Report of Field Activities For The Soil Removal Program

Waite Road Site Clifton Park, New York

Prepared For:

The General Electric Company
One River Road
Schenectady, NY 12345

Prepared By:

Woodward-Clyde Consultants
201 Willowbrook Boulevard
Wayne, NJ 07470

June 1991

Project Number:
90C4217

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INTRODUCTION

This report contains a summary of the activities associated with the Soil Removal Program at the Waite Road Site in Clifton Park, New York. A site location map is provided as Figure 1. The removal program was performed under New York State Department of Law Consent Judgement Index No. 83 CV 1621. Excavation and transportation of contaminated soil began in December 1990 and ended in March 1991.

All field activities were performed in accordance with the submittals approved by New York State Department of Environmental Conservation (hereinafter "