY 15, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

METALS QUALITY ASSURANCE DATA - SPIKE RECOVERIES

Lab Number: 205614
Matrix: Liquid (Aqueous)

Results in mg/l (ppm).

This report serves as Quality Assurance Data for the following lab numbers:
205193 205538

205612 205614 205620 205621 205629

Parameter	Sample Result	Spike Added	Spike Sample Result	Spike Recovery %	Spike Contr. Limits %	Minimum Detection Limit	Method Blank Analysis
Antimony	U	0.500	0.497	99	75-125	0.050	U
Arsenic	U	0.040	0.041	102	75-125	0.004	U
Beryllium	U	0.050	0.048	96	75-125	0.005	U
Cadmium	U	0.050	0.052	104	75-125	0.005	U
Chromium	U	0.200	0.192	96	75-125	0.010	U
Copper	U	0.250	0.259	104	75-125	0.025	U
Iron	0.175	1.00	1.16	98	75-125	0.050	U
Lead	U	0.040	0.047	118	75-125	0.004	U
Mercury	U	0.002	0.0019	95	75-125	0.0005	U
Nickel	U	0.500	0.499	100	75-125	0.025	U
Selenium	U	0.040	0.038	95	75-125	0.004	U
Silver	U	0.050	0.048	96	75-125	0.010	U
Sodium	14.6	5.00	19.3	94	75-125	1.00	U
Thallium	U	0.040	0.041	102	75-125	0.004	U
Zinc	U	0.500	0.490	98	75-125	0.020	U

U = Not Detected
NC = Non-calculable RPD due to value(s) less than detection limit
RPD = Relative percent difference

INDUSTRIAL CORROSION MANAGEMENT, INC.
Richard Levine, President

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LYN 2/15

Randolph, NJ 07869
201-584-0330
FEBRUARY 15, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

METALS QUALITY ASSURANCE DATA - DUPLICATES

Lab Number: 205614
Matrix: Liquid (Aqueous)

Results in mg/l (ppm).

This report serves as Quality Assurance Data for the following lab numbers:
205193 205538

205612 205614 205620 205621 205629

	Sample	Duplicate	RPD	Dupl. Contr. Limits	Minimum Detection	Method Blank
Antimony	U	U	NC	NC	0.050	U
Arsenic	U	U	NC	NC	0.004	U
Beryllium	U	U	NC	NC	0.005	U
Cadmium	U	U	NC	NC	0.005	U
Chromium	U	U	NC	NC	0.010	U
Copper	U	U	NC	NC	0.025	U
Iron	0.175	0.178	2	+-28	0.050	U
Lead	U	U	NC	NC	0.004	U
Mercury	U	U	NC	NC	0.0005	U
Nickel	U	U	NC	NC	0.025	U
Selenium	U	U	NC	NC	0.004	U
Silver	U	U	NC	NC	0.010	U
Sodium	14.6	14.6	0	+-20	1.00	U
Thallium	U	U	NC	NC	0.004	U
Zinc	U	U	NC	NC	0.020	U

U = Not Detected
NC = Non-calculable RPD due to value(s) less than detection limit
RPD = Relative percent difference

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Richard Levine, President

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 8, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

QUALITY ASSURANCE DATA - SPIKE RECOVERIES

Sample spiked: BLANK
Matrix type: AQUEOUS
Batch Number: 3295 S

Parameter	Result mg/l	Amount Added mg/l	Conc. Matrix Spike mg/l	% Spike Rec.	QC Limit % Spike Recovery	Minimum Detection Limit mg/l	Method Blank Analysis mg/l
Petroleum Hydrocarbons	U	5.0	5.0	100	75-125	0.5	U

* = Values are outside QC Limits
U = Not detected
< = Less than
> = Greater than
NA= Not Applicable

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1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 8, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

QUALITY ASSURANCE DATA - DUPLICATES

Sample duplicated: BLANKS
Matrix type: AQUEOUS
Batch Number: 3295 D

Parameter	Result mg/l	Duplicate Result mg/l	RPD	QC Limits RPD	Minimum Detection Limit mg/l	Method Blank Analysis mg/l
Petroleum Hydrocarbons	5.0	5.0	0	+/-20%	0.5	U

* = Values are outside QC Limits
U = Not detected
NC= Non calculable RPD due to value(s) less than the detection limit
< = Less than
> = Greater than
NA= Not Applicable

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 14, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

QUALITY ASSURANCE DATA - DUPLICATES

Matrix type: AQUEOUS
Batch Number: 3276D

Parameter	Result mg/l	Duplicate Result mg/l	RPD	QC Limits RPD	Minimum Detection Limit mg/l	Method Blank Analysis mg/l
Cyanide, Total	0.088	0.095	8	+/-20%	0.010	U

* = Values are outside QC Limits
U = Not detected
NC= Non calculable RPD due to value(s) less than the detection limit
< = Less than
> = Greater than
NA= Not Applicable

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3/95

PASSAIC VALLEY SEWERAGE COMMISSIONERS

SEWER CONNECTION PERMIT

PERMIT # 03401023

(Please use the Permit Number on any correspondence with PVSC)
In compliance with the provisions of the Federal Water Pollution Control Act, its amendments, the Clean Water Act and the Rules and Regulations of the Passaic Valley Sewerage Commissioners:

Givaudan - Roure Corporation

(herein, after referred to as the Permittee)

is authorized to discharge from a facility located at

125 Delawanna Avenue

Clifton, New Jersey 07014

to the Passaic Valley Sewerage Commissioners Treatment Works in accordance with discharge limitations, monitoring requirements and other conditions set forth herein.

EFFECTIVE DATE 03/17/91

EXPIRATION DATE 03/17/96

Rev: 03/92
Rev: 03/95

PASSAIC VALLEY SEWERAGE COMMISSIONERS

BY:
EXECUTIVE DIRECTOR

CONDITIONS

A. GENERAL PROHIBITIONS

1. No person shall discharge or deposit or cause or allow to be discharged or deposited into the treatment works or public sewer any waste which contains the following:

   a. **EXPLOSIVE MIXTURES**

   Pollutants which create a fire or explosion hazard to the treatment works, collection system or to the operation of the system. Prohibited materials include, but are not limited to, gasoline, kerosene, naphta, benzene, toluene, xylene, ethers, etc.

   b. **CORROSIVE WASTES**

   Any waste which will cause corrosion or deterioration of the treatment works. All wastes must have a pH not less than 5. Unless otherwise stated in the Sewer Connection Permit, all waste shall have a pH not more than 10.5 . Prohibited materials include, but are not limited to, acids, sulfides, concentrated chloride or flouride compounds, etc.

   c. **SOLID OR VISCOUS WASTES**

   Solid or viscous wastes which would cause obstruction to the flow in a sewer, or otherwise interfere with the proper operation of the treatment works. Prohibited materials include, but are not limited to, uncomminuted garbage, bones, hides or fleshings, cinders, sand, stove or marble dust, glass, etc.

   d. **OILS AND GREASE**

   (1) any industrial wastes containing floatable fats, wax, grease or oils.

   (2) any industrial wastes containing more than 100 mg/l of petroleum hydrocarbons.

   e. **NOXIOUS MATERIAL**

   Noxious or malodorous solids, liquids or gases, which, either singly or by interaction with other wastes, are capable of creating a public nuisance or hazard to life, or are or may be sufficient to prevent entry into a sewer for its maintenance and repair.

   f. **RADIOACTIVE WASTES**

   Radioactive wastes or isotopes of such half life or concentration that they do not comply with regulations or orders issued by the appropriate authority having control over their use and which will, or may cause damage or hazards to the treatment works or personnel operating the system.

g. **EXCESSIVE DISCHARGE RATE**

Industrial wastes discharged in a slug of such volume or strength so as to cause a treatment process upset and subsequent loss of treatment efficiency.

h. **HEAT**

(1) any discharge in excess of 150^0 F (65^0C)

(2) Heat in amounts which would inhibit biological activity in the PVSC treatment works resulting in a treatment process upset and subsequent loss of treatment efficiency, but in no case shall heat be introduced into the PVSC treatment works in such quantities that the temperature of the influent waters at the treatment plant exceed 40^0C (104^0F).

i. **UNPOLLUTED WATERS**

Any unpolluted water including, but not limited to, cooling water or uncontaminated storm water, which will increase the hydraulic load on the treatment system, except as approved by PVSC.

j. **WATER**

Any water added for the purpose of diluting wastes which would otherwise exceed applicable maximum concentration limits.

2. No person shall discharge or convey, or permit to be discharged or conveyed, to the treatment works any wastes containing pollutants of such character or quantity that will:

a. Not be susceptible to treatment or interfere with the process or efficiency of the treatment system.

b. Violate pretreatment standards. As pretreatment standards for toxic or other hazardous pollutants are promulgated by USEPA for a given industrial category, all industrial users within that category must immediately conform to the USEPA timetable as well as any numeric limitations imposed by USEPA. In addition, an industrial user shall comply with any more stringent standards as determined by PVSC or other agency.

c. Cause the PVSC treatment plant to violate its NJPDES permit, applicable receiving water standards, permit regulating sludge which is produced during treatment or any other permit issued to PVSC.

B. **INSTALLATION OF SAMPLERS**

The permittee shall install a 24 hour composite sampler on Outlets #1, #2 acceptable to PVSC with attachments for affixing seals,

which shall be maintained in proper working order at all times. The installed samplers shall draw a sample, over each operating day, which shall be representative of plant waste.

A one quart or one liter aliquot shall be set aside by (9:00 am Outlet #1) each operating day and refrigerated. A PVSC representative may pick up this sample during the day. Any sample not picked up by PVSC may be discarded at the end of that day.

Permittee shall insure that the sample is maintained between 1^0C-4^0C during and after sample collection.

C. EFFLUENT LIMITATIONS, MONITORING AND COMPLIANCE REQUIREMENTS

1. During the period beginning (03/17/91) and lasting through (03/17/96), the permittee is authorized to discharge from Outlet(s) number(ed) (03401021-04626-0451). Such discharge shall be monitored by the permittee as specified below. Permittee's # for Outlet Designated #1 - River Road. Volume to be determined from flowmeter readings. Sample Point is Located in Building #11, Sample Shed on the Southwest Corner of Property.

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
		DAILY MAX	MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD
BOD (0310)	XXXXX	XXXXX	Daily	24 hr. comp.	Monthly
TSS (0530)	XXXXX	XXXXX	Daily	24 hr. comp.	Monthly
pH (9000)	XXXXX	5 to 10.5	Continuous	Recorder	*
LEL ***	XXXXX	XXXXX	Continuous	Recorder	**
Volume	XXXXX	XXXXX	XXXXX	XXXXX	Monthly

* Permittee shall submit pH Recorder Charts to PVSC Twice/Month.

** Permittee to store LEL Recorder Charts and have available for review by PVSC personnel on demand.

*** Regulated as defined in Appendix B, Pretreatment Limitation #2 of PVSC Rules and Regulations.

Rev: 03/92
Rev: 03/95

C. EFFLUENT LIMITATIONS, MONITORING AND COMPLIANCE REQUIREMENTS

1. During the period beginning (03/17/91) and lasting through (03/17/96), the permittee is authorized to discharge from Outlet(s) number(ed) (03401022-04626-0451). Such discharge shall be monitored by the permittee as specified below. Permittee's # for Outlet Designated #2 - Building 103. Volume to be determined from Purchased Water Meter Readings Less 5% credit for evaporation. Sample Point is Located in the Men's Locker Room in Building 103.

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
			MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD
BOD (0310)	XXXXX	XXXXX	Monthly	24 hr. comp.	Monthly
TSS (0530)	XXXXX	XXXXX	Monthly	24 hr. comp.	Monthly
Volume	XXXXX	XXXXX	XXXXX	XXXXX	Monthly

Rev: 03/92
Rev: 03/95

C. EFFLUENT LIMITATIONS, MONITORING AND COMPLIANCE REQUIREMENTS

1. During the period beginning (03/17/91) and lasting through (03/17/96), the permittee is authorized to discharge from Outlet(s) number(ed) (03401023-04626-0451). Such discharge shall be monitored by the permittee as specified below. Permittee's # for Outlet Designated #3 - Buildings 72 and 105. Volume to be determined from Purchased Water Meter Readings from Building 72, Plus Flowmeter Readings in Building 105. Sanitary waste only to be discharged from this Outlet.

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
			MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD
BOD (0310)	XXXXX	XXXXX	N/A *	N/A	XXXXX
TSS (0530)	XXXXX	XXXXX	N/A *	N/A	XXXXX
Volume	XXXXX	XXXXX	XXXXX	XXXXX	Monthly

* Concentration for User Charge to be determined from Residential Strength Standards.

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C. EFFLUENT LIMITATIONS, MONITORING AND COMPLIANCE REQUIREMENTS

1. During the period beginning (03/17/91) and lasting through (03/17/96) the permittee is authorized to discharge from Outlet(s) number(ed) (03401021-04626-0451). Such discharge shall be monitored by the permittee as specified below. Permittee's # for Outlet #1, (River Road). Volume to be determined from Flowmeter Readings. Sample Point is Located in Building #11, Sample Shed, on the Southwest Corner of Property. Permittee to submit volume in accordance with PVSC Pretreatment Discharge Monitoring Report Form MR-1.

40 CFR 414.85, Subpart H.

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
	All units are in Pounds per Day				
	MONTHLY AVERAGE	DAILY MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD
Volume *	XXXXX	XXXXX	XXXXX	XXXXX	Monthly
(a)	(a)	(a)	Monthly	(a)	Monthly

* Regulated Volume = GPD for 365 Production Days during 1988 through 1992 Production Years.

(a) See Page 10 of 16,, Section 2E of this Permit for Effluent Characteristics, Daily and Monthly Discharge Limitations, and Sample Type.

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03401023 Bivandan

2. In addition to the monitoring required in Section C.1 the Permittee is required to meet the following schedule of compliance:

A. Analysis of wastewater parameters shall be performed by a laboratory that has been certified by the State of New Jersey.

B The permittee shall notify in writing all agencies as directed by 40 CFR 403.12 (p) of any discharges classified hazardous waste under 40 CFR 261.

C. Pretreatment Compliance Requirements - Organic Chemicals Categorical Pretreatment Standards 40 CFR 414.

Permittee to be in compliance with Organic Chemicals Categorical Pretreatment Standards 40 CFR 414.85 Subpart H.

Permittee to submit a Periodic Compliance Monitoring Report MR-1 Form for Monthly Reporting Requirements within twenty-one (21) days after the end date of each preceding Month in accordance with General Pretreatment Regulations 40 CFR 403.12 section (e).

D. It shall be the Permittee's responsibility to comply with any revisions to 40 CFR 455.26 Subpart A, and submit required reports to PVSC in accordance with General Pretreatment Regulations 40 CFR 403.12.

03401023

ADDITIONAL REQUIREMENTS SECTION C2 CONTINUED:

E.

#	EFFLUENT CHARACTERISTICS	VOLUME MGD	REGULATION CONCENTRATIONS LIMITS ug/l AVG	REGULATION CONCENTRATIONS LIMITS ug/l MAX	PERMIT LIMITS MASS LIMITS #'s/day AVG	PERMIT LIMITS MASS LIMITS #'s/day MAX	SAMPLE TYPE GRAB/ COMPOSITE
1	Benzene	0.576660	57	134	0.27413	0.64445	GRAB
2	Carbon Tetrachloride	0.576660	142	380	0.68293	1.82755	GRAB
3	Chlorobenzene	0.576660	142	380	0.68293	1.82755	GRAB
4	1,2,4,-Trichlorobenzene	0.576660	196	794	0.94263	3.81862	COMPOSITE
5	Hexachlorobenzene	0.576660	196	794	0.94263	3.81862	COMPOSITE
6	1,2-Dichloroethane	0.576660	180	574	0.86568	2.76056	GRAB
7	1,1,1-Trichloroethane	0.576660	22	59	0.10581	0.28375	GRAB
8	Hexachloroethane	0.576660	196	794	0.94263	3.81862	COMPOSITE
9	1,1-Dichloroethane	0.576660	22	59	0.10581	0.28375	GRAB
10	1,1,2-Trichloroethane	0.576660	32	127	0.15390	0.61079	GRAB
11	Chloroethane	0.576660	110	295	0.52903	1.41876	GRAB
12	Chloroform	0.576660	111	325	0.53384	1.56304	GRAB
13	1,2-Dichlorobenzene	0.576660	196	794	0.94263	3.81862	COMPOSITE
14	1,3-Dichlorobenzene	0.576660	142	380	0.68293	1.82755	COMPOSITE
15	1,4-Dichlorobenzene	0.576660	142	380	0.68293	1.82755	COMPOSITE
16	1,1-Dichloroethylene	0.576660	22	60	0.10581	0.28856	GRAB
17	1,2-Trans-Dichloroethylene	0.576660	25	66	0.12023	0.31742	GRAB
18	1,2-Dichloropropane	0.576660	196	794	0.94263	3.81862	GRAB
19	1,3-Dichloropropylene	0.576660	196	794	0.94263	3.81862	GRAB
20	Ethylbenzene	0.576660	142	380	0.68293	1.82755	GRAB
21	Methylene Chloride	0.576660	36	170	0.17314	0.81759	GRAB
22	Methyl Chloride (Chloromethane)	0.576660	110	295	0.52903	1.41876	GRAB
23	Hexachlorobutadiene	0.576660	142	380	0.68293	1.82755	COMPOSITE
24	Nitrobenzene	0.576660	2237	6402	10.75850	30.78942	COMPOSITE
25	2-Nitrophenol	0.576660	65	231	0.31261	1.11096	COMPOSITE
26	4-Nitrophenol	0.576660	162	576	0.77911	2.77018	COMPOSITE
27	4,6-Dinitro-O-Cresol	0.576660	78	277	0.37513	1.33219	COMPOSITE
28	Tetrachloroethylene	0.576660	52	164	0.25009	0.78873	GRAB
29	Toluene	0.576660	28	74	0.13466	0.35589	GRAB
30	Trichloroethylene	0.576660	26	69	0.12504	0.33184	GRAB
31	Vinyl Chloride	0.576660	97	172	0.46651	0.82721	GRAB
32	Total Cyanide	0.576660	420	1200	2.01992	5.77121	GRAB
33	Total Lead	0.576660	320	690	1.53899	3.31845	COMPOSITE
34	Total Zinc	0.576660	1050	2610	5.04981	12.55239	COMPOSITE
35	Acenaphthene*	0.576660	19	47	0.09138	0.22604	COMPOSITE
36	Anthracene*	0.576660	19	47	0.09138	0.22604	COMPOSITE
37	Bis(2-ethylhexyl)phthalate*	0.576660	95	258	0.45689	1.24081	COMPOSITE
38	Di-n-butyl phthalate*	0.576660	20	43	0.09619	0.20680	COMPOSITE
39	Diethyl phthalate*	0.576660	46	113	0.22123	0.54346	COMPOSITE
40	Dimethyl phthalate*	0.576660	19	47	0.09138	0.22604	COMPOSITE
41	Fluoranthene*	0.576660	22	54	0.10581	0.25970	COMPOSITE
42	Fluorene*	0.576660	19	47	0.09138	0.22604	COMPOSITE
43	Naphthalene*	0.576660	19	47	0.09138	0.22604	COMPOSITE
44	Phenanthrene*	0.576660	19	47	0.09138	0.22604	COMPOSITE
45	Pyrene*	0.576660	20	48	0.09619	0.23085	COMPOSITE

* COMPLIANCE DATE IS JULY 23, 1996 FOR THIS PARAMETER.

MASS LIMITS (g/DAY, #/DAY, Kg/DAY, ETC.) = COLUMN C X COLUMN D or E X CONVERSION FACTOR(S).
COLUMN C = VOLUME, COLUMN D = AVG. REG. CONCENTRATION, COLUMN E = MAX. REG. CONCENTRATION.

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D. MONITORING AND REPORTING

1. USER CHARGE

Monitoring results obtained during the previous month shall be reported on Discharge Monitoring Report Form MR-2. Reports are due at PVSC within twenty-one (21) days after the end date of each preceding month. The first report is due on (*). If and Industrial User fails to submit Form MR-2 on a timely basis, the Executive Director shall estimate the use for the period. The estimates may be made thirty (30) days after the due date of the report.

2. PRETREATMENT

Monitoring results shall be reported on Discharge Monitoring Report Form, MR-1 for monthly reporting. Reports are due at PVSC within twenty-one (21) days after the end date of each preceding month.

3. REPORTS

Properly signed reports required herein shall be submitted to PVSC at the following address:

PASSAIC VALLEY SEWERAGE COMMISSIONERS
INDUSTRIAL WASTE CONTROL DEPARTMENT
600 Wilson Avenue
Newark, NJ 07105

4. TEST PROCEDURES

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. Test procedures for the analysis of pollutants shall conform to regulations contained in the PVSC Rules and Regulations, Federal, State and local laws or regulations.

5. RECORDING OF RESULTS

For each measurement of a sample taken pursuant to the requirements of this permit, the permittee shall maintain a record of the following information:

a. The date, exact place and time of sampling;
b. The dates the analyses were performed;
c. The person (s) who performed the analysis;
d. The analytical techniques or methods used;
e. The results of all required analyses.

 * Permittee has been required to submit Monitoring Reports MR-2 to PVSC since 07/15/81.

The volume of each sample shall be proportional to the discharge flow rate unless specifically modified by PVSC. For a 24 hour continuous discharge, a minimum of 24 individual samples shall be collected at equal intervals and at least once per hour. For continuous discharges of less than 12 hours, individual samples shall be taken at least once every 30 minutes. For discharges which are not continuous, individual samples shall be taken such that they will be representative of plant waste.

g. "Grab" - an individual sample collected in less than 15 minutes.

h. "Quarterly" - every three (3) months.

i. "N/A" - not applicable.

E. MANAGEMENT REQUIREMENTS

1. CHANGE IN DISCHARGES

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or modification which will result in new, different, or increased discharges of pollutants must be reported by submission of a new PVSC Sewer Connection Application or, if such changes will not violate the effluent limitations specified in this permit, by notices to PVSC of such changes. Following such notices, the permit may be modified to specify and limit any pollutants not previously limited.

2. NONCOMPLIANCE NOTIFICATION

If, for any reason, the permittee does not comply with, or will be unable to comply with any effluent limitation specified in this permit, the permittee shall notify PVSC within 24 hours of the occurrence.

F. MANAGEMENT RESPONSIBILITIES

1. RIGHT OF ENTRY

The permittee shall allow the authorized representatives of PVSC, upon the presentation of credentials:

a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and

b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring methods required in this permit; and to sample any discharge of pollutants.

2. TRANSFER OF OWNERSHIP OR CONTROL

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall, in writing, notify the succeeding owner or controller of the existence of this permit, and the need to apply for a new permit, a copy of which shall be forwarded to PVSC.

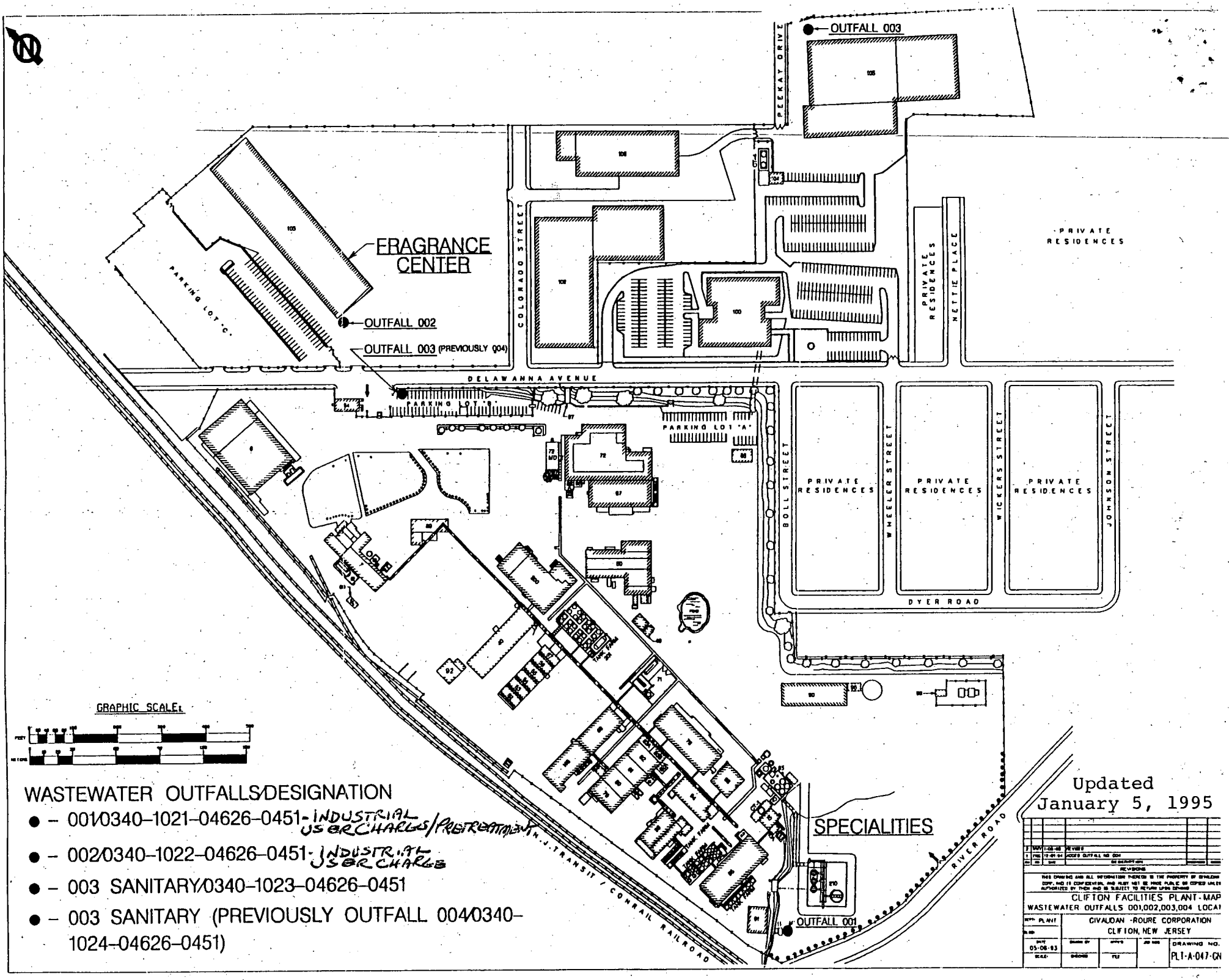
3. PERMIT MODIFICATION

After notice and opportunity for a hearing, this permit may be modified, or revoked in whole or in part during its terms for cause including, but not limited to, the following:

a. Violation of any terms or conditions of this permit;

b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or

c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.


OUTFALL 003
PEEKAY DRIVE
FRAGRANCE CENTER
OUTFALL 002
OUTFALL 003 (PREVIOUSLY 004)
COLORADO STREET
DELAWANNA AVENUE
PARKING LOT "C"
PARKING LOT "B"
PARKING LOT "A"
PRIVATE RESIDENCES
NETTIE PLACE
BOLL STREET
WHEELER STREET
WICKERS STREET
JOHNSON STREET
DYER ROAD
RIVER ROAD
N.J. TRANSIT / CONRAIL RAILROAD
SPECIALITIES
OUTFALL 001
GRAPHIC SCALE:
WASTEWATER OUTFALLS/DESIGNATION
● – 001/0340–1021–04626–0451- INDUSTRIAL USER CHARGES/PRETREATMENT
● – 002/0340–1022–04626–0451- INDUSTRIAL USER CHARGES
● – 003 SANITARY/0340–1023–04626–0451
● – 003 SANITARY (PREVIOUSLY OUTFALL 004/0340–1024–04626–0451)
Updated January 5, 1995
CLIFTON FACILITIES PLANT-MAP
WASTEWATER OUTFALLS 001,002,003,004 LOCAT
CIVALDAN -ROURE CORPORATION
CLIFTON, NEW JERSEY
05-06-83
DRAWING NO.
PLT-A-047-GN

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
3	01	95	3	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	99,100	136,700
Total Flow-gal/day	291,500	402,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days 31

N/A ***Flow on Sample date 3/1-3/2 - 387,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Benzene	Sample measurement	< 0.00968	< 0.00968	# / day	1	Grab
	Permit requirement	0.27421	0.64463	# / day	1	
Carbon Tetrachloride	Sample measurement	< 0.00968	< 0.00968	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Chlorobenzene	Sample measurement	< 0.00968	< 0.00968	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
1,2,4-Trichloro-benzene	Sample measurement	< 0.38731	< 0.38731	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
Hexachlorobenzene	Sample measurement	< 0.30662	< 0.30662	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,2-Dichloroethane	Sample measurement	< 0.03228	< 0.03228	# / day	1	Grab
	Permit requirement	0.86568	2.76056	# / day	1	
1,1,1-Trichloro-ethane	Sample measurement	< 0.00968	< 0.00968	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	
Hexachloroethane	Sample measurement	< 0.48414	< 0.48414	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,1-Dichloroethane	Sample measurement	< 0.02259	< 0.02259	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	

During this monitoring period, no change has been made to the plot plan submittted to PVSC on 2/17/95

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
3	01	95	3	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	99,100	136,700
Total Flow-gal/day	291,500	402,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 3/1-3/2 - 387,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,1,2-Trichloro-ethane	Sample measurement	< 0.00968	< 0.00968	# / day	1	Grab
	Permit requirement	0.15390	0.61079	# / day	1	
Chloroethane	Sample measurement	< 0.02905	< 0.02905	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Chloroform	Sample measurement	0.03228	0.03228	# / day	1	Grab
	Permit requirement	0.53384	1.56304	# / day	1	
1,2-Dichloro-benzene	Sample measurement	< 0.38731	< 0.38731	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,3-Dichloro-benzene	Sample measurement	< 0.38731	< 0.38731	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,4-Dichloro-benzene	Sample measurement	< 0.38731	< 0.38731	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,1-Dichloro-ethylene	Sample measurement	< 0.02905	< 0.02905	# / day	1	Grab
	Permit requirement	0.10581	0.28856	# / day	1	
1,2-Trans-Dichloroethylene	Sample measurement	< 0.02905	< 0.02905	# / day	1	Grab
	Permit requirement	0.12023	0.31742	# / day	1	
1,2-Dichloro-propane	Sample measurement	< 0.00968	< 0.00968	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	

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During this monitoring period, no change has been made to the plot plan submittted to PVSC on 2/17/95

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
3	01	95	3	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	99,100	136,700
Total Flow-gal/day	291,500	402,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 3/1-3/2 - 387,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3-Dichloro-propylene	Sample measurement	< 0.00968	< 0.00968	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	
Ethylbenzene	Sample measurement	< 0.01291	< 0.01291	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Methylene Chloride	Sample measurement	< 0.02582	< 0.02582	# / day	1	Grab
	Permit requirement	0.17314	0.81759	# / day	1	
Methyl Chloride	Sample measurement	< 0.07423	< 0.07423	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Hexachloro-butadiene	Sample measurement	< 0.45186	< 0.45186	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
Nitrobenzene	Sample measurement	< 0.16138	< 0.16138	# / day	1	Comp.
	Permit requirement	10.75850	30.78942	# / day	1	
2-Nitrophenol	Sample measurement	< 0.16138	< 0.16138	# / day	1	Comp.
	Permit requirement	0.31261	1.11096	# / day	1	
4-Nitrophenol	Sample measurement	< 0.16138	< 0.16138	# / day	1	Comp.
	Permit requirement	0.77911	2.77018	# / day	1	
4,6-Dinitro-o-Cresol	Sample measurement	< 0.16138	< 0.16138	# / day	1	Comp.
	Permit requirement	0.37513	1.33219	# / day	1	

During this monitoring period, no change has been made to the plot plan submittted

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
03	01	95	03	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	99,100	136,700
Total Flow-gal/day	291,500	402,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 3/1-3/2 - 387,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Tetrachloro-ethylene	Sample measurement	< 0.01291	< 0.01291	# / day	1	Grab
	Permit requirement	0.250009	0.78873	# / day	1	
Toluene	Sample measurement	0.01937	0.01937	# / day	1	Grab
	Permit requirement	0.13466	0.35589	# / day	1	
Trichloro-ethylene	Sample measurement	< 0.00968	< 0.00968	# / day	1	Grab
	Permit requirement	0.12504	0.33184	# / day	1	
Vinyl Chloride	Sample measurement	< 0.02905	< 0.02905	# / day	1	Grab
	Permit requirement	0.46651	0.82721	# / day	1	
Total Cyanide	Sample measurement	< 0.03228	< 0.03228	# / day	1	Grab
	Permit requirement	2.01992	5.77121	# / day	1	
Total Lead	Sample measurement	0.02259	0.02259	# / day	1	Comp.
	Permit requirement	1.53899	3.31845	# / day	1	
Total Zinc	Sample measurement	0.33567	0.33567	# / day	1	Comp.
	Permit requirement	5.04981	12.55239	# / day	1	
Petroleum Hydrocarbons	Sample measurement	3.4	3.4	mg / L	1	Grab
	Permit requirement		100	mg / L	1	
	Sample measurement					
	Permit requirement					

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During this monitoring period, no change has been made to the plot plan submittted

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

Not Applicable

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

SEE ATTACHMENT 1

Explain Method for preserving samples

The laboratory preservation methods and holding times were performed in accordance with EPA/NJDEPE approved procedures and methodologies.

*** SEE ATTACHMENT 2 FOR SPECIFIC PRESERVATION METHODOLOGIES. ***

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Harold G. Thompson

Signature of Principal Executive or Authorized Agent

Harold G. Thompson

Senior Vice President / Operations

Type Name and Title

April 18, 1995

Date

PVSC Form MR-1 Rev. 5 3/91 P2

During this monitoring period, no change has been made to the plot plan submittted to PVSC on 2/17/95

Attachment 1

Outfall 001

Compliance statement

Givaudan-Roure's test readings were within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H and other regulatory agency limitations.

Reference is made to the PVSC Notice of Violation Letter, dated April 12, 1995 alleging that an LEL violation occurred on March 9, 1995 at Outfall 001. We contest the PVSC position. The evidence confirms that there was no LEL violation and will address this matter in our response to the April 12, 1995 letter.

Attachment 2

PRESERVATION METHODOLOGIES

Volatile Organics Samples :
Cool to 4°C in an ice chest.

Total Cyanide Samples :
Preserve sample with 10 N NaOH to a pH of greater than 12. After preserving the sample, cool to 4°C in an ice chest.

Total Lead and Total Zinc Samples :
Acidify sample with Conc. HNO_3 to a pH of 2 or less.

Acid / Base Neutrals Extractables Samples :
Approximately 80 mg/l sodium thiosulfate is added to the bottle(s) in the laboratory prior to being brought into the field. After collection, the sample is cooled to 4°C in an ice chest.

Petroleum Hydrocarbon Samples :
Preserve sample with conc. H_2SO_4 or HCl to a pH of less than 2 and cool to 4°C in an ice chest.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
MARCH 10, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

VOLATILE ORGANIC ANALYSIS BY GC/MS

Data File: >A7179

Lab Number: 207117
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001-Monthly
Sample ID: 001-Grab
Sample date: 03/02/95
Sampled by: Customer
At lab date: 03/02/95

Analysis Date: 03/08/95
Percent Moisture: 100%
Dilution Factor: 5

Matrix: WATER
Init Sample vol= 1ml
Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	23
Bromomethane	U	U	19
Vinyl chloride	U	U	9
Chloroethane	U	U	9
Methylene chloride	U	U	8
Trichlorofluoromethane	U	U	8
1,1-Dichloroethene	U	U	9
1,1-Dichloroethane	U	U	7
trans-1,2-Dichloroethene	U	U	9
Chloroform	10	U	8
1,2-Dichloroethane	U	U	10
1,1,1-Trichloroethane	U	U	3
Carbon tetrachloride	U	U	3
Bromodichloromethane	U	U	3
1,2-Dichloropropane	U	U	3
cis-1,3-Dichloropropene	U	U	3
2-Chloroethyl vinyl ether	U	U	3
Trichloroethene	U	U	3
Dibromochloromethane	U	U	3
1,1,2-Trichloroethane	U	U	3
Benzene	U	U	3
trans-1,3-Dichloropropene	U	U	3
Bromoform	U	U	4
Tetrachloroethene	U	U	4
1,1,2,2-Tetrachloroethane	U	U	3
Toluene	6	U	4
Chlorobenzene	U	U	3
Ethylbenzene	U	U	4
total Xylenes	U	U	5
1,3-Dichlorobenzene	U	U	4
1,2-Dichlorobenzene	U	U	3
1,4-Dichlorobenzene	U	U	8

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
Note: Dichlorobenzenes, when applicable analyzed as semi-volatiles.
ND: Not Determined.

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MEG

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Randolph, NJ 07869
201-584-0330

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001-Monthly
Sample Date: 03/02/95
Sampled by: Customer
At Lab Date: 03/02/95
Sample Matrix: Aqueous

Lab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
07117	001-Grab	3.4	U	0.59	03/07/95	03/07/95

U = Not detected

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Richard Levine, President

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CHR

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
MARCH 14, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 207117
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001-Monthly
Sample ID: 001-Grab
Sample matrix: LIQUID (AQUEOUS)
Sample date: 03/02/95
Sampled by: Customer
At lab date: 03/02/95

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Cyanide, Total	U	U	0.010

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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Richard Levine, President

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BON

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
MARCH 8, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Lab Number: 207118
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001-Monthly
Sample ID: 001-Comp
Sample date: 03/02/95
Sampled by: Customer
At lab date: 03/02/95
Matrix: WATER

Data File: >F2040

Extracted Date: 03/03/95
Analysis Date: 03/06/95

Column: 30m SPB-5
Dilution Factor: 50

Init Sample vol= 1000ml Final volume= 50ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	50
2-Nitrophenol	U	U	50
Phenol	U	U	90
2,4-Dimethylphenol	U	U	50
2,4-Dichlorophenol	U	U	50
2,4,6-Trichlorophenol	U	U	50
Pentachlorophenol	U	U	50
2,4-Dinitrophenol	U	U	180
4,6-Dinitro-2-methylphenol	U	U	50
4-Nitrophenol	U	U	50
4-Chloro-3-methylphenol	U	U	50

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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MEG

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
MARCH 8, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Lab Number: 207118
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001-Monthly
Sample ID: 001-Comp
Sample date: 03/02/95
Sampled by: Customer
At lab date: 03/02/95
Matrix: WATER

Data File: >F2040

Extracted Date: 03/03/95
Analysis Date: 03/06/95

Column: 30m SPB-5
Dilution Factor: 50

Init Sample vol= 1000ml Final volume= 50ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	50
bis(2-Chloroethyl)ether	U	U	50
1,3-Dichlorobenzene	U	U	120
1,4-Dichlorobenzene	U	U	120
1,2-Dichlorobenzene	U	U	120
bis(2-Chloroisopropyl)ether	U	U	60
N-Nitroso-di-n-propylamine	U	U	90
Hexachloroethane	U	U	150
Nitrobenzene	U	U	50
Isophorone	U	U	50
bis(2-Chloroethoxy)methane	U	U	50
1,2,4-Trichlorobenzene	U	U	120
Naphthalene	U	U	100
Hexachlorobutadiene	U	U	140
Hexachlorocyclopentadiene	U	U	75
2-Chloronaphthalene	U	U	100
Dimethyl phthalate	U	U	230
Acenaphthylene	U	U	75
2,6-Dinitrotoluene	U	U	50
Acenaphthene	U	U	95
2,4-Dinitrotoluene	U	U	50
Diethyl phthalate	U	U	120
4-Chlorophenyl phenyl ether	U	U	100
Fluorene	U	U	85
N-Nitrosodiphenylamine	U	U	50
1,2-Diphenylhydrazine (Azobenzene)	U	U	50
4-Bromophenyl phenyl ether	U	U	95
Hexachlorobenzene	U	U	95
Phenanthrene	U	U	45
Anthracene	U	U	40
Di-n-butylphthalate	U	U	130
Fluoranthene	U	U	30
Benzidine	U	U	50
Pyrene	U	U	25
Butyl benzylphthalate	U	U	60
3,3'-Dichlorobenzidine	U	U	50
Benzo(a)anthracene	U	U	25
Chrysene	U	U	25
bis(2-Ethylhexyl)phthalate	U	U	50
Di-n-octylphthalate	U	U	50
Benzo(b)fluoranthene	U	U	35

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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Randolph, NJ 07869
201-584-0330
MARCH 8, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Lab Number: 207118 Data File: >F2040
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001-Monthly
Sample ID: 001-Comp
Sample date: 03/02/95 Extracted Date: 03/03/95
Sampled by: Customer Analysis Date: 03/06/95 Column: 30m SPB-5
At lab date: 03/02/95 Dilution Factor: 50
Matrix: WATER
Init Sample vol= 1000ml Final volume= 50ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Benzo(k)fluoranthene	U	U	35
Benzo(a)pyrene	U	U	25
Indeno(1,2,3-cd)pyrene	U	U	55
Dibenz(a,h)anthracene	U	U	25
Benzo(g,h,i)perylene	U	U	25

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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1152 Route 10
Randolph, NJ 07869
201-584-0330
MARCH 14, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 207118
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001-Monthly
Sample ID: 001-Comp
Sample date: 03/02/95
Sampled by: Customer
At lab date: 03/02/95
Matrix: WATER

Percent Moisture: 100 %

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Lead	0.007	U	0.004	03/09/95
Zinc	0.104	U	0.020	03/06/95

U = Not Detected

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Richard Levine, President

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BON 3/14

ATTACHMENT B

MR-2 FORMS FOR :

DISCHARGE POINT 001, 002, 003

USER CHARGE SELF MONITORING REPORT

NAME Givaudan Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION SAME AS ABOVE

OUTLET DESIGNATION (17 DIGITS) 0340-1021-04626-0451

MONITORING PERIOD					
3	1	95	3	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
9,035,000 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 276040(000)

DATE	BOD 0310	TSS 0530	TDS-COD	DATE	BOD 0310	TSS 0530	TDS-COD
3/1	2539	41	5325-4023	3/17	5916	37	
3/2	3383	20		3/18	7207	34	
3/3	5285	34		3/19	4264	31	
3/4	2479	39		3/20	4895	29	
3/5	5676	45		3/21	4389	56	
3/6	3820	27		3/22	6216	41	10611-8772
3/7	3497	30		3/23	6246	51	
3/8	7477	27	14521-9226	3/24	5736	20	
3/9	4461	25		3/25	8198	94	
3/10	4401	8		3/26	6997	62	
3/11	4335	16		3/27	3150	28	
3/12	6066	13		3/28	7057	43	
3/13	2976	7		3/29	6276	28	12398-12093
3/14	4102	12		3/30	6456	29	
3/15	3509	55	6096-3101	3/31	4835	32	
3/16	4535	23					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE April 18, 1995

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 174 Delawanna Avenue - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1022-04626-0451

MONITORING PERIOD					
3	1	95	3	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
37,290 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 1542137(0)

DATE	BOD 0310	TSS 0530		DATE	BOD 0310	TSS 0530	
3/8	435	236					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE April 15, 1995

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 2 Peekay Drive - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1023-04626-0451

MONITORING PERIOD						
3	1	95		3	28	95
MO.	DAY	YR		MO.	DAY	YR
START				END		

VOL. DISCHARGED THIS PERIOD
854,320 GALS*
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 370825(0)*

*FLOW FOR #4 ESTIMATED
FLOW FOR #3 METER READING
VOL. DISCHARGED TOTAL FOR #3 AND #4

DATE	BOD 0310	TSS 0530	COD	DATE	BOD 0310	TSS 0530	

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE April 18, 1995

PVSC FORM MR-2 REV.2. 1/86

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 001 **Date of Sample :** March 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : 9,035,000 gals. Average Flow : 291,452 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	COD (mg/L)
3/1/95	2539	41	5325	4023
3/2/95	3383	20		
3/3/95	5285	34		
3/4/95	2479	39		
3/5/95	5676	45		
3/6/95	3820	27		
3/7/95	3497	30		
3/8/95	7477	27	14521	9226
3/9/95	4461	25		
3/10/95	4401	8		
3/11/95	4335	16		
3/12/95	6066	13		
3/13/95	2976	7		
3/14/95	4102	12		
3/15/95	3509	55	6096	3101
3/16/95	4535	23		
3/17/95	5916	37		
3/18/95	7207	34		
3/19/95	4264	31		
3/20/95	4895	29		
3/21/95	4389	56		
3/22/95	6216	41	10611	8772
3/23/95	6246	51		
3/24/95	5736	20		
3/25/95	8198	94		
3/26/95	6997	62		
3/27/95	3150	28		
3/28/95	7057	43		
3/29/95	6276	28	12398	12093
3/30/95	6456	29		
3/31/95	4835	32		

Patricia Hopkins
Laboratory Supervisor

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 002 **Date of Sample :** March 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : NA Average Flow : NA

Sampling Date	BOD (mg/L)	TSS (mg/L)
3/8/95	435	236

Patricia Hopkins
Laboratory Supervisor

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
4	01	95	4	30	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	89,800	112,500
Total Flow-gal/day	264,200	331,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days 30

N/A ***Flow on Sample date 4/5-4/6 - 287,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Benzene	Sample measurement	< 0.05984	< 0.05984	# / day	1	Grab
	Permit requirement	0.27421	0.64463	# / day	1	
Carbon Tetrachloride	Sample measurement	< 0.07181	< 0.07181	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Chlorobenzene	Sample measurement	< 0.07181	< 0.07181	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
1,2,4-Trichloro-benzene	Sample measurement	< 0.05505	< 0.05505	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
Hexachlorobenzene	Sample measurement	< 0.04548	< 0.04548	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,2-Dichloroethane	Sample measurement	< 0.22739	< 0.22739	# / day	1	Grab
	Permit requirement	0.86568	2.76056	# / day	1	
1,1,1-Trichloro-ethane	Sample measurement	< 0.05984	< 0.05984	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	
Hexachloroethane	Sample measurement	< 0.06941	< 0.06941	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,1-Dichloroethane	Sample measurement	< 0.16755	< 0.16755	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	

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During this monitoring period,no change has been made to the plot plan submittted to PVSC on 2/17/95

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
4	01	95	4	30	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	89,800	112,500
Total Flow-gal/day	264,200	331,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 30

N/A ***Flow on Sample date 4/5-4/6 - 287,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,1,2-Trichloroethane	Sample measurement	< 0.05984	< 0.05984	# / day	1	Grab
	Permit requirement	0.15390	0.61079	# / day	1	
Chloroethane	Sample measurement	< 0.21542	< 0.21542	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Chloroform	Sample measurement	< 0.19149	< 0.19149	# / day	1	Grab
	Permit requirement	0.53384	1.56304	# / day	1	
1,2-Dichlorobenzene	Sample measurement	< 0.05745	< 0.05745	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,3-Dichlorobenzene	Sample measurement	< 0.05745	< 0.05745	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,4-Dichlorobenzene	Sample measurement	< 0.05505	< 0.05505	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,1-Dichloroethylene	Sample measurement	< 0.20345	< 0.20345	# / day	1	Grab
	Permit requirement	0.10581	0.28856	# / day	1	
1,2-Trans-Dichloroethylene	Sample measurement	< 0.20345	< 0.20345	# / day	1	Grab
	Permit requirement	0.12023	0.31742	# / day	1	
1,2-Dichloropropane	Sample measurement	< 0.07181	< 0.07181	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	

During this monitoring period, no change has been made to the plot plan submittted to PVSC on 2/17/95

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
4	01	95	4	30	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	89,800	112,500
Total Flow-gal/day	264,200	331,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 30

N / A ***Flow on Sample date 4/5-4/6 - 287,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3-Dichloro-propylene	Sample measurement	< 0.05984	< 0.05984	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	
Ethylbenzene	Sample measurement	< 0.08378	< 0.08378	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Methylene Chloride	Sample measurement	0.26329	0.26329	# / day	1	Grab
	Permit requirement	0.17314	0.81759	# / day	1	
Methyl Chloride	Sample measurement	< 0.55052	< 0.55052	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Hexachloro-butadiene	Sample measurement	< 0.02394	< 0.02394	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
Nitrobenzene	Sample measurement	< 0.02394	< 0.02394	# / day	1	Comp.
	Permit requirement	10.75850	30.78942	# / day	1	
2-Nitrophenol	Sample measurement	< 0.02394	< 0.02394	# / day	1	Comp.
	Permit requirement	0.31261	1.11096	# / day	1	
4-Nitrophenol	Sample measurement	< 0.02394	< 0.02394	# / day	1	Comp.
	Permit requirement	0.77911	2.77018	# / day	1	
4,6-Dinitro-o-Cresol	Sample measurement	< 0.02394	< 0.02394	# / day	1	Comp.
	Permit requirement	0.37513	1.33219	# / day	1	

During this monitoring period,no change has been made to the plot plan submittted to PVSC on 2/17/95

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
04	01	95	04	30	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	89,800	112,500
Total Flow-gal/day	264,200	331,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 30

N/A ***Flow on Sample date 4/5-4/6 - 287,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Tetrachloro-ethylene	Sample measurement	< 0.08378	< 0.08378	# / day	1	Grab
	Permit requirement	0.250009	0.78873	# / day	1	
Toluene	Sample measurement	< 0.09574	< 0.09574	# / day	1	Grab
	Permit requirement	0.13466	0.35589	# / day	1	
Trichloro-ethylene	Sample measurement	< 0.07181	< 0.07181	# / day	1	Grab
	Permit requirement	0.12504	0.33184	# / day	1	
Vinyl Chloride	Sample measurement	< 0.20345	< 0.20345	# / day	1	Grab
	Permit requirement	0.46651	0.82721	# / day	1	
Total Cyanide	Sample measurement	< 0.02394	< 0.02394	# / day	1	Grab
	Permit requirement	2.01992	5.77121	# / day	1	
Total Lead	Sample measurement	0.01915	0.01915	# / day	1	Comp.
	Permit requirement	1.53899	3.31845	# / day	1	
Total Zinc	Sample measurement	0.47872	0.47872	# / day	1	Comp.
	Permit requirement	5.04981	12.55239	# / day	1	
Petroleum Hydrocarbons	Sample measurement	8.5	8.5	mg / L	1	Grab
	Permit requirement		100	mg / L	1	
	Sample measurement					
	Permit requirement					

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During this monitoring period, no change has been made to the plot plan submittted to PVSC on 2/17/95

Certification of Non-use if applicable (use additional sheets)

Not Applicable

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

SEE ATTACHMENT 1

Explain Method for preserving samples

The laboratory preservation methods and holding times were performed in accordance with EPA/NJDEPE approved procedures and methodologies.

*** SEE ATTACHMENT 2 FOR SPECIFIC PRESERVATION METHODOLOGIES. ***

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Harold G. Thompson

Signature of Principal Executive or Authorized Agent

Harold G. Thompson

Senior Vice President / Operations

Type Name and Title

May 16, 1995

Date

PVSC Form MR-1 Rev. 5 3/91 P2

During this monitoring period, no change has been made to the plot plan submittted to PVSC on 2/17/95

Attachment 1

Outfall 001

Compliance statement

Givaudan-Roure's test readings were within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H and other regulatory agency limitations.

The MDL's for the following organics were found to be above the average permit limits:

1,1-Dichloroethane
1,1-Dichloroethene
1,2-trans Dichloroethene
Methyl Chloride

It should be understood that Givaudan-Roure does not use these compounds in any of the manufacturing operations at the plant site.

Methylene Chloride was detected in the Outfall at a concentration of 110 μg/l. It is known that this compound is commonly found as a laboratory contaminant. We believe that methylene chloride found in the sample was attributed to laboratory contamination. It should be noted that this compound is not used as a raw material in any manufacturing operation conducted at the plant site. The QA/QC report is attached, as required.

Attachment 2

PRESERVATION METHODOLOGIES

Volatile Organics Samples :
Cool to 4°C in an ice chest.

Total Cyanide Samples :
Preserve sample with 10 N NaOH to a pH of greater than 12. After preserving the sample, cool to 4°C in an ice chest.

Total Lead and Total Zinc Samples :
Acidify sample with Conc. HNO_3 to a pH of 2 or less.

Acid / Base Neutrals Extractables Samples :
Approximately 80 mg/l sodium thiosulfate is added to the bottle(s) in the laboratory prior to being brought into the field. After collection, the sample is cooled to 4°C in an ice chest.

Petroleum Hydrocarbon Samples :
Preserve sample with conc. H_2SO_4 or HCl to a pH of less than 2 and cool to 4°C in an ice chest.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
APRIL 18, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

VOLATILE ORGANIC ANALYSIS BY GC/MS

Lab Number: 209771
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Grab
Sample date: 04/06/95
Sampled by: Customer
At lab date: 04/06/95

Data File: >G5714

Analysis Date: 04/11/95
Percent Moisture: 100%
Dilution Factor: 50

Matrix: WATER

Init Sample vol= 0.1ml
Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	230
Bromomethane	U	U	190
Vinyl chloride	U	U	85
Chloroethane	U	U	90
Methylene chloride	110 *	U	75
Trichlorofluoromethane	U	U	75
1,1-Dichloroethene	U	U	85
1,1-Dichloroethane	U	U	70
trans-1,2-Dichloroethene	U	U	85
Chloroform	U	U	80
1,2-Dichloroethane	U	U	95
1,1,1-Trichloroethane	U	U	25
Carbon tetrachloride	U	U	30
Bromodichloromethane	U	U	30
1,2-Dichloropropane	U	U	30
cis-1,3-Dichloropropene	U	U	25
2-Chloroethyl vinyl ether	U	U	30
Trichloroethene	U	U	30
Dibromochloromethane	U	U	30
1,1,2-Trichloroethane	U	U	25
Benzene	U	U	25
trans-1,3-Dichloropropene	U	U	30
Bromoform	U	U	40
Tetrachloroethene	U	U	35
1,1,2,2-Tetrachloroethane	U	U	25
Toluene	U	U	40
Chlorobenzene	U	U	30
Ethylbenzene	U	U	35
total Xylenes	U	U	45
1,3-Dichlorobenzene	U	U	35
1,2-Dichlorobenzene	U	U	25
1,4-Dichlorobenzene	U	U	75

* This compound is not flagged with B since it was not found in the corresponding method blank. However, this compound is commonly found as a laboratory contaminant.

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
Note: Dichlorobenzenes, when applicable analyzed as semi-volatiles.
ND: Not Determined.

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LAU

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 Monthly
Sample Date: 04/06/95
Sampled by: Customer
At Lab Date: 04/06/95
Sample Matrix: Aqueous

ab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
09771	001 Grab	8.5	U	0.56	04/13/95	04/13/95

U = Not detected

INDUSTRIAL CORROSION MANAGEMENT, INC.
Richard Levine, President

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ROB

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
APRIL 19, 1995

Certified for: NJ, PA, DE, and NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 209771
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 Monthly
Sample ID: 001 Grab
Sample matrix: LIQUID (AQUEOUS)
Sample date: 04/06/95
Sampled by: Customer
At lab date: 04/06/95

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Cyanide, Total	U	U	0.010

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Richard Levine, President

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BON

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
MAY 1, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Data File: >I5236

Lab Number: 209787
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Comp
Sample date: 04/06/95
Sampled by: Customer
At lab date: 04/06/95
Matrix: WATER

Extracted Date: 04/11/95
Analysis Date: 04/13/95

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	10
2-Nitrophenol	U	U	10
Phenol	U	U	18
2,4-Dimethylphenol	U	U	10
2,4-Dichlorophenol	U	U	10
2,4,6-Trichlorophenol	U	U	10
Pentachlorophenol	U	U	10
2,4-Dinitrophenol	U	U	36
4,6-Dinitro-2-methylphenol	U	U	10
4-Nitrophenol	U	U	10
4-Chloro-3-methylphenol	U	U	10

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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BON

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
MAY 1, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Lab Number: 209787
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Comp
Sample date: 04/06/95
Sampled by: Customer
At lab date: 04/06/95
Matrix: WATER

Data File: >I5236

Extracted Date: 04/11/95
Analysis Date: 04/13/95

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	10
bis(2-Chloroethyl)ether	U	U	10
1,3-Dichlorobenzene	U	U	24
1,4-Dichlorobenzene	U	U	23
1,2-Dichlorobenzene	U	U	24
bis(2-Chloroisopropyl)ether	U	U	12
N-Nitroso-di-n-propylamine	U	U	18
Hexachloroethane	U	U	29
Nitrobenzene	U	U	10
Isophorone	U	U	10
bis(2-Chloroethoxy)methane	U	U	10
1,2,4-Trichlorobenzene	U	U	23
Naphthalene	U	U	20
Hexachlorobutadiene	U	U	10
Hexachlorocyclopentadiene	U	U	15
2-Chloronaphthalene	U	U	20
Dimethyl phthalate	U	U	46
Acenaphthylene	U	U	15
2,6-Dinitrotoluene	U	U	10
Acenaphthene	U	U	19
2,4-Dinitrotoluene	U	U	10
Diethyl phthalate	U	U	23
4-Chlorophenyl phenyl ether	U	U	20
Fluorene	U	U	17
N-Nitrosodiphenylamine	U	U	10
1,2-Diphenylhydrazine (Azobenzene)	U	U	10
4-Bromophenyl phenyl ether	U	U	19
Hexachlorobenzene	U	U	19
Phenanthrene	U	U	9
Anthracene	U	U	8
Di-n-butylphthalate	U	U	25
Fluoranthene	U	U	6
Benzidine	U	U	10
Pyrene	U	U	5
Butyl benzylphthalate	U	U	12
3,3'-Dichlorobenzidine	U	U	10
Benzo(a)anthracene	U	U	5
Chrysene	U	U	5
bis(2-Ethylhexyl)phthalate	15	U	10
Di-n-octylphthalate	U	U	10
Benzo(b)fluoranthene	U	U	7

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
MAY 1, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Lab Number: 209787
Data File: >I5236
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Comp
Sample date: 04/06/95
Extracted Date: 04/11/95
Sampled by: Customer
Analysis Date: 04/13/95
Column: 30m SPB-5
At lab date: 04/06/95
Dilution Factor: 10
Matrix: WATER
Init Sample vol= 1000ml
Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Benzo(k)fluoranthene	U	U	7
Benzo(a)pyrene	U	U	5
Indeno(1,2,3-cd)pyrene	U	U	11
Dibenz(a,h)anthracene	U	U	5
Benzo(g,h,i)perylene	U	U	5

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
MAY 1, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 209787
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Comp
Sample date: 04/06/95
Sampled by: Customer
At lab date: 04/06/95
Matrix: WATER

Percent Moisture: 100 %

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Lead	0.008	U	0.004	04/17/95
Zinc	0.200	U	0.020	04/17/95

U = Not Detected

INDUSTRIAL CORROSION MANAGEMENT, INC.
Richard Levine, President

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BON

ATTACHMENT B

MR-2 FORMS FOR :

DISCHARGE POINT 001, 002, 003

USER CHARGE SELF MONITORING REPORT

NAME Givaudan Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION SAME AS ABOVE

OUTLET DESIGNATION (17 DIGITS) 0340-1021-04626-0451

MONITORING PERIOD					
4	1	95	4	30	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
7,926,000 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 283966(000)

DATE	BOD 0310	TSS 0530	TDS-COD	DATE	BOD 0310	TSS 0530	TDS-COD
4/1	5405	96		4/17	775	42	
4/2	8679	66		4/18	2341	168	
4/3	4275	51		4/19	3653	125	6424-6852
4/4	2557	147		4/20	5045	40	
4/5	5375	149	4851-6841	4/21	4275	68	
4/6	5495	49		4/22	5616	65	
4/7	6006	67		4/23	1960	38	
4/8	6997	93		4/24	6456	71	
4/9	8078	92		4/25	1972	42	
4/10	4018	64		4/26	7027	47	10615-10932
4/11	4192	59		4/27	4539	312	
4/12	4955	65	11166-8554	4/28	7838	91	
4/13	4162	85		4/29	3874	207	
4/14	5886	59		4/30	11201	65	
4/15	5556	114					
4/16	1795	52					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE May 16, 1995

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 174 Delawanna Avenue - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1022-04626-0451

MONITORING PERIOD					
4	1	95	4	30	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
74,290 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 1549566(0)

DATE	BOD 0310	TSS 0530		DATE	BOD 0310	TSS 0530	
4/5	817	321					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE May 16, 1995

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 2 Peekay Drive - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1023-04626-0451

MONITORING PERIOD					
4	1	95	4	30	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
2,093,510 GALS*
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 578174(0)*

*FLOW FOR #4 ESTIMATED
FLOW FOR #3 METER READING
VOL. DISCHARGED TOTAL FOR #3 AND #4

DATE	BOD 0310	TSS 0530	COD	DATE	BOD 0310	TSS 0530	

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE May 16, 1995

PVSC FORM MR-2 REV.2. 1/86

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 001 **Date of Sample :** April 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : 7,926,000 gals. Average Flow : 264,200 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	COD (mg/L)
4/1/95	5405	96		
4/2/95	8679	66		
4/3/95	4275	51		
4/4/95	2557	147		
4/5/95	5375	149	4851	6841
4/6/95	5495	49		
4/7/95	6006	67		
4/8/95	6997	93		
4/9/95	8078	92		
4/10/95	4018	64		
4/11/95	4192	59		
4/12/95	4955	65	11166	8554
4/13/95	4162	85		
4/14/95	5886	59		
4/15/95	5556	114		
4/16/95	1795	52		
4/17/95	775	42		
4/18/95	2341	168		
4/19/95	3653	125	6424	6852
4/20/95	5045	40		
4/21/95	4275	68		
4/22/95	5616	65		
4/23/95	1960	38		
4/24/95	6456	71		
4/25/95	1972	42		
4/26/95	7027	47	10615	10932
4/27/95	4539	312		
4/28/95	7838	91		
4/29/95	3874	207		
4/30/95	11201	65		

Patricia Hopkins
Laboratory Supervisor

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 FAX 201-365-0711

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 002 **Date of Sample :** April 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : NA Average Flow : NA

Sampling Date	BOD (mg/L)	TSS (mg/L)
4/5/95	817	321

Patricia Hopkins
Laboratory Supervisor

ANALYTICAL DATA REPORT PACKAGE

GIVAUDAN-ROURE CORPORATION

001 Monthly

ICM LABORATORIES
1152 ROUTE 10
RANDOLPH, NJ 07869
201-584-0330
FAX 201-584-0515

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

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PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
5	01	95	5	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	95,600	129,900
Total Flow-gal/day	281,300	382,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days 31

N/A ***Flow on Sample date 5/10-5/11 - 318,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Benzene	Sample measurement	< 0.01326	< 0.01326	# / day	1	Grab
	Permit requirement	0.27421	0.64463	# / day	1	
Carbon Tetrachloride	Sample measurement	< 0.01591	< 0.01591	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Chlorobenzene	Sample measurement	< 0.01591	< 0.01591	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
1,2,4-Trichloro-benzene	Sample measurement	< 0.061	< 0.061	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
Hexachlorobenzene	Sample measurement	< 0.05039	< 0.05039	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,2-Dichloroethane	Sample measurement	< 0.05039	< 0.05039	# / day	1	Grab
	Permit requirement	0.86568	2.76056	# / day	1	
1,1,1-Trichloro-ethane	Sample measurement	< 0.01326	< 0.01326	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	
Hexachloroethane	Sample measurement	< 0.07691	< 0.07691	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,1-Dichloroethane	Sample measurement	< 0.03713	< 0.03713	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
5	01	95	5	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	95,600	129,900
Total Flow-gal/day	281,300	382,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N/A ***Flow on Sample date 5/10-5/11 - 318,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,1,2-Trichloro-ethane	Sample measurement	< 0.01326	< 0.01326	# / day	1	Grab
	Permit requirement	0.15390	0.61079	# / day	1	
Chloroethane	Sample measurement	< 0.04774	< 0.04774	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Chloroform	Sample measurement	< 0.04243	< 0.04243	# / day	1	Grab
	Permit requirement	0.53384	1.56304	# / day	1	
1,2-Dichloro-benzene	Sample measurement	< 0.06365	< 0.06365	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,3-Dichloro-benzene	Sample measurement	< 0.06365	< 0.06365	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,4-Dichloro-benzene	Sample measurement	< 0.061	< 0.61	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,1-Dichloro-ethylene	Sample measurement	< 0.04509	< 0.04509	# / day	1	Grab
	Permit requirement	0.10581	0.28856	# / day	1	
1,2-Trans-Dichloroethylene	Sample measurement	< 0.04509	< 0.04509	# / day	1	Grab
	Permit requirement	0.12023	0.31742	# / day	1	
1,2-Dichloro-propane	Sample measurement	< 0.01591	< 0.01591	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
5	01	95	5	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	95,600	129,900
Total Flow-gal/day	281,300	382,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 5/10-5/11 - 318,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3-Dichloro-propylene	Sample measurement	< 0.01591	< 0.01591	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	
Ethylbenzene	Sample measurement	< 0.01856	< 0.01856	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Methylene Chloride	Sample measurement	0.10874	0.10874	# / day	1	Grab
	Permit requirement	0.17314	0.81759	# / day	1	
Methyl Chloride	Sample measurement	< 0.122	< 0.122	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Hexachloro-butadiene	Sample measurement	< 0.02652	< 0.02652	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
Nitrobenzene	Sample measurement	< 0.02652	< 0.02652	# / day	1	Comp.
	Permit requirement	10.75850	30.78942	# / day	1	
2-Nitrophenol	Sample measurement	< 0.02652	< 0.02652	# / day	1	Comp.
	Permit requirement	0.31261	1.11096	# / day	1	
4-Nitrophenol	Sample measurement	< 0.02652	< 0.02652	# / day	1	Comp.
	Permit requirement	0.77911	2.77018	# / day	1	
4,6-Dinitro-o-Cresol	Sample measurement	< 0.02652	< 0.02652	# / day	1	Comp.
	Permit requirement	0.37513	1.33219	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
05	01	95	05	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	95,600	129,900
Total Flow-gal/day	281,300	382,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 5/10-5/11 - 318,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Tetrachloro-ethylene	Sample measurement	< 0.01856	< 0.01856	# / day	1	Grab
	Permit requirement	0.250009	0.78873	# / day	1	
Toluene	Sample measurement	0.16178	0.16178	# / day	1	Grab
	Permit requirement	0.13466	0.35589	# / day	1	
Trichloro-ethylene	Sample measurement	< 0.01591	< 0.01591	# / day	1	Grab
	Permit requirement	0.12504	0.33184	# / day	1	
Vinyl Chloride	Sample measurement	< 0.04509	< 0.04509	# / day	1	Grab
	Permit requirement	0.46651	0.82721	# / day	1	
Total Cyanide	Sample measurement	< 0.02652	< 0.02652	# / day	1	Grab
	Permit requirement	2.01992	5.77121	# / day	1	
Total Lead	Sample measurement	0.05304	0.05304	# / day	1	Comp.
	Permit requirement	1.53899	3.31845	# / day	1	
Total Zinc	Sample measurement	0.65773	0.65773	# / day	1	Comp.
	Permit requirement	5.04981	12.55239	# / day	1	
Petroleum Hydrocarbons	Sample measurement	31	31	mg / L	1	Grab
	Permit requirement		100	mg / L	1	
	Sample measurement					
	Permit requirement					

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

Not Applicable

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

SEE ATTACHMENT 1

Explain Method for preserving samples

The laboratory preservation methods and holding times were performed in accordance with EPA/NJDEPE approved procedures and methodologies.

*** SEE ATTACHMENT 2 FOR SPECIFIC PRESERVATION METHODOLOGIES. ***

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Signature of Principal Executive or Authorized Agent

Harold G. Thompson

Senior Vice President / Operations

Type Name and Title

Date

Attachment 1

Outfall 001

Compliance statement

Givaudan-Roure's test readings were within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H and other regulatory agency limitations except for toluene.

The official sample collected on May 11, 1995 indicates a concentration of 61 μg/l of toluene. The toluene mass loading on this day was 0.16178#/day. This calculated value exceeded the average mass limit for toluene by 0.02712#/day. The maximum mass limit of 0.35589 #/day for toluene was not exceeded.

Attachment 2

PRESERVATION METHODOLOGIES

Volatile Organics Samples :
Cool to 4°C in an ice chest.

Total Cyanide Samples :
Preserve sample with 10 N NaOH to a pH of greater than 12. After preserving the sample, cool to 4°C in an ice chest.

Total Lead and Total Zinc Samples :
Acidify sample with Conc. HNO_3 to a pH of 2 or less.

Acid / Base Neutrals Extractables Samples :
Approximately 80 mg/l sodium thiosulfate is added to the bottle(s) in the laboratory prior to being brought into the field. After collection, the sample is cooled to 4°C in an ice chest.

Petroleum Hydrocarbon Samples :
Preserve sample with conc. H_2SO_4 or HCl to a pH of less than 2 and cool to 4°C in an ice chest.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
MAY 22, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

VOLATILE ORGANIC ANALYSIS BY GC/MS

Lab Number: 211920
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Grab
Sample date: 05/11/95
Sampled by: Customer
At lab date: 05/11/95
Matrix: WATER

Data File: >G6293

Analysis Date: 05/15/95

Dilution Factor: 10

Init Sample vol= 0.5ml

Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	46
Bromomethane	U	U	38
Vinyl chloride	U	U	17
Chloroethane	U	U	18
Methylene chloride	41 *	U	15
Trichlorofluoromethane	U	U	15
1,1-Dichloroethene	U	U	17
1,1-Dichloroethane	U	U	14
trans-1,2-Dichloroethene	U	U	17
Chloroform	U	U	16
1,2-Dichloroethane	U	U	19
1,1,1-Trichloroethane	U	U	5
Carbon tetrachloride	U	U	6
Bromodichloromethane	U	U	6
1,2-Dichloropropane	U	U	6
cis-1,3-Dichloropropene	U	U	5
2-Chloroethyl vinyl ether	U	U	6
Trichloroethene	U	U	6
Dibromochloromethane	U	U	6
1,1,2-Trichloroethane	U	U	5
Benzene	U	U	5
trans-1,3-Dichloropropene	U	U	6
Bromoform	U	U	8
Tetrachloroethene	U	U	7
1,1,2,2-Tetrachloroethane	U	U	5
Toluene	61	U	8
Chlorobenzene	U	U	6
Ethylbenzene	U	U	7
p&m-Xylene	U	U	9
o-Xylene	U	U	9
total Xylenes	U	U	9
1,3-Dichlorobenzene	U	U	7
1,2-Dichlorobenzene	U	U	5
1,4-Dichlorobenzene	U	U	15

* This compound is not flagged with B since it was not found in the corresponding method blank. However, this compound is commonly found as a laboratory contaminant.

The total Xylenes result includes the sum of p&m-Xylene and o-Xylene.

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

ND: Not Determined.

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 Monthly
Sample Date: 05/11/95
Sampled by: Customer
At Lab Date: 05/11/95
Sample Matrix: Aqueous

Lab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
11920	001 Grab	31	U	0.59	05/17/95	05/17/95

U = Not detected

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Richard Levine, President

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JOA

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
MAY 23, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 211920
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 Monthly
Sample ID: 001 Grab
Sample matrix: LIQUID (AQUEOUS)
Sample date: 05/11/95
Sampled by: Customer
At lab date: 05/11/95

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Cyanide, Total	U	U	0.010

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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Richard Levine, President

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BON

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
MAY 19, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Lab Number: 211921
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Composite
Sample date: 05/11/95
Sampled by: Customer
At lab date: 05/11/95
Matrix: WATER

Data File: >F2634

Extracted Date: 05/12/95
Analysis Date: 05/17/95

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	10
2-Nitrophenol	U	U	10
Phenol	U	U	18
2,4-Dimethylphenol	U	U	10
2,4-Dichlorophenol	U	U	10
2,4,6-Trichlorophenol	U	U	10
Pentachlorophenol	U	U	10
2,4-Dinitrophenol	U	U	36
4,6-Dinitro-2-methylphenol	U	U	10
4-Nitrophenol	U	U	10
4-Chloro-3-methylphenol	U	U	10

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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LAU

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
MAY 19, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Lab Number: 211921
Data File: >F2634
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Composite
Sample date: 05/11/95
Extracted Date: 05/12/95
Sampled by: Customer
Analysis Date: 05/17/95
Column: 30m SPB-5
At lab date: 05/11/95
Dilution Factor: 10
Matrix: WATER
Init Sample vol= 1000ml
Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	10
bis(2-Chloroethyl)ether	U	U	10
1,3-Dichlorobenzene	U	U	24
1,4-Dichlorobenzene	U	U	23
1,2-Dichlorobenzene	U	U	24
bis(2-Chloroisopropyl)ether	U	U	12
N-Nitroso-di-n-propylamine	U	U	18
Hexachloroethane	U	U	29
Nitrobenzene	U	U	10
Isophorone	U	U	10
bis(2-Chloroethoxy)methane	U	U	10
1,2,4-Trichlorobenzene	U	U	23
Naphthalene	37	U	20
Hexachlorobutadiene	U	U	10
Hexachlorocyclopentadiene	U	U	15
2-Chloronaphthalene	U	U	20
Dimethyl phthalate	U	U	46
Acenaphthylene	U	U	15
2,6-Dinitrotoluene	U	U	10
Acenaphthene	U	U	19
2,4-Dinitrotoluene	U	U	10
Diethyl phthalate	U	U	23
4-Chlorophenyl phenyl ether	U	U	20
Fluorene	U	U	17
N-Nitrosodiphenylamine	U	U	10
1,2-Diphenylhydrazine (Azobenzene)	U	U	10
4-Bromophenyl phenyl ether	U	U	19
Hexachlorobenzene	U	U	19
Phenanthrene	U	U	9
Anthracene	U	U	8
Di-n-butylphthalate	U	U	25
Fluoranthene	U	U	6
Benzidine	U	U	10
Pyrene	U	U	5
Butyl benzylphthalate	U	U	12
3,3'-Dichlorobenzidine	U	U	10
Benzo(a)anthracene	U	U	5
Chrysene	U	U	5
bis(2-Ethylhexyl)phthalate	U	U	30
Di-n-octylphthalate	U	U	10
Benzo(b)fluoranthene	U	U	7

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
MAY 19, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Lab Number: 211921
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Composite
Sample date: 05/11/95
Sampled by: Customer
At lab date: 05/11/95
Matrix: WATER

Data File: >F2634

Extracted Date: 05/12/95
Analysis Date: 05/17/95

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Benzo(k)fluoranthene	U	U	7
Benzo(a)pyrene	U	U	5
Indeno(1,2,3-cd)pyrene	U	U	11
Dibenz(a,h)anthracene	U	U	5
Benzo(g,h,i)perylene	U	U	5

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
MAY 22, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 211921
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Composite
Sample date: 05/11/95
Sampled by: Customer
At lab date: 05/11/95
Matrix: WATER

Percent Moisture: 100 %

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Lead	0.020	U	0.004	05/17/95
Zinc	0.248	U	0.020	05/17/95

U = Not Detected

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Richard Levine, President

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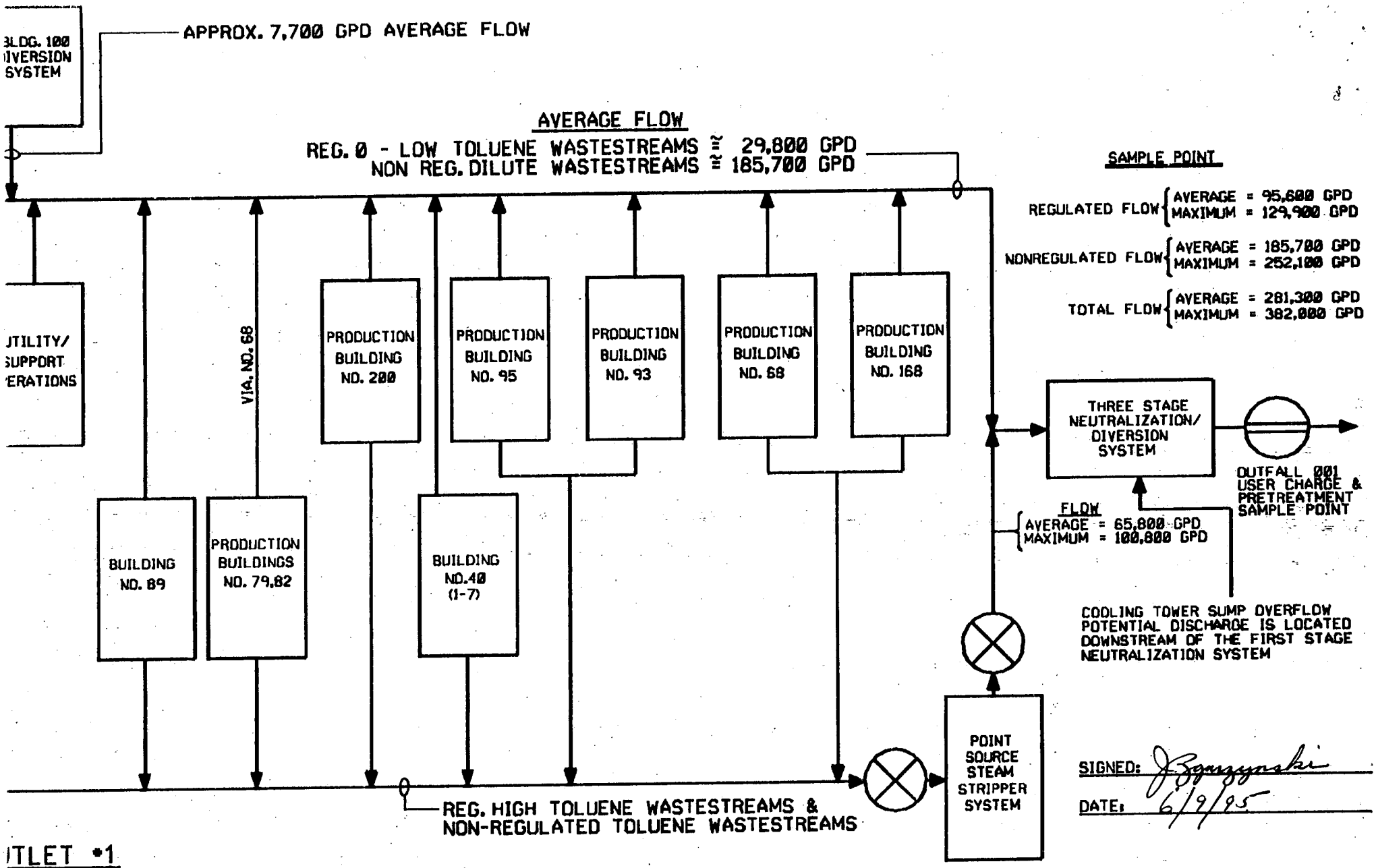
OTE



SIGNED: J. Bonzynski

DATE: 6/9/95

ITLET #1

TLET 03401021 FOR USER CHARGE/PRETREATMENT
LOCATED BY SAMPLE SHED BUILDING #11
CATED IN SOUTHWEST CORNER OF PROPERTY
CFR 414)

) = COMPLIANCE MONITORING STATION

) = MONITORING STATION

GIVAUDAN-ROURE CORPORATION

UPDATED
WASTE WATER PFD
OUTFALL 001
MAY 1995

ATTACHMENT B

MR-2 FORMS FOR :

DISCHARGE POINT 001, 002, 003

USER CHARGE SELF MONITORING REPORT

NAME Givaudan Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION SAME AS ABOVE

OUTLET DESIGNATION (17 DIGITS) 0340-1021-04626-0451

MONITORING PERIOD					
5	1	95	5	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
8,721,000 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 292687(000)

DATE	BOD 0310	TSS 0530	TDS-COD	DATE	BOD 0310	TSS 0530	TDS-COD
5/1	4042	64		5/17	1321	38	3361-1931
5/2	1096	52		5/18	3543	43	
5/3	3275	62	10804-5448	5/19	3904	32	
5/4	3521	87		5/20	9069	30	
5/5	4895	49		5/21	7748	21	
5/6	2131	37		5/22	6667	39	
5/7	2509	75		5/23	5796	32	
5/8	697	49		5/24	7177	76	19568-12093
5/9	1470	38		5/25	3743	93	
5/10	2377	18	2037-3594	5/26	3886	53	
5/11	5045	16		5/27	2928	15	
5/12	5706	46		5/28	3605	62	
5/13	5270	67		5/29	3114	365	
5/14	1792	39		5/30	538	74	
5/15	1609	46		5/31	1636	69	3074-2598
5/16	408	14					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE June 16, 1995

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 174 Delawanna Avenue - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1022-04626-0451

MONITORING PERIOD					
5	1	95	5	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
83,430 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 1557909(0)

DATE	BOD 0310	TSS 0530		DATE	BOD 0310	TSS 0530	
5/3	384	52					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE June 16, 1995

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 2 Peekay Drive - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1023-04626-0451

MONITORING PERIOD					
5	1	95	5	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
1,442,320 GALS*
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 720131(0)*

*FLOW FOR #4 ESTIMATED
FLOW FOR #3 METER READING
VOL. DISCHARGED TOTAL FOR #3 AND #4

DATE	BOD 0310	TSS 0530	COD	DATE	BOD 0310	TSS 0530	

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE June 16, 1995

PVSC FORM MR-2 REV.2. 1/86

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 001 **Date of Sample :** May 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : 8,721,000 gals. Average Flow : 281,322 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	COD (mg/L)
5/1/95	4042	64		
5/2/95	1096	52		
5/3/95	3275	62	10804	5448
5/4/95	3521	87		
5/5/95	4895	49		
5/6/95	2131	37		
5/7/95	2509	75		
5/8/95	697	49		
5/9/95	1470	38		
5/10/95	2377	18	2037	3594
5/11/95	5045	16		
5/12/95	5706	46		
5/13/95	5270	67		
5/14/95	1792	39		
5/15/95	1609	46		
5/16/95	408	14		
5/17/95	1321	38	3361	1931
5/18/95	3543	43		
5/19/95	3904	32		
5/20/95	9069	30		
5/21/95	7748	21		
5/22/95	6667	39		
5/23/95	5796	32		
5/24/95	7177	76	19568	12093
5/25/95	3743	93		
5/26/95	3886	53		
5/27/95	2928	15		
5/28/95	3605	62		
5/29/95	3114	365		
5/30/95	538	74		
5/31/95	1636	69	3074	2598

Patricia Hopkins
Laboratory Supervisor

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 002 **Date of Sample :** May 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : NA Average Flow : NA

Sampling Date	BOD (mg/L)	TSS (mg/L)
5/3/95	384	52

Patricia Hopkins
Laboratory Supervisor

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
6	01	95	6	30	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	102,700	138,000
Total Flow-gal/day	302,000	406,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days 30

N/A ***Flow on Sample date 6/7-6/8 - 315,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Benzene	Sample measurement	< 0.01314	< 0.01314	# / day	1	Grab
	Permit requirement	0.27421	0.64463	# / day	1	
Carbon Tetrachloride	Sample measurement	< 0.01576	< 0.01576	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Chlorobenzene	Sample measurement	< 0.01576	< 0.01576	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
1,2,4-Trichloro-benzene	Sample measurement	< 0.06042	< 0.06042	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
Hexachlorobenzene	Sample measurement	< 0.04991	< 0.04991	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,2-Dichloroethane	Sample measurement	< 0.04991	< 0.04991	# / day	1	Grab
	Permit requirement	0.86568	2.76056	# / day	1	
1,1,1-Trichloro-ethane	Sample measurement	< 0.01314	< 0.01314	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	
Hexachloroethane	Sample measurement	< 0.07619	< 0.07619	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,1-Dichloroethane	Sample measurement	< 0.03678	< 0.03678	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
6	01	95	6	30	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	102,700	138,000
Total Flow-gal/day	302,000	406,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 30

N / A ***Flow on Sample date 6/7-6/8 - 315,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,1,2-Trichloro-ethane	Sample measurement	< 0.01314	< 0.01314	# / day	1	Grab
	Permit requirement	0.15390	0.61079	# / day	1	
Chloroethane	Sample measurement	< 0.04729	< 0.04729	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Chloroform	Sample measurement	0.05254	0.05254	# / day	1	Grab
	Permit requirement	0.53384	1.56304	# / day	1	
1,2-Dichloro-benzene	Sample measurement	< 0.06305	< 0.06305	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,3-Dichloro-benzene	Sample measurement	< 0.06305	< 0.06305	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,4-Dichloro-benzene	Sample measurement	< 0.06042	< 0.06042	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,1-Dichloro-ethylene	Sample measurement	< 0.04466	< 0.04466	# / day	1	Grab
	Permit requirement	0.10581	0.28856	# / day	1	
1,2-Trans-Dichloroethylene	Sample measurement	< 0.04466	< 0.04466	# / day	1	Grab
	Permit requirement	0.12023	0.31742	# / day	1	
1,2-Dichloro-propane	Sample measurement	< 0.01576	< 0.01576	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
6	01	95	6	30	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	102,700	138,000
Total Flow-gal/day	302,000	406,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 30

N / A ***Flow on Sample date 6/7-6/8 - 315,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3-Dichloro-propylene	Sample measurement	< 0.01314	< 0.01314	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	
Ethylbenzene	Sample measurement	< 0.01839	< 0.01839	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Methylene Chloride	Sample measurement	< 0.03941	< 0.03941	# / day	1	Grab
	Permit requirement	0.17314	0.81759	# / day	1	
Methyl Chloride	Sample measurement	< 0.12085	< 0.12085	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Hexachloro-butadiene	Sample measurement	< 0.02627	< 0.02627	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
Nitrobenzene	Sample measurement	< 0.02627	< 0.02627	# / day	1	Comp.
	Permit requirement	10.75850	30.78942	# / day	1	
2-Nitrophenol	Sample measurement	< 0.02627	< 0.02627	# / day	1	Comp.
	Permit requirement	0.31261	1.11096	# / day	1	
4-Nitrophenol	Sample measurement	< 0.02627	< 0.02627	# / day	1	Comp.
	Permit requirement	0.77911	2.77018	# / day	1	
4,6-Dinitro-o-Cresol	Sample measurement	< 0.02627	< 0.02627	# / day	1	Comp.
	Permit requirement	0.37513	1.33219	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
06	01	95	06	30	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	102,700	138,000
Total Flow-gal/day	302,000	406,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 30

N/A ***Flow on Sample date 6/7-6/8 - 315,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Tetrachloro-ethylene	Sample measurement	< 0.01839	< 0.01839	# / day	1	Grab
	Permit requirement	0.250009	0.78873	# / day	1	
Toluene	Sample measurement	0.05254	0.05254	# / day	1	Grab
	Permit requirement	0.13466	0.35589	# / day	1	
Trichloro-ethylene	Sample measurement	< 0.01576	< 0.01576	# / day	1	Grab
	Permit requirement	0.12504	0.33184	# / day	1	
Vinyl Chloride	Sample measurement	< 0.04466	< 0.04466	# / day	1	Grab
	Permit requirement	0.46651	0.82721	# / day	1	
Total Cyanide	Sample measurement	< 0.02627	< 0.02627	# / day	1	Grab
	Permit requirement	2.01992	5.77121	# / day	1	
Total Lead	Sample measurement	0.01576	0.01576	# / day	1	Comp.
	Permit requirement	1.53899	3.31845	# / day	1	
Total Zinc	Sample measurement	0.30474	0.30474	# / day	1	Comp.
	Permit requirement	5.04981	12.55239	# / day	1	
Petroleum Hydrocarbons	Sample measurement	7.9	7.9	mg / L	1	Grab
	Permit requirement		100	mg / L	1	
	Sample measurement					
	Permit requirement					

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

Not Applicable

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

SEE ATTACHMENT 1

Explain Method for preserving samples

The laboratory preservation methods and holding times were performed in accordance with EPA/NJDEPE approved procedures and methodologies.

*** SEE ATTACHMENT 2 FOR SPECIFIC PRESERVATION METHODOLOGIES. ***

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Harold G. Thompson

Signature of Principal Executive or Authorized Agent

Harold G. Thompson

Senior Vice President / Operations

Type Name and Title

July 17, 1995

Date

Attachment 1

Outfall 001

Compliance statement

Givaudan-Roure's test readings were within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H and other regulatory agency limitations.

Attachment 2

PRESERVATION METHODOLOGIES

Volatile Organics Samples :
Cool to 4°C in an ice chest.

Total Cyanide Samples :
Preserve sample with 10 N NaOH to a pH of greater than 12. After preserving the sample, cool to 4°C in an ice chest.

Total Lead and Total Zinc Samples :
Acidify sample with Conc. HNO_3 to a pH of 2 or less.

Acid / Base Neutrals Extractables Samples :
Approximately 80 mg/l sodium thiosulfate is added to the bottle(s) in the laboratory prior to being brought into the field. After collection, the sample is cooled to 4°C in an ice chest.

Petroleum Hydrocarbon Samples :
Preserve sample with conc. H_2SO_4 or HCl to a pH of less than 2 and cool to 4°C in an ice chest.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
JUNE 15, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

VOLATILE ORGANIC ANALYSIS BY GC/MS

Lab Number: 213244
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Grab
Sample date: 06/08/95
Sampled by: Customer
At lab date: 06/08/95
Matrix: WATER

Data File: >G6837

Analysis Date: 06/10/95

Dilution Factor: 10

Init Sample vol= 0.5ml

Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	46
Bromomethane	U	U	38
Vinyl chloride	U	U	17
Chloroethane	U	U	18
Methylene chloride	U	U	15
Trichlorofluoromethane	U	U	15
1,1-Dichloroethene	U	U	17
1,1-Dichloroethane	U	U	14
trans-1,2-Dichloroethene	U	U	17
Chloroform	20	U	16
1,2-Dichloroethane	U	U	19
1,1,1-Trichloroethane	U	U	5
Carbon tetrachloride	U	U	6
Bromodichloromethane	U	U	6
1,2-Dichloropropane	U	U	6
cis-1,3-Dichloropropene	U	U	5
2-Chloroethyl vinyl ether	U	U	6
Trichloroethene	U	U	6
Dibromochloromethane	U	U	6
1,1,2-Trichloroethane	U	U	5
Benzene	U	U	5
trans-1,3-Dichloropropene	U	U	6
Bromoform	U	U	8
Tetrachloroethene	U	U	7
1,1,2,2-Tetrachloroethane	U	U	5
Toluene	20	U	8
Chlorobenzene	U	U	6
Ethylbenzene	U	U	7
p&m-Xylene	U	U	9
o-Xylene	U	U	9
total Xylenes	U	U	9
1,3-Dichlorobenzene	U	U	7
1,2-Dichlorobenzene	U	U	5
1,4-Dichlorobenzene	U	U	15

The total Xylenes result includes the sum of p&m-Xylene and o-Xylene.

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

ND: Not Determined.

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201-584-0330

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 Monthly
Sample Date: 06/08/95
Sampled by: Customer
At Lab Date: 06/08/95
Sample Matrix: Aqueous

Lab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
213244	001 Grab	7.9	U	0.57	06/14/95	06/14/95

U = Not detected

INDUSTRIAL CORROSION MANAGEMENT, INC.
Richard Levine, President

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DOU

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
JUNE 20, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 213244
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 Monthly
Sample ID: 001 Grab
Sample matrix: LIQUID (AQUEOUS)
Sample date: 06/08/95
Sampled by: Customer
At lab date: 06/08/95

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Cyanide, Total	U	U	0.010

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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Richard Levine, President

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BON

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
JUNE 15, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Lab Number: 213245
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Comp
Sample date: 06/08/95
Sampled by: Customer
At lab date: 06/08/95
Matrix: WATER

Data File: >J1259

Extracted Date: 06/09/95
Analysis Date: 06/13/95

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	10
2-Nitrophenol	U	U	10
Phenol	U	U	18
2,4-Dimethylphenol	U	U	10
2,4-Dichlorophenol	U	U	10
2,4,6-Trichlorophenol	U	U	10
Pentachlorophenol	U	U	10
2,4-Dinitrophenol	U	U	36
4,6-Dinitro-2-methylphenol	U	U	10
4-Nitrophenol	U	U	10
4-Chloro-3-methylphenol	U	U	10

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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201-584-0330
JUNE 15, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Lab Number: 213245
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Comp
Sample date: 06/08/95
Sampled by: Customer
At lab date: 06/08/95
Matrix: WATER

Data File: >J1259

Extracted Date: 06/09/95
Analysis Date: 06/13/95

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	10
bis(2-Chloroethyl)ether	U	U	10
1,3-Dichlorobenzene	U	U	24
1,4-Dichlorobenzene	U	U	23
1,2-Dichlorobenzene	U	U	24
bis(2-Chloroisopropyl)ether	U	U	12
N-Nitroso-di-n-propylamine	U	U	18
Hexachloroethane	U	U	29
Nitrobenzene	U	U	10
Isophorone	U	U	10
bis(2-Chloroethoxy)methane	U	U	10
1,2,4-Trichlorobenzene	U	U	23
Naphthalene	U	U	20
Hexachlorobutadiene	U	U	10
Hexachlorocyclopentadiene	U	U	15
2-Chloronaphthalene	U	U	20
Dimethyl phthalate	U	U	46
Acenaphthylene	U	U	15
2,6-Dinitrotoluene	U	U	10
Acenaphthene	U	U	19
2,4-Dinitrotoluene	U	U	10
Diethyl phthalate	U	U	23
4-Chlorophenyl phenyl ether	U	U	20
Fluorene	U	U	17
N-Nitrosodiphenylamine	U	U	10
1,2-Diphenylhydrazine (Azobenzene)	U	U	10
4-Bromophenyl phenyl ether	U	U	19
Hexachlorobenzene	U	U	19
Phenanthrene	U	U	9
Anthracene	U	U	8
Di-n-butylphthalate	U	U	25
Fluoranthene	U	U	6
Benzidine	U	U	10
Pyrene	U	U	5
Butyl benzylphthalate	U	U	12
3,3'-Dichlorobenzidine	U	U	10
Benzo(a)anthracene	U	U	5
Chrysene	U	U	5
bis(2-Ethylhexyl)phthalate	U	U	30
Di-n-octylphthalate	U	U	10
Benzo(b)fluoranthene	U	U	7

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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1152 Route 10
Randolph, NJ 07869
201-584-0330
JUNE 15, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Lab Number: 213245
Data File: >J1259
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Comp
Sample date: 06/08/95
Extracted Date: 06/09/95
Sampled by: Customer
Analysis Date: 06/13/95
Column: 30m SPB-5
At lab date: 06/08/95
Dilution Factor: 10
Matrix: WATER
Init Sample vol= 1000ml
Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Benzo(k)fluoranthene	U	U	7
Benzo(a)pyrene	U	U	5
Indeno(1,2,3-cd)pyrene	U	U	11
Dibenz(a,h)anthracene	U	U	5
Benzo(g,h,i)perylene	U	U	5

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
JUNE 19, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 213245
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001 Comp
Sample date: 06/08/95
Sampled by: Customer
At lab date: 06/08/95
Matrix: WATER

Percent Moisture: 100 %

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Lead	0.006	U	0.004	06/14/95
Zinc	0.116	U	0.020	06/14/95

U = Not Detected

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Richard Levine, President

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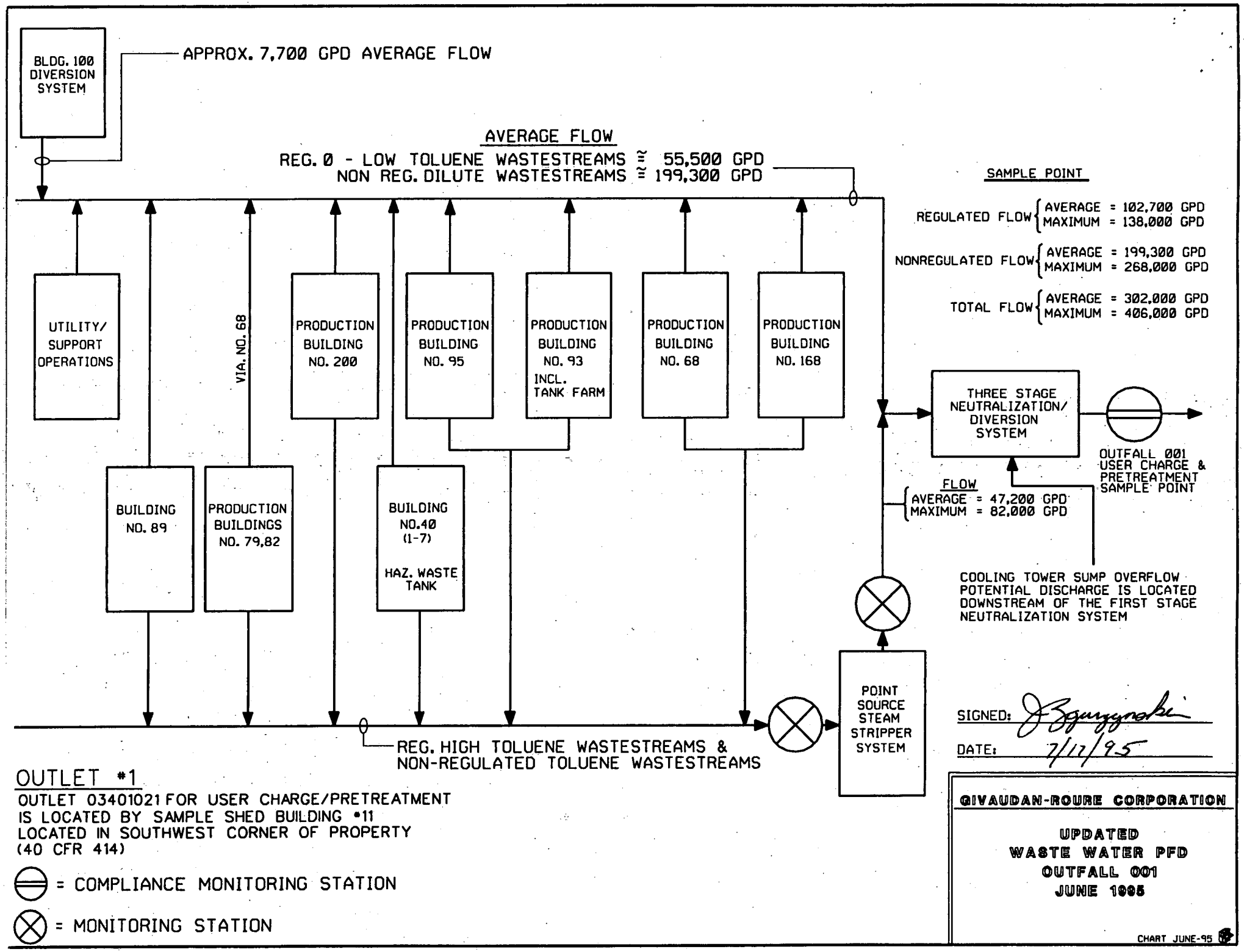
OTE


BLDG. 100 DIVERSION SYSTEM
APPROX. 7,700 GPD AVERAGE FLOW
AVERAGE FLOW
REG. 0 - LOW TOLUENE WASTESTREAMS ≅ 55,500 GPD
NON REG. DILUTE WASTESTREAMS ≅ 199,300 GPD
SAMPLE POINT
REGULATED FLOW { AVERAGE = 102,700 GPD MAXIMUM = 138,000 GPD
NONREGULATED FLOW { AVERAGE = 199,300 GPD MAXIMUM = 268,000 GPD
TOTAL FLOW { AVERAGE = 302,000 GPD MAXIMUM = 406,000 GPD
UTILITY/ SUPPORT OPERATIONS
VIA. NO. 68
PRODUCTION BUILDING NO. 200
PRODUCTION BUILDING NO. 95
PRODUCTION BUILDING NO. 93 INCL. TANK FARM
PRODUCTION BUILDING NO. 68
PRODUCTION BUILDING NO. 168
THREE STAGE NEUTRALIZATION/ DIVERSION SYSTEM
OUTFALL 001 USER CHARGE & PRETREATMENT SAMPLE POINT
FLOW
AVERAGE = 47,200 GPD
MAXIMUM = 82,000 GPD
BUILDING NO. 89
PRODUCTION BUILDINGS NO. 79,82
BUILDING NO.40 (1-7) HAZ. WASTE TANK
COOLING TOWER SUMP OVERFLOW POTENTIAL DISCHARGE IS LOCATED DOWNSTREAM OF THE FIRST STAGE NEUTRALIZATION SYSTEM
POINT SOURCE STEAM STRIPPER SYSTEM
REG. HIGH TOLUENE WASTESTREAMS & NON-REGULATED TOLUENE WASTESTREAMS
SIGNED:
DATE: 7/12/95
OUTLET #1
OUTLET 03401021 FOR USER CHARGE/PRETREATMENT IS LOCATED BY SAMPLE SHED BUILDING #11 LOCATED IN SOUTHWEST CORNER OF PROPERTY (40 CFR 414)
= COMPLIANCE MONITORING STATION
= MONITORING STATION
GIVAUDAN-ROURE CORPORATION
UPDATED WASTE WATER PFD OUTFALL 001 JUNE 1995
CHART JUNE-95

ATTACHMENT B

MR-2 FORMS FOR :

DISCHARGE POINT 001, 002, 003 & 004

USER CHARGE SELF MONITORING REPORT

NAME Givaudan Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION SAME AS ABOVE

OUTLET DESIGNATION (17 DIGITS) 0340-1021-04626-0451

MONITORING PERIOD					
6	1	95	6	30	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
9,059,000 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 301746(000)

DATE	BOD 0310	TSS 0530	TDS-COD	DATE	BOD 0310	TSS 0530	TDS-COD
6/1	4655	108		6/17	6727	36	
6/2	4479	47		6/18	7207	30	
6/3	3186	237		6/19	2084	22	
6/4	5526	82		6/20	3437	40	
6/5	2335	42		6/21	3485	18	7843-5459
6/6	3293	71		6/22	4955	15	
6/7	4234	78	10907-7209	6/23	4419	97	
6/8	6366	18		6/24	5586	13	
6/9	5255	36		6/25	4539	13	
6/10	3964	100		6/26	3677	13	
6/11	*	*		6/27	1928	21	
6/12	2461	81		6/28	5485	32	11695-6683
6/13	1122	75		6/29	5285	17	
6/14	5165	54	12811-3715	6/30	4922	25	
6/15	5435	25	*No Sample Taken - Due to Power Failure				
6/16	5616	58					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE July 17, 1995

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 174 Delawanna Avenue - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1022-04626-0451

MONITORING PERIOD					
6	1	95	6	30	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
118,910 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 1569800(0)

DATE	BOD 0310	TSS 0530		DATE	BOD 0310	TSS 0530	
6/7	162	452					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE July 17 1982

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 2 Peekay Drive - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1023-04626-0451

MONITORING PERIOD					
6	1	95	6	30	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
2,002,990 GALS*
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 1569800(0)*

*FLOW FOR #4 ESTIMATED
FLOW FOR #3 METER READING
VOL. DISCHARGED TOTAL FOR #3 AND #4

DATE	BOD 0310	TSS 0530	COD	DATE	BOD 0310	TSS 0530	

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE July 17, 1995

PVSC FORM MR-2 REV.2. 1/86

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 001 **Date of Sample :** June 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow :9,059,000 gals. Average Flow : 301,967 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	COD (mg/L)
6/1/95	4655	108		
6/2/95	4479	47		
6/3/95	3186	237		
6/4/95	5526	82		
6/5/95	2335	42		
6/6/95	3293	71		
6/7/95	4234	78	10907	7209
6/8/95	6366	18		
6/9/95	5255	36		
6/10/95	3964	100		
6/11/95	*	*		
6/12/95	2461	81		
6/13/95	1122	75		
6/14/95	5165	54	12811	3715
6/15/95	5435	25		
6/16/95	5616	58		
6/17/95	6727	36		
6/18/95	7207	30		
6/19/95	2084	22		
6/20/95	3437	40		
6/21/95	3485	18	7843	5459
6/22/95	4955	15		
6/23/95	4419	97		
6/24/95	5586	13		
6/25/95	4539	13		
6/26/95	3677	13		
6/27/95	1928	21		
6/28/95	5485	32	11695	6683
6/29/95	5285	17		
6/30/95	4922	25		

* No Sample Taken - Power Failure

Patricia Hopkins
Laboratory Supervisor

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 002 **Date of Sample :** June 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : NA Average Flow : NA

Sampling Date	BOD (mg/L)	TSS (mg/L)
6/7/95	162	452

Patricia Hopkins
Laboratory Supervisor

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
7	01	95	7	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	88,700	142,100
Total Flow-gal/day	260,900	418,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days 31

N/A ***Flow on Sample date 7/5-7/6 - 341,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Benzene	Sample measurement	< 0.00142	< 0.000142	# / day	1	Grab
	Permit requirement	0.27421	0.64463	# / day	1	
Carbon Tetrachloride	Sample measurement	< 0.00171	< 0.00171	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Chlorobenzene	Sample measurement	< 0.00171	< 0.00171	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
1,2,4-Trichloro-benzene	Sample measurement	< 0.06541	< 0.06541	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
Hexachlorobenzene	Sample measurement	< 0.05403	< 0.05403	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,2-Dichloroethane	Sample measurement	< 0.00569	< 0.00569	# / day	1	Grab
	Permit requirement	0.86568	2.76056	# / day	1	
1,1,1-Trichloro-ethane	Sample measurement	< 0.00142	< 0.00142	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	
Hexachloroethane	Sample measurement	< 0.08247	< 0.08247	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,1-Dichloroethane	Sample measurement	< 0.00284	< 0.00284	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	

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Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	88,700	142,100
Total Flow-gal/day	260,900	418,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N/A ***Flow on Sample date 7/5-7/6 - 341,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,1,2-Trichloroethane	Sample measurement	< 0.00142	< 0.00142	# / day	1	Grab
	Permit requirement	0.15390	0.61079	# / day	1	
Chloroethane	Sample measurement	< 0.00569	< 0.00569	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Chloroform	Sample measurement	< 0.00569	< 0.00569	# / day	1	Grab
	Permit requirement	0.53384	1.56304	# / day	1	
1,2-Dichlorobenzene	Sample measurement	< 0.06825	< 0.06825	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,3-Dichlorobenzene	Sample measurement	< 0.06825	< 0.06825	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,4-Dichlorobenzene	Sample measurement	< 0.06541	< 0.06541	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,1-Dichloroethylene	Sample measurement	< 0.00569	< 0.00569	# / day	1	Grab
	Permit requirement	0.10581	0.28856	# / day	1	
1,2-Trans-Dichloroethylene	Sample measurement	< 0.00569	< 0.00569	# / day	1	Grab
	Permit requirement	0.12023	0.31742	# / day	1	
1,2-Dichloropropane	Sample measurement	< 0.00171	< 0.00171	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	

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7	01	95	7	31	95
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For Reporting Period

	AVG	MAX
Regulated flow-gal/day	88,700	142,100
Total Flow-gal/day	260,900	418,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 7/5-7/6 - 341,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3-Dichloro-propylene	Sample measurement	< 0.00142	< 0.00142	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	
Ethylbenzene	Sample measurement	< 0.00199	< 0.00199	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Methylene Chloride	Sample measurement	< 0.00569	< 0.00569	# / day	1	Grab
	Permit requirement	0.17314	0.81759	# / day	1	
Methyl Chloride	Sample measurement	< 0.01422	< 0.01422	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Hexachloro-butadiene	Sample measurement	< 0.02844	< 0.02844	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
Nitrobenzene	Sample measurement	< 0.02844	< 0.02844	# / day	1	Comp.
	Permit requirement	10.75850	30.78942	# / day	1	
2-Nitrophenol	Sample measurement	< 0.02844	< 0.02844	# / day	1	Comp.
	Permit requirement	0.31261	1.11096	# / day	1	
4-Nitrophenol	Sample measurement	< 0.02844	< 0.02844	# / day	1	Comp.
	Permit requirement	0.77911	2.77018	# / day	1	
4,6-Dinitro-o-Cresol	Sample measurement	< 0.02844	< 0.02844	# / day	1	Comp.
	Permit requirement	0.37513	1.33219	# / day	1	

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Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

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07	01	95	07	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	88,700	142,100
Total Flow-gal/day	260,900	418,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N/A ***Flow on Sample date 7/5-7/6 - 341,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Tetrachloro-ethylene	Sample measurement	< 0.00199	< 0.00199	# / day	1	Grab
	Permit requirement	0.250009	0.78873	# / day	1	
Toluene	Sample measurement	< 0.00228	< 0.00228	# / day	1	Grab
	Permit requirement	0.13466	0.35589	# / day	1	
Trichloro-ethylene	Sample measurement	< 0.00171	< 0.00171	# / day	1	Grab
	Permit requirement	0.12504	0.33184	# / day	1	
Vinyl Chloride	Sample measurement	< 0.00569	< 0.00569	# / day	1	Grab
	Permit requirement	0.46651	0.82721	# / day	1	
Total Cyanide	Sample measurement	< 0.02844	< 0.02844	# / day	1	Grab
	Permit requirement	2.01992	5.77121	# / day	1	
Total Lead	Sample measurement	0.02275	0.02275	# / day	1	Comp.
	Permit requirement	1.53899	3.31845	# / day	1	
Total Zinc	Sample measurement	0.71952	0.71952	# / day	1	Comp.
	Permit requirement	5.04981	12.55239	# / day	1	
Petroleum Hydrocarbons	Sample measurement	23.0	23.0	mg / L	1	Grab
	Permit requirement		100	mg / L	1	
	Sample measurement					
	Permit requirement					

Certification of Non-use if applicable (use additional sheets)

Not Applicable

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

SEE ATTACHMENT 1

Explain Method for preserving samples

The laboratory preservation methods and holding times were performed in accordance with EPA/NJDEPE approved procedures and methodologies.

*** SEE ATTACHMENT 2 FOR SPECIFIC PRESERVATION METHODOLOGIES. ***

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.5(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Harold G. Thompson

Signature of Principal Executive or Authorized Agent

Harold G. Thompson

Senior Vice President / Operations

Type Name and Title

August 17 1995

Date

PVSC Form MR-1 Rev. 5 3/91 P2

Attachment 1

Outfall 001

Compliance statement

During the month of July, 1995 Givaudan-Roure's test readings were within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H and other regulatory agency limitations.

Attachment 2

PRESERVATION METHODOLOGIES

Volatile Organics Samples :
Cool to 4°C in an ice chest.

Total Cyanide Samples :
Preserve sample with 10 N NaOH to a pH of greater than 12. After preserving the sample, cool to 4°C in an ice chest.

Total Lead and Total Zinc Samples :
Acidify sample with Conc. HNO_3 to a pH of 2 or less.

Acid / Base Neutrals Extractables Samples :
Approximately 80 mg/l sodium thiosulfate is added to the bottle(s) in the laboratory prior to being brought into the field. After collection, the sample is cooled to 4°C in an ice chest.

Petroleum Hydrocarbon Samples :
Preserve sample with conc. H_2SO_4 or HCl to a pH of less than 2 and cool to 4°C in an ice chest.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
JULY 14, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

VOLATILE ORGANIC ANALYSIS BY GC/MS

Lab Number: 215188
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001-Grab
Sample date: 07/06/95
Sampled by: Customer
At lab date: 07/06/95
Matrix: WATER

Data File: >G7359

Analysis Date: 07/10/95

Dilution Factor: 1

Init Sample vol= 5ml

Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	5
Bromomethane	U	U	4
Vinyl chloride	U	U	2
Chloroethane	U	U	2
Methylene chloride	U	U	2
Trichlorofluoromethane	U	U	2
1,1-Dichloroethene	U	U	2
1,1-Dichloroethane	U	U	1
trans-1,2-Dichloroethene	U	U	2
Chloroform	U	U	2
1,2-Dichloroethane	U	U	2
1,1,1-Trichloroethane	U	U	0.5
Carbon tetrachloride	U	U	0.6
Bromodichloromethane	U	U	0.6
1,2-Dichloropropane	U	U	0.6
cis-1,3-Dichloropropene	U	U	0.5
2-Chloroethyl vinyl ether	U	U	0.6
Trichloroethene	U	U	0.6
Dibromochloromethane	U	U	0.6
1,1,2-Trichloroethane	U	U	0.5
Benzene	U	U	0.5
trans-1,3-Dichloropropene	U	U	0.6
Bromoform	U	U	0.8
Tetrachloroethene	U	U	0.7
1,1,2,2-Tetrachloroethane	U	U	0.5
Toluene	U	U	0.8
Chlorobenzene	U	U	0.6
Ethylbenzene	U	U	0.7
p&m-Xylene	U	U	0.9
o-Xylene	U	U	0.9
Total Xylenes	U	U	0.9
1,3-Dichlorobenzene	U	U	0.7
1,2-Dichlorobenzene	U	U	0.5
1,4-Dichlorobenzene	U	U	2

The total Xylenes result includes the sum of p&m-Xylene and o-Xylene.

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

ND: Not Determined.

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1152 Route 10
Randolph, NJ 07869
201-584-0330

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 Monthly
Sample Date: 07/06/95
Sampled by: Customer
At Lab Date: 07/06/95
Sample Matrix: Aqueous

Lab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
15188	001-Grab	23	U	0.63	07/13/95	07/13/95

U = Not detected

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Richard Levine, President

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201-584-0330
JULY 18, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 215188
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: 001 Monthly
Sample ID: 001-Grab
Sample matrix: LIQUID (AQUEOUS)
Sample date: 07/06/95
Sampled by: Customer
At lab date: 07/06/95

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Cyanide, Total	U	U	0.010

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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Randolph, NJ 07869
201-584-0330
JULY 14, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Lab Number: 215189
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001-Composite
Sample date: 07/06/95
Sampled by: Customer
At lab date: 07/06/95
Matrix: WATER

Data File: >I6105

Extracted Date: 07/10/95
Analysis Date: 07/12/95

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	10
2-Nitrophenol	U	U	10
Phenol	U	U	18
2,4-Dimethylphenol	U	U	10
2,4-Dichlorophenol	U	U	10
2,4,6-Trichlorophenol	U	U	10
Pentachlorophenol	U	U	10
2,4-Dinitrophenol	U	U	36
4,6-Dinitro-2-methylphenol	U	U	10
4-Nitrophenol	U	U	10
4-Chloro-3-methylphenol	U	U	10

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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1152 Route 10
Randolph, NJ 07869
201-584-0330
JULY 14, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Lab Number: 215189
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001-Composite
Sample date: 07/06/95
Sampled by: Customer
At lab date: 07/06/95
Matrix: WATER

Data File: >I6105

Extracted Date: 07/10/95
Analysis Date: 07/12/95

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	10
bis(2-Chloroethyl)ether	U	U	10
1,3-Dichlorobenzene	U	U	24
1,4-Dichlorobenzene	U	U	23
1,2-Dichlorobenzene	U	U	24
bis(2-Chloroisopropyl)ether	U	U	12
N-Nitroso-di-n-propylamine	U	U	18
Hexachloroethane	U	U	29
Nitrobenzene	U	U	10
Isophorone	U	U	10
bis(2-Chloroethoxy)methane	U	U	10
1,2,4-Trichlorobenzene	U	U	23
Naphthalene	U	U	20
Hexachlorobutadiene	U	U	10
Hexachlorocyclopentadiene	U	U	15
2-Chloronaphthalene	U	U	20
Dimethyl phthalate	U	U	46
Acenaphthylene	U	U	15
2,6-Dinitrotoluene	U	U	10
Acenaphthene	U	U	19
2,4-Dinitrotoluene	U	U	10
Diethyl phthalate	U	U	23
4-Chlorophenyl phenyl ether	U	U	20
Fluorene	U	U	17
N-Nitrosodiphenylamine	U	U	10
1,2-Diphenylhydrazine (Azobenzene)	U	U	10
4-Bromophenyl phenyl ether	U	U	19
Hexachlorobenzene	U	U	19
Phenanthrene	U	U	9
Anthracene	U	U	8
Di-n-butylphthalate	U	U	25
Fluoranthene	U	U	6
Benzidine	U	U	10
Pyrene	U	U	5
Butyl benzylphthalate	U	U	12
3,3'-Dichlorobenzidine	U	U	10
Benzo(a)anthracene	U	U	5
Chrysene	U	U	5
bis(2-Ethylhexyl)phthalate	U	U	30
Di-n-octylphthalate	U	U	10
Benzo(b)fluoranthene	U	U	7

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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201-584-0330
JULY 14, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Lab Number: 215189 Data File: >I6105
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001-Composite
Sample date: 07/06/95 Extracted Date: 07/10/95
Sampled by: Customer Analysis Date: 07/12/95 Column: 30m SPB-5
At lab date: 07/06/95 Dilution Factor: 10
Matrix: WATER
Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

rameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
nzo(k)fluoranthene	U	U	7
nzo(a)pyrene	U	U	5
deno(1,2,3-cd)pyrene	U	U	11
benz(a,h)anthracene	U	U	5
nzo(g,h,i)perylene	U	U	5

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
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IND: Indeterminable

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201-584-0330
JULY 18, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 215189
Client: GIVAUDAN-ROURE CORPORATION
Sample source: 001 Monthly
Sample ID: 001-Composite
Sample date: 07/06/95
Sampled by: Customer
At lab date: 07/06/95
Matrix: WATER

Percent Moisture: 100 %

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Lead	0.008	U	0.004	07/17/95
Zinc	0.253	U	0.020	07/17/95

U = Not Detected

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BON.

ATTACHMENT B

MR-2 FORMS FOR :

DISCHARGE POINT 001, 002, 003 & 004

USER CHARGE SELF MONITORING REPORT

NAME Givaudan Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION SAME AS ABOVE

OUTLET DESIGNATION (17 DIGITS) 0340-1021-04626-0451

MONITORING PERIOD					
7	1	95	7	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
8,089,000 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 309835(000)

DATE	BOD 0310	TSS 0530	TDS-COD	DATE	BOD 0310	TSS 0530	TDS-COD
7/1	2318	23		7/17	80	264	
7/2	2296	17		7/18	223	138	
7/3	874	34		7/19	234	107	288-720
7/4	544	14		7/20	240	88	
7/5	730	25	885-1589	7/21	477	70	
7/6	3826	28		7/22	*	*	
7/7	4521	38		7/23	*	*	
7/8	3168	18		7/24	1042	1446	
7/9	4162	17		7/25	259	80	
7/10	1650	20		7/26	92	57	5150-369
7/11	2361	117		7/27	78	54	
7/12	1934	135	8470-4979	7/28	63	35	
7/13	1363	65		7/29	41	14	
7/14	1764	625		7/30	23	8	
7/15	423	1116		7/31	19	4	
7/16	142	557	* NO SAMPLE	TAKEN	- POWER	DOWN IN PLANT	

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE August 17, 1994

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 174 Delawanna Avenue - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1022-04626-0451

MONITORING PERIOD					
7	1	95	7	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
159,650 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 1585765(0)

DATE	BOD 0310	TSS 0530		DATE	BOD 0310	TSS 0530	
7/12	255	56					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
[signature]	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE [illegible]

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 2 Peekay Drive - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1023-04626-0451

MONITORING PERIOD					
7	1	95	7	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
2,797,530 GALS*
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 195724(0)*

*FLOW FOR #4 ESTIMATED
FLOW FOR #3 METER READING
VOL. DISCHARGED TOTAL FOR #3 AND #4

DATE	BOD 0310	TSS 0530	COD	DATE	BOD 0310	TSS 0530	

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
[signature]	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE [illegible]

PVSC FORM MR-2 REV.2. 1/86

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 001 **Date of Sample :** July 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : 8,089,000 gals. Average Flow : 260,935 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	COD (mg/L)
7/1/95	2318	23		
7/2/95	2296	17		
7/3/95	874	34		
7/4/95	544	14		
7/5/95	730	25	885	1589
7/6/95	3826	28		
7/7/95	4521	38		
7/8/95	3168	18		
7/9/95	4162	17		
7/10/95	1650	20		
7/11/95	2361	117		
7/12/95	1934	135	8470	4979
7/13/95	1363	65		
7/14/95	1764	625		
7/15/95	423	1116		
7/16/95	142	557		
7/17/95	80	264		
7/18/95	223	138		
7/19/95	234	107	288	720
7/20/95	240	88		
7/21/95	477	70		
7/22/95	*	*		
7/23/95	*	*		
7/24/95	1042	1446		
7/25/95	259	80		
7/26/95	92	57	5150	369
7/27/95	78	54		
7/28/95	63	35		
7/29/95	41	14		
7/30/95	23	8		
7/31/95	19	4		

*No Sample taken - Power Shutdown

Patricia Hopkins
Laboratory Supervisor

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 FAX 201-365-0711

Project Description : Sewage Monitoring Report

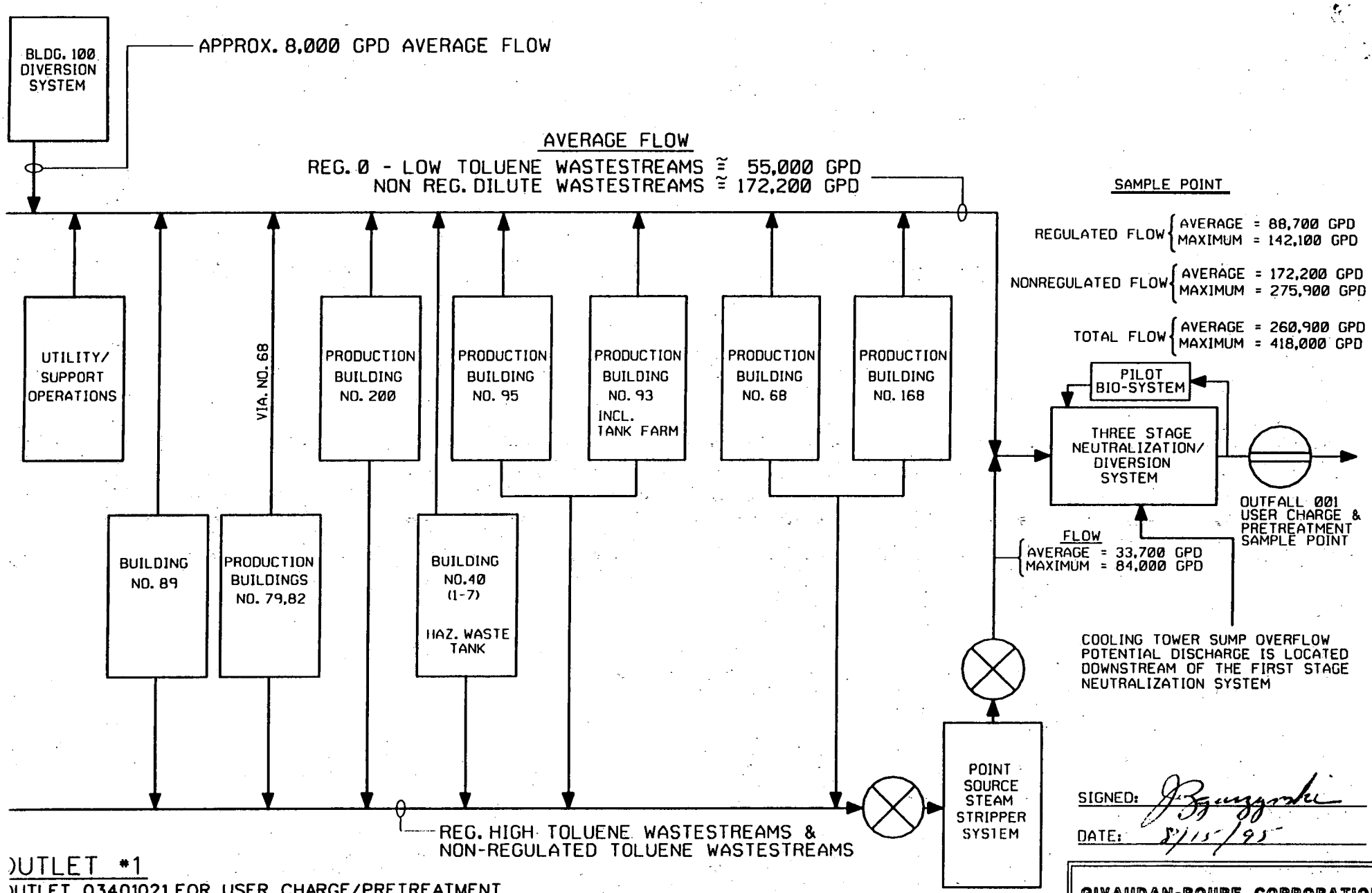
Sample ID : Discharge Point 002 **Date of Sample :** July 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : NA Average Flow : NA

Sampling Date	BOD (mg/L)	TSS (mg/L)
7/12/95	255	56

Patricia Hopkins
Laboratory Supervisor



)UTLET #1

)UTLET 03401021 FOR USER CHARGE/PRETREATMENT
S LOCATED BY SAMPLE SHED BUILDING #11
OCATED IN SOUTHWEST CORNER OF PROPERTY
40 CFR 414)

= COMPLIANCE MONITORING STATION

= MONITORING STATION

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
8	01	95	8	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	119,600	170,000
Total Flow-gal/day	351,800	500,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days 31

N/A ***Flow on Sample date 8/2-8/3 - 394,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Benzene	Sample measurement	< 0.00164	< 0.00164	# / day	1	Grab
	Permit requirement	0.27421	0.64463	# / day	1	
Carbon Tetrachloride	Sample measurement	< 0.00197	< 0.00197	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Chlorobenzene	Sample measurement	< 0.00197	< 0.00197	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
1,2,4-Trichloro-benzene	Sample measurement	< 0.07558	< 0.07558	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
Hexachlorobenzene	Sample measurement	< 0.06243	< 0.06243	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,2-Dichloroethane	Sample measurement	< 0.00657	< 0.00657	# / day	1	Grab
	Permit requirement	0.86568	2.76056	# / day	1	
1,1,1-Trichloro-ethane	Sample measurement	< 0.00164	< 0.00164	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	
Hexachloroethane	Sample measurement	< 0.09529	< 0.09529	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,1-Dichloroethane	Sample measurement	< 0.00329	< 0.00329	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
8	01	95	8	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	119,600	170,000
Total Flow-gal/day	351,800	500,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 8/2-8/3 - 394,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,1,2-Trichloro-ethane	Sample measurement	< 0.00164	< 0.00164	# / day	1	Grab
	Permit requirement	0.15390	0.61079	# / day	1	
Chloroethane	Sample measurement	< 0.00657	< 0.00657	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Chloroform	Sample measurement	0.05915	0.05915	# / day	1	Grab
	Permit requirement	0.53384	1.56304	# / day	1	
1,2-Dichloro-benzene	Sample measurement	< 0.07886	< 0.07886	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,3-Dichloro-benzene	Sample measurement	< 0.07886	< 0.07886	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,4-Dichloro-benzene	Sample measurement	< 0.07558	< 0.07558	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,1-Dichloro-ethylene	Sample measurement	< 0.00657	< 0.00657	# / day	1	Grab
	Permit requirement	0.10581	0.28856	# / day	1	
1,2-Trans-Dichloroethylene	Sample measurement	< 0.00657	< 0.00657	# / day	1	Grab
	Permit requirement	0.12023	0.31742	# / day	1	
1,2-Dichloro-propane	Sample measurement	< 0.00197	< 0.00197	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
8	01	95	8	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	119,600	170,000
Total Flow-gal/day	351,800	500,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 8/2-8/3 - 394,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3-Dichloro-propylene	Sample measurement	< 0.00164	< 0.00164	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	
Ethylbenzene	Sample measurement	< 0.0023	< 0.0023	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Methylene Chloride	Sample measurement	< 0.00986	< 0.00986	# / day	1	Grab
	Permit requirement	0.17314	0.81759	# / day	1	
Methyl Chloride	Sample measurement	< 0.01643	< 0.01643	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Hexachloro-butadiene	Sample measurement	< 0.03286	< 0.03286	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
Nitrobenzene	Sample measurement	< 0.03286	< 0.03286	# / day	1	Comp.
	Permit requirement	10.75850	30.78942	# / day	1	
2-Nitrophenol	Sample measurement	< 0.03286	< 0.03286	# / day	1	Comp.
	Permit requirement	0.31261	1.11096	# / day	1	
4-Nitrophenol	Sample measurement	< 0.03286	< 0.03286	# / day	1	Comp.
	Permit requirement	0.77911	2.77018	# / day	1	
4,6-Dinitro-o-Cresol	Sample measurement	< 0.03286	< 0.03286	# / day	1	Comp.
	Permit requirement	0.37513	1.33219	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
08	01	95	08	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	119,600	170,000
Total Flow-gal/day	351,800	500,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 8/2-8/3 - 394,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Tetrachloro-ethylene	Sample measurement	< 0.0023	< 0.0023	# / day	1	Grab
	Permit requirement	0.250009	0.78873	# / day	1	
Toluene	Sample measurement	0.15444	0.15444	# / day	1	Grab
	Permit requirement	0.13466	0.35589	# / day	1	
Trichloro-ethylene	Sample measurement	< 0.00197	< 0.00197	# / day	1	Grab
	Permit requirement	0.12504	0.33184	# / day	1	
Vinyl Chloride	Sample measurement	< 0.00657	< 0.00657	# / day	1	Grab
	Permit requirement	0.46651	0.82721	# / day	1	
Total Cyanide	Sample measurement	< 0.03286	< 0.03286	# / day	1	Grab
	Permit requirement	2.01992	5.77121	# / day	1	
Total Lead	Sample measurement	0.03615	0.03615	# / day	1	Comp.
	Permit requirement	1.53899	3.31845	# / day	1	
Total Zinc	Sample measurement	1.70541	1.70541	# / day	1	Comp.
	Permit requirement	5.04981	12.55239	# / day	1	
Petroleum Hydrocarbons	Sample measurement	3.9	3.9	mg / L	1	Grab
	Permit requirement		100	mg / L	1	
	Sample measurement					
	Permit requirement					

Certification of Non-use if applicable (use additional sheets)

Not Applicable

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

SEE ATTACHMENT 1

Explain Method for preserving samples

The laboratory preservation methods and holding times were performed in accordance with EPA/NJDEPE approved procedures and methodologies.

*** SEE ATTACHMENT 2 FOR SPECIFIC PRESERVATION METHODOLOGIES. ***

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Harold G. Thompson

Signature of Principal Executive or Authorized Agent

Harold G. Thompson

Senior Vice President / Operations

Type Name and Title

September 19, 1995

Date

PVSC Form MR-1 Rev. 5 3/91 P2

Attachment 1

Outfall 001

Compliance statement

During the month of August, 1995 Givaudan-Roure's test readings were within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H and other regulatory agency limitations with the following exceptions:

Brief low pH excursions occurred on August 1 and August 29, 1995. These minor incidents are detailed in the attached letter to the PVSC, dated August 2 and August 29, 1995.

An L.E.L. meter malfunction is detailed in the attached letter of September 12, 1995 to Mr. A. Caltagirona from Mr. A. Soos.

The toluene issue continues to be addressed in a consent order entered into with the PVSC. The attached ICM analysis reports 47 μg/l (parts per billion), calculated average mass limit of 0.15444 #/day exceeded the Permit requirement of 0.13466 #/day. The calculated maximum mass limit of 0.15444 #/day was below the permit requirement of 0.35589 #/day. Our efforts continue with operation of the steam stripper and point source control. We are also evaluating end of the plant biological treatment utilizing an immobilized cell bioreactor pilot plant study.

The reported diethyl phthalate result of 5,500 μg/l is noted and under evaluation.

Attachment 2

PRESERVATION METHODOLOGIES

Volatile Organics Samples :
Cool to 4°C in an ice chest.

Total Cyanide Samples :
Preserve sample with 10 N NaOH to a pH of greater than 12. After preserving the sample, cool to 4°C in an ice chest.

Total Lead and Total Zinc Samples :
Acidify sample with Conc. HNO_3 to a pH of 2 or less.

Acid / Base Neutrals Extractables Samples :
Approximately 80 mg/l sodium thiosulfate is added to the bottle(s) in the laboratory prior to being brought into the field. After collection, the sample is cooled to 4°C in an ice chest.

Petroleum Hydrocarbon Samples :
Preserve sample with conc. H_2SO_4 or HCl to a pH of less than 2 and cool to 4°C in an ice chest.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
(201) 584-0330

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY CHRONICLE

DATE SAMPLED: 08/03/95

PRESERVATIVE: 4 degrees C; HCl

DATE RECEIPT/REFRIGERATION: 08/03/95

C/MS VOLATILES:

LAB ID #	DATE ANALYZED
217309	08/07/95
217312	08/07/95

DEPT. SUPERVISOR: [illegible]

QA REVIEW & APPROVAL: Carla Thorp

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
(201) 584-0330

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY CHRONICLE

DATE SAMPLED: 08/03/95

PRESERVATIVE: 4 degrees C

DATE RECEIPT/REFRIGERATION: 08/03/95

C/MS SEMI-VOLATILES:

LAB ID #	ACIDS DATE EXTRACTED	ACIDS DATE ANALYZED	BASE/NEUTRAL DATE EXTRACTED	BASE/NEUTRAL DATE ANALYZED
217310	08/08/95	08/12/95 08/15/95	08/08/95	08/12/95 08/15/95
217313	08/08/95	08/12/95	08/08/95	08/12/95

DEPT. SUPERVISOR: [signature]

QA REVIEW & APPROVAL: [signature]

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
(201) 584-0330

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY CHRONICLE

DATE SAMPLED: 08/03/95

PRESERVATIVE: 4 degrees C; HNO3

DATE RECEIPT/REFRIGERATION: 08/03/95

ETALS:

LAB ID #	DATE ANALYZED METALS	DATE ANALYZED MERCURY
217310	08/09/95	08/09/95
217313	08/09/95	08/09/95

DEPT. SUPERVISOR: Jane K. Muedel

QA REVIEW & APPROVAL: Carla A. Hoop

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
(201) 584-0330

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY CHRONICLE

DATE SAMPLED: 08/03/95

PRESERVATIVE: 4 degrees C; H2SO4

DATE RECEIPT/REFRIGERATION: 08/03/95

ETROLEUM HYDROCARBONS:

LAB ID #	DATE EXTRACTED	DATE ANALYZED
217309	08/08/95	08/08/95
217312	08/08/95	08/08/95

DEPT. SUPERVISOR: [signature]

QA REVIEW & APPROVAL: Carla Mango

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
(201) 584-0330

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY CHRONICLE

DATE SAMPLED: 08/03/95

PRESERVATIVE: 4 degrees C; H2SO4***, zinc acetate+NaOH+++, NaOH****

DATE RECEIPT/REFRIGERATION: 08/03/95

GENERAL ANALYTICAL:

LAB ID #	PARAMETER	DATE ANALYZED
217308	Phenol***	08/11/95
217309	Cyanide, Total****	08/07/95
	Oil and Grease***	08/16/95
217310	Ammonia (as N)***	08/17/95
	Total Kjeldahl Nitrogen (as N)***	08/15/95
	Ortho Phosphate (as P)	08/04/95
	Sulfide+++	08/08/95
	Total Organic Carbon (TOC)***	08/16/95
	Total Suspended Solids	08/08/95
	Total Solids	08/08/95
	Total Mineral Solids	08/08/95
	Suspended Mineral Solids	08/08/95
217311	Phenol***	08/11/95
217312	Cyanide, Total****	08/07/95
	Oil and Grease***	08/16/95
217313	Ammonia (as N)***	08/17/95
	Total Kjeldahl Nitrogen (as N)***	08/15/95
	Ortho Phosphate (as P)	08/04/95
	Sulfide+++	08/08/95
	Total Organic Carbon (TOC)***	08/16/95
	Total Suspended Solids	08/08/95
	Total Solids	08/08/95
	Total Mineral Solids	08/08/95
	Suspended Mineral Solids	08/08/95

DEPT. SUPERVISOR: [signature]

QA REVIEW & APPROVAL: Carla A. Thorp

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
AUGUST 17, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 217308
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Permit Renewal
Sample ID: 001 Comp #1
Sample matrix: LIQUID (AQUEOUS)
Sample date: 08/03/95
Sampled by: Customer
At lab date: 08/03/95

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Phenol	0.121	U	0.050

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Richard Levine, President

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BON

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
AUGUST 11, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

VOLATILE ORGANIC ANALYSIS BY GC/MS

Lab Number: 217309
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Permit Renewal
Sample ID: 001 Grab
Sample date: 08/03/95
Sampled by: Customer
At lab date: 08/03/95
Matrix: WATER

Data File: >G7988

Analysis Date: 08/07/95

Dilution Factor: 1

Init Sample vol= 5ml

Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

arameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
hloromethane	U	U	5
romomethane	U	U	4
inyl chloride	U	U	2
hloroethane	U	U	2
ethylene chloride	U	U	3
richlorofluoromethane	U	U	2
,1-Dichloroethene	U	U	2
,1-Dichloroethane	U	U	1
rans-1,2-Dichloroethene	U	U	2
hloroform	18	U	2
,2-Dichloroethane	U	U	2
,1,1-Trichloroethane	U	U	0.5
arbon tetrachloride	U	U	0.6
romodichloromethane	3	U	0.6
,2-Dichloropropane	U	U	0.6
is-1,3-Dichloropropene	U	U	0.5
-Chloroethyl vinyl ether	U	U	0.6
richloroethene	U	U	0.6
ibromochloromethane	U	U	0.6
,1,2-Trichloroethane	U	U	0.5
enzene	U	U	0.5
rans-1,3-Dichloropropene	U	U	0.6
romoform	U	U	0.8
etrachloroethene	U	U	0.7
,1,2,2-Tetrachloroethane	U	U	0.5
oluene	47	U	0.8
hlorobenzene	U	U	0.6
thylbenzene	U	U	0.7
&m-Xylene	5	U	0.9
-Xylene	1	U	0.9
otal Xylenes	6	U	0.9
,3-Dichlorobenzene	U	U	0.7
,2-Dichlorobenzene	U	U	0.5
,4-Dichlorobenzene	U	U	2

The total Xylenes result includes the sum of p&m-Xylene and o-Xylene.

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

ND: Not Determined.

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Randolph, NJ 07869
201-584-0330

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Permit Renewal
Sample Date: 08/03/95
Sampled by: Customer
At Lab Date: 08/03/95
Sample Matrix: Aqueous

Lab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
17309	001 Grab	3.9	U	0.57	08/08/95	08/08/95

U = Not detected

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AUGUST 17, 1995

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NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 217309
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Permit Renewal
Sample ID: 001 Grab
Sample matrix: LIQUID (AQUEOUS)
Sample date: 08/03/95
Sampled by: Customer
At lab date: 08/03/95

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Cyanide, Total	U	U	0.010
Oil and Grease	40.3	U	5.0

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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BON

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NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Data File: >F3119

Lab Number: 217310
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Permit Renewal
Sample ID: 001 Comp #2
Sample date: 08/03/95
Sampled by: Customer
At lab date: 08/03/95
Matrix: WATER

Extracted Date: 08/08/95
Analysis Date: 08/12/95
08/15/95

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	10
2-Nitrophenol	U	U	10
Phenol	U	U	18
2,4-Dimethylphenol	U	U	10
2,4-Dichlorophenol	U	U	10
2,4,6-Trichlorophenol	U	U	10
Pentachlorophenol	U	U	10
2,4-Dinitrophenol	U	U	36
4,6-Dinitro-2-methylphenol	U	U	10
4-Nitrophenol	U	U	10
4-Chloro-3-methylphenol	U	U	10

ug/l = micrograms/liter or ppb

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J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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MEG

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NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Lab Number: 217310
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Permit Renewal
Sample ID: 001 Comp #2
Sample date: 08/03/95
Sampled by: Customer
At lab date: 08/03/95
Matrix: WATER

Data File: >F3119

Extracted Date: 08/08/95
Analysis Date: 08/12/95 Column: 30m SPB-5
08/15/95 Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	10
bis(2-Chloroethyl)ether	U	U	10
1,3-Dichlorobenzene	U	U	24
1,4-Dichlorobenzene	U	U	23
1,2-Dichlorobenzene	U	U	24
bis(2-Chloroisopropyl)ether	U	U	12
N-Nitroso-di-n-propylamine	U	U	18
Hexachloroethane	U	U	29
Nitrobenzene	U	U	10
Isophorone	U	U	10
bis(2-Chloroethoxy)methane	U	U	10
1,2,4-Trichlorobenzene	U	U	23
Naphthalene	U	U	20
Hexachlorobutadiene	U	U	10
Hexachlorocyclopentadiene	U	U	15
2-Chloronaphthalene	U	U	20
Dimethyl phthalate	U	U	46
Acenaphthylene	U	U	15
2,6-Dinitrotoluene	U	U	10
Acenaphthene	U	U	19
2,4-Dinitrotoluene	U	U	10
Diethyl phthalate	5500	U	23
4-Chlorophenyl phenyl ether	U	U	20
Fluorene	U	U	17
N-Nitrosodiphenylamine	U	U	10
1,2-Diphenylhydrazine (Azobenzene)	U	U	10
4-Bromophenyl phenyl ether	U	U	19
Hexachlorobenzene	U	U	19
Phenanthrene	U	U	9
Anthracene	U	U	8
Di-n-butylphthalate	U	U	25
Fluoranthene	U	U	6
Benzidine	U	U	10
Pyrene	U	U	5
Butyl benzylphthalate	U	U	12
3,3'-Dichlorobenzidine	U	U	10
Benzo(a)anthracene	U	U	5
Chrysene	U	U	5
bis(2-Ethylhexyl)phthalate	U	U	30
Di-n-octylphthalate	U	U	10
Benzo(b)fluoranthene	U	U	7

ug/l = micrograms/liter or ppb

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J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Data File: >F3119

Lab Number: 217310
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Permit Renewal
Sample ID: 001 Comp #2
Sample date: 08/03/95
Sampled by: Customer
At lab date: 08/03/95
Matrix: WATER

Extracted Date: 08/08/95
Analysis Date: 08/12/95
08/15/95

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Benzo(k)fluoranthene	U	U	7
Benzo(a)pyrene	U	U	5
Indeno(1,2,3-cd)pyrene	U	U	11
Dibenz(a,h)anthracene	U	U	5
Benzo(g,h,i)perylene	U	U	5

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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US EPA Historic CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 217310
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Permit Renewal
Sample ID: 001 Comp #2
Sample date: 08/03/95
Sampled by: Customer
At lab date: 08/03/95
Matrix: WATER

Percent Moisture: 100 %

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Arsenic	0.004	U	0.004	08/09/95
Cadmium	U	U	0.005	08/09/95
Chromium	U	U	0.010	08/09/95
Copper	0.093	U	0.025	08/09/95
Iron	0.887	U	0.050	08/09/95
Lead	0.011	U	0.004	08/09/95
Mercury	U	U	0.0005	08/09/95
Nickel	U	U	0.025	08/09/95
Zinc	0.519	U	0.020	08/09/95

U = Not Detected

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LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 217310
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Permit Renewal
Sample ID: 001 Comp #2
Sample matrix: LIQUID (AQUEOUS)
Sample date: 08/03/95
Sampled by: Customer
At lab date: 08/03/95

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Ammonia (as N)	0.32	U	0.20
Total Kjeldahl Nitrogen (as N)	4.55	U	0.50
Ortho Phosphate (as P)	0.520	U	0.050
Sulfide	U	U	1.0
Total Organic Carbon (TOC)	215	U	1.0
Total Suspended Solids	23	U	2
Total Solids	4480	U	10
Total Mineral Solids	3930	U	10
Suspended Mineral Solids	17	U	2

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 217311
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Permit Renewal
Sample ID: 002 Comp #1
Sample matrix: LIQUID (AQUEOUS)
Sample date: 08/03/95
Sampled by: Customer
At lab date: 08/03/95

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Phenol	0.603	U	0.050

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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NJ #14116 NY #11376
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VOLATILE ORGANIC ANALYSIS BY GC/MS

Lab Number: 217312
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Permit Renewal
Sample ID: 002 Grab
Sample date: 08/03/95
Sampled by: Customer
At lab date: 08/03/95
Matrix: WATER

Data File: >G7990

Analysis Date: 08/07/95

Dilution Factor: 1

Init Sample vol= 5ml

Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	5
Bromomethane	U	U	4
Vinyl chloride	U	U	2
Chloroethane	U	U	2
Methylene chloride	U	U	3
Trichlorofluoromethane	U	U	2
1,1-Dichloroethene	U	U	2
1,1-Dichloroethane	U	U	1
trans-1,2-Dichloroethene	U	U	2
Chloroform	5	U	2
1,2-Dichloroethane	U	U	2
1,1,1-Trichloroethane	U	U	0.5
Carbon tetrachloride	U	U	0.6
Bromodichloromethane	U	U	0.6
1,2-Dichloropropane	U	U	0.6
cis-1,3-Dichloropropene	U	U	0.5
2-Chloroethyl vinyl ether	U	U	0.6
Trichloroethene	U	U	0.6
Dibromochloromethane	U	U	0.6
1,1,2-Trichloroethane	U	U	0.5
Benzene	U	U	0.5
trans-1,3-Dichloropropene	U	U	0.6
Bromoform	U	U	0.8
Tetrachloroethene	U	U	0.7
1,1,2,2-Tetrachloroethane	U	U	0.5
Toluene	2	U	0.8
Chlorobenzene	U	U	0.6
Ethylbenzene	U	U	0.7
p&m-Xylene	U	U	0.9
o-Xylene	U	U	0.9
total Xylenes	U	U	0.9
1,3-Dichlorobenzene	U	U	0.7
1,2-Dichlorobenzene	U	U	0.5
1,4-Dichlorobenzene	U	U	2

The total Xylenes result includes the sum of p&m-Xylene and o-Xylene.

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

ND: Not Determined.

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AUGUST 17, 1995

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NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 217312
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Permit Renewal
Sample ID: 002 Grab
Sample matrix: LIQUID (AQUEOUS)
Sample date: 08/03/95
Sampled by: Customer
At lab date: 08/03/95

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Cyanide, Total	U	U	0.010
Oil and Grease	166	U	5.0

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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NJ #14116 NY #11376
US EPA Historic CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Permit Renewal
Sample Date: 08/03/95
Sampled by: Customer
At Lab Date: 08/03/95
Sample Matrix: Aqueous

Lab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
17312	002 Grab	27	U	0.65	08/08/95	08/08/95

U = Not detected

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US EPA Historic CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Data File: >F3120

Lab Number: 217313
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Permit Renewal
Sample ID: 002 Comp #2
Sample date: 08/03/95
Sampled by: Customer
At lab date: 08/03/95
Matrix: WATER

Extracted Date: 08/08/95
Analysis Date: 08/12/95

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	10
2-Nitrophenol	U	U	10
Phenol	U	U	18
2,4-Dimethylphenol	U	U	10
2,4-Dichlorophenol	U	U	10
2,4,6-Trichlorophenol	U	U	10
Pentachlorophenol	U	U	10
2,4-Dinitrophenol	U	U	36
4,6-Dinitro-2-methylphenol	U	U	10
4-Nitrophenol	U	U	10
4-Chloro-3-methylphenol	U	U	10

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
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IND: Indeterminable

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NJ #14116 NY #11376
US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Data File: >F3120

Lab Number: 217313
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Permit Renewal
Sample ID: 002 Comp #2
Sample date: 08/03/95
Sampled by: Customer
At lab date: 08/03/95
Matrix: WATER

Extracted Date: 08/08/95
Analysis Date: 08/12/95

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	10
bis(2-Chloroethyl)ether	U	U	10
1,3-Dichlorobenzene	U	U	24
1,4-Dichlorobenzene	U	U	23
1,2-Dichlorobenzene	U	U	24
bis(2-Chloroisopropyl)ether	U	U	12
N-Nitroso-di-n-propylamine	U	U	18
Hexachloroethane	U	U	29
Nitrobenzene	U	U	10
Isophorone	U	U	10
bis(2-Chloroethoxy)methane	U	U	10
1,2,4-Trichlorobenzene	U	U	23
Naphthalene	U	U	20
Hexachlorobutadiene	U	U	10
Hexachlorocyclopentadiene	U	U	15
2-Chloronaphthalene	U	U	20
Dimethyl phthalate	U	U	46
Acenaphthylene	U	U	15
2,6-Dinitrotoluene	U	U	10
Acenaphthene	U	U	19
2,4-Dinitrotoluene	U	U	10
Diethyl phthalate	U	U	23
4-Chlorophenyl phenyl ether	U	U	20
Fluorene	U	U	17
N-Nitrosodiphenylamine	U	U	10
1,2-Diphenylhydrazine (Azobenzene)	U	U	10
4-Bromophenyl phenyl ether	U	U	19
Hexachlorobenzene	U	U	19
Phenanthrene	U	U	9
Anthracene	U	U	8
Di-n-butylphthalate	U	U	25
Fluoranthene	U	U	6
Benzidine	U	U	10
Pyrene	U	U	5
Butyl benzylphthalate	U	U	12
3,3'-Dichlorobenzidine	U	U	10
Benzo(a)anthracene	U	U	5
Chrysene	U	U	5
bis(2-Ethylhexyl)phthalate	80	U	30
Di-n-octylphthalate	U	U	10
Benzo(b)fluoranthene	U	U	7

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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US EPA Historic CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Data File: >F3120

Lab Number: 217313
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Permit Renewal
Sample ID: 002 Comp #2
Sample date: 08/03/95
Sampled by: Customer
At lab date: 08/03/95
Matrix: WATER

Extracted Date: 08/08/95
Analysis Date: 08/12/95

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Benzo(k)fluoranthene	U	U	7
Benzo(a)pyrene	U	U	5
Indeno(1,2,3-cd)pyrene	U	U	11
Dibenz(a,h)anthracene	U	U	5
Benzo(g,h,i)perylene	U	U	5

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
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IND: Indeterminable

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1152 Route 10
Randolph, NJ 07869
201-584-0330
AUGUST 11, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 217313
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Permit Renewal
Sample ID: 002 Comp #2
Sample date: 08/03/95
Sampled by: Customer
At lab date: 08/03/95
Matrix: WATER

Percent Moisture: 100 %

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Arsenic	U	U	0.004	08/09/95
Cadmium	U	U	0.005	08/09/95
Chromium	U	U	0.010	08/09/95
Copper	0.131	U	0.025	08/09/95
Iron	0.601	U	0.050	08/09/95
Lead	0.023	U	0.004	08/09/95
Mercury	U	U	0.0005	08/09/95
Nickel	U	U	0.025	08/09/95
Zinc	0.213	U	0.020	08/09/95

U = Not Detected

INDUSTRIAL CORROSION MANAGEMENT, INC.
Richard Levine, President

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
AUGUST 17, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA Historic CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 217313
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Permit Renewal
Sample ID: 002 Comp #2
Sample matrix: LIQUID (AQUEOUS)
Sample date: 08/03/95
Sampled by: Customer
At lab date: 08/03/95

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Ammonia (as N)	2.29	U	0.20
Total Kjeldahl Nitrogen (as N)	25.8	U	0.50
Ortho Phosphate (as P)	2.52	U	0.050
Sulfide	U	U	1.0
Total Organic Carbon (TOC)	230	U	1.0
Total Suspended Solids	60	U	2
Total Solids	400	U	10
Total Mineral Solids	274	U	10
Suspended Mineral Solids	41	U	2

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Richard Levine, President

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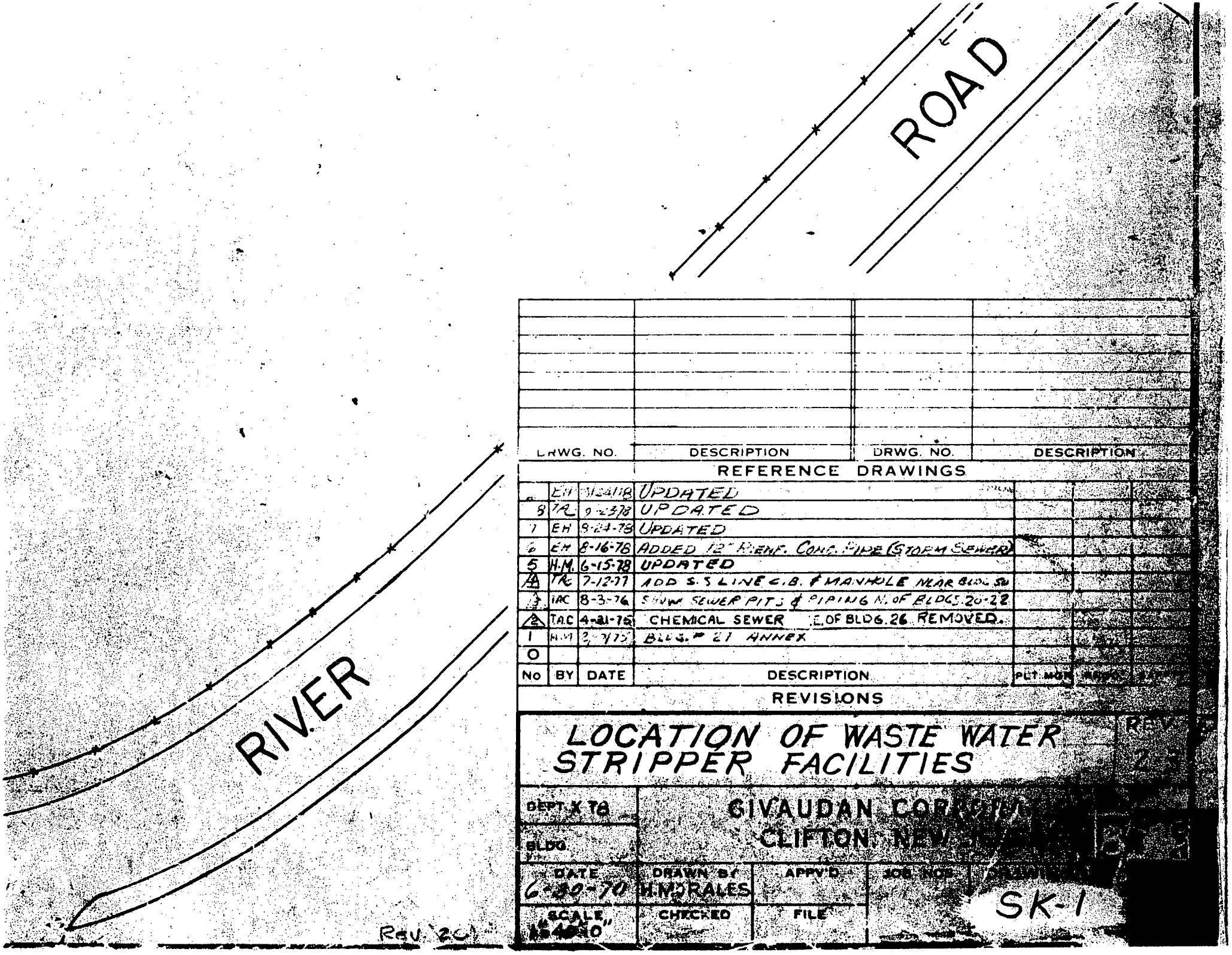
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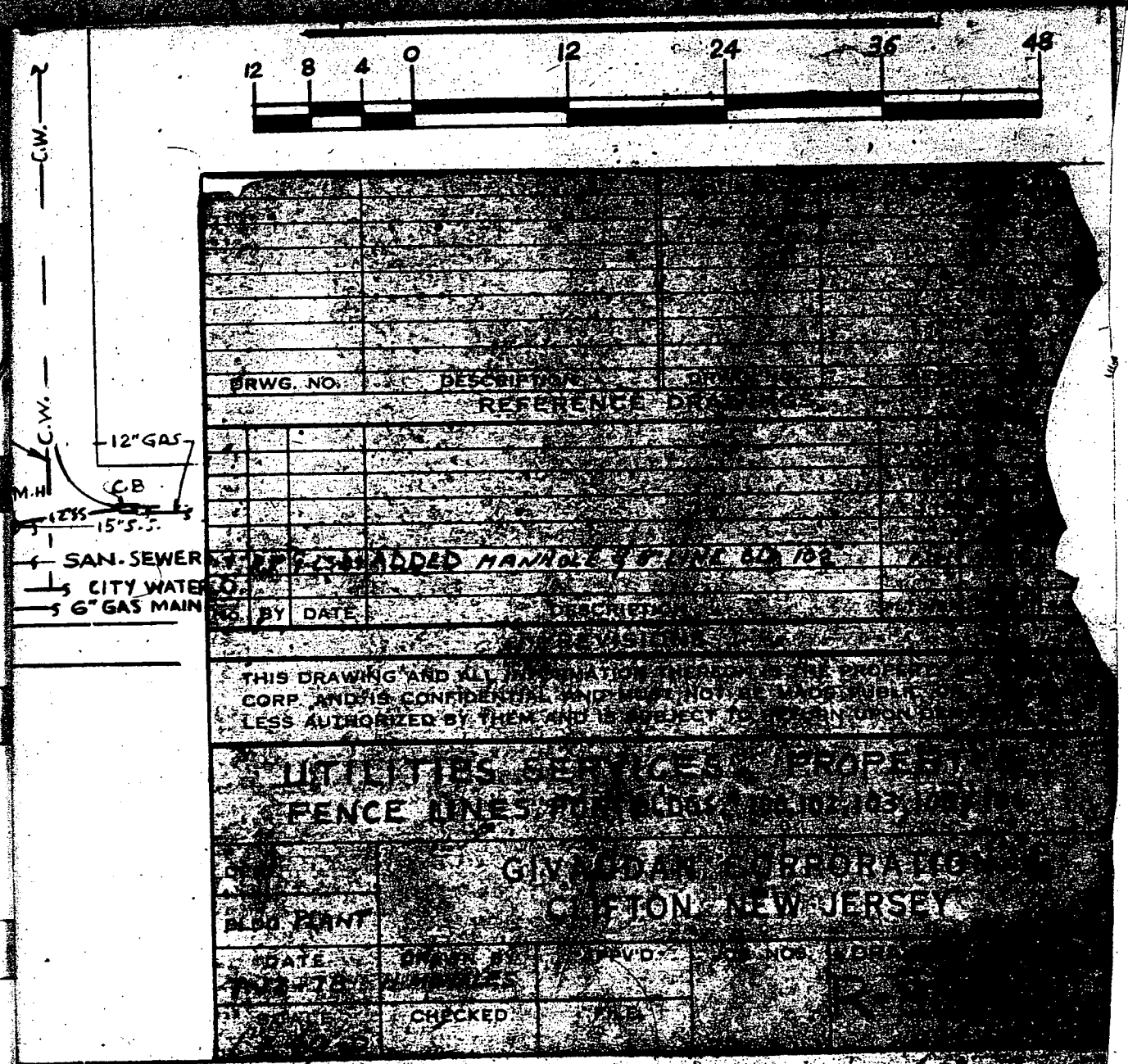
RIVER
DRWG. NO.
DESCRIPTION
DRWG. NO.
DESCRIPTION
REFERENCE DRAWINGS
EH 11-24-78 UPDATED
8 TAC 9-23-78 UPDATED
7 EH 8-24-78 UPDATED
6 EH 8-16-78 ADDED 12" REINF. CONC. PIPE (STORM SEWER)
5 H.M. 6-15-78 UPDATED
4 TAC 7-12-77 ADD S.S LINE C.B. & MANHOLE NEAR BLDG. 20
3 TAC 8-3-76 SHOW SEWER PITS & PIPING N. OF BLDGS. 20-22
2 TAC 4-21-75 CHEMICAL SEWER E. OF BLDG. 26 REMOVED.
1 H.M. 3-9-72 BLDG. # 21 ANNEX
0
No BY DATE DESCRIPTION
REVISIONS
LOCATION OF WASTE WATER STRIPPER FACILITIES
DEPT. X 78
BLDG.
GIVAUDAN CORP.
CLIFTON, NEW
DATE 6-30-70
DRAWN BY H.M. RALES
APPV'D
JOB NO.
SCALE 1" = 40'-0"
CHECKED
FILE
SK-1
REV. 2


12 8 4 0 12 24 36 48
C.W.
C.W.
12" GAS
M.H.
C.B.
15" S.S.
SAN. SEWER
CITY WATER
6" GAS MAIN
DRWG. NO.
DESCRIPTION
REFERENCE DR
ADDED MANHOLE
NO.
BY
DATE
THIS DRAWING AND ALL INFORMATION THEREON IS THE PROPERTY
CORP. AND IS CONFIDENTIAL AND MUST NOT BE MADE PUBLIC
LESS AUTHORIZED BY THEM AND IS SUBJECT TO
UTILITIES SERVICES PROPERTY
FENCE LINES
G.V. MODAN
CLIFTON NEW JERSEY
PLOT PLAN
DATE
DRAWN BY
APPV'D
CHECKED

DRAWG. NO.	DESCRIPTION	DRAWG. NO.	DESCRIPTION

REFERENCE DRAWINGS

No.	BY	DATE	DESCRIPTION	PLT. MGR.	PROD.	SAFETY
1	TRG		ADDED CONC. TRUCK PAD & GENERALY REVISED			

REVISIONS

THIS DRAWING AND ALL INFORMATION THEREON IS THE PROPERTY OF GIVAUDAN-ROURE CORP. AND IS CONFIDENTIAL AND MUST NOT BE MADE PUBLIC OR COPIED UNLESS AUTHORIZED BY THEM AND IS SUBJECT TO RETURN UPON DEMAND

DPCC / DCR PLAN
SITE PLAN CLIFTON NEW JERSEY

DEPT:

BLDG: PLANT

GIVAUDAN - ROURE CORPORATION
CLIFTON, NEW JERSEY

DATE	DRAWN BY	APPV'D	JOB NOS.	DRAWING NO.	REV.
01-14-93				PLT-D-049-GN	1
SCALE: 1"=100'-0"	CHECKED	FILE			

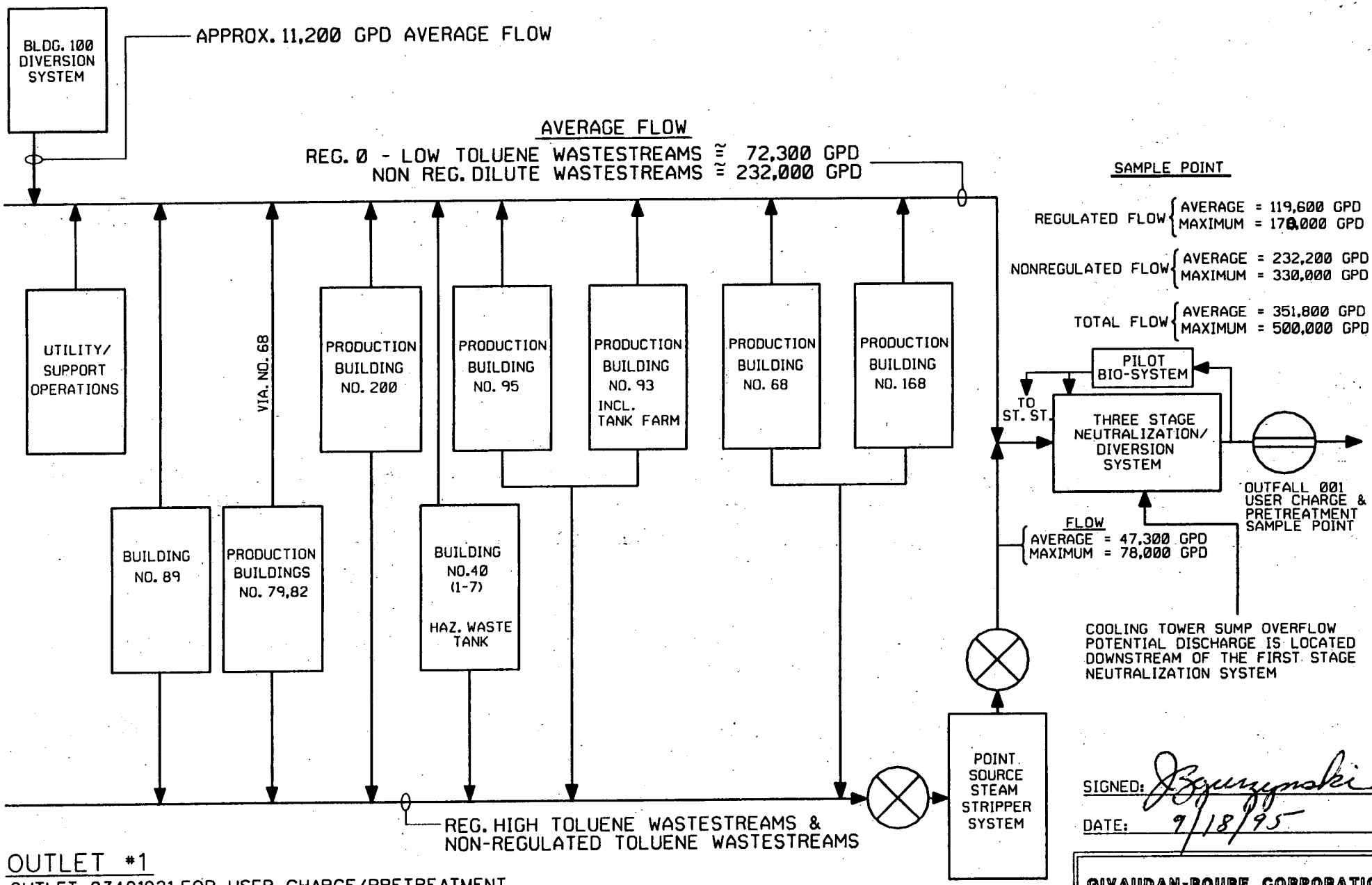
RE CORPORATION
'DCR PLAN

E PLAN

NEW JERSEY

DRAWING
1

GIVESASP



SIGNED: J. Bzymynski

DATE: 9/18/95

OUTLET #1

OUTLET 03401021 FOR USER CHARGE/PRETREATMENT IS LOCATED BY SAMPLE SHED BUILDING #11 LOCATED IN SOUTHWEST CORNER OF PROPERTY (40 CFR 414)

⊖ = COMPLIANCE MONITORING STATION

⊗ = MONITORING STATION

GIVAUDAN-ROURE CORPORATION

UPDATED WASTE WATER PFD OUTFALL 001 AUGUST 1995

CHART AUGUST-95

ATTACHMENT B

MR-2 FORMS FOR :

DISCHARGE POINT 001, 002, 003 & 004

USER CHARGE SELF MONITORING REPORT

NAME Givaudan Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION SAME AS ABOVE

OUTLET DESIGNATION (17 DIGITS) 0340-1021-04626-0451

MONITORING PERIOD					
8	1	95	8	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
10,906,000 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 320741(000)

DATE	BOD 0310	TSS 0530	TDS-COD	DATE	BOD 0310	TSS 0530	TDS-COD
8/1	511	76		8/17	3659	164	
8/2	2778	12	9214-4979	8/18	3826	80	
8/3	1330	23	2670	8/19	3653	38	
8/4	1376	26		8/20	1351	34	
8/5	2269	46		8/21	2449	123	
8/6	4144	22		8/22	2383	20	
8/7	1119	22		8/23	2359	39	8689-4019
8/8	492	56		8/24	3988	57	
8/9	3593	105	9626-5819	8/25	3575	36	
8/10	3503	36		8/26	4473	58	
8/11	4491	38		8/27	3293	126	
8/12	2292	75		8/28	1564	321	
8/13	3491	388		8/29	550	65	
8/14	2701	145		8/30	3548	36	10194-6538
8/15	3204	32		8/31	3920	67	
8/16	2141	32	10478-4217				

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE September 19, 1995

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 174 Delawanna Avenue - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1022-04626-0451

MONITORING PERIOD					
8	1	95	8	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
157,580 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 1601523(0)

DATE	BOD 0310	TSS 0530	COD	DATE	BOD 0310	TSS 0530	
8/3	199	60	854				

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE September 19, 1995

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 2 Peekay Drive - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1023-04626-0451

MONITORING PERIOD					
8	1	95	8	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
2,922,870 GALS*
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 485463(0)*

*FLOW FOR #4 ESTIMATED
FLOW FOR #3 METER READING
VOL. DISCHARGED TOTAL FOR #3 AND #4

DATE	BOD 0310	TSS 0530	COD	DATE	BOD 0310	TSS 0530	

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE September 19, 1995

PVSC FORM MR-2 REV.2. 1/86

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 001 **Date of Sample :** August 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : 10,906,000 gals. Average Flow : 351,806 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	COD (mg/L)
8/1/95	511	76		
8/2/95	2778	12	9214	4979
8/3/95	1330	**		2670
8/4/95	1376	26		
8/5/95	2269	46		
8/6/95	4144	22		
8/7/95	1119	22		
8/8/95	492	56		
8/9/95	3593	105	9626	5819
8/10/95	3503	36		
8/11/95	4491	38		
8/12/95	2292	75		
8/13/95	3491	388		
8/14/95	2701	145		
8/15/95	3204	32		
8/16/95	2141	32	10478	4217
8/17/95	3659	164		
8/18/95	3826	80		
8/19/95	3653	38		
8/20/95	1351	34		
8/21/95	2449	123		
8/22/95	2383	20		
8/23/95	2359	39	8689	4019
8/24/95	3988	57		
8/25/95	3575	36		
8/26/95	4473	58		
8/27/95	3293	126		
8/28/95	1564	321		
8/29/95	550	65		
8/30/95	3548	36	10194	6538
8/31/95	3920	67		

** TSS performed by ICM Lab

Patricia Hopkins
Laboratory Supervisor

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 002 **Date of Sample :** August 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : NA Average Flow : NA

Sampling Date	BOD (mg/L)	TSS (mg/L)	COD (mg/L)	pH (S.U.)
8/3/95	199	**	854	7.72

** TSS performed by ICM Lab.

Patricia Hopkins
Laboratory Supervisor

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
09	01	95	09	30	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	108,100	151,300
Total Flow-gal/day	318,100	445,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days 30

N/A ***Flow on Sample date 9/6-9/7 - 429,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Benzene	Sample measurement	< 0.01789	< 0.01789	# / day	1	Grab
	Permit requirement	0.27421	0.64463	# / day	1	
Carbon Tetrachloride	Sample measurement	< 0.02147	< 0.02147	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Chlorobenzene	Sample measurement	< 0.02147	< 0.02147	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
1,2,4-Trichloro-benzene	Sample measurement	< 0.04293	< 0.04293	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
Hexachlorobenzene	Sample measurement	< 0.03578	< 0.03578	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,2-Dichloroethane	Sample measurement	< 0.06798	< 0.06798	# / day	1	Grab
	Permit requirement	0.86568	2.76056	# / day	1	
1,1,1-Trichloro-ethane	Sample measurement	< 0.01789	< 0.01789	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	
Hexachloroethane	Sample measurement	< 0.05367	< 0.05367	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,1-Dichloroethane	Sample measurement	< 0.05009	< 0.05009	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	

DURING THIS MONITORING PERIOD NO CHANGE HAS BEEN MADE TO THE PLOT PLAN

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
09	01	95	09	30	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	108,100	151,300
Total Flow-gal/day	318,100	445,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 30

N / A ***Flow on Sample date 9/6-9/7 - 429,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,1,2-Trichloro-ethane	Sample measurement	< 0.01789	< 0.01789	# / day	1	Grab
	Permit requirement	0.15390	0.61079	# / day	1	
Chloroethane	Sample measurement	< 0.0644	< 0.0644	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Chloroform	Sample measurement	0.06798	0.06798	# / day	1	Grab
	Permit requirement	0.53384	1.56304	# / day	1	
1,2-Dichloro-benzene	Sample measurement	< 0.04293	< 0.04293	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,3-Dichloro-benzene	Sample measurement	< 0.04293	< 0.04293	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,4-Dichloro-benzene	Sample measurement	< 0.04293	< 0.04293	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,1-Dichloro-ethylene	Sample measurement	< 0.06082	< 0.06082	# / day	1	Grab
	Permit requirement	0.10581	0.28856	# / day	1	
1,2-Trans-Dichloroethylene	Sample measurement	< 0.06082	< 0.06082	# / day	1	Grab
	Permit requirement	0.12023	0.31742	# / day	1	
1,2-Dichloro-propane	Sample measurement	< 0.02147	< 0.02147	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	

DURING THIS MONITORING PERIOD NO CHANGE HAS BEEN MADE TO THE PLOT PLAN

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
09	01	95	09	30	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	108,100	151,300
Total Flow-gal/day	318,100	445,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 30

N / A ***Flow on Sample date 9/6-9/7 - 429,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3-Dichloro-propylene	Sample measurement	< 0.02147	< 0.02147	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	
Ethylbenzene	Sample measurement	< 0.02505	< 0.02505	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Methylene Chloride	Sample measurement	0.05009	0.05009	# / day	1	Grab
	Permit requirement	0.17314	0.81759	# / day	1	
Methyl Chloride	Sample measurement	< 0.16458	< 0.16458	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Hexachloro-butadiene	Sample measurement	< 0.01789	< 0.01789	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
Nitrobenzene	Sample measurement	< 0.01789	< 0.01789	# / day	1	Comp.
	Permit requirement	10.75850	30.78942	# / day	1	
2-Nitrophenol	Sample measurement	< 0.01789	< 0.01789	# / day	1	Comp.
	Permit requirement	0.31261	1.11096	# / day	1	
4-Nitrophenol	Sample measurement	< 0.01789	< 0.01789	# / day	1	Comp.
	Permit requirement	0.77911	2.77018	# / day	1	
4,6-Dinitro-o-Cresol	Sample measurement	< 0.01789	< 0.01789	# / day	1	Comp.
	Permit requirement	0.37513	1.33219	# / day	1	

DURING THIS MONITORING PERIOD NO CHANGE HAS BEEN MADE TO THE PLOT PLAN

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
09	01	95	09	30	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	108,100	151,300
Total Flow-gal/day	318,100	445,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 30

N / A ***Flow on Sample date 9/6-9/7 - 429,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Tetrachloro-ethylene	Sample measurement	< 0.02505	< 0.02505	# / day	1	Grab
	Permit requirement	0.250009	0.78873	# / day	1	
Toluene	Sample measurement	< 0.02862	< 0.02862	# / day	1	Grab
	Permit requirement	0.13466	0.35589	# / day	1	
Trichloro-ethylene	Sample measurement	< 0.02147	< 0.02147	# / day	1	Grab
	Permit requirement	0.12504	0.33184	# / day	1	
Vinyl Chloride	Sample measurement	< 0.06082	< 0.06082	# / day	1	Grab
	Permit requirement	0.46651	0.82721	# / day	1	
Total Cyanide	Sample measurement	< 0.03578	< 0.03578	# / day	1	Grab
	Permit requirement	2.01992	5.77121	# / day	1	
Total Lead	Sample measurement	0.03936	0.03936	# / day	1	Comp.
	Permit requirement	1.53899	3.31845	# / day	1	
Total Zinc	Sample measurement	0.44008	0.44008	# / day	1	Comp.
	Permit requirement	5.04981	12.55239	# / day	1	
Petroleum Hydrocarbons	Sample measurement	8.9	8.9	mg / L	1	Grab
	Permit requirement		100	mg / L	1	
	Sample measurement					
	Permit requirement					

PYSC Form MR-1 Rev.4 6/87 P1

DURING THIS MONITORING PERIOD NO CHANGE HAS BEEN MADE TO THE PLOT PLAN

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

Not Applicable

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

SEE ATTACHMENT 1

Explain Method for preserving samples

The laboratory preservation methods and holding times were performed in accordance with EPA/NJDEPE approved procedures and methodologies.

*** SEE ATTACHMENT 2 FOR SPECIFIC PRESERVATION METHODOLOGIES. ***

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

John A Lopez

Signature of Principal Executive or Authorized Agent

John A. Lopez

Vice President Safety, Health & Environmental

Type Name and Title

October 18, 1995

Date

PVSC Form MR-1 Rev. 5 3/91 P2

DURING THIS MONITORING PERIOD NO CHANGE HAS BEEN MADE TO THE PLOT PLAN

Attachment 1

Outfall 001

Compliance statement

During the month of August, 1995 Givaudan-Roure's test readings were within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H and other regulatory agency limitations.

Attachment 2

PRESERVATION METHODOLOGIES

Volatile Organics Samples :
Cool to 4°C in an ice chest.

Total Cyanide Samples :
Preserve sample with 10 N NaOH to a pH of greater than 12. After preserving the sample, cool to 4°C in an ice chest.

Total Lead and Total Zinc Samples :
Acidify sample with Conc. HNO_3 to a pH of 2 or less.

Acid / Base Neutrals Extractables Samples :
Approximately 80 mg/l sodium thiosulfate is added to the bottle(s) in the laboratory prior to being brought into the field. After collection, the sample is cooled to 4°C in an ice chest.

Petroleum Hydrocarbon Samples :
Preserve sample with conc. H_2SO_4 or HCl to a pH of less than 2 and cool to 4°C in an ice chest.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
SEPTEMBER 18, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

VOLATILE ORGANIC ANALYSIS BY GC/MS

Lab Number: 219753
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Grab
Sample date: 09/07/95
Sampled by: Customer
At lab date: 09/07/95
Matrix: WATER

Data File: >G8668
Analysis Date: 09/12/95
Dilution Factor: 10
Init Sample vol= 0.5ml
Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	46
Bromomethane	U	U	38
Vinyl chloride	U	U	17
Chloroethane	U	U	18
Methylene chloride	14J*	U	30
Trichlorofluoromethane	U	U	15
1,1-Dichloroethene	U	U	17
1,1-Dichloroethane	U	U	14
trans-1,2-Dichloroethene	U	U	17
Chloroform	19	U	16
1,2-Dichloroethane	U	U	19
1,1,1-Trichloroethane	U	U	5
Carbon tetrachloride	U	U	6
Bromodichloromethane	U	U	6
1,2-Dichloropropane	U	U	6
cis-1,3-Dichloropropene	U	U	5
2-Chloroethyl vinyl ether	U	U	6
Trichloroethene	U	U	6
Dibromochloromethane	U	U	6
1,1,2-Trichloroethane	U	U	5
Benzene	U	U	5
trans-1,3-Dichloropropene	U	U	6
Bromoform	U	U	8
Tetrachloroethene	U	U	7
1,1,2,2-Tetrachloroethane	U	U	5
Toluene	U	U	8
Chlorobenzene	U	U	6
Ethylbenzene	U	U	7
p&m-Xylene	U	U	9
o-Xylene	U	U	9
total Xylenes	U	U	9
1,3-Dichlorobenzene	U	U	7
1,2-Dichlorobenzene	U	U	5
1,4-Dichlorobenzene	U	U	15

* This compound is not flagged with B since it was not found in the corresponding method blank. However, this compound is commonly found as a laboratory contaminant.

The total Xylenes result includes the sum of p&m-Xylene and o-Xylene.

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

ND: Not Determined.

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Randolph, NJ 07869
201-584-0330

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Monthly Discharge 001
Sample Date: 09/07/95
Sampled by: Customer
At Lab Date: 09/07/95
Sample Matrix: Aqueous

Lab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
219753	DSN 001 Grab	8.9	U	0.61	09/13/95	09/13/95

U = Not detected

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Richard Levine, President

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DOU

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201-584-0330
SEPTEMBER 18, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 219753
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Monthly Discharge 001
Sample ID: DSN 001 Grab
Sample matrix: LIQUID (AQUEOUS)
Sample date: 09/07/95
Sampled by: Customer
At lab date: 09/07/95

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Cyanide, Total	U	U	0.010

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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BON

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1152 Route 10
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SEPTEMBER 15, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Data File: >I6896

Lab Number: 219754
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Composite
Sample date: 09/07/95
Sampled by: Customer
At lab date: 09/07/95
Matrix: WATER

Extracted Date: 09/11/95
Analysis Date: 09/13/95

Column: 30m SPB-5
Dilution Factor: 5

Init Sample vol= 1000ml Final volume= 5ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	5
2-Nitrophenol	U	U	5
Phenol	U	U	9
2,4-Dimethylphenol	U	U	5
2,4-Dichlorophenol	U	U	5
2,4,6-Trichlorophenol	U	U	5
Pentachlorophenol	U	U	5
2,4-Dinitrophenol	U	U	18
4,6-Dinitro-2-methylphenol	U	U	5
4-Nitrophenol	U	U	5
4-Chloro-3-methylphenol	U	U	5

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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1152 Route 10
Randolph, NJ 07869
201-584-0330
SEPTEMBER 15, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Lab Number: 219754
Data File: >I6896
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Composite
Sample date: 09/07/95
Extracted Date: 09/11/95
Sampled by: Customer
Analysis Date: 09/13/95
Column: 30m SPB-5
At lab date: 09/07/95
Dilution Factor: 5
Matrix: WATER
Init Sample vol= 1000ml
Final volume= 5ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	5
bis(2-Chloroethyl)ether	U	U	5
1,3-Dichlorobenzene	U	U	12
1,4-Dichlorobenzene	U	U	12
1,2-Dichlorobenzene	U	U	12
bis(2-Chloroisopropyl)ether	U	U	6
N-Nitroso-di-n-propylamine	U	U	9
Hexachloroethane	U	U	15
Nitrobenzene	U	U	5
Isophorone	U	U	5
bis(2-Chloroethoxy)methane	U	U	5
1,2,4-Trichlorobenzene	U	U	12
Naphthalene	U	U	10
Hexachlorobutadiene	U	U	5
Hexachlorocyclopentadiene	U	U	8
2-Chloronaphthalene	U	U	10
Dimethyl phthalate	U	U	23
Acenaphthylene	U	U	8
2,6-Dinitrotoluene	U	U	5
Acenaphthene	U	U	10
2,4-Dinitrotoluene	U	U	5
Diethyl phthalate	U	U	12
4-Chlorophenyl phenyl ether	U	U	10
Fluorene	U	U	9
N-Nitrosodiphenylamine	U	U	5
1,2-Diphenylhydrazine (Azobenzene)	U	U	5
4-Bromophenyl phenyl ether	U	U	10
Hexachlorobenzene	U	U	10
Phenanthrene	U	U	5
Anthracene	U	U	4
Di-n-butylphthalate	U	U	13
Fluoranthene	U	U	3
Benzidine	U	U	5
Pyrene	U	U	3
Butyl benzylphthalate	U	U	6
3,3'-Dichlorobenzidine	U	U	5
Benzo(a)anthracene	U	U	3
Chrysene	U	U	3
bis(2-Ethylhexyl)phthalate	U	U	15
Di-n-octylphthalate	U	U	5
Benzo(b)fluoranthene	U	U	4

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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201-584-0330
SEPTEMBER 15, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Lab Number: 219754
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Composite
Sample date: 09/07/95
Sampled by: Customer
At lab date: 09/07/95
Matrix: WATER

Data File: >I6896

Extracted Date: 09/11/95
Analysis Date: 09/13/95

Column: 30m SPB-5
Dilution Factor: 5

Init Sample vol= 1000ml Final volume= 5ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Benzo(k)fluoranthene	U	U	4
Benzo(a)pyrene	U	U	3
Indeno(1,2,3-cd)pyrene	U	U	6
Dibenz(a,h)anthracene	U	U	3
Benzo(g,h,i)perylene	U	U	3

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
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201-584-0330
SEPTEMBER 20, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 219754
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Composite
Sample date: 09/07/95
Sampled by: Customer
At lab date: 09/07/95
Matrix: WATER

Percent Moisture: 100 %

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Lead	0.011	U	0.004	09/19/95
Zinc	0.123	U	0.020	09/19/95

U = Not Detected

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Richard Levine, President

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BON

ATTACHMENT B

MR-2 FORMS FOR :

DISCHARGE POINT 001, 002, 003 & 004

USER CHARGE SELF MONITORING REPORT

NAME Givaudan Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION SAME AS ABOVE

OUTLET DESIGNATION (17 DIGITS) 0340-1021-04626-0451

MONITORING PERIOD					
09	01	95	09	30	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
9,542,000 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 330283(000)

DATE	BOD 0310	TSS 0530	TDS-COD	DATE	BOD 0310	TSS 0530	TDS-COD
9/1	4365	35		9/17	3988	37	
9/2	2892	44		9/18	998	47	
9/3	2345	54		9/19	1141	70	
9/4	1213	2		9/20	3754	19	10468-7525
9/5	483	29		9/21	2898	57	
9/6	2257	31	7672-3965	9/22	2814	44	
9/7	3856	22		9/23	2677	56	
9/8	1916	27		9/24	1654	132	
9/9	5225	27		9/25	775	32	
9/10	5315	29		9/26	520	27	
9/11	1687	31		9/27	1825	45	5573-3879
9/12	900	53		9/28	1588	40	
9/13	3647	41	10635-8014	9/29	2527	57	
9/14	3137	35		9/30	2461	101	
9/15	3299	56					
9/16	5075	32					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
	J. A. Lopez	(201) 365-8115
	VP Safety, Health & Env.	DATE 8/18/95

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 174 Delawanna Avenue - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1022-04626-0451

MONITORING PERIOD					
09	01	95	09	30	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
119,080 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 1613431(0)

DATE	BOD 0310	TSS 0530		DATE	BOD 0310	TSS 0530	
9/13	480	100					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
	John A Lopez	
	John A, Lopez	(201) 365-8195
	V.P. Safety, Health & Env.	DATE 10/18/95

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 2 Peekay Drive - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1023-04626-0451

MONITORING PERIOD					
9	1	95	9	30	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
2,436,490 GALS*
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 729112(0)*

*FLOW FOR #4 ESTIMATED
FLOW FOR #3 METER READING
VOL. DISCHARGED TOTAL FOR #3 AND #4

DATE	BOD 0310	TSS 0530	COD	DATE	BOD 0310	TSS 0530	

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
	John A. Lopez J. A. Lopez	(201) 365-8115
	V.P. Safety, Health & Env.	DATE 10/18/95

PVSC FORM MR-2 REV.2. 1/86

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 001 **Date of Sample :** September 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow :9,542,000 gals. Average Flow : 318,067 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	COD (mg/L)
9/1/95	4365	35		
9/2/95	2892	44		
9/3/95	2345	54		
9/4/95	1213	2		
9/5/95	483	29		
9/6/95	2257	31	7672	3965
9/7/95	3856	22		
9/8/95	1916	27		
9/9/95	5225	27		
9/10/95	5315	29		
9/11/95	1687	31		
9/12/95	900	53		
9/13/95	3647	41	10635	8014
9/14/95	3137	35		
9/15/95	3299	56		
9/16/95	5075	32		
9/17/95	3988	37		
9/18/95	998	47		
9/19/95	1141	70		
9/20/95	3754	19	10468	7525
9/21/95	2898	57		
9/22/95	2814	44		
9/23/95	2677	56		
9/24/95	1654	132		
9/25/95	775	32		
9/26/95	520	27		
9/27/95	1825	45	5573	3879
9/28/95	1588	40		
9/29/95	2527	57		
9/30/95	2461	101		

Patricia Hopkins
Laboratory Supervisor

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 002 **Date of Sample :** September 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : NA Average Flow : NA

Sampling Date	BOD (mg/L)	TSS (mg/L)
9/13/95	480	100

Patricia Hopkins
Laboratory Supervisor

3/96

120-2674

GIVAUDAN-ROURE

Fragrances - Specialties

Certified Mail Z104553354
Return Receipt Requested

September 12, 1995

Mr. Robert J. Davenport
Executive Director
Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

SEP 1995
RECEIVED
Director's Office

RE: RENEWAL OF SEWER CONNECTION PERMIT
Permit No. 03401024
GIVAUDAN-ROURE CORPORATION
CLIFTON, NEW JERSEY

Dear Mr. Davenport,

This is in reference to the above Sewer Connection Permit which will expire on March 17, 1996 In accordance with the Passaic Valley Sewerage Commissioners (PVSC) Rules and Regulations, enclosed herewith please find fully completed and executed PVSC application form and support documents for renewal of Sewer Connection Permit No. 0301024.

This submittal covers the discharges of industrial and sanitary effluents from outlets designated 001, 002 and 003 to the PVSC wastewater treatment facility at Newark, New Jersey. Outlet 003 and Outlet 004 (old designation) are now combined as one discharge, i.e., Outlet 003.

Sincerely,
GIVAUDAN-ROURECORPORATION

Harold G. Thompson

Harold G. Thompson
Sr. Vice President Operations

attachments
HGT:ms

h:\slaby\sewercon.895

SEP 1995
RECEIVED
INDUSTRIAL DEPARTMENT

GIVAUDAN-ROURE CORPORATION
Delawanna Avenue, Clifton, New Jersey 07015-5034 • Tel: (201) 365-8000 • Fax (201) 777-9304

CERTIFICATION*:

The information contained in this application is familiar to me and, to the best of my knowledg and belief, such information is true, complete, and accurate.

If the applicant is a corporation, a corporate resolution is attached granting me the authority sign the application on behalf of the corporation.

Name of signing official: HAROLD G. THOMPSON
PRINT

TITLE: Sr. Vice-President - Operations

September 12, 1995
DATE

Harold G. Thompson
SIGNATURE

***APPLICATION MUST BE SIGNED BY ONE OF THE FOLLOWING:**

a. Principal Officer of Corporation
b. President or Owner of Company
c. General Partner if a Partnership
d. Plant Manager or Authorized Representative

PASSAIC VALLEY SEWERAGE COMMISSIONERS
APPLICATION FOR A SEWER CONNECTION PERMIT

SECTION A

1. Company Name: GIVAUDAN-ROURE CORPORATION

2. Permit number if applicable, #03401024

3. Location: 125 Delawanna Avenue

   Clifton, NJ Zip Code: 07015-5034

4. Mailing Address: Same as above.

   Zip Code:

5. Person to contact concerning information provided in this application:

   Name of Contact Official: Andrew D. Soos

   Title: Manager - Environmental Programs Phone No. 201-365-8486

   Address: 125 Delawanna Avenue, Clifton, NJ Zip Code 07015-5034

6. Number of Employees - Full Time: 555 Part Time: --

   Number of Work Days Per Year: 270

   Number of Shifts Per Day: 3

7. If property is owned indicate block and lot numbers: Bldg. 125 - Bl 73-03, Lot 2; Bldg. 103 - Bl 60.14, Lot 29; Bldg. 105 - Bl 61-03, Lot 38; Bldg. 100 - Bl 61.03, Lot 27

   Assessed Value: $45,335,500 1995

8. If property is rented indicate name and address of owner:

   N/A

   Total square feet rented: N/A -- --

9. List NJPDES Permit number if applicable, (NJPDES/SIU Permit-by-Rule) an

   name of receiving body of water entered The treated effluent from the chemical plant site discharges to the PVSC-POTW located at Newark, N.J. PVSC discharges to Newark Bay.

SECTION B

WATER DATA

10. Water Source: (Circle all appropriate answers)

Purchased	(Y) - N		
Well	(Y) - N	If Y, is it metered	(Y) - N
River	Y - (N)	If Y, is it metered	Y - N

11. Name of purchased water supplier: Passaic Valley Water Commission

List all Acct #s: 805-00650-6

12. Water Received: From Mo. 07 Yr. 94 Through Mo. 06 Yr. 95

(* Next to a figure means it is estimated).

	PURCHASED	WELL	RIVER	TOTAL
1st Qtr. 07-09	38,343,000	0	0	38,343,000
2nd Qtr. 10-12	29,853,000	0	0	29,853,000
3rd Qtr. 01-03	41,117,000	0	0	41,117,000
4th Qtr. 04-06	38,010,000	0	0	38,010,000

GRAND TOTAL 147,323,000

Report in gallons

13. Water Use and Disposition (* Next to a figure means it is estimated).

	Gallons Sanitary/Combined Sewer	Discharged Stormsewer/ River/Ditch	Gallons Used Other
Sanitary Service Only	2,000,000	0	
Process Waste Water	102,147,000	0	
Cooling Water	17,312,000	0	
Evaporation			18,211,000
Contained in the product			Trace
Other (Describe)			7,653,000

GRAND TOTAL 147,323,000

Other - Meter errors and miscellaneous other users.

SECTION B (CONTINUED)

14. Process wastewater which is discharged as above is metered as follows:

to the Separate Sanitary Sewer	Y - N
to the Combined Sewer	Y - N
to a storm sewer	Y - N
river or ditch	Y - N

15. Waste Hauler Information: List all firms and/or independent contractors used to remove process waste or sludge from this facility. See attachment for this item.

Contractor	Address	Icc#	Waste type handled

SECTION C

Note: There is no sludge generated by the wastewater treatment plant

OPERATIONAL CHARACTERISTICS

16. Discharge of Industrial Waste is continuous 24 hours

or intermittent _____ each operating day.

If the discharge is intermittent, it occurs between the following hours: N/A

17. Brief description of Manufacturing or other activity performed: 1) manufacture of organic specialty chemicals 2) fragrance blending/compounding

List SIC CODE #: 1) 2869, 2879, 2899 2) 2844

18. Principal Raw Materials used: Acetic acid, hydrochloric acid, methanol, methyl ethyl ketone, phosphoric acid, potassium hydroxide, sulfuric acid, toluene, vinyl acetate, sodium hydroxide, propionaldehyde, tert butyl benzaldehyde

19. Principal Products or Services: Organic specialty chemicals for use in the flavor, fragrance and pharmaceutical intermediates industry.

SECTION C (CONTINUED)

20. Describe seasonal variations,if significant, giving dates, volumes, rates, hours, etc. Include variations in product lines which affect waste characteristics: None

Does this facility shutdown for vacations? Yes If so, is it basically the same time each year Yes. Provide dates usually shut down last two weeks in July and the last week in December.

SECTION D

MONITORING

21. Describe any pretreatment process or effluent monitoring system in use:

Outlet 001 — Steam stripper, Oil/Water Separators, Filters, Caustic Treatment and ancillary equipment. Screens, oil skimmers, 3-stage neutralization, diversion capability LEL meters, O_2 meter, pH meters, flowmeter and recorders.

Outlet 002 — No pretreatment,effluent monitoring for TSS and BOD_5

* Outlet 003 — No pretreatment, flowmeter and recorder at outlet.

* Outlet 004 — Sanitary sewage only from Bldg. 72 to Delawanna Avenue, no effluent monitoring in use at this Outlet.

22. Sampling information:

Outlet	Contains Ind. Waste	Samples Type	Refrigerated
001	Yes	Sigma 800 sampler Time proportional composite sampler.	Yes
002	Yes	Time proportional composite sampler.	Yes
*003	No	No sampling system.	N/A
*004	No	No sampling system.	NA

* Note: Currently combined as one discharge.

SECTION D (Continued)

23. Volume Information

Outlet	Daily Flow (Gallons)	Metered (Y - N)	Type	Date
001/River Road	302,400	Y	9" Parshall Flume	8/16/95
002/Bldg. 103	26,100	N	Flow determined by metered water usage	N/A
003/Bldg.100,102	71,600	Y	6" Palmer Bowlus Flume	8/15/95
*004/Delawanna Ave.	21,600	N	N/A	N/A

Note (1): Totalizers are not resettable

* Note (2): The estimated volume of domestic sanitary discharge from Outlet #4 is now included with domestic sanitary being discharged from Outlet #3 which is measured by flowmeter readings. Hence, the new Outlet #3 is measured (old Outlet #3) plus an estimate of old Outlet #4.

24. Frequency of calibration of each flow meter: Calibration is done on a monthly basis by Givaudan-Roure and on a periodic basis by an outside consultant, such as RECON.

25. Attach a plot plan of the property showing: Plans are attached. Drawing Nos. Sk-1, R-8564, PLT-D-049-GN

(a) all existing or proposed sewer and drain lines (including outlets to a storm sewer, river or ditch);

(b) sample point(s); Monitoring or Pretreatment Equipment; Incoming meter(s); Well meter(s); Internal meter(s); Flowmeter(s);

(c) details of the connection(s) to the municipal (or PVSC) sewer, including the distance and direction of each connection from the nearest street intersection.

SECTION E

ANALYSIS OF INDUSTRIAL WASTE

26. Analysis for Industrial Waste must be a proper sample taken for each outlet.

OUTLET NO. 03401021 - 04626 - 0451

Designated Outlet 001

Report to the nearest unit: XX.
except where indicated with (1)
Example: 15 mg/l

Report to the nearest hundredth: 0.XX
except where indicated
Example: 0.36 mg/l

Code		Parameter	Value	Code	Parameter	Value
0200*		Radioactivity (PL-1)	--	1097*	Antimony (Sb)	--
0500		Total Solids	4480	1002	Arsenic (As)	0.004
0510		Total Mineral Solids	3930	1022*	Boron (B)	--
0530		Total Suspended Solids	23	1027	Cadmium (Cd)	<0.005
0552		Mineral Suspended Solids	17	1034	Chromium Total (Cr)	<0.010
0555	(1)(3)	Petroleum Hydrocarbons	3.9	1042	Copper (Cu)	0.093
0310		Biochemical Oxygen Demand (BOD)	1330	1045*	Iron (Fe)	0.887
				1051	Lead (Pb)	0.011
0340		Chemical Oxygen Demand (COD)	2670	0720*(3)	Cyanide (CN)	<0.010
				1900	Mercury(Report to 0.XXX)	<0.0005
0680		Total Organic Carbon (TOC)	215	1067	Nickel (Ni)	<0.025
				1147*	Selenium (Se)	--
9000		pH (standard unit range)	7.78	1077*	Silver (Ag)	--
0610	(1)	Ammonia as N	0.32	1102*	Tin (Sn)	--
0550	(1)(3)	Total Oil & Grease	40.3	1092	Zinc (Zn)	0.519
0745*	(1)	Sulfide	<1.0	2730	Phenol	0.121
0507*	(1)	Ortho Phosphates as P	0.520	4053*	Pesticides (Report to 0.XXX)	--
0625*	(1)	Kjeldahl N as N	4.55			
9998*	(2)(3)	TTO (Report to 0.XXX)	Re: Note	9999*(3)	TTVO(Report to 0.XXX)	Re: Note

Note: See attached sheets for OCPSF pollutants.

FOOTNOTES:

(1) Report results to the nearesth tenth, i.e., 1.6 mg/L.

(*) Analyze for this if reasonably expected to be present in the discharge unless otherwise exempted.

(2) See instructions.

(3) Grab sample required.

REVISED 1/87
REVISED 8/89
REVISED 7/90
REVISED 9/94

SECTION E

ANALYSIS OF INDUSTRIAL WASTE

26. Analysis for Industrial Waste must be a proper sample taken for each outlet.

OUTLET NO. 0340 - 1022 - 04626 -0451

Designated Outlet 002

Report to the nearest unit: XX.
except where indicated with (1)
Example: 15 mg/l

Report to the nearest hundredth: 0.XX
except where indicated
Example: 0.36 mg/l

Code		Parameter	Value	Code	Parameter	Value
0200*		Radioactivity (PL-1)	--	1097*	Antimony (Sb)	--
0500		Total Solids	400	1002	Arsenic (As)	<0.004
0510		Total Mineral Solids	274	1022*	Boron (B)	--
0530		Total Suspended Solids	60	1027	Cadmium (Cd)	<0.005
0552		Mineral Suspended Solids	41	1034	Chromium Total (Cr)	<0.010
0555	(1)(3)	Petroleum Hydrocarbons	27	1042	Copper (Cu)	0.131
0310		Biochemical Oxygen Demand (BOD)	199	1045*	Iron (Fe)	0.601
				1051	Lead (Pb)	0.023
0340		Chemical Oxygen Demand (COD)	854	0720*(3)	Cyanide (CN)	<0.010
				1900	Mercury(Report to 0.XXX)	<0.0005
0680		Total Organic Carbon (TOC)	230	1067	Nickel (Ni)	<0.025
				1147*	Selenium (Se)	--
9000		pH (standard unit range)	7.72	1077*	Silver (Ag)	--
0610	(1)	Ammonia as N	2.29	1102*	Tin (Sn)	--
0550	(1)(3)	Total Oil & Grease	166	1092	Zinc (Zn)	0.213
0745*	(1)	Sulfide	<1.0	2730	Phenol	0.603
0507*	(1)	Ortho Phosphates as P	2.52	4053*	Pesticides (Report to 0.XXX)	--
0625*	(1)	Kjeldahl N as N	25.8			
9998*	(2)(3)	TTO (Report to 0.XXX)	Re: Note	9999*(3)	TTVO(Report to 0.XXX)	Re:Note

Note: See attached sheets for OCPSF pollutants.

FOOTNOTES:

(1) Report results to the nearesth tenth, i.e., 1.6 mg/l.

(*) Analyze for this if reasonably expected to be present in the discharge unless otherwise exempted.

(2) See instructions.

(3) Grab sample required.

REVISED 1/87
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REVISED 9/94

SECTION E (CONTINUED)

Samples collected by: GIVAUDAN-ROURE ENVIRONMENTAL LABORATORY

(P. Hopkins, Supervisor) Date: Aug. 3, 1995

Samples analyzed by: Industrial Corrosion Management, Inc. (ICM) and

Givaudan-Roure Environmental Laboratory Date: Aug. 3,4 , 1995

Products being manufactured when sample was collected: Aroma Chemical Products

and Flavor Products

27. Who performs the analyses of the samples for User Charge?

Givaudan-Roure Environmental Laboratory, Certified Laboratory #16867

28. Is the Laboratory certified by NJDEP to conduct all the analyses? Y - N Y

Givaudan-Roure is certified for the User Charge Parameters.

29. Who performs the analyses of the samples for the Pretreatment Parameters?

Industrial Corrosion Management Inc. #14116

Givaudan-Roure Environmental Laboratory #16867

(If monitoring has not commenced for Pretreatment, indicate Laboratory you plan to use. unknown, so state):

30. Is The Laboratory certified by NJDEP to conduct all the required Pretreatment analyses?

Y - N Y

31. Based upon knowledge of materials and processes used at this facility check the approprite bc that best describes the potential that a Priority Pollutant, listed on Tables 1, 2, & 3 is present your discharge.

SECTION F

PRETREATMENT

32. Industrial Category: Major Group 28 - Outfall 001 - Sic Codes 2869, 2879, 2899;
Subpart(s): Outfall 002 - Sic Code 2844
40 CFR 414.85 OCPSF Category, Subpart H; 40 CFR Part 455.26 Subpart A

33. Compliance date(s): November 5, 1990 for OCPSF Category; September 28, 1996 for pesticide Chemicals and June 30, 1997 for local limits on metals.

34. Is facility in compliance? No* If not, and if compliance date has passed, explain action being taken to get into compliance: Givaudan-Roure is operating pursuant to the terms and conditions of a Judicial Consent Order (JCO). Compliance date is July 1, 1996 (Docket #C-254-92 and C-009-94).
* Toluene limit is not consistently met.

35. Date Baseline Monitoring Report (BMR) submitted to PVSC:
June 25, 1988 with supplement dated December 9, 1988. Amended BMR report submitted for OCPSF. Pesticide BMR was submitted on April 24, 1994. Local metals BMR was submitted on December 20, 1994.

36. Compliance submitted? Yes
If yes, is facility on schedule? Yes Explain if compliance date will not be met:

37. Does this facility come under the Resource Conservation and Recovery Act (RCRA)? Yes

38. Does this facility have a Spill Prevention Control and Countermeasures (SPCC) plan?
The DPCC/DCR plans cover chemical spills to the PVSC and to the storm water outfalls. Submittal was made to the NJDEP in July 1982 (original). The most recent major revision was approved August 17, 1992, with minor approved revisions thereafter.

39. Has this facility ever been cited by NJDEP or EPA for violation of State or Federal Regulations for the nature of its wastewater discharge?
N - by EPA
Y - by NJDEP and PVSC

40. Is this facility under an ECRA Clean-up? No. If so, has a plan been approved by NJDEP: N/A
Is there any plan to discharge groundwater? Not at this time.

TABLE 1 EPA PRIORITY POLLUTANTS

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
acenaphthene				X	2,4 dimethylphenol				X
acrolein				X	2,4 dinitrotoluene				X
acrylonitrile				X	2,6 dinitrotoluene				X
benzene				X	1,2 diphenylhydrazine				X
benzidine				X	ethylbenzene		X		
carbon tetrachloride				X	fluoranthene				X
(tetrachloromethane)					4-chlorophenyl phenyl ether				X
chlorobenzene				X	4-bromophenyl phenyl ether				X
1,2,4-trichlorobenzene				X	bis(2-cloroisopropyl) ether				X
hexachlorobenzene				X	bis(2-chloroethoxy) methane				X
1,2 dichloroethane				X	methylene chloride				X
1,1,1, trichlorethane				X	(dichloromethane)				
hexachloroethane				X	methyl chloride				X
1,1, dichloroethane				X	(chloromethane)				
1,1,2 trichloroethane				X	methyl bromide				X
1,1,2,2, tetrachloroethane				X	(bromomethane)				
chlorethane				X	bromoform(tribromomethane)				X
bis(chloromethyl) ether				X	dichlorobromomethane				X
bis(2 chloroethyl) ether				X	trichlorofluoromethane				X
2-chloroethyl vinyl ether (mixed)				X	dichlorodifuoromethane				X
2-chloronaphthalene				X	chlorodibromomethane				X
2,4,6, trichlorophenol				X	hexachlorobutadiene				X
parachlorometa cresol				X	hexachlorocyclopentadiene				X
chloroform (trichloromethane)	X			X	isophorone				X
2 chlorophenol				X	naphthalene				X
1,2, dichlorobenzene				X	nitrobenzene				X
1,3, dichlorobenzene				X	2-nitrophenol		X		
1,4, dichlorobenzene				X	4-nitrophenol				X
3,3, dichlorobenzidine				X	2,4-dinitrophenol				X
1,1, dichloroethylene				X	4,6 dinitro-o cresol				X
1,2, trans-dichloroethylene				X	N-nitrosodimethylamine				X
2,4, dichlorophenol				X	N-nitrosodiphenylamine				X
1,2, dichloropropane				X	N-nitrosodi-n-proplyamine				X
1,3 dichloropropylene				X	pentachlorophenol				X
(1,3 dichloropropene)				X	phenol				X

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

TABLE 1 EPA PRIORITY POLLUTANTS (CONTINUED)

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
bis(2-ethlhexyl) phthalate		X			endrin				X
butylbenzylphthalate				X	endrin aldahyde				X
di-n-butylphthalate				X	heptachlor				X
di-n-octylphthalate				X	heptachlor (epoxide)				X
diethylphthalate				X	BHC Alpha				X
dimethylphthalate				X	BHC Beta				X
benzo(a)anthracene				X	BHC Gamma				X
benzo(a)pyrene				X	BHC Delta				X
3,4 benzofluoranthene				X	PCB-1242				X
benzo(k)fluoranthane				X	PCB-1254				X
chrysene				X	PCB-1221				X
acenaphthylene				X	PCB-1232				X
anthracene				X	PCB-1248				X
benzo(ghi)perylene				X	PCB-1260				X
fluorene				X	PCB-1016				X
phenanthrene				X	toxaphene				X
dibenzo(a,h)anthracene				X	antimony (total)				X
indeno(1,2,3-c,d)pyrene				X	arsenic (total)				X
pyrene				X	asbestos (fibrous)				X
tetrachloroethylene				X	beryllium (total)				X
toluene	X				cadmium (total)	X			
trichloroethylene				X	chromium (total)	X			
vinyl chloride				X	copper (total)	X			
aldrin				X	cyanide (total)				
dieldrin				X	lead (total)	X			
chlordane				X	mercury (total)				X
4,4 DDT				X	nickel (total)	X			
4,4 DDE				X	selenium (total)				X
4,4 DDD				X	silver (total)				X
endosulfan 1				X	thallium (total)				X
endosulfan 11				X	zinc (total)	X			
endosulfan sulfate				X	2,3,7,8, tetrachlorodibenzo				X
				X	p-dioxin				

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

TABLE 2 NJDEP EXPANDED PRIORITY POLLUTANTS

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
acrylamide				X	n,n-dimethyl aniline				X
amitrole				X	3,3-dimethyl benzidine				X
amyl alcohols		X			1,1-dimethylhydrazine				X
aniline hydorchloride				X	dioxane				X
anisole				X	diphenylamine				X
auramine				X	ethylenimine				X
benzotrichloride				X	hydrazine				X
benzylamine				X	4,4'-methylene bis				X
				X	(2-chloroaniline)				
o-chloroaniline				X	4,4'-methylenedianiline				X
m-chloroaniline				X	methyl isobutyl ketone		X		
p-chloraniline				X	alpha-naphthylamine				X
1-chloro-2-nitrobenzene				X	beta-naphthylamine				X
1-chloro-4-nitrobenzene				X	n-methylaniline				X
chloroprene				X	1,2-phenylenediamine				X
chrysoidine				X	1,3-phenylenediamine				X
cumene				X	1,4-phenylenediamine				X
2,3-dichloroaniline				X	sudan 1 (solvent yellow 14)				X
2,4-dichloroaniline				X	thiourea				X
2,5-dichloroaniline				X	toluene sulfonic acids		X		
3,4-dichloroaniline				X	toluidines				X
3,5-dichloroaniline				X	xylidines				X
1,3-dichloropropene				X					X
1,3-dimethoxybenzidine				X					

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

TABLE 3 EPA HAZARDOUS SUBSTANCES

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
acetaldehyde				X	isopropanolamine				X
allyl alcohol		X			kelthane				X
allyl chloride				X	kepone				X
amyl acetate				X	malathion				X
aniline				X	mercaptodimethur				X
benzonitrile				X	methoxychlor				X
benzyl chloride				X	methyl mercaptan				X
butyl acetate				X	methyl methacrylate				X
butylamine		X			methyl parathion				X
captan				X	mevinphos				X
carbaryl				X	mexacarbate				X
carbofuran				X	monoethyl amine				X
carbon disulfide				X	monomethyl amine				X
chlorpyrifos				X	naled				X
coumaphos				X	napthenic acid				X
cresol		X			nitrotoluene				X
crotonaldehyde		X			parathion				X
cyclohexane		X			phenolsulfanate				X
2,4-D (2,4-dichlorophenoxy				X	phosgene				X
acetic acid)					propargite				X
diazinon				X	propylene oxide				X
dicamba				X	pyrethrins				X
dichlobenil				X	quinoline				X
dichlone				X	resorcinol				X
2,2-dichloropropionic acid				X	strontium				X
dichlorvos				X	strychnine				X
diethyl amine				X	stryrene				X
dimethyl amine				X	2,4,5-T (2,4,5-trichloro-				X
					phenoxy acetic acid)				
dinitrobenzene				X	TDE (tetrachloro-				X
					diphenylethane)				
diquat				X	2,4,5-TP 2-(2,4,5-				X
					trichlorophenoxy)				
					propanoic acid				
disulfoton				X	trichlorofon				X
diuron				X	triethylamine				X
epichlorohydrin				X	trimethylamine				X

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

TABLE 3 EPA HAZARDOUS SUBSTANCES (CONTINUED)

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
ethanolamine				X	uranium				X
ethion				X	vanadium				X
ethylene diamine				X	vinyl acetate		X		
ethylene dibromide				X	xylene		X		
formaldehyde		X			xylenol				X
furfural				X	zirconium				X
guthion				X					
isoprene				X					

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

TABLE 1 EPA PRIORITY POLLUTANTS

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
acenaphthene				X	2,4 dimethylphenol				X
acrolein				X	2,4 dinitrotoluene				X
acrylonitrile				X	2,6 dinitrotoluene				X
benzene				X	1,2 diphenylhydrazine				X
benzidine				X	ethylbenzene				X
carbon tetrachloride				X	fluoranthene				X
(tetrachloromethane)					4-chlorophenyl phenyl ether				X
chlorobenzene				X	4-bromophenyl phenyl ether				X
1,2,4-trichlorobenzene				X	bis(2-cloroisopropyl) ether				X
hexachlorobenzene				X	bis(2-chloroethoxy) methane				X
1,2 dichloroethane				X	methylene chloride				X
1,1,1, trichlorethane				X	(dichloromethane)				
hexachloroethane				X	methyl chloride				X
1,1, dichloroethane				X	(chloromethane)				
1,1,2 trichloroethane				X	methyl bromide				X
1,1,2,2, tetrachloroethane				X	(bromomethane)				
chlorethane				X	bromoform(tribromomethane)				X
bis(chloromethyl) ether				X	dichlorobromomethane				X
bis(2 chloroethyl) ether				X	trichlorofluoromethane				X
2-chloroethyl vinyl ether (mixed)				X	dichlorodifuoromethane				X
2-chloronaphthalene				X	chlorodibromomethane				X
2,4,6, trichlorophenol				X	hexachlorobutadiene				X
parachlorometa cresol				X	hexachlorocyclopentadiene				X
chloroform (trichloromethane)	X				isophorone				X
2 chlorophenol				X	naphthalene				X
1,2, dichlorobenzene				X	nitrobenzene				X
1,3, dichlorobenzene				X	2-nitrophenol				X
1,4, dichlorobenzene				X	4-nitrophenol				X
3,3, dichlorobenzidine				X	2,4-dinitrophenol				X
1,1, dichloroethylene				X	4,6 dinitro-o cresol				X
1,2, trans-dichloroethylene				X	N-nitrosodimethylamine				X
2,4, dichlorophenol				X	N-nitrosodiphenylamine				X
1,2, dichloropropane				X	N-nitrosodi-n-proplyamine				X
1,3 dichloropropylene				X	pentachlorophenol				X
(1,3 dichloropropene)				X	phenol				X

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

TABLE 2 NJDEP EXPANDED PRIORITY POLLUTANTS

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
acrylamide				X	n,n-dimethyl aniline				X
amitrole				X	3,3-dimethyl benzidine				X
amyl alcohols				X	1,1-dimethylhydrazine				X
aniline hydorchloride				X	dioxane				X
anisole				X	diphenylamine				X
auramine				X	ethylenimine				X
benzotrichloride				X	hydrazine				X
benzylamine				X	4,4'-methylene bis (2-chloroaniline)				X
o-chloroaniline				X	4,4'-methylenedianiline				X
m-chloroaniline				X	methyl isobutyl ketone				X
p-chloraniline				X	alpha-naphthylamine				X
1-chloro-2-nitrobenzene				X	beta-naphthylamine				X
1-chloro-4-nitrobenzene				X	n-methylaniline				X
chloroprene				X	1,2-phenylenediamine				X
chrysoidine				X	1,3-phenylenediamine				X
cumene				X	1,4-phenylenediamine				X
2,3-dichloroaniline				X	sudan 1 (solvent yellow 14)				X
2,4-dichloroaniline				X	thiourea				X
2,5-dichloroaniline				X	toluene sulfonic acids				X
3,4-dichloroaniline				X	toluidines				X
3,5-dichloroaniline				X	xylidines				X
1,3-dichloropropene				X					
1,3-dimethoxybenzidine				X					

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

TABLE 3 EPA HAZARDOUS SUBSTANCES

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
acetaldehyde				X	isopropanolamine				X
allyl alcohol				X	kelthane				X
allyl chloride				X	kepone				X
amyl acetate				X	malathion				X
aniline				X	mercaptodimethur				X
benzonitrile				X	methoxychlor				X
benzyl chloride				X	methyl mercaptan				X
butyl acetate				X	methyl methacrylate				X
butylamine				X	methyl parathion				X
captan				X	mevinphos				X
carbaryl				X	mexacarbate				X
carbofuran				X	monoethyl amine				X
carbon disulfide				X	monomethyl amine				X
chlorpyrifos				X	naled				X
coumaphos				X	napthenic acid				X
cresol				X	nitrotoluene				X
crotonaldehyde				X	parathion				X
cyclohexane				X	phenolsulfanate				X
2,4-D (2,4-dichlorophenoxy				X	phosgene				X
acetic acid)				X	propargite				X
diazinon				X	propylene oxide				X
dicamba				X	pyrethrins				X
dichlobenil				X	quinoline				X
dichlone				X	resorcinol				X
2,2-dichloropropionic acid				X	strontium				X
dichlorvos				X	strychnine				X
diethyl amine				X	styrene				X
dimethyl amine				X	2,4,5-T (2,4,5-trichloro-				
					phenoxy acetic acid)				
dinitrobenzene				X	TDE (tetrachloro-				
					diphenylethane)				
diquat				X	2,4,5-TP 2-(2,4,5-				
					trichlorophenoxy)				
					propanoic acid				
disulfoton				X	trichlorofon				X
diuron				X	triethylamine				X
epichlorohydrin				X	trimethylamine				X

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

TABLE 1 EPA PRIORITY POLLUTANTS (CONTINUED)

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
bis(2-ethlhexyl) phthalate		X			endrin				X
butylbenzylphthalate				X	endrin aldahyde				X
di-n-butylphthalate				X	heptachlor				X
di-n-octylphthalate				X	heptachlor (epoxide)				X
diethylphthalate		X			BHC Alpha				X
dimethylphthalate				X	BHC Beta				X
benzo(a)anthracene				X	BHC Gamma				X
benzo(a)pyrene				X	BHC Delta				X
3,4 benzofluoranthene				X	PCB-1242				X
benzo(k)fluoranthane				X	PCB-1254				X
chrysene				X	PCB-1221				X
acenaphthylene				X	PCB-1232				X
anthracene				X	PCB-1248				X
benzo(ghi)perylene				X	PCB-1260				X
fluorene				X	PCB-1016				X
phenanthrene				X	toxaphene				X
dibenzo(a,h)anthracene				X	antimony (total)				X
indeno(1,2,3-c,d)pyrene				X	arsenic (total)				X
pyrene				X	asbestos (fibrous)				X
tetrachloroethylene				X	beryllium (total)				X
toluene				X	cadmium (total)				X
trichloroethylene				X	chromium (total)				X
vinyl chloride				X	copper (total)		X		
aldrin				X	cyanide (total)				X
dieldrin				X	lead (total)		X		
chlordane				X	mercury (total)				X
4,4 DDT				X	nickel (total)		X		
4,4 DDE				X	selenium (total)				X
4,4 DDD				X	silver (total)				X
endosulfan 1				X	thallium (total)				X
endosulfan 11				X	zinc (total)		X		
endosulfan sulfate				X	2,3,7,8, tetrachlorodibenzo				X
					p-dioxin				

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

TABLE 3 EPA HAZARDOUS SUBSTANCES (CONTINUED)

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
ethanolamine				X	uranium				X
ethion				X	vanadium				X
ethylene diamine				X	vinyl acetate				X
ethylene dibromide				X	xylene				X
formaldehyde				X	xylenol				X
furfural				X	zirconium				X
guthion				X					
isoprene				X					

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

Item 15. List of Potential Off-Site Disposal Contractors

	Waste Codes
Oldover Corporation P. O. Box 68 Arvonia, Virginia 23004 (804) 581-2336 EPA ID # VAD 040 159 436	D001, F003, F005
Rollins Environmental Services P. O. Box 337 Bridgeport, New Jersey 08014 (609) 467-3105 EPA ID # NJD 053 288 239	D001, F003, F005
Environmental Waste Resources, Inc. 130 Freight Street Waterbury, Connecticut 06702 (203) 755-2283 EPA ID # CTD 072 138 969	D001, F003, F005
Southeastern Chemical & Solvent 755 Industrial Road Sumter, South Carolina 29150 (803) 773-1400 EPA ID # SCD 036 275 626	D001, F003, F005

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
10	01	95	10	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	50,400	106,100
Total Flow-gal/day	148,300	312,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days 31

N/A ***Flow on Sample date 10/4-10/5 - 177,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Benzene	Sample measurement	< 0.00074	< 0.00074	# / day	1	Grab
	Permit requirement	0.27421	0.64463	# / day	1	
Carbon Tetrachloride	Sample measurement	< 0.00089	< 0.00089	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Chlorobenzene	Sample measurement	< 0.00089	< 0.00089	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
1,2,4-Trichloro-benzene	Sample measurement	< 0.03395	< 0.03395	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
Hexachlorobenzene	Sample measurement	< 0.02805	< 0.02805	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,2-Dichloroethane	Sample measurement	< 0.00295	< 0.00295	# / day	1	Grab
	Permit requirement	0.86568	2.76056	# / day	1	
1,1,1-Trichloro-ethane	Sample measurement	< 0.00074	< 0.00074	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	
Hexachloroethane	Sample measurement	< 0.04281	< 0.04281	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,1-Dichloroethane	Sample measurement	< 0.00148	< 0.00148	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	

DURING THIS MONITORING PERIOD NO CHANGE HAS BEEN MADE TO THE PLOT PLAN SUBMITTED TO PVSC ON 9/19/95

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION
Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034
Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034
Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451
Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
10	01	95	10	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	50,400	106,100
Total Flow-gal/day	148,300	312,000

Method used Flow meters & estimated flows

No. of Working Days - 31

Production rate (if applicable) N/A ***Flow on Sample date 10/4-10/5 - 177,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,1,2-Trichloroethane	Sample measurement	< 0.00074	< 0.00074	# / day	1	Grab
	Permit requirement	0.15390	0.61079	# / day	1	
Chloroethane	Sample measurement	< 0.00295	< 0.00295	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Chloroform	Sample measurement	0.02067	0.02067	# / day	1	Grab
	Permit requirement	0.53384	1.56304	# / day	1	
1,2-Dichlorobenzene	Sample measurement	< 0.03543	< 0.03543	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,3-Dichlorobenzene	Sample measurement	< 0.03543	< 0.03543	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,4-Dichlorobenzene	Sample measurement	< 0.03395	< 0.03395	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,1-Dichloroethylene	Sample measurement	< 0.00295	< 0.00295	# / day	1	Grab
	Permit requirement	0.10581	0.28856	# / day	1	
1,2-Trans-Dichloroethylene	Sample measurement	< 0.00295	< 0.00295	# / day	1	Grab
	Permit requirement	0.12023	0.31742	# / day	1	
1,2-Dichloropropane	Sample measurement	< 0.00089	< 0.00089	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	

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10	01	95	10	31	95
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Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	50,400	106,100
Total Flow-gal/day	148,300	312,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 10/4-10/5 - 177,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3-Dichloro-propylene	Sample measurement	< 0.00074	< 0.00074	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	
Ethylbenzene	Sample measurement	< 0.00103	< 0.00103	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Methylene Chloride	Sample measurement	< 0.00443	< 0.00443	# / day	1	Grab
	Permit requirement	0.17314	0.81759	# / day	1	
Methyl Chloride	Sample measurement	< 0.00738	< 0.00738	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Hexachloro-butadiene	Sample measurement	< 0.01476	< 0.01476	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
Nitrobenzene	Sample measurement	< 0.01476	< 0.01476	# / day	1	Comp.
	Permit requirement	10.75850	30.78942	# / day	1	
2-Nitrophenol	Sample measurement	< 0.01476	< 0.01476	# / day	1	Comp.
	Permit requirement	0.31261	1.11096	# / day	1	
4-Nitrophenol	Sample measurement	< 0.01476	< 0.01476	# / day	1	Comp.
	Permit requirement	0.77911	2.77018	# / day	1	
4,6-Dinitro-o-Cresol	Sample measurement	< 0.01476	< 0.01476	# / day	1	Comp.
	Permit requirement	0.37513	1.33219	# / day	1	

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PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
10	01	95	10	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	50,400	106,100
Total Flow-gal/day	148,300	312,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 10/4-10/5 - 177,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Tetrachloro-ethylene	Sample measurement	< 0.00103	< 0.00103	# / day	1	Grab
	Permit requirement	0.250009	0.78873	# / day	1	
Toluene	Sample measurement	0.01033	0.01033	# / day	1	Grab
	Permit requirement	0.13466	0.35589	# / day	1	
Trichloro-ethylene	Sample measurement	< 0.00089	< 0.00089	# / day	1	Grab
	Permit requirement	0.12504	0.33184	# / day	1	
Vinyl Chloride	Sample measurement	< 0.00295	< 0.00295	# / day	1	Grab
	Permit requirement	0.46651	0.82721	# / day	1	
Total Cyanide	Sample measurement	< 0.01476	< 0.01476	# / day	1	Grab
	Permit requirement	2.01992	5.77121	# / day	1	
Total Lead	Sample measurement	0.01771	0.01771	# / day	1	Comp.
	Permit requirement	1.53899	3.31845	# / day	1	
Total Zinc	Sample measurement	0.15648	0.15648	# / day	1	Comp.
	Permit requirement	5.04981	12.55239	# / day	1	
Petroleum Hydrocarbons	Sample measurement	13	13	mg / L	1	Grab
	Permit requirement		100	mg / L	1	
	Sample measurement					
	Permit requirement					

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DURING THIS MONITORING PERIOD NO CHANGE HAS BEEN MADE TO THE PLOT PLAN SUBMITTED TO PVSC ON 9/19/95

Certification of Non-use if applicable (use additional sheets)

Not Applicable

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

SEE ATTACHMENT 1

Explain Method for preserving samples

The laboratory preservation methods and holding times were performed in accordance with EPA/NJDEPE approved procedures and methodologies.

*** SEE ATTACHMENT 2 FOR SPECIFIC PRESERVATION METHODOLOGIES. ***

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Harold G. Thompson

Signature of Principal Executive or Authorized Agent

Harold G. Thompson

Senior Vice President / Operations

Type Name and Title

November 16, 1995

Date

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Attachment 2

PRESERVATION METHODOLOGIES

Volatile Organics Samples :
Cool to 4°C in an ice chest.

Total Cyanide Samples :
Preserve sample with 10 N NaOH to a pH of greater than 12. After preserving the sample, cool to 4°C in an ice chest.

Total Lead and Total Zinc Samples :
Acidify sample with Conc. HNO_3 to a pH of 2 or less.

Acid / Base Neutrals Extractables Samples :
Approximately 80 mg/l sodium thiosulfate is added to the bottle(s) in the laboratory prior to being brought into the field. After collection, the sample is cooled to 4°C in an ice chest.

Petroleum Hydrocarbon Samples :
Preserve sample with conc. H_2SO_4 or HCl to a pH of less than 2 and cool to 4°C in an ice chest.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
OCTOBER 18, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

VOLATILE ORGANIC ANALYSIS BY GC/MS

Lab Number: 221462
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Grab
Sample date: 10/05/95
Sampled by: Customer
At lab date: 10/05/95
Matrix: WATER

Data File: >G9360

Analysis Date: 10/12/95

Dilution Factor: 1

Init Sample vol= 5ml

Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	5
Bromomethane	U	U	4
Vinyl chloride	U	U	2
Chloroethane	U	U	2
Methylene chloride	U	U	3
Trichlorofluoromethane	U	U	2
1,1-Dichloroethene	U	U	2
1,1-Dichloroethane	U	U	1
trans-1,2-Dichloroethene	U	U	2
Chloroform	14	U	2
1,2-Dichloroethane	U	U	2
1,1,1-Trichloroethane	U	U	0.5
Carbon tetrachloride	U	U	0.6
Bromodichloromethane	4	U	0.6
1,2-Dichloropropane	U	U	0.6
cis-1,3-Dichloropropene	U	U	0.5
2-Chloroethyl vinyl ether	U	U	0.6
Trichloroethene	U	U	0.6
Dibromochloromethane	1	U	0.6
1,1,2-Trichloroethane	U	U	0.5
Benzene	U	U	0.5
trans-1,3-Dichloropropene	U	U	0.6
Bromoform	U	U	0.8
Tetrachloroethene	U	U	0.7
1,1,2,2-Tetrachloroethane	U	U	0.5
Toluene	7	U	0.8
Chlorobenzene	U	U	0.6
Ethylbenzene	U	U	0.7
p&m-Xylene	2	U	0.9
o-Xylene	U	U	0.9
total Xylenes	2	U	0.9
1,3-Dichlorobenzene	U	U	0.7
1,2-Dichlorobenzene	U	U	0.5
1,4-Dichlorobenzene	U	U	2

The total Xylenes result includes the sum of p&m-Xylene and o-Xylene.

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

ND: Not Determined.

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
OCTOBER 19, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Lab Number: 221463
Data File: >IF3625
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Composite
Sample date: 10/05/95
Extracted Date: 10/10/95
Sampled by: Customer
Analysis Date: 10/17/95
Column: 30m SPB-5
At lab date: 10/05/95
Dilution Factor: 10
Matrix: WATER
Init Sample vol= 1000ml
Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	10
2-Nitrophenol	U	U	10
Phenol	U	U	18
2,4-Dimethylphenol	U	U	10
2,4-Dichlorophenol	U	U	10
2,4,6-Trichlorophenol	U	U	10
Pentachlorophenol	U	U	10
2,4-Dinitrophenol	U	U	36
4,6-Dinitro-2-methylphenol	U	U	10
4-Nitrophenol	U	U	10
4-Chloro-3-methylphenol	U	U	10

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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2

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
OCTOBER 19, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Lab Number: 221463
Data File: >F3625
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Composite
Sample date: 10/05/95
Extracted Date: 10/10/95
Sampled by: Customer
Analysis Date: 10/17/95
Column: 30m SPB-5
At lab date: 10/05/95
Dilution Factor: 10
Matrix: WATER
Init Sample vol= 1000ml
Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	10
bis(2-Chloroethyl)ether	U	U	10
1,3-Dichlorobenzene	U	U	24
1,4-Dichlorobenzene	U	U	23
1,2-Dichlorobenzene	U	U	24
bis(2-Chloroisopropyl)ether	U	U	12
N-Nitroso-di-n-propylamine	U	U	18
Hexachloroethane	U	U	29
Nitrobenzene	U	U	10
Isophorone	U	U	10
bis(2-Chloroethoxy)methane	U	U	10
1,2,4-Trichlorobenzene	U	U	23
Naphthalene	U	U	20
Hexachlorobutadiene	U	U	10
Hexachlorocyclopentadiene	U	U	15
2-Chloronaphthalene	U	U	20
Dimethyl phthalate	U	U	46
Acenaphthylene	U	U	15
2,6-Dinitrotoluene	U	U	10
Acenaphthene	U	U	19
2,4-Dinitrotoluene	U	U	10
Diethyl phthalate	U	U	23
4-Chlorophenyl phenyl ether	U	U	20
Fluorene	U	U	17
N-Nitrosodiphenylamine	U	U	10
1,2-Diphenylhydrazine (Azobenzene)	U	U	10
4-Bromophenyl phenyl ether	U	U	19
Hexachlorobenzene	U	U	19
Phenanthrene	U	U	9
Anthracene	U	U	8
Di-n-butylphthalate	U	U	25
Fluoranthene	U	U	6
Benzidine	U	U	10
Pyrene	U	U	5
Butyl benzylphthalate	U	U	12
3,3'-Dichlorobenzidine	U	U	10
Benzo(a)anthracene	U	U	5
Chrysene	U	U	5
bis(2-Ethylhexyl)phthalate	U	U	30
Di-n-octylphthalate	U	U	10
Benzo(b)fluoranthene	U	U	7

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
OCTOBER 19, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Lab Number: 221463 Data File: >F3625
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Composite
Sample date: 10/05/95 Extracted Date: 10/10/95
Sampled by: Customer Analysis Date: 10/17/95 Column: 30m SPB-5
At lab date: 10/05/95 Dilution Factor: 10
Matrix: WATER
Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Benzo(k)fluoranthene	U	U	7
Benzo(a)pyrene	U	U	5
Indeno(1,2,3-cd)pyrene	U	U	11
Dibenz(a,h)anthracene	U	U	5
Benzo(g,h,i)perylene	U	U	5

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
OCTOBER 18, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 221463
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Composite
Sample date: 10/05/95
Sampled by: Customer
At lab date: 10/05/95
Matrix: WATER

Percent Moisture: 100 %

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Lead	0.012	U	0.004	10/17/95
Zinc	0.106	U	0.020	10/17/95

U = Not Detected

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Richard Levine, President

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BON

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Monthly Discharge 001
Sample Date: 10/05/95
Sampled by: Customer
At Lab Date: 10/05/95
Sample Matrix: Aqueous

Lab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
221462	DSN 001 Grab	13	U	0.56	10/06/95	10/06/95

U = Not detected

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Richard Levine, President

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GEE

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
OCTOBER 17, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 221462
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Monthly Discharge 001
Sample ID: DSN 001 Grab
Sample matrix: LIQUID (AQUEOUS)
Sample date: 10/05/95
Sampled by: Customer
At lab date: 10/05/95

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Cyanide, Total	U	U	0.010

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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Richard Levine, President

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BON

ATTACHMENT B

MR-2 FORMS FOR :

DISCHARGE POINT 001, 002, 003 & 004

USER CHARGE SELF MONITORING REPORT

NAME Givaudan Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION SAME AS ABOVE

OUTLET DESIGNATION (17 DIGITS) 0340-1021-04626-0451

MONITORING PERIOD					
10	01	95	10	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
4,598,000 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 334881(000)

DATE	BOD 0310	TSS 0530	TDS-COD	DATE	BOD 0310	TSS 0530	TDS-COD
10/1	1952	43		10/17	952	63	
10/2	682	19		10/18	3701	25	6977-6030
10/3	652	30		10/19	4108	33	
10/4	1582	24	8187-4055	10/20	2689	33	
10/5	1802	13		10/21	2509	93	
10/6	1267	51		10/22	2069	90	
10/7	1454	68		10/23	3114	67	
10/8	2017	17		10/24	1552	142	
10/9	568	15		10/25	3054	47	6738-4980
10/10	502	18		10/26	3323	50	
10/11	706	27	4565-2500	10/27	3737	48	
10/12	2856	95		10/28	2216	51	
10/13	2731	83		10/29	3677	45	
10/14	2886	49		10/30	2653	42	
10/15	1925	56		10/31	775	91	
10/16	1062	8					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE November 16, 1995

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 174 Delawanna Avenue - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1022-04626-0451

MONITORING PERIOD					
10	1	95	10	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
64,960 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 1619927(0)

DATE	BOD 0310	TSS 0530		DATE	BOD 0310	TSS 0530	
10/4	670	14					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE November 16, 1995

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 2 Peekay Drive - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1023-04626-0451

MONITORING PERIOD					
10	1	95	10	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

*FLOW FOR #4 ESTIMATED
FLOW FOR #3 METER READING

VOL. DISCHARGED THIS PERIOD
2,369,950 GALS*
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 964105(0)*

VOL. DISCHARGED TOTAL FOR #3 AND #4

DATE	BOD 0310	TSS 0530	COD	DATE	BOD 0310	TSS 0530	

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE November 16, 1995

PVSC FORM MR-2 REV.2. 1/86

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 001 **Date of Sample :** October 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow :4,598,000 gals. Average Flow :148,323 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	COD (mg/L)
10/1/95	1952	43		
10/2/95	682	19		
10/3/95	652	30		
10/4/95	1582	24	8187	4055
10/5/95	1802	13		
10/6/95	1267	51		
10/7/95	1454	68		
10/8/95	2017	17		
10/9/95	568	15		
10/10/95	502	18		
10/11/95	706	27	4565	2500
10/12/95	2856	95		
10/13/95	2731	83		
10/14/95	2886	49		
10/15/95	1925	56		
10/16/95	1062	8		
10/17/95	952	63		
10/18/95	3701	25	6977	6030
10/19/95	4108	33		
10/20/95	2689	33		
10/21/95	2509	93		
10/22/95	2069	90		
10/23/95	3114	67		
10/24/95	1552	142		
10/25/95	3054	47	6738	4980
10/26/95	3323	50		
10/27/95	3737	48		
10/28/95	2216	51		
10/29/95	3677	45		
10/30/95	2653	42		
10/31/95	775	91		

Patricia Hopkins
Laboratory Supervisor

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 002 **Date of Sample :** October 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : NA Average Flow : NA

Sampling Date	BOD (mg/L)	TSS (mg/L)
10/4/95	670	14

Patricia Hopkins
Laboratory Supervisor

1996 JAN INDUSTRIAL DEPARTMENT INPUT

131 4564

USER CHARGE SELF MONITORING REPORT

NAME Givaudan Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION SAME AS ABOVE

OUTLET DESIGNATION (17 DIGITS) 0340-1021-04626-0451

MONITORING PERIOD					
10	01	95	10	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
4.598 ~~4,598,000~~ GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 334881(000)

DATE	BOD 0310	TSS 0530	TDS-COD	DATE	BOD 0310	TSS 0530	TDS-COD
10/1	1952	43		10/17	952	63	
10/2	682	19		10/18	3701	25	~~6977-6030~~
10/3	652	30		10/19	4108	33	
10/4	1582	24	~~8187-4055~~	10/20	2689	33	
10/5	1802	13		10/21	2509	93	
10/6	1267	51		10/22	2069	90	
10/7	1454	68		10/23	3114	67	
10/8	2017	17		10/24	1552	142	
10/9	568	15		10/25	3054	47	~~6738-4980~~
10/10	502	18		10/26	3323	50	
10/11	706	27	~~4565-2500~~	10/27	3737	48	
10/12	2856	95		10/28	2216	51	
10/13	2731	83		10/29	3677	45	
10/14	2886	49		10/30	2653	42	
10/15	1925	56		10/31	775	91	
10/16	1062	8					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE November 16, 1995

PVSC FORM MR-2 REV. 2. 1/86

210,863,302 26,040 66,309

ADD SAMPLE RESULTS INPUT FORM

GLVAUDAN-ROURE CORP.
NAME

STREET

TSS
PARAM ABBREVIATION

CITY

3/18/96
DATE

SAMPLE DATE M M D D Y Y	SAMPLE VALUES	ID NUMBER	PARAMETER NUMBER	(CUSTOMER ONLY) MON. INTVL.	(CUSTOMER ONLY) LAB WORK ORDER
102095	330000	03401021	0530	E	

1944

8234

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 2 Peekay Drive - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1023-04626-0451

MONITORING PERIOD					
10	1	95	10	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
2,~~359,950~~ GALS* 2370
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 964105(0)*

*FLOW FOR #4 ESTIMATED
FLOW FOR #3 METER READING
VOL. DISCHARGED TOTAL FOR #3 AND #4

DATE	BOD 0310	TSS 0530	COD	DATE	BOD 0310	TSS 0530	
10/31	195	142					

1996 JAN INDUSTRIAL DEPARTMENT INPUT

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE November 16, 1995

© USPS 1994 ● Peel here to fold ● Self-adhesive ● DO NOT WET

PVSC FORM MR-2 REV. [illegible]

6,802,046 840 337

1944

1996 JAN
INDUSTRIAL DEPARTMENT INPUT

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 174 Delawanna Avenue - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1022-04626-0451

MONITORING PERIOD					
10	1	95	10	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
~~64,960~~ GALS .065
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD ~~1619927~~(0)

DATE	BOD 0310	TSS 0530		DATE	BOD 0310	TSS 0530	
10/4	670	14					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE November 16, 1995

PVSC FORM MR-2 REV.2. 1/86

61,802,044 840 684

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
11	01	95	11	30	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	63,600	122,400
Total Flow-gal/day	187,100	360,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days 30

N/A ***Flow on Sample date 11/8-11/9 - 250,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Benzene	Sample measurement	< 0.00104	< 0.00104	# / day	1	Grab
	Permit requirement	0.27421	0.64463	# / day	1	
Carbon Tetrachloride	Sample measurement	< 0.00125	< 0.00125	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Chlorobenzene	Sample measurement	< 0.00125	< 0.00125	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
1,2,4-Trichloro-benzene	Sample measurement	< 0.02502	< 0.02502	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
Hexachlorobenzene	Sample measurement	< 0.02085	< 0.02085	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,2-Dichloroethane	Sample measurement	< 0.00417	< 0.00417	# / day	1	Grab
	Permit requirement	0.86568	2.76056	# / day	1	
1,1,1-Trichloro-ethane	Sample measurement	< 0.00104	< 0.00104	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	
Hexachloroethane	Sample measurement	< 0.03128	< 0.03128	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,1-Dichloroethane	Sample measurement	< 0.00209	< 0.00209	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
11	01	95	11	30	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	63,600	122,400
Total Flow-gal/day	187,100	360,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 30

N / A ***Flow on Sample date 11/8-11/9 - 250,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,1,2-Trichloro-ethane	Sample measurement	< 0.00104	< 0.00104	# / day	1	Grab
	Permit requirement	0.15390	0.61079	# / day	1	
Chloroethane	Sample measurement	< 0.00417	< 0.00417	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Chloroform	Sample measurement	0.00834	0.00834	# / day	1	Grab
	Permit requirement	0.53384	1.56304	# / day	1	
1,2-Dichloro-benzene	Sample measurement	< 0.02502	< 0.02502	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,3-Dichloro-benzene	Sample measurement	< 0.02502	< 0.02502	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,4-Dichloro-benzene	Sample measurement	< 0.02502	< 0.02502	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,1-Dichloro-ethylene	Sample measurement	< 0.00417	< 0.00417	# / day	1	Grab
	Permit requirement	0.10581	0.28856	# / day	1	
1,2-Trans-Dichloroethylene	Sample measurement	< 0.00417	< 0.00417	# / day	1	Grab
	Permit requirement	0.12023	0.31742	# / day	1	
1,2-Dichloro-propane	Sample measurement	< 0.00125	< 0.00125	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
11	01	95	11	30	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	63,600	122,400
Total Flow-gal/day	187,100	360,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 30

N/A ***Flow on Sample date 11/8-11/9 - 250,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3-Dichloro-propylene	Sample measurement	< 0.00125	< 0.00125	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	
Ethylbenzene	Sample measurement	< 0.00146	< 0.00146	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Methylene Chloride	Sample measurement	< 0.00626	< 0.00626	# / day	1	Grab
	Permit requirement	0.17314	0.81759	# / day	1	
Methyl Chloride	Sample measurement	< 0.01043	< 0.01043	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Hexachloro-butadiene	Sample measurement	< 0.01043	< 0.01043	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
Nitrobenzene	Sample measurement	< 0.01043	< 0.01043	# / day	1	Comp.
	Permit requirement	10.75850	30.78942	# / day	1	
2-Nitrophenol	Sample measurement	< 0.01043	< 0.01043	# / day	1	Comp.
	Permit requirement	0.31261	1.11096	# / day	1	
4-Nitrophenol	Sample measurement	< 0.01043	< 0.01043	# / day	1	Comp.
	Permit requirement	0.77911	2.77018	# / day	1	
4,6-Dinitro-o-Cresol	Sample measurement	< 0.01043	< 0.01043	# / day	1	Comp.
	Permit requirement	0.37513	1.33219	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
11	01	95	11	30	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	63,600	122,400
Total Flow-gal/day	187,100	360,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 30

N/A ***Flow on Sample date 11/8-11/9 - 250,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Tetrachloro-ethylene	Sample measurement	< 0.00146	< 0.00146	# / day	1	Grab
	Permit requirement	0.250009	0.78873	# / day	1	
Toluene	Sample measurement	< 0.00167	< 0.00167	# / day	1	Grab
	Permit requirement	0.13466	0.35589	# / day	1	
Trichloro-ethylene	Sample measurement	0.00417	0.00417	# / day	1	Grab
	Permit requirement	0.12504	0.33184	# / day	1	
Vinyl Chloride	Sample measurement	< 0.00417	< 0.00417	# / day	1	Grab
	Permit requirement	0.46651	0.82721	# / day	1	
Total Cyanide	Sample measurement	< 0.02085	< 0.02085	# / day	1	Grab
	Permit requirement	2.01992	5.77121	# / day	1	
Total Lead	Sample measurement	0.02502	0.02502	# / day	1	Comp.
	Permit requirement	1.53899	3.31845	# / day	1	
Total Zinc	Sample measurement	0.67346	0.67346	# / day	1	Comp.
	Permit requirement	5.04981	12.55239	# / day	1	
Petroleum Hydrocarbons	Sample measurement	3.1	3.1	mg / L	1	Grab
	Permit requirement		100	mg / L	1	
	Sample measurement					
	Permit requirement					

Certification of Non-use if applicable (use additional sheets)

Not Applicable

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

SEE ATTACHMENT 1

Explain Method for preserving samples

The laboratory preservation methods and holding times were performed in accordance with EPA/NJDEPE approved procedures and methodologies.

*** SEE ATTACHMENT 2 FOR SPECIFIC PRESERVATION METHODOLOGIES. ***

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Harold G. Thompson

Signature of Principal Executive or Authorized Agent

Harold G. Thompson

Senior Vice President / Operations

Type Name and Title

December 15 1995

Date

Attachment 1

Outfall 001

Compliance statement

During the month of November, 1995 Givaudan-Roure's test readings were within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H and other regulatory agency limitations.

Attachment 2

PRESERVATION METHODOLOGIES

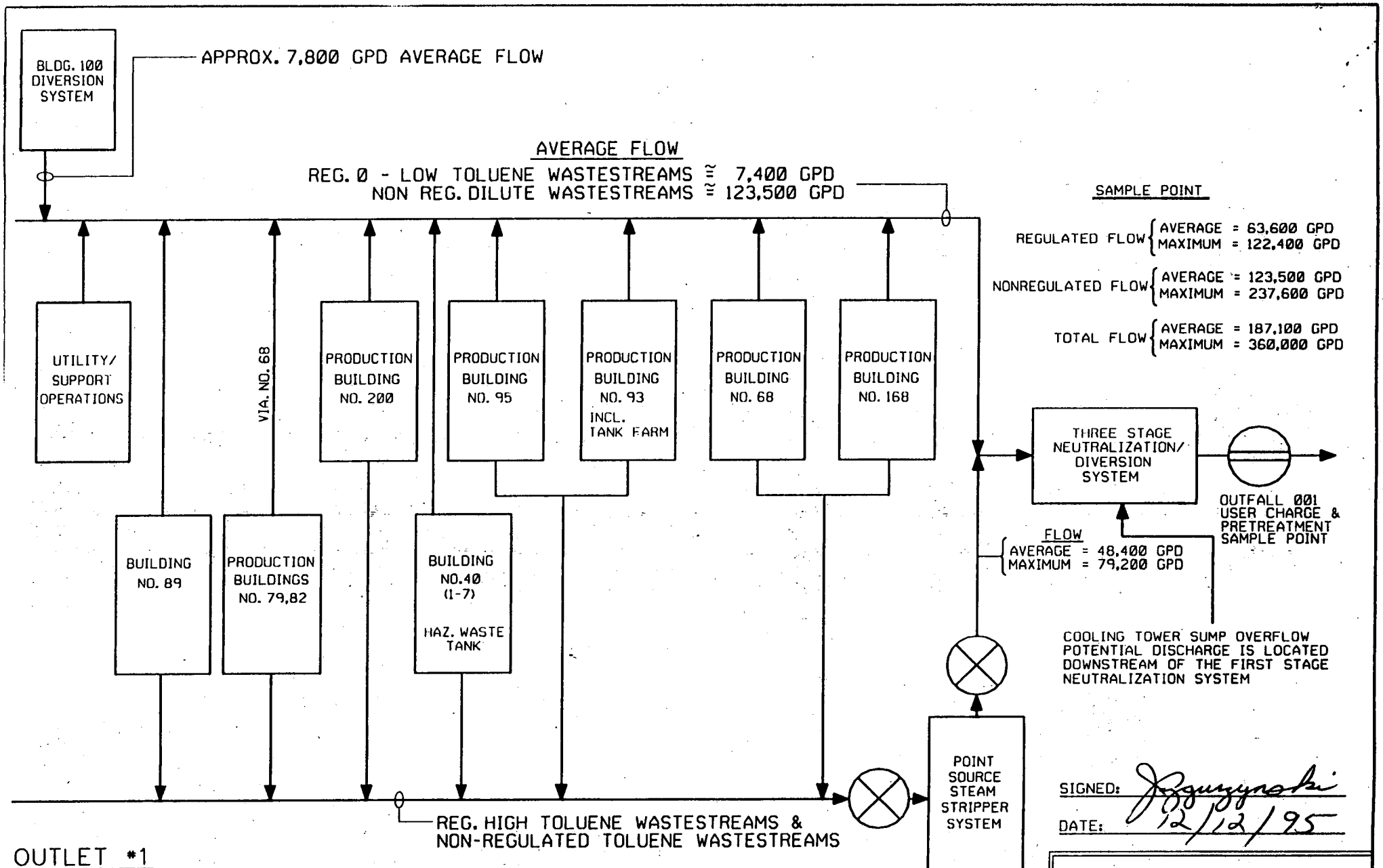
Volatile Organics Samples :
Cool to 4°C in an ice chest.

Total Cyanide Samples :
Preserve sample with 10 N NaOH to a pH of greater than 12. After preserving the sample, cool to 4°C in an ice chest.

Total Lead and Total Zinc Samples :
Acidify sample with Conc. HNO_3 to a pH of 2 or less.

Acid / Base Neutrals Extractables Samples :
Approximately 80 mg/l sodium thiosulfate is added to the bottle(s) in the laboratory prior to being brought into the field. After collection, the sample is cooled to 4°C in an ice chest.

Petroleum Hydrocarbon Samples :
Preserve sample with conc. H_2SO_4 or HCl to a pH of less than 2 and cool to 4°C in an ice chest.


BLDG. 100 DIVERSION SYSTEM
APPROX. 7,800 GPD AVERAGE FLOW
AVERAGE FLOW
REG. 0 - LOW TOLUENE WASTESTREAMS ≅ 7,400 GPD
NON REG. DILUTE WASTESTREAMS ≅ 123,500 GPD
SAMPLE POINT
REGULATED FLOW { AVERAGE = 63,600 GPD MAXIMUM = 122,400 GPD
NONREGULATED FLOW { AVERAGE = 123,500 GPD MAXIMUM = 237,600 GPD
TOTAL FLOW { AVERAGE = 187,100 GPD MAXIMUM = 360,000 GPD
UTILITY/ SUPPORT OPERATIONS
VIA. NO. 68
PRODUCTION BUILDING NO. 200
PRODUCTION BUILDING NO. 95
PRODUCTION BUILDING NO. 93 INCL. TANK FARM
PRODUCTION BUILDING NO. 68
PRODUCTION BUILDING NO. 168
THREE STAGE NEUTRALIZATION/ DIVERSION SYSTEM
OUTFALL 001 USER CHARGE & PRETREATMENT SAMPLE POINT
FLOW
AVERAGE = 48,400 GPD
MAXIMUM = 79,200 GPD
BUILDING NO. 89
PRODUCTION BUILDINGS NO. 79,82
BUILDING NO.40 (1-7) HAZ. WASTE TANK
COOLING TOWER SUMP OVERFLOW POTENTIAL DISCHARGE IS LOCATED DOWNSTREAM OF THE FIRST STAGE NEUTRALIZATION SYSTEM
POINT SOURCE STEAM STRIPPER SYSTEM
REG. HIGH TOLUENE WASTESTREAMS & NON-REGULATED TOLUENE WASTESTREAMS
SIGNED:
DATE: 12/12/95
OUTLET #1
OUTLET 03401021 FOR USER CHARGE/PRETREATMENT IS LOCATED BY SAMPLE SHED BUILDING #11 LOCATED IN SOUTHWEST CORNER OF PROPERTY (40 CFR 414)
= COMPLIANCE MONITORING STATION (FLOW SAMPLE DATE, 11/8-11/9 = 250,000 GALS.)
= MONITORING STATION
GIVAUDAN-ROURE CORPORATION
UPDATED WASTE WATER PFD OUTFALL 001 NOVEMBER 1995
CHART NOVEMBER-95

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
NOVEMBER 17, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

VOLATILE ORGANIC ANALYSIS BY GC/MS

Lab Number: 223804
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Grab
Sample date: 11/09/95
Sampled by: Customer
At lab date: 11/09/95
Matrix: WATER

Data File: >A2878

Analysis Date: 11/14/95

Dilution Factor: 1

Init Sample vol= 5ml

Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	5
Bromomethane	U	U	4
Vinyl chloride	U	U	2
Chloroethane	U	U	2
Methylene chloride	U	U	3
Trichlorofluoromethane	U	U	2
1,1-Dichloroethene	U	U	2
1,1-Dichloroethane	U	U	1
trans-1,2-Dichloroethene	U	U	2
Chloroform	4	U	2
1,2-Dichloroethane	U	U	2
1,1,1-Trichloroethane	U	U	0.5
Carbon tetrachloride	U	U	0.6
Bromodichloromethane	U	U	0.6
1,2-Dichloropropane	U	U	0.6
cis-1,3-Dichloropropene	U	U	0.5
2-Chloroethyl vinyl ether	U	U	0.6
Trichloroethene	2	U	0.6
Dibromochloromethane	U	U	0.6
1,1,2-Trichloroethane	U	U	0.5
Benzene	U	U	0.5
trans-1,3-Dichloropropene	U	U	0.6
Bromoform	U	U	0.8
Tetrachloroethene	U	U	0.7
1,1,2,2-Tetrachloroethane	U	U	0.5
Toluene	U	U	0.8
Chlorobenzene	U	U	0.6
Ethylbenzene	U	U	0.7
p&m-Xylene	U	U	0.9
o-Xylene	U	U	0.9
total Xylenes	U	U	0.9
1,3-Dichlorobenzene	U	U	0.7
1,2-Dichlorobenzene	U	U	0.5
1,4-Dichlorobenzene	U	U	2

The total Xylenes result includes the sum of p&m-Xylene and o-Xylene.

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

ND: Not Determined.

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MEG

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Monthly Discharge 001
Sample Date: 11/09/95
Sampled by: Customer
At Lab Date: 11/09/95
Sample Matrix: Aqueous

Lab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
23804	DSN 001 Grab	3.1	U	0.56	11/14/95	11/14/95

U = Not detected

INDUSTRIAL CORROSION MANAGEMENT, INC.
Richard Levine, President

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GEE

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
NOVEMBER 21, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 223804
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Monthly Discharge 001
Sample ID: DSN 001 Grab
Sample matrix: LIQUID (AQUEOUS)
Sample date: 11/09/95
Sampled by: Customer
At lab date: 11/09/95

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT
Cyanide, Total	U	U	0.010

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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Richard Levine, President

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BON

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
NOVEMBER 16, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Lab Number: 223805
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Composite
Sample date: 11/09/95
Sampled by: Customer
At lab date: 11/09/95
Matrix: WATER

Data File: >I7450

Extracted Date: 11/10/95
Analysis Date: 11/14/95

Column: 30m SPB-5
Dilution Factor: 5

Init Sample vol= 1000ml Final volume= 5ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	5
2-Nitrophenol	U	U	5
Phenol	U	U	9
2,4-Dimethylphenol	U	U	5
2,4-Dichlorophenol	U	U	5
2,4,6-Trichlorophenol	U	U	5
Pentachlorophenol	U	U	5
2,4-Dinitrophenol	U	U	18
4,6-Dinitro-2-methylphenol	U	U	5
4-Nitrophenol	U	U	5
4-Chloro-3-methylphenol	U	U	5

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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MEG

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
NOVEMBER 16, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Lab Number: 223805
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Composite
Sample date: 11/09/95
Sampled by: Customer
At lab date: 11/09/95
Matrix: WATER

Extracted Date: 11/10/95
Analysis Date: 11/14/95

Data File: >I7450

Column: 30m SPB-5
Dilution Factor: 5

Init Sample vol= 1000ml Final volume= 5ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	5
bis(2-Chloroethyl)ether	U	U	5
1,3-Dichlorobenzene	U	U	12
1,4-Dichlorobenzene	U	U	12
1,2-Dichlorobenzene	U	U	12
bis(2-Chloroisopropyl)ether	U	U	6
N-Nitroso-di-n-propylamine	U	U	9
Hexachloroethane	U	U	15
Nitrobenzene	U	U	5
Isophorone	U	U	5
bis(2-Chloroethoxy)methane	U	U	5
1,2,4-Trichlorobenzene	U	U	12
Naphthalene	U	U	10
Hexachlorobutadiene	U	U	5
Hexachlorocyclopentadiene	U	U	8
2-Chloronaphthalene	U	U	10
Dimethyl phthalate	U	U	23
Acenaphthylene	U	U	8
2,6-Dinitrotoluene	U	U	5
Acenaphthene	U	U	10
2,4-Dinitrotoluene	U	U	5
Diethyl phthalate	U	U	12
4-Chlorophenyl phenyl ether	U	U	10
Fluorene	U	U	9
N-Nitrosodiphenylamine	U	U	5
1,2-Diphenylhydrazine (Azobenzene)	U	U	5
4-Bromophenyl phenyl ether	U	U	10
Hexachlorobenzene	U	U	10
Phenanthrene	U	U	5
Anthracene	U	U	4
Di-n-butylphthalate	U	U	13
Fluoranthene	U	U	3
Benzidine	U	U	5
Pyrene	U	U	3
Butyl benzylphthalate	U	U	5
3,3'-Dichlorobenzidine	U	U	5
Benzo(a)anthracene	U	U	3
Chrysene	U	U	3
bis(2-Ethylhexyl)phthalate	43	U	15
Di-n-octylphthalate	U	U	5
Benzo(b)fluoranthene	U	U	4

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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MEG

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
NOVEMBER 16, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Lab Number: 223805 Data File: >I7450
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Composite
Sample date: 11/09/95 Extracted Date: 11/10/95
Sampled by: Customer Analysis Date: 11/14/95 Column: 30m SPB-5
At lab date: 11/09/95 Dilution Factor: 5
Matrix: WATER
Init Sample vol= 1000ml Final volume= 5ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Benzo(k)fluoranthene	U	U	4
Benzo(a)pyrene	U	U	3
Indeno(1,2,3-cd)pyrene	U	U	6
Dibenz(a,h)anthracene	U	U	3
Benzo(g,h,i)perylene	U	U	3

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
NOVEMBER 20, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 223805
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Composite
Sample date: 11/09/95
Sampled by: Customer
At lab date: 11/09/95
Matrix: WATER

Percent Moisture: 100 %

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Lead	0.012	U	0.004	11/17/95
Zinc	0.323	U	0.020	11/17/95

U = Not Detected

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Richard Levine, President

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BON

ATTACHMENT B

MR-2 FORMS FOR :

DISCHARGE POINT 001, 002, 003 & 004

USER CHARGE SELF MONITORING REPORT

NAME Givaudan Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION SAME AS ABOVE

OUTLET DESIGNATION (17 DIGITS) 0340-1021-04626-0451

MONITORING PERIOD					
11	01	95	11	30	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
5,613,000 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 340494(000)

DATE	BOD 0310	TSS 0530	TDS-COD	DATE	BOD 0310	TSS 0530	TDS-COD
11/1	5075	58	11897-8205	11/17	5075	75	
11/2	5195	49		11/18	4593	62	
11/3	4330	61		11/19	4895	97	
11/4	3246	77		11/20	3731	39	
11/5	2970	86		11/21	2725	60	
11/6	4168	108		11/22	6156	42	14779-10382
11/7	2048	100		11/23	3180	18	
11/8	2731	19	8104-4032	11/24	3874	37	
11/9	6186	71		11/25	1680	43	
11/10	2754	40		11/26	529	54	
11/11	3383	137		11/27	505	153	
11/12	2075	48		11/28	508	166	
11/13	2766	62		11/29	4162	69	11485-6880
11/14	1697	88		11/30	3892	36	
11/15	2988	62	6593-4645				
11/16	4210	90					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE January 18, 1995

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 174 Delawanna Avenue - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1022-04626-0451

MONITORING PERIOD					
11	1	95	11	30	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
45,190 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 1624446(0)

DATE	BOD 0310	TSS 0530		DATE	BOD 0310	TSS 0530	
11/8	646	45					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE December 18, 1995

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 2 Peekay Drive - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1023-04626-0451

MONITORING PERIOD					
11	1	95	11	30	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
1,764,520 GALS*
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 138555(0)*

*FLOW FOR #4 ESTIMATED
FLOW FOR #3 METER READING
VOL. DISCHARGED TOTAL FOR #3 AND #4

DATE	BOD 0310	TSS 0530	COD	DATE	BOD 0310	TSS 0530	

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Harold G. Thompson	Harold G. Thompson	(201) 365-8595
	Senior VP / Operations	DATE December 13, 1995

PVSC FORM MR-2 REV.2. 1/86

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 001 **Date of Sample :** November 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow :5,613,000 gals. Average Flow :187,100 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	COD (mg/L)
11/1/95	5075	58	11897	8205
11/2/95	5195	49		
11/3/95	4330	61		
11/4/95	3246	77		
11/5/95	2970	86		
11/6/95	4168	108		
11/7/95	2048	100		
11/8/95	2731	19	8104	4032
11/9/95	6186	71		
11/10/95	2754	40		
11/11/95	3383	137		
11/12/95	2075	48		
11/13/95	2766	62		
11/14/95	1697	88		
11/15/95	2988	62	6593	4645
11/16/95	4210	90		
11/17/95	5075	75		
11/18/95	4593	62		
11/19/95	4895	97		
11/20/95	3731	39		
11/21/95	2725	60		
11/22/95	6156	42	14799	10382
11/23/95	3180	18		
11/24/95	3874	37		
11/25/95	1680	43		
11/26/95	529	54		
11/27/95	505	153		
11/28/95	508	166		
11/29/95	4162	69	11485	6880
11/30/95	3892	36		

Patricia Hopkins
Laboratory Supervisor

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 002 **Date of Sample :** November 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : NA Average Flow : NA

Sampling Date	BOD (mg/L)	TSS (mg/L)
11/8/95	646	45

Patricia Hopkins
Laboratory Supervisor

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
12	01	95	12	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	54,600	83,300
Total Flow-gal/day	160,700	245,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days 31

N/A ***Flow on Sample date 12/6-12/7 - 229,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Benzene	Sample measurement	< 0.00573	< 0.00573	# / day	1	Grab
	Permit requirement	0.27421	0.64463	# / day	1	
Carbon Tetrachloride	Sample measurement	< 0.00573	< 0.00573	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Chlorobenzene	Sample measurement	< 0.00573	< 0.00573	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
1,2,4-Trichloro-benzene	Sample measurement	< 0.04393	< 0.04393	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
Hexachlorobenzene	Sample measurement	< 0.03629	< 0.03629	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,2-Dichloroethane	Sample measurement	< 0.0191	< 0.0191	# / day	1	Grab
	Permit requirement	0.86568	2.76056	# / day	1	
1,1,1-Trichloro-ethane	Sample measurement	< 0.00573	< 0.00573	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	
Hexachloroethane	Sample measurement	< 0.05539	< 0.05539	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,1-Dichloroethane	Sample measurement	< 0.01337	< 0.01337	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
12	01	95	12	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	54,600	83,300
Total Flow-gal/day	160,700	245,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 12/6-12/7 - 229,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,1,2-Trichloro-ethane	Sample measurement	< 0.00573	< 0.00573	# / day	1	Grab
	Permit requirement	0.15390	0.61079	# / day	1	
Chloroethane	Sample measurement	< 0.01719	< 0.01719	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Chloroform	Sample measurement	0.03438	0.03438	# / day	1	Grab
	Permit requirement	0.53384	1.56304	# / day	1	
1,2-Dichloro-benzene	Sample measurement	< 0.04584	< 0.04584	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,3-Dichloro-benzene	Sample measurement	< 0.04584	< 0.04584	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,4-Dichloro-benzene	Sample measurement	< 0.04393	< 0.04393	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,1-Dichloro-ethylene	Sample measurement	< 0.01719	< 0.01719	# / day	1	Grab
	Permit requirement	0.10581	0.28856	# / day	1	
1,2-Trans-Dichloroethylene	Sample measurement	< 0.01719	< 0.01719	# / day	1	Grab
	Permit requirement	0.12023	0.31742	# / day	1	
1,2-Dichloro-propane	Sample measurement	< 0.00573	< 0.00573	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
12	01	95	12	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	54,600	83,300
Total Flow-gal/day	160,700	245,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 12/6-12/7 - 229,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3-Dichloro-propylene	Sample measurement	< 0.00573	< 0.00573	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	
Ethylbenzene	Sample measurement	< 0.00764	< 0.00764	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Methylene Chloride	Sample measurement	< 0.02865	< 0.02865	# / day	1	Grab
	Permit requirement	0.17314	0.81759	# / day	1	
Methyl Chloride	Sample measurement	< 0.04393	< 0.04393	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Hexachloro-butadiene	Sample measurement	< 0.0191	< 0.0191	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
Nitrobenzene	Sample measurement	< 0.0191	< 0.0191	# / day	1	Comp.
	Permit requirement	10.75850	30.78942	# / day	1	
2-Nitrophenol	Sample measurement	< 0.0191	< 0.0191	# / day	1	Comp.
	Permit requirement	0.31261	1.11096	# / day	1	
4-Nitrophenol	Sample measurement	< 0.0191	< 0.0191	# / day	1	Comp.
	Permit requirement	0.77911	2.77018	# / day	1	
4,6-Dinitro-o-Cresol	Sample measurement	< 0.0191	< 0.0191	# / day	1	Comp.
	Permit requirement	0.37513	1.33219	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
12	01	95	12	31	95
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	54,600	83,300
Total Flow-gal/day	160,700	245,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N/A ***Flow on Sample date 12/6-12/7 - 229,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Tetrachloro-ethylene	Sample measurement	< 0.00764	< 0.00764	# / day	1	Grab
	Permit requirement	0.25009	0.78873	# / day	1	
Toluene	Sample measurement	< 0.00764	< 0.00764	# / day	1	Grab
	Permit requirement	0.13466	0.35589	# / day	1	
Trichloro-ethylene	Sample measurement	< 0.00573	< 0.00573	# / day	1	Grab
	Permit requirement	0.12504	0.33184	# / day	1	
Vinyl Chloride	Sample measurement	< 0.01719	< 0.01719	# / day	1	Grab
	Permit requirement	0.46651	0.82721	# / day	1	
Total Cyanide	Sample measurement	0.02292	0.02292	# / day	1	Grab
	Permit requirement	2.01992	5.77121	# / day	1	
Total Lead	Sample measurement	0.01337	0.01337	# / day	1	Comp.
	Permit requirement	1.53899	3.31845	# / day	1	
Total Zinc	Sample measurement	0.35332	0.35332	# / day	1	Comp.
	Permit requirement	5.04981	12.55239	# / day	1	
Petroleum Hydrocarbons	Sample measurement	3.9	3.9	mg / L	1	Grab
	Permit requirement		100	mg / L	1	
	Sample measurement					
	Permit requirement					

Certification of Non-use if applicable (use additional sheets)

Not Applicable

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

SEE ATTACHMENT 1

Explain Method for preserving samples

The laboratory preservation methods and holding times were performed in accordance with EPA/NJDEPE approved procedures and methodologies.

*** SEE ATTACHMENT 2 FOR SPECIFIC PRESERVATION METHODOLOGIES. ***

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

William L. Orton

Signature of Principal Executive or Authorized Agent

William L. Orton

Senior Vice President / Operations

Type Name and Title

1/19/96

Date

PVSC Form MR-1 Rev. 5 3/91 P2

Attachment 1

Outfall 001

Compliance statement

During the month of December, 1995 Givaudan-Roure's test readings were within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H and other regulatory agency limitations.

Attachment 2

PRESERVATION METHODOLOGIES

Volatile Organics Samples :
Cool to 4°C in an ice chest.

Total Cyanide Samples :
Preserve sample with 10 N NaOH to a pH of greater than 12. After preserving the sample, cool to 4°C in an ice chest.

Total Lead and Total Zinc Samples :
Acidify sample with Conc. HNO_3 to a pH of 2 or less.

Acid / Base Neutrals Extractables Samples :
Approximately 80 mg/l sodium thiosulfate is added to the bottle(s) in the laboratory prior to being brought into the field. After collection, the sample is cooled to 4°C in an ice chest.

Petroleum Hydrocarbon Samples :
Preserve sample with conc. H_2SO_4 or HCl to a pH of less than 2 and cool to 4°C in an ice chest.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
DECEMBER 19, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

VOLATILE ORGANIC ANALYSIS BY GC/MS

Lab Number: 225656
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: Grab
Sample date: 12/07/95
Sampled by: Customer
At lab date: 12/07/95
Matrix: WATER

Data File: >H1262

Analysis Date: 12/15/95

Dilution Factor: 5

Init Sample vol= 1ml

Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	23
Bromomethane	U	U	19
Vinyl chloride	U	U	9
Chloroethane	U	U	9
Methylene chloride	U	U	15
Trichlorofluoromethane	U	U	8
1,1-Dichloroethene	U	U	9
1,1-Dichloroethane	U	U	7
trans-1,2-Dichloroethene	U	U	9
Chloroform	18	U	8
1,2-Dichloroethane	U	U	10
1,1,1-Trichloroethane	U	U	3
Carbon tetrachloride	U	U	3
Bromodichloromethane	U	U	3
1,2-Dichloropropane	U	U	3
cis-1,3-Dichloropropene	U	U	3
2-Chloroethyl vinyl ether	U	U	3
Trichloroethene	U	U	3
Dibromochloromethane	U	U	3
1,1,2-Trichloroethane	U	U	3
Benzene	U	U	3
trans-1,3-Dichloropropene	U	U	3
Bromoform	U	U	4
Tetrachloroethene	U	U	4
1,1,2,2-Tetrachloroethane	U	U	3
Toluene	U	U	4
Chlorobenzene	U	U	3
Ethylbenzene	U	U	4
p&m-Xylene	U	U	5
o-Xylene	U	U	5
total Xylenes	U	U	5
1,3-Dichlorobenzene	U	U	4
1,2-Dichlorobenzene	U	U	3
1,4-Dichlorobenzene	U	U	8

The total Xylenes result includes the sum of p&m-Xylene and o-Xylene.

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

ND: Not Determined.

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LAU

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
DECEMBER 21, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Lab Number: 225657
Data File: >I7809
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: Composite
Sample date: 12/07/95
Extracted Date: 12/12/95
Sampled by: Customer
Analysis Date: 12/19/95
Column: 30m SPB-5
At lab date: 12/07/95
Dilution Factor: 10
Matrix: WATER

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	10
2-Nitrophenol	U	U	10
Phenol	20	U	18
2,4-Dimethylphenol	U	U	10
2,4-Dichlorophenol	U	U	10
2,4,6-Trichlorophenol	U	U	10
Pentachlorophenol	U	U	10
2,4-Dinitrophenol	U	U	36
4,6-Dinitro-2-methylphenol	U	U	10
4-Nitrophenol	U	U	10
4-Chloro-3-methylphenol	U	U	10

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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MEG

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
DECEMBER 20, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Lab Number: 225657
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: Composite
Sample date: 12/07/95
Sampled by: Customer
At lab date: 12/07/95
Matrix: WATER

Data File: >I7809

Extracted Date: 12/12/95
Analysis Date: 12/19/95

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	10
bis(2-Chloroethyl)ether	U	U	10
1,3-Dichlorobenzene	U	U	24
1,4-Dichlorobenzene	U	U	23
1,2-Dichlorobenzene	U	U	24
bis(2-Chloroisopropyl)ether	U	U	12
N-Nitroso-di-n-propylamine	U	U	18
Hexachloroethane	U	U	29
Nitrobenzene	U	U	10
Isophorone	U	U	10
bis(2-Chloroethoxy)methane	U	U	10
1,2,4-Trichlorobenzene	U	U	23
Naphthalene	U	U	20
Hexachlorobutadiene	U	U	10
Hexachlorocyclopentadiene	U	U	15
2-Chloronaphthalene	U	U	20
Dimethyl phthalate	U	U	46
Acenaphthylene	U	U	15
2,6-Dinitrotoluene	U	U	10
Acenaphthene	U	U	19
2,4-Dinitrotoluene	U	U	10
Diethyl phthalate	U	U	23
4-Chlorophenyl phenyl ether	U	U	20
Fluorene	U	U	17
N-Nitrosodiphenylamine	U	U	10
1,2-Diphenylhydrazine (Azobenzene)	U	U	10
4-Bromophenyl phenyl ether	U	U	19
Hexachlorobenzene	U	U	19
Phenanthrene	U	U	9
Anthracene	U	U	8
Di-n-butylphthalate	U	U	25
Fluoranthene	U	U	6
Benzidine	U	U	10
Pyrene	U	U	5
Butyl benzylphthalate	U	U	12
3,3'-Dichlorobenzidine	U	U	10
Benzo(a)anthracene	U	U	5
Chrysene	U	U	5
bis(2-Ethylhexyl)phthalate	U	U	30
Di-n-octylphthalate	U	U	10
Benzo(b)fluoranthene	U	U	7

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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MEG

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
DECEMBER 20, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Lab Number: 225657
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: Composite
Sample date: 12/07/95
Sampled by: Customer
At lab date: 12/07/95
Matrix: WATER

Data File: >I7809

Extracted Date: 12/12/95
Analysis Date: 12/19/95

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Benzo(k)fluoranthene	U	U	7
Benzo(a)pyrene	U	U	5
Indeno(1,2,3-cd)pyrene	U	U	11
Dibenz(a,h)anthracene	U	U	5
Benzo(g,h,i)perylene	U	U	5

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
DECEMBER 26, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 225657
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: Composite
Sample date: 12/07/95
Sampled by: Customer
At lab date: 12/07/95
Matrix: WATER

Percent Moisture: 100 %

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Lead	0.007	U	0.004	12/22/95
Zinc	0.185	U	0.020	12/22/95

U = Not Detected

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Richard Levine, President

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TRA

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Monthly Discharge 001
Sample Date: 12/07/95
Sampled by: Customer
At Lab Date: 12/07/95
Sample Matrix: Aqueous

Lab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
25656	Grab	3.9	U	0.54	12/13/95	12/12/95

U = Not detected

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Richard Levine, President

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GEE

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330, FAX: 201-584-0515
DECEMBER 19, 1995

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY ANALYSIS

All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 225656
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Monthly Discharge 001
Sample ID: Grab
Sample matrix: LIQUID (AQUEOUS)
Sample date: 12/07/95
Sampled by: Customer
At lab date: 12/07/95

ARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT	ANALYSIS DATE
yanide, Total	0.012	U	0.010	12/11/95

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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Richard Levine, President

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BON

ATTACHMENT B

MR-2 FORMS FOR :

DISCHARGE POINT 001, 002, 003 & 004

USER CHARGE SELF MONITORING REPORT

NAME Givaudan Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION SAME AS ABOVE

OUTLET DESIGNATION (17 DIGITS) 0340-1021-04626-0451

MONITORING PERIOD					
12	01	95	12	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
4,982,000 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 345476(000)

DATE	BOD 0310	TSS 0530	TDS-COD	DATE	BOD 0310	TSS 0530	TDS-COD
12/1	5736	37		12/17	7117	45	
12/2	3240	11		12/18	5646	49	
12/3	5946	12		12/19	5255	34	
12/4	5195	23		12/20	2018	38	8376-3500
12/5	3461	21		12/21	3862	22	
12/6	7087	48	16699-9847	12/22	4985	40	
12/7	4072	19		12/23	3433	24	
12/8	8438	42		12/24	2521	89	
12/9	7928	57		12/25	697	40	
12/10	*	*		12/26	326	23	
12/11	3970	46		12/27	179	36	
12/12	6757	34		12/28	163	27	
12/13	8529	43	12584-8806	12/29	157	8	
12/14	5976	38		12/30	31	6	
12/15	9159	46		12/31	30	14	
12/16	6547	35		* No Sample Taken - Power Out			

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
	William L. Orton	(201) 365-~~8595~~ 8352
	Senior VP / Operations	DATE 1/19/96

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 174 Delawanna Avenue - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1022-04626-0451

MONITORING PERIOD					
12	01	95	12	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
77,020 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 1632148(0)

DATE	BOD 0310	TSS 0530		DATE	BOD 0310	TSS 0530	
12/6	217	20					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
	William L. Orton	8352
	William L. Orton	(201) 365-~~8595~~
	Senior VP / Operations	DATE 1/19/96

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 2 Peekay Drive - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1023-04626-0451

MONITORING PERIOD					
12	01	95	12	31	95
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
1,456,820 GALS*
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 282417(0)*

*FLOW FOR #4 ESTIMATED
FLOW FOR #3 METER READING
VOL. DISCHARGED TOTAL FOR #3 AND #4

DATE	BOD 0310	TSS 0530	COD	DATE	BOD 0310	TSS 0530	

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
	William L. Orton	8352
	William L. Orton	(201) 365-~~8595~~
	Senior VP / Operations	DATE 1/19/96

PVSC FORM MR-2 REV.2. 1/86

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 001 **Date of Sample :** December 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : 4,982,000 gals. Average Flow : 160,710 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	COD (mg/L)
12/1/95	5736	37		
12/2/95	3240	11		
12/3/95	5946	12		
12/4/95	5195	23		
12/5/95	3461	21		
12/6/95	7087	48	16699	9847
12/7/95	4072	19		
12/8/95	8438	42		
12/9/95	7928	57		
12/10/95	*	*		
12/11/95	3970	46		
12/12/95	6757	34		
12/13/95	8529	43	12584	8806
12/14/95	5976	38		
12/15/95	9159	46		
12/16/95	6547	35		
12/17/95	7117	45		
12/18/95	5646	49		
12/19/95	5255	34		
12/20/95	2018	38	8376	3500
12/21/95	3862	22		
12/22/95	4985	40		
12/23/95	3433	24		
12/24/95	2521	89		
12/25/95	697	40		
12/26/95	326	23		
12/27/95	179	36		
12/28/95	163	27		
12/29/95	157	8		
12/30/95	31	6		
12/31/95	30	14		

* No sample taken - power shutdown

Patricia Hopkins
Laboratory Supervisor

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 002 **Date of Sample :** December 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : NA Average Flow : NA

Sampling Date	BOD (mg/L)	TSS (mg/L)
12/6/95	217	20

Patricia Hopkins
Laboratory Supervisor

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 001 **Date of Sample :** December 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : 4,982,000 gals. Average Flow : 160,710 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	COD (mg/L)
12/1/95	5736	37		
12/2/95	3240	11		
12/3/95	5946	12		
12/4/95	5195	23		
12/5/95	3461	21		
12/6/95	7087	48	16699	9847
12/7/95	4072	19		
12/8/95	8438	42		
12/9/95	7928	57		
12/10/95	*	*		
12/11/95	3970	46		
12/12/95	6757	34		
12/13/95	8529	43	12584	8806
12/14/95	5976	38		
12/15/95	9159	46		
12/16/95	6547	35		
12/17/95	7117	45		
12/18/95	5646	49		
12/19/95	5255	34		
12/20/95	2018	38	8376	3500
12/21/95	3862	22		
12/22/95	4985	40		
12/23/95	3433	24		
12/24/95	2521	89		
12/25/95	697	40		
12/26/95	326	23		
12/27/95	179	36		
12/28/95	163	27		
12/29/95	157	8		
12/30/95	31	6		
12/31/95	30	14		

* No sample taken - power shutdown

Patricia Hopkins
Laboratory Supervisor

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 002 **Date of Sample :** December 1995

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : NA Average Flow : NA

Sampling Date	BOD (mg/L)	TSS (mg/L)
12/6/95	217	20

Patricia Hopkins
Laboratory Supervisor

01-96

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 FAX 201-365-0711

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 001 **Date of Sample :** January 1996

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : 6,514,000 gals. Average Flow : 210,129 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	COD (mg/L)
1/1/96	46	8		
1/2/96	94	15		
1/3/96	102	23	989	258
1/4/96	121	59		
1/5/96	3437	39		
1/6/96	7688	23		
1/7/96	6216	28		
1/8/96	2844	6		
1/9/96	1468	10		
1/10/96	3617	24	6739	5237
1/11/96	5405	13		
1/12/96	4895	16		
1/13/96	5736	25		
1/14/96	3850	19		
1/15/96	1687	15		
1/16/96	3623	20		
1/17/96	3467	25	16336	7157
1/18/96	5375	16		
1/19/96	5646	27		
1/20/96	3012	21		
1/21/96	3222	24		
1/22/96	1967	60		
1/23/96	5465	23		
1/24/96	5345	24	12950	8373
1/25/96	3856	17		
1/26/96	3952	16		
1/27/96	3737	36		
1/28/96	1774	139		
1/29/96	1494	39		
1/30/96	3012	24		
1/31/96	3257	21	10138	6001

Patricia Hopkins
Laboratory Supervisor

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 FAX 201-365-0711

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 002 **Date of Sample :** January 1996

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : NA Average Flow : NA

Sampling Date	BOD (mg/L)	TSS (mg/L)
1/12/96	182	41

Patricia Hopkins
Laboratory Supervisor

GIVAUDAN-ROURE

If you have any questions regarding the above matter, please call Ms. Patricia Hopkins at (201) 365-8507 or Mr. Joseph Zgurzynski at (201)365-8566.

Sincerely,

GIVAUDAN-ROURE CORPORATION

W. L. Orton
Sr. Vice President - Operations

WLO:cj

Encl.
H:\slaby\permt-mr.fe6

bcc:

A. Soos (Cover letter only)
J. Christensen " " "
L. Deraney " " "
A. Aroneanu " " "
P. Gross " " "
R. Saus " " "
J. Lopez " " "
G. Ferrara " " " (E.H.)
R. Tavares " " "

P. Hopkins Complete copy
J. Zgurzynski " "
F. Slaby " "

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
01	01	96	01	31	96
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	71,400	117,600
Total Flow-gal/day	210,100	346,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days 31

N/A ***Flow on Sample date 1/17-1/18 - 290,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Benzene	Sample measurement	< 0.00121	< 0.00121	# / day	1	Grab
	Permit requirement	0.27421	0.64463	# / day	1	
Carbon Tetrachloride	Sample measurement	< 0.00145	< 0.00145	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Chlorobenzene	Sample measurement	< 0.00145	< 0.00145	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
1,2,4-Trichloro-benzene	Sample measurement	< 0.05563	< 0.05563	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
Hexachlorobenzene	Sample measurement	< 0.04595	< 0.04595	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,2-Dichloroethane	Sample measurement	< 0.00484	< 0.00484	# / day	1	Grab
	Permit requirement	0.86568	2.76056	# / day	1	
1,1,1-Trichloro-ethane	Sample measurement	< 0.00121	< 0.00121	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	
Hexachloroethane	Sample measurement	< 0.07014	< 0.07014	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,1-Dichloroethane	Sample measurement	< 0.00242	< 0.00242	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	

DURING THIS MONITORING PERIOD NO CHANGE HAS BEEN MADE TO THE PLOT PLAN SUBMITTED TO PVSC ON 12/18/95

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
01	01	96	01	31	96
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	71,400	117,600
Total Flow-gal/day	210,100	346,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N/A ***Flow on Sample date 1/17-1/18 - 290,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,1,2-Trichloro-ethane	Sample measurement	< 0.00121	< 0.00121	# / day	1	Grab
	Permit requirement	0.15390	0.61079	# / day	1	
Chloroethane	Sample measurement	< 0.00484	< 0.00484	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Chloroform	Sample measurement	0.02177	0.02177	# / day	1	Grab
	Permit requirement	0.53384	1.56304	# / day	1	
1,2-Dichloro-benzene	Sample measurement	< 0.05805	< 0.05805	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,3-Dichloro-benzene	Sample measurement	< 0.05805	< 0.05805	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,4-Dichloro-benzene	Sample measurement	< 0.05563	< 0.05563	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,1-Dichloro-ethylene	Sample measurement	< 0.00484	< 0.00484	# / day	1	Grab
	Permit requirement	0.10581	0.28856	# / day	1	
1,2-Trans-Dichloroethylene	Sample measurement	< 0.00484	< 0.00484	# / day	1	Grab
	Permit requirement	0.12023	0.31742	# / day	1	
1,2-Dichloro-propane	Sample measurement	< 0.00145	< 0.00145	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	

DURING THIS MONITORING PERIOD NO CHANGE HAS BEEN MADE TO THE PLOT PLAN SUBMITTED TO PVSC ON 12/18/95

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
01	01	96	01	31	96
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	71,400	117,600
Total Flow-gal/day	210,100	346,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N/A ***Flow on Sample date 1/17-1/18 - 290,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3-Dichloro-propylene	Sample measurement	< 0.00121	< 0.00121	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	
Ethylbenzene	Sample measurement	< 0.00169	< 0.00169	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Methylene Chloride	Sample measurement	< 0.00242	< 0.00242	# / day	1	Grab
	Permit requirement	0.17314	0.81759	# / day	1	
Methyl Chloride	Sample measurement	< 0.01209	< 0.01209	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Hexachloro-butadiene	Sample measurement	< 0.02419	< 0.02419	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
Nitrobenzene	Sample measurement	< 0.02419	< 0.02419	# / day	1	Comp.
	Permit requirement	10.75850	30.78942	# / day	1	
2-Nitrophenol	Sample measurement	< 0.02419	< 0.02419	# / day	1	Comp.
	Permit requirement	0.31261	1.11096	# / day	1	
4-Nitrophenol	Sample measurement	< 0.02419	< 0.02419	# / day	1	Comp.
	Permit requirement	0.77911	2.77018	# / day	1	
4,6-Dinitro-o-Cresol	Sample measurement	< 0.02419	< 0.02419	# / day	1	Comp.
	Permit requirement	0.37513	1.33219	# / day	1	

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DURING THIS MONITORING PERIOD NO CHANGE HAS BEEN MADE TO THE PLOT PLAN SUBMITTED TO PVSC ON 12/18/95

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
01	01	96	01	31	96
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	71,400	117,600
Total Flow-gal/day	210,100	346,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 31

N / A ***Flow on Sample date 1/7-1/8 - 290,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Tetrachloro-ethylene	Sample measurement	< 0.00169	< 0.00169	# / day	1	Grab
	Permit requirement	0.250009	0.78873	# / day	1	
Toluene	Sample measurement	1.40279	1.40729	# / day	1	Grab
	Permit requirement	0.13466	0.35589	# / day	1	
Trichloro-ethylene	Sample measurement	< 0.00145	< 0.00145	# / day	1	Grab
	Permit requirement	0.12504	0.33184	# / day	1	
Vinyl Chloride	Sample measurement	< 0.00484	< 0.00484	# / day	1	Grab
	Permit requirement	0.46651	0.82721	# / day	1	
Total Cyanide	Sample measurement	< 0.02419	< 0.02419	# / day	1	Grab
	Permit requirement	2.01992	5.77121	# / day	1	
Total Lead	Sample measurement	0.01693	0.01693	# / day	1	Comp.
	Permit requirement	1.53899	3.31845	# / day	1	
Total Zinc	Sample measurement	0.37005	0.37005	# / day	1	Comp.
	Permit requirement	5.04981	12.55239	# / day	1	
Petroleum Hydrocarbons	Sample measurement	2.4	2.4	mg / L	1	Grab
	Permit requirement		100	mg / L	1	
	Sample measurement					
	Permit requirement					

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DURING THIS MONITORING PERIOD NO CHANGE HAS BEEN MADE TO THE PLOT PLAN SUBMITTED TO PVSC ON 12/18/95

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

Not Applicable

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

SEE ATTACHMENT 1

Explain Method for preserving samples

The laboratory preservation methods and holding times were performed in accordance with EPA/NJDEPE approved procedures and methodologies.

*** SEE ATTACHMENT 2 FOR SPECIFIC PRESERVATION METHODOLOGIES. ***

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

William L. Orton 2/20/96

Signature of Principal Executive or Authorized Agent

William L. Orton

Senior Vice President / Operations

Type Name and Title

2/20/96

Date

PVSC Form MR-1 Rev. 5 3/91 P2

Attachment 1

Outfall 001

Compliance statement

During the month of January, 1996 Givaudan-Roure's test readings were within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H and other regulatory agency limitations except for toluene.

The official sample collected on January 18, 1996 indicates a concentration of 580 μg/l of toluene.

a) The respective average and maximum mass limits for toluene are 0.13466 lbs/day and 0.35589 lbs/day. The mass value for toluene on January 18, 1996 was 1.40279 lbs/day. This calculated value exceeded the average mass limit for toluene by 1.26813 lbs/day and the maximum mass limit by 1.04690 lbs/day. The toluene issue is addressed in a consent order entered into with the PVSC.

The most reasonable explanation for the toluene is contamination of the non-regulated stream due to an unkown source. It is possible that Building 72 laboratories may have accidently discharged a small quantity of toluene. The laboratories were preparing for a move out of Building 72 which is scheduled for demolition.

A very heavy rainfall and snow melt on January 19 caused a brief overflow in the first neutralization flash mix pit which went directly into the Bldg. 74 sump, upstream of Outfall 001. The estimated flow and time were 18,000 gallons in 100 minutes. All permit effluent limitations were in compliance during the incident.

Attachment 2

PRESERVATION METHODOLOGIES

Volatile Organics Samples :
Cool to 4°C in an ice chest.

Total Cyanide Samples :
Preserve sample with 10 N NaOH to a pH of greater than 12. After preserving the sample, cool to 4°C in an ice chest.

Total Lead and Total Zinc Samples :
Acidify sample with Conc. HNO_3 to a pH of 2 or less.

Acid / Base Neutrals Extractables Samples :
Approximately 80 mg/l sodium thiosulfate is added to the bottle(s) in the laboratory prior to being brought into the field. After collection, the sample is cooled to 4°C in an ice chest.

Petroleum Hydrocarbon Samples :
Preserve sample with conc. H_2SO_4 or HCl to a pH of less than 2 and cool to 4°C in an ice chest.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
JANUARY 29, 1996

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

VOLATILE ORGANIC ANALYSIS BY GC/MS

Lab Number: 227460
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Grab
Sample date: 01/18/96
Sampled by: Customer
At lab date: 01/18/96
Matrix: WATER

Data File: >C2271

Analysis Date: 01/24/96
01/24/96

Dilution Factor: 1

Init Sample vol= 5ml

Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	5
Bromomethane	U	U	4
Vinyl chloride	U	U	2
Chloroethane	U	U	2
Methylene chloride	1J*	U	3
Trichlorofluoromethane	U	U	2
1,1-Dichloroethene	U	U	2
1,1-Dichloroethane	U	U	1
trans-1,2-Dichloroethene	U	U	2
Chloroform	9	U	2
1,2-Dichloroethane	U	U	2
1,1,1-Trichloroethane	U	U	0.5
Carbon tetrachloride	U	U	0.6
Bromodichloromethane	2	U	0.6
1,2-Dichloropropane	U	U	0.6
cis-1,3-Dichloropropene	U	U	0.5
2-Chloroethyl vinyl ether	U	U	0.6
Trichloroethene	U	U	0.6
Dibromochloromethane	U	U	0.6
1,1,2-Trichloroethane	U	U	0.5
Benzene	U	U	0.5
trans-1,3-Dichloropropene	U	U	0.6
Bromoform	U	U	0.8
Tetrachloroethene	U	U	0.7
1,1,2,2-Tetrachloroethane	U	U	0.5
Toluene	580	U	0.8
Chlorobenzene	U	U	0.6
Ethylbenzene	U	U	0.7
p&m-Xylene	U	U	0.9
o-Xylene	U	U	0.9
total Xylenes	U	U	0.9
1,3-Dichlorobenzene	U	U	0.7
1,2-Dichlorobenzene	U	U	0.5
1,4-Dichlorobenzene	U	U	2

* This compound is not flagged with B since it was not found in the corresponding method blank. However, this compound is commonly found as a laboratory contaminant.

The total Xylenes result includes the sum of p&m-Xylene and o-Xylene.

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

ND: Not Determined.

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MEG

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330, FAX: 201-584-0515

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Monthly Discharge 001
Sample Date: 01/18/96
Sampled by: Customer
At Lab Date: 01/18/96
Sample Matrix: WATER

Lab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
227460	DSN 001 Grab	2.4	U	0.55	01/19/96	01/19/96

U = Not detected

INDUSTRIAL CORROSION MANAGEMENT, INC.
Richard Levine, President

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All rights reserved.
GEE

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330, FAX: 201-584-0515
JANUARY 30, 1996

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 227460
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Monthly Discharge 001
Sample ID: DSN 001 Grab
Sample matrix: LIQUID (AQUEOUS)
Sample date: 01/18/96
Sampled by: Customer
At lab date: 01/18/96

PARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT	ANALYSIS DATE
Cyanide, Total	U	U	0.010	01/26/96

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Richard Levine, President

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ROB

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
JANUARY 29, 1996

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Lab Number: 227461
Data File: >I8029
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Composite
Sample date: 01/18/96
Extracted Date: 01/19/96
Sampled by: Customer
Analysis Date: 01/27/96
Column: 30m SPB-5
At lab date: 01/18/96
Dilution Factor: 10
Matrix: WATER

Init Sample vol= 1000ml
Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	10
2-Nitrophenol	U	U	10
Phenol	U	U	18
2,4-Dimethylphenol	U	U	10
2,4-Dichlorophenol	U	U	10
2,4,6-Trichlorophenol	U	U	10
Pentachlorophenol	U	U	10
2,4-Dinitrophenol	U	U	36
4,6-Dinitro-2-methylphenol	U	U	10
4-Nitrophenol	U	U	10
4-Chloro-3-methylphenol	U	U	10

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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MEG

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
JANUARY 29, 1996

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Lab Number: 227461
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Composite
Sample date: 01/18/96
Sampled by: Customer
At lab date: 01/18/96
Matrix: WATER

Data File: >I8029

Extracted Date: 01/19/96
Analysis Date: 01/27/96

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	10
bis(2-Chloroethyl)ether	U	U	10
1,3-Dichlorobenzene	U	U	24
1,4-Dichlorobenzene	U	U	23
1,2-Dichlorobenzene	U	U	24
bis(2-Chloroisopropyl)ether	U	U	12
N-Nitroso-di-n-propylamine	U	U	18
Hexachloroethane	U	U	29
Nitrobenzene	U	U	10
Isophorone	U	U	10
bis(2-Chloroethoxy)methane	U	U	10
1,2,4-Trichlorobenzene	U	U	23
Naphthalene	U	U	20
Hexachlorobutadiene	U	U	10
Hexachlorocyclopentadiene	U	U	15
2-Chloronaphthalene	U	U	20
Dimethyl phthalate	U	U	46
Acenaphthylene	U	U	15
2,6-Dinitrotoluene	U	U	10
Acenaphthene	U	U	19
2,4-Dinitrotoluene	U	U	10
Diethyl phthalate	U	U	23
4-Chlorophenyl phenyl ether	U	U	20
Fluorene	U	U	17
N-Nitrosodiphenylamine	U	U	10
1,2-Diphenylhydrazine (Azobenzene)	U	U	10
4-Bromophenyl phenyl ether	U	U	19
Hexachlorobenzene	U	U	19
Phenanthrene	U	U	9
Anthracene	U	U	8
Di-n-butylphthalate	U	U	25
Fluoranthene	U	U	6
Benzidine	U	U	10
Pyrene	U	U	5
Butyl benzylphthalate	U	U	12
3,3'-Dichlorobenzidine	U	U	10
Benzo(a)anthracene	U	U	5
Chrysene	U	U	5
bis(2-Ethylhexyl)phthalate	U	U	30
Di-n-octylphthalate	U	U	10
Benzo(b)fluoranthene	U	U	7

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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MEG

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
JANUARY 29, 1996

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Lab Number: 227461
Data File: >I8029
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Composite
Sample date: 01/18/96
Extracted Date: 01/19/96
Sampled by: Customer
Analysis Date: 01/27/96
Column: 30m SPB-5
At lab date: 01/18/96
Dilution Factor: 10
Matrix: WATER
Init Sample vol= 1000ml
Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Benzo(k)fluoranthene	U	U	7
Benzo(a)pyrene	U	U	5
Indeno(1,2,3-cd)pyrene	U	U	11
Dibenz(a,h)anthracene	U	U	5
Benzo(g,h,i)perylene	U	U	5

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
JANUARY 30, 1996

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 227461
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: DSN 001 Composite
Sample date: 01/18/96
Sampled by: Customer
At lab date: 01/18/96
Matrix: WATER

Percent Moisture: 100 %

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Lead	0.007	U	0.004	01/26/96
Zinc	0.153	U	0.020	01/26/96

U = Not Detected

INDUSTRIAL CORROSION MANAGEMENT, INC.
Richard Levine, President

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OTE

ATTACHMENT B

MR-2 FORMS FOR :

DISCHARGE POINT 001, 002, 003 & 004

USER CHARGE SELF MONITORING REPORT

NAME Givaudan Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION SAME AS ABOVE

OUTLET DESIGNATION (17 DIGITS) 0340-1021-04626-0451

MONITORING PERIOD					
01	01	96	01	31	96
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
6,514,000 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 351990(000)

DATE	BOD 0310	TSS 0530	TDS-COD	DATE	BOD 0310	TSS 0530	TDS-COD
1/1	46	8		1/17	3467	25	16336-7157
1/2	94	15		1/18	5375	16	
1/3	102	23	989-258	1/19	5646	27	
1/4	121	59		1/20	3012	21	
1/5	3437	39		1/21	3222	24	
1/6	7688	23		1/22	1967	60	
1/7	6216	28		1/23	5465	23	
1/8	2844	6		1/24	5345	24	12950-8373
1/9	1468	10		1/25	3856	17	
1/10	3617	24	6739-5237	1/26	3952	16	
1/11	5405	13		1/27	3737	36	
1/12	4895	16		1/28	1774	139	
1/13	5736	25		1/29	1494	39	
1/14	3850	19		1/30	3012	24	
1/15	1687	15		1/31	3257	21	10138-6001
1/16	3623	20					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
William L. Orton	William L. Orton	(201) 365-8352
	Senior VP / Operations	DATE 2/20/94

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 174 Delawanna Avenue - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1022-04626-0451

MONITORING PERIOD					
01	01	96	01	31	96
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
37,820 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 1635930(0)

DATE	BOD 0310	TSS 0530		DATE	BOD 0310	TSS 0530	
1/12	182	41					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
	William L. Orton	(201) 365-8352
	Senior VP / Operations	DATE 2/29/96

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 2 Peekay Drive - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1023-04626-0451

MONITORING PERIOD					
01	01	96	01	31	96
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
1,499,510 GALS*
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 430093(0)*

*FLOW FOR #4 ESTIMATED
FLOW FOR #3 METER READING
VOL. DISCHARGED TOTAL FOR #3 AND #4

DATE	BOD 0310	TSS 0530	COD	DATE	BOD 0310	TSS 0530	

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
	William L. Orton	(201) 365-8352
	Senior VP / Operations	DATE 2/20/96

PVSC FORM MR-2 REV.2. 1/86

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 001 **Date of Sample :** January 1996

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : 6,514,000 gals. Average Flow : 210,129 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	COD (mg/L)
1/1/96	46	8		
1/2/96	94	15		
1/3/96	102	23	989	258
1/4/96	121	59		
1/5/96	3437	39		
1/6/96	7688	23		
1/7/96	6216	28		
1/8/96	2844	6		
1/9/96	1468	10		
1/10/96	3617	24	6739	5237
1/11/96	5405	13		
1/12/96	4895	16		
1/13/96	5736	25		
1/14/96	3850	19		
1/15/96	1687	15		
1/16/96	3623	20		
1/17/96	3467	25	16336	7157
1/18/96	5375	16		
1/19/96	5646	27		
1/20/96	3012	21		
1/21/96	3222	24		
1/22/96	1967	60		
1/23/96	5465	23		
1/24/96	5345	24	12950	8373
1/25/96	3856	17		
1/26/96	3952	16		
1/27/96	3737	36		
1/28/96	1774	139		
1/29/96	1494	39		
1/30/96	3012	24		
1/31/96	3257	21	10138	6001

Patricia Hopkins
Laboratory Supervisor

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 002 **Date of Sample :** January 1996

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : NA Average Flow : NA

Sampling Date	BOD (mg/L)	TSS (mg/L)
1/12/96	182	41

Patricia Hopkins
Laboratory Supervisor

If you have any questions regarding the above matter, please call Ms. Patricia Hopkins at (201) 365-8507 or Mr. Joseph Zgurzynski at (201)365-8566.

Sincerely,

GIVAUDAN-ROURE CORPORATION

W. L. Orton
Sr. Vice President - Operations

WLO:cj

Encl.
H:\slaby\permt-mr.fe6

bcc:

A. Soos (Cover letter only)
J. Christensen " " "
L. Deraney " " "
A. Aroneanu " " "
P. Gross " " "
R. Saus " " "
J. Lopez " " "
G. Ferrara " " " (E.H.)
R. Tavares " " "

P. Hopkins Complete copy
J. Zgurzynski " "
F. Slaby " "

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

02-96

201-365-8000 FAX 201-365-0711

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 001 **Date of Sample :** February 1996

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : 6,910,000 gals. Average Flow : 238,276 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	COD (mg/L)
2/1/96	4024	15		
2/2/96	3958	18		
2/3/96	4156	555		
2/4/96	3826	43		
2/5/96	3749	21		
2/6/96	5526	26		
2/7/96	6697	18	12191	9187
2/8/96	3317	13		
2/9/96	3425	24		
2/10/96	3425	61		
2/11/96	4808	111		
2/12/96	2683	66		
2/13/96	3431	77		
2/14/96	5495	44	8658	6437
2/15/96	4078	35		
2/16/96	6276	45		
2/17/96	3004	41		
2/18/96	3323	54		
2/19/96	1624	37		
2/20/96	3012	51		
2/21/96	3940	93	7277	4477
2/22/96	6186	44		
2/23/96	5225	55		
2/24/96	6426	84		
2/25/96	3383	98		
2/26/96	2760	98		
2/27/96	6456	56		
2/28/96	6697	76	10394	7976
2/29/96	3305	56		

Patricia Hopkins
Laboratory Supervisor

MAR 1996
RECEIVED
INDUSTRIAL
DEPARTMENT

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 FAX 201-365-0711

Project Description : Quarterly Sampling

Sample ID : Discharge Point I-01 **Date of Sample :** February 1996

Time of Sample : Grab

Sampling Date	pH (S.U.)
2/7/96	6.81

Patricia Hopkins
Laboratory Supervisor

GSM

130 7640

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
02	01	96	02	29	96
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	81,000	102,000
Total Flow-gal/day	238,300	300,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days 29

N/A ***Flow on Sample date 2/7-2/8 - 229,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Benzene	Sample measurement	< 0.00095	< 0.00095	# / day	1	Grab
	Permit requirement	0.27421	0.64463	# / day	1	
Carbon Tetrachloride	Sample measurement	< 0.00115	< 0.00115	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Chlorobenzene	Sample measurement	< 0.00115	< 0.00115	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
1,2,4-Trichloro-benzene	Sample measurement	< 0.04393	< 0.04393	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
Hexachlorobenzene	Sample measurement	< 0.03629	< 0.03629	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,2-Dichloroethane	Sample measurement	0.00382	0.00382	# / day	1	Grab
	Permit requirement	0.86568	2.76056	# / day	1	
1,1,1-Trichloro-ethane	Sample measurement	< 0.00095	< 0.00095	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	
Hexachloroethane	Sample measurement	< 0.05539	< 0.05539	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day		
1,1-Dichloroethane	Sample measurement	< 0.00191	< 0.00191	# / day	1	Grab
	Permit requirement	0.10581	0.28375	# / day	1	

MAR 1996 REC INDUSTRIAL DEPARTMENT

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
02	01	96	02	29	96
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	81,000	102,000
Total Flow-gal/day	238,300	300,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 29

N / A ***Flow on Sample date 2/7-2/8 - 229,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,1,2-Trichloro-ethane	Sample measurement	< 0.00095	< 0.00095	# / day	1	Grab
	Permit requirement	0.15390	0.61079	# / day	1	
Chloroethane	Sample measurement	< 0.00382	< 0.00382	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Chloroform	Sample measurement	0.01146	0.01146	# / day	1	Grab
	Permit requirement	0.53384	1.56304	# / day	1	
1,2-Dichloro-benzene	Sample measurement	< 0.04584	< 0.04584	# / day	1	Comp.
	Permit requirement	0.94263	3.81862	# / day	1	
1,3-Dichloro-benzene	Sample measurement	< 0.04584	< 0.04584	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,4-Dichloro-benzene	Sample measurement	< 0.04393	< 0.04393	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
1,1-Dichloro-ethylene	Sample measurement	< 0.00382	< 0.00382	# / day	1	Grab
	Permit requirement	0.10581	0.28856	# / day	1	
1,2-Trans-Dichloroethylene	Sample measurement	< 0.00382	< 0.00382	# / day	1	Grab
	Permit requirement	0.12023	0.31742	# / day	1	
1,2-Dichloro-propane	Sample measurement	< 0.00115	< 0.00115	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
02	01	96	02	29	96
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	81,000	102,000
Total Flow-gal/day	238,300	300,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 29

N / A ***Flow on Sample date 2/7-2/8 - 229,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3-Dichloro-propylene	Sample measurement	< 0.00115	< 0.00115	# / day	1	Grab
	Permit requirement	0.94263	3.81862	# / day	1	
Ethylbenzene	Sample measurement	< 0.00134	< 0.00134	# / day	1	Grab
	Permit requirement	0.68293	1.82755	# / day	1	
Methylene Chloride	Sample measurement	0.00955	0.00955	# / day	1	Grab
	Permit requirement	0.17314	0.81759	# / day	1	
Methyl Chloride	Sample measurement	< 0.00955	< 0.00955	# / day	1	Grab
	Permit requirement	0.52903	1.41876	# / day	1	
Hexachloro-butadiene	Sample measurement	< 0.0191	< 0.0191	# / day	1	Comp.
	Permit requirement	0.68293	1.82755	# / day	1	
Nitrobenzene	Sample measurement	< 0.0191	< 0.0191	# / day	1	Comp.
	Permit requirement	10.75850	30.78942	# / day	1	
2-Nitrophenol	Sample measurement	< 0.0191	< 0.0191	# / day	1	Comp.
	Permit requirement	0.31261	1.11096	# / day	1	
4-Nitrophenol	Sample measurement	< 0.0191	< 0.0191	# / day	1	Comp.
	Permit requirement	0.77911	2.77018	# / day	1	
4,6-Dinitro-o-Cresol	Sample measurement	< 0.0191	< 0.0191	# / day	1	Comp.
	Permit requirement	0.37513	1.33219	# / day	1	

MAR 1996 RECEIVED INDUSTRIAL DEPARTMENT

PRETREATMENT MONITORING REPORT

Name GIVAUDAN - ROURE CORPORATION

Mailing Address 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Facility Location 125 Delawanna Avenue - Clifton, N.J. 07015-5034

Category & Subpart 40 CFR 414.85 Subpart H **Outlet #** 03401021-04626-0451

Contact Official Andrew Soos **Telephone #** (201) 365-8486

Monitoring Period					
02	01	96	02	29	96
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	81,000	102,000
Total Flow-gal/day	238,300	300,000

Method used Flow meters & estimated flows

Production rate (if applicable) No. of Working Days - 29

N/A ***Flow on Sample date 2/7-2/8 - 229,000 GPD**

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
Tetrachloro-ethylene	Sample measurement	< 0.00134	< 0.00134	# / day	1	Grab
	Permit requirement	0.250009	0.78873	# / day	1	
Toluene	Sample measurement	0.0382	0.0382	# / day	1	Grab
	Permit requirement	0.13466	0.35589	# / day	1	
Trichloro-ethylene	Sample measurement	< 0.00115	< 0.00115	# / day	1	Grab
	Permit requirement	0.12504	0.33184	# / day	1	
Vinyl Chloride	Sample measurement	< 0.00382	< 0.00382	# / day	1	Grab
	Permit requirement	0.46651	0.82721	# / day	1	
Total Cyanide	Sample measurement	< 0.0191	< 0.0191	# / day	1	Grab
	Permit requirement	2.01992	5.77121	# / day	1	
Total Lead	Sample measurement	0.03247	0.03247	# / day	1	Comp.
	Permit requirement	1.53899	3.31845	# / day	1	
Total Zinc	Sample measurement	0.30367	0.30367	# / day	1	Comp.
	Permit requirement	5.04981	12.55239	# / day	1	
Petroleum Hydrocarbons	Sample measurement	21	21	mg / L	1	Grab
	Permit requirement		100	mg / L	1	
	Sample measurement					
	Permit requirement					

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

Not Applicable

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

SEE ATTACHMENT 1

Explain Method for preserving samples

The laboratory preservation methods and holding times were performed in accordance with EPA/NJDEPE approved procedures and methodologies.

*** SEE ATTACHMENT 2 FOR SPECIFIC PRESERVATION METHODOLOGIES. ***

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Signature of Principal Executive or Authorized Agent

William L. Orton

Senior Vice President / Operations

Type Name and Title

Date

Attachment 1

Outfall 001

Compliance statement

During the month of February, 1996 Givaudan-Roure's test readings were within all OCPSF category permit effluent limitations expressed in 40 CFR 414.85 Subpart H.

There was a brief (5 minute) low pH reading on February 5, 1996. PVSC was notified by telephone at the time and by letter to Mr. Andrew Caltagrione, dated February 9, 1996 in which the incident was explained in detail.

Attachment 2

PRESERVATION METHODOLOGIES

Volatile Organics Samples :
Cool to 4°C in an ice chest.

Total Cyanide Samples :
Preserve sample with 10 N NaOH to a pH of greater than 12. After preserving the sample, cool to 4°C in an ice chest.

Total Lead and Total Zinc Samples :
Acidify sample with Conc. HNO_3 to a pH of 2 or less.

Acid / Base Neutrals Extractables Samples :
Approximately 80 mg/l sodium thiosulfate is added to the bottle(s) in the laboratory prior to being brought into the field. After collection, the sample is cooled to 4°C in an ice chest.

Petroleum Hydrocarbon Samples :
Preserve sample with conc. H_2SO_4 or HCl to a pH of less than 2 and cool to 4°C in an ice chest.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 22, 1996

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT ACID FRACTION ANALYSIS BY GC/MS

Lab Number: 228723
Data File: >F4472
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: 001 Composite
Sample date: 02/08/96
Extracted Date: 02/13/96
Sampled by: Customer
Analysis Date: 02/21/96
Column: 30m SPB-5
At lab date: 02/08/96
Dilution Factor: 10
Matrix: WATER

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
2-Chlorophenol	U	U	10
2-Nitrophenol	U	U	10
Phenol	U	U	18
2,4-Dimethylphenol	U	U	10
2,4-Dichlorophenol	U	U	10
2,4,6-Trichlorophenol	U	U	10
Pentachlorophenol	U	U	10
2,4-Dinitrophenol	U	U	36
4,6-Dinitro-2-methylphenol	U	U	10
4-Nitrophenol	U	U	10
4-Chloro-3-methylphenol	U	U	10

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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Randolph, NJ 07869
201-584-0330
FEBRUARY 22, 1996

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS

Lab Number: 228723
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: 001 Composite
Sample date: 02/08/96
Sampled by: Customer
At lab date: 02/08/96
Matrix: WATER

Data File: >F4472

Extracted Date: 02/13/96
Analysis Date: 02/21/96

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
N-Nitrosodimethylamine	U	U	10
bis(2-Chloroethyl)ether	U	U	10
1,3-Dichlorobenzene	U	U	24
1,4-Dichlorobenzene	U	U	23
1,2-Dichlorobenzene	U	U	24
bis(2-Chloroisopropyl)ether	U	U	12
N-Nitroso-di-n-propylamine	U	U	18
Hexachloroethane	U	U	29
Nitrobenzene	U	U	10
Isophorone	U	U	10
bis(2-Chloroethoxy)methane	U	U	10
1,2,4-Trichlorobenzene	U	U	23
Naphthalene	U	U	20
Hexachlorobutadiene	U	U	10
Hexachlorocyclopentadiene	U	U	15
2-Chloronaphthalene	U	U	20
Dimethyl phthalate	U	U	46
Acenaphthylene	U	U	15
2,6-Dinitrotoluene	U	U	10
Acenaphthene	U	U	19
2,4-Dinitrotoluene	U	U	10
Diethyl phthalate	U	U	23
4-Chlorophenyl phenyl ether	U	U	20
Fluorene	U	U	17
N-Nitrosodiphenylamine	U	U	10
1,2-Diphenylhydrazine (Azobenzene)	U	U	10
4-Bromophenyl phenyl ether	U	U	19
Hexachlorobenzene	U	U	19
Phenanthrene	U	U	9
Anthracene	U	U	8
Di-n-butylphthalate	U	U	25
Fluoranthene	U	U	6
Benzidine	U	U	10
Pyrene	U	U	5
Butyl benzylphthalate	U	U	12
3,3'-Dichlorobenzidine	U	U	10
Benzo(a)anthracene	U	U	5
Chrysene	U	U	5
bis(2-Ethylhexyl)phthalate	56	U	30
Di-n-octylphthalate	U	U	10
Benzo(b)fluoranthene	U	U	7

MAR 1996
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ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 22, 1996

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PRIORITY POLLUTANT BASE/NEUTRAL ANALYSIS BY GC/MS
(Continued)
Additional Base/Neutral Targeted Compounds

Lab Number: 228723
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: 001 Composite
Sample date: 02/08/96
Sampled by: Customer
At lab date: 02/08/96
Matrix: WATER

Data File: >F4472

Extracted Date: 02/13/96
Analysis Date: 02/21/96

Column: 30m SPB-5
Dilution Factor: 10

Init Sample vol= 1000ml Final volume= 10ml

Conc. in Sample = ((Conc. on Quant Report/Initial Volume)*Final Volume)*1000

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
enzo(k)fluoranthene	U	U	7
enzo(a)pyrene	U	U	5
ndeno(1,2,3-cd)pyrene	U	U	11
ibenz(a,h)anthracene	U	U	5
enzo(g,h,i)perylene	U	U	5

ug/l = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.
IND: Indeterminable

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FEBRUARY 22, 1996

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

INORGANIC LABORATORY ANALYSIS

Lab Number: 228723
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: 001 Composite
Sample date: 02/08/96
Sampled by: Customer
At lab date: 02/08/96
Matrix: WATER

Percent Moisture: 100 %

Results in mg/l (ppm).

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Date Analyzed
Lead	0.017	U	0.004	02/21/96
Zinc	0.159	U	0.020	02/21/96

U = Not Detected

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Richard Levine, President

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LYN

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1152 Route 10
Randolph, NJ 07869
201-584-0330
FEBRUARY 15, 1996

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

VOLATILE ORGANIC ANALYSIS BY GC/MS

Lab Number: 228724
Client: GIVAUDAN-ROURE CORPORATION
Sample source: Monthly Discharge 001
Sample ID: 001 Grab
Sample date: 02/08/96
Sampled by: Customer
At lab date: 02/08/96
Matrix: WATER

Data File: >G1760
Analysis Date: 02/13/96
Dilution Factor: 1
Init Sample vol= 5ml
Final volume= 5ml

Conc. in Sample = (Conc. on Quant Report/Initial Volume)*Final Volume

Parameter	Result ug/l	Method Blank ug/l	Minimum Detection Limit ug/l
Chloromethane	U	U	5
Bromomethane	U	U	4
Vinyl chloride	U	U	2
Chloroethane	U	U	2
Methylene chloride	5 B	2J	3
Trichlorofluoromethane	U	U	2
1,1-Dichloroethene	U	U	2
1,1-Dichloroethane	U	U	1
trans-1,2-Dichloroethene	U	U	2
Chloroform	6	U	2
1,2-Dichloroethane	2J	U	2
1,1,1-Trichloroethane	U	U	0.5
Carbon tetrachloride	U	U	0.6
Bromodichloromethane	U	U	0.6
1,2-Dichloropropane	U	U	0.6
cis-1,3-Dichloropropene	U	U	0.5
2-Chloroethyl vinyl ether	U	U	0.6
Trichloroethene	U	U	0.6
Dibromochloromethane	U	U	0.6
1,1,2-Trichloroethane	U	U	0.5
Benzene	U	U	0.5
trans-1,3-Dichloropropene	U	U	0.6
Bromoform	U	U	0.8
Tetrachloroethene	U	U	0.7
1,1,2,2-Tetrachloroethane	U	U	0.5
Toluene	20	U	0.8
Chlorobenzene	U	U	0.6
Ethylbenzene	U	U	0.7
p&m-Xylene	U	U	0.9
o-Xylene	U	U	0.9
total Xylenes	U	U	0.9
1,3-Dichlorobenzene	U	U	0.7
1,2-Dichlorobenzene	U	U	0.5
1,4-Dichlorobenzene	U	U	2

The total Xylenes result includes the sum of p&m-Xylene and o-Xylene.

ug/l = micrograms/liter or ppb
U: Indicates a compound was analyzed for but not detected at the MDL.
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

ND: Not Determined.

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Randolph, NJ 07869
201-584-0330, FAX: 201-584-0515

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PETROLEUM HYDROCARBONS

Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Monthly Discharge 001
Sample Date: 02/08/96
Sampled by: Customer
At Lab Date: 02/08/96
Sample Matrix: WATER

Lab No.	SAMPLE ID	RESULT mg/l	METHOD BLANK	MINIMUM DETECTION LIMIT mg/l	ANALYSIS DATE	EXTRACTION DATE
28724	001 Grab	21	U	0.54	02/09/96	02/09/96

U = Not detected

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Richard Levine, President

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Randolph, NJ 07869
201-584-0330, FAX: 201-584-0515
FEBRUARY 20, 1996

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 228724
Client: GIVAUDAN-ROURE CORPORATION
Sample Source: Monthly Discharge 001
Sample ID: 001 Grab
Sample matrix: LIQUID (AQUEOUS)
Sample date: 02/08/96
Sampled by: Customer
At lab date: 02/08/96

ARAMETER	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT	ANALYSIS DATE
yanide, Total	U	U	0.010	02/12/96

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

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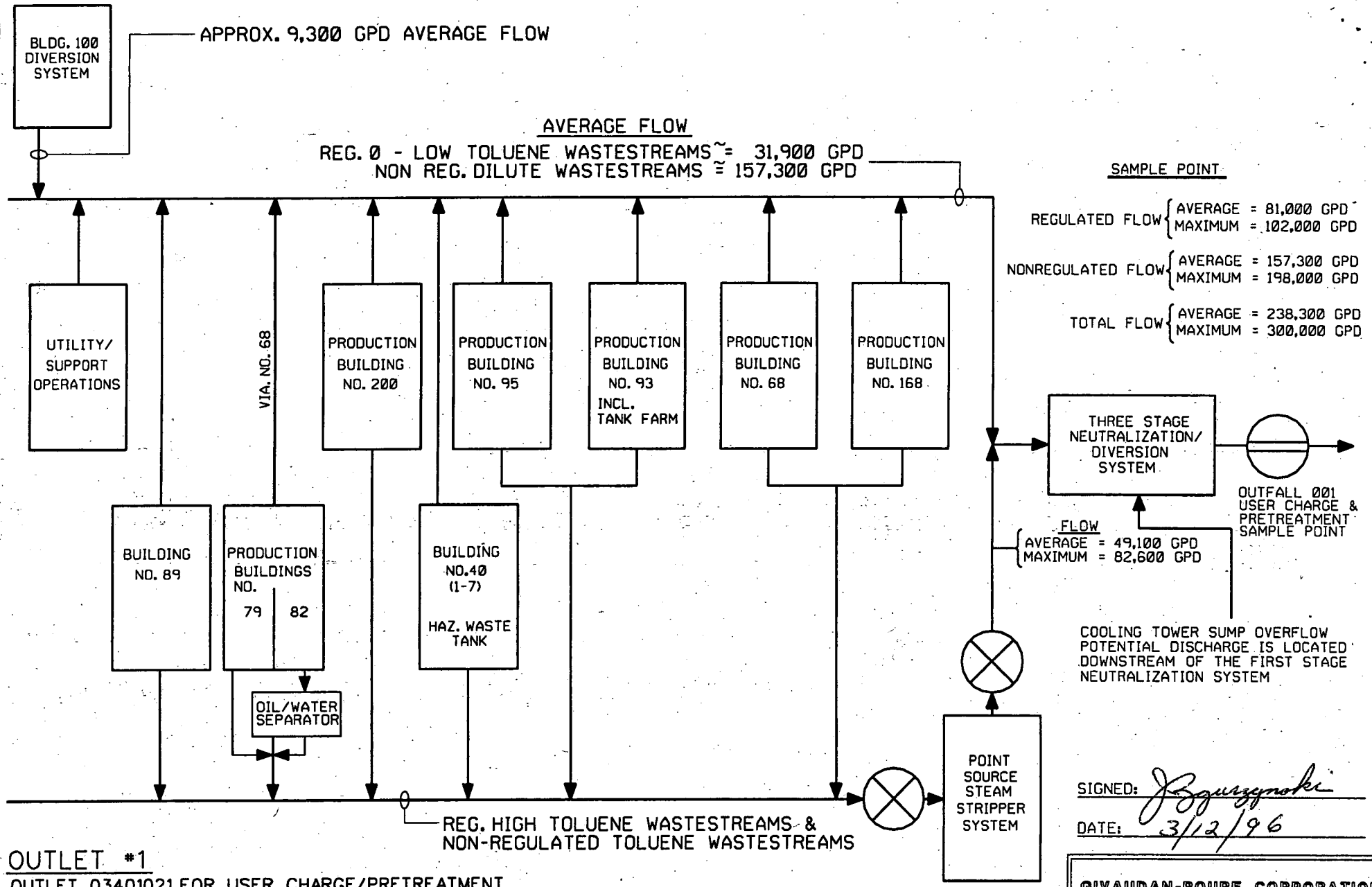
ROB


BLDG. 100 DIVERSION SYSTEM
APPROX. 9,300 GPD AVERAGE FLOW
AVERAGE FLOW
REG. Ø - LOW TOLUENE WASTESTREAMS ≅ 31,900 GPD
NON REG. DILUTE WASTESTREAMS ≅ 157,300 GPD
SAMPLE POINT
REGULATED FLOW { AVERAGE = 81,000 GPD MAXIMUM = 102,000 GPD
NONREGULATED FLOW { AVERAGE = 157,300 GPD MAXIMUM = 198,000 GPD
TOTAL FLOW { AVERAGE = 238,300 GPD MAXIMUM = 300,000 GPD
UTILITY/ SUPPORT OPERATIONS
VIA. NO. 68
PRODUCTION BUILDING NO. 200
PRODUCTION BUILDING NO. 95
PRODUCTION BUILDING NO. 93 INCL. TANK FARM
PRODUCTION BUILDING NO. 68
PRODUCTION BUILDING NO. 168
THREE STAGE NEUTRALIZATION/ DIVERSION SYSTEM
OUTFALL 001 USER CHARGE & PRETREATMENT SAMPLE POINT
FLOW
AVERAGE = 49,100 GPD
MAXIMUM = 82,600 GPD
BUILDING NO. 89
PRODUCTION BUILDINGS NO. 79 82
BUILDING NO.40 (1-7) HAZ. WASTE TANK
OIL/WATER SEPARATOR
COOLING TOWER SUMP OVERFLOW POTENTIAL DISCHARGE IS LOCATED DOWNSTREAM OF THE FIRST STAGE NEUTRALIZATION SYSTEM
POINT SOURCE STEAM STRIPPER SYSTEM
REG. HIGH TOLUENE WASTESTREAMS & NON-REGULATED TOLUENE WASTESTREAMS
OUTLET #1
OUTLET 03401021 FOR USER CHARGE/PRETREATMENT IS LOCATED BY SAMPLE SHED BUILDING #11 LOCATED IN SOUTHWEST CORNER OF PROPERTY (40 CFR 414)
= COMPLIANCE MONITORING STATION (FLOW SAMPLE DATE, 2/7-2/8 = 229,000 GALS.)
= MONITORING STATION
SIGNED: J Bgurzynski
DATE: 3/12/96
GIVAUDAN-ROURE CORPORATION
UPDATED WASTE WATER PFD OUTFALL 001 FEBRUARY 1996
CHART FEBRUARY-96

ATTACHMENT B

MR-2 FORMS FOR :

DISCHARGE POINT 001, 002, 003 & 004

USER CHARGE SELF MONITORING REPORT

NAME Givaudan Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION SAME AS ABOVE

OUTLET DESIGNATION (17 DIGITS) 0340-1021-04626-0451

MONITORING PERIOD					
02	01	96	02	29	96
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
6,910,000 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 358900(000)

DATE	BOD 0310	TSS 0530	TDS-COD	DATE	BOD 0310	TSS 0530	TDS-COD
2/1	4024	15		2/17	3004	41	
2/2	3958	18		2/18	3323	54	
2/3	4156	555		2/19	1624	37	
2/4	3826	43		2/20	3012	51	
2/5	3749	21		2/21	3940	93	7277-4477
2/6	5526	26		2/22	6186	44	
2/7	6697	18	12191-9187	2/23	5225	55	
2/8	3317	13		2/24	6426	84	
2/9	3425	24		2/25	3383	98	
2/10	3425	61		2/26	2760	98	
2/11	4808	111		2/27	6456	56	
2/12	2683	66		2/28	6697	76	10394-7976
2/13	3431	77		2/29	3305	56	
2/14	5495	44	8658-6437				
2/15	4078	35					
2/16	6276	45					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
	William L. Orton	(201)365-8352
	Senior VP / Operations	DATE 3/15/96

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 174 Delawanna Avenue - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1022-04626-0451

MONITORING PERIOD					
02	01	96	02	29	96
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
14,420 GALS
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 1637372(0)

DATE	BOD 0310	TSS 0530		DATE	BOD 0310	TSS 0530	
2/7	853	80					

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
	William L. Orton	(201) 365-8352
	Senior VP / Operations	DATE 3/15/96

PVSC FORM MR-2 REV.2. 1/86

USER CHARGE SELF MONITORING REPORT

NAME Givaudan - Roure Corporation

ADDRESS 125 Delawanna Avenue - Clifton, N.J. 07015-5034

FACILITY LOCATION 2 Peekay Drive - Clifton, N.J. 07015-5034

OUTLET DESIGNATION (17 DIGITS) 0340-1023-04626-0451

MONITORING PERIOD					
02	01	96	02	29	96
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL. DISCHARGED THIS PERIOD
539,760 GALS*
CU.FT. X 7.48 = GALLONS
EFFLUENT METER READING LAST DAY THIS PERIOD 481794(0)*

*FLOW FOR #4 ESTIMATED
FLOW FOR #3 METER READING
VOL. DISCHARGED TOTAL FOR #3 AND #4

DATE	BOD 0310	TSS 0530	COD	DATE	BOD 0310	TSS 0530	

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
	William L. Orton	(201) 365-8352
	Senior VP / Operations	DATE 3/15/94

PVSC FORM MR-2 REV.2. 1/86

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Sewage Monitoring Report

Sample ID : Discharge Point 001 **Date of Sample :** February 1996

Time of Sample : 24 hr. Comp.

DISCHARGE VOLUME
Total Flow : 6,910,000 gals. Average Flow : 238,276 gals.

Sampling Date	BOD (mg/L)	TSS (mg/L)	TDS (mg/L)	COD (mg/L)
2/1/96	4024	15		
2/2/96	3958	18		
2/3/96	4156	555		
2/4/96	3826	43		
2/5/96	3749	21		
2/6/96	5526	26		
2/7/96	6697	18	12191	9187
2/8/96	3317	13		
2/9/96	3425	24		
2/10/96	3425	61		
2/11/96	4808	111		
2/12/96	2683	66		
2/13/96	3431	77		
2/14/96	5495	44	8658	6437
2/15/96	4078	35		
2/16/96	6276	45		
2/17/96	3004	41		
2/18/96	3323	54		
2/19/96	1624	37		
2/20/96	3012	51		
2/21/96	3940	93	7277	4477
2/22/96	6186	44		
2/23/96	5225	55		
2/24/96	6426	84		
2/25/96	3383	98		
2/26/96	2760	98		
2/27/96	6456	56		
2/28/96	6697	76	10394	7976
2/29/96	3305	56		

Patricia Hopkins
Laboratory Supervisor

GIVAUDAN-ROURE CORP.
125 DELAWANNA AVENUE
CLIFTON, N.J. 07015
NJDEPE Lab Certification #16867

201-365-8000 **FAX 201-365-0711**

Project Description : Quarterly Sampling

Sample ID : Discharge Point I-01 **Date of Sample :** February 1996

Time of Sample : Grab

Sampling Date	pH (S.U.)
2/7/96	6.81

Patricia Hopkins
Laboratory Supervisor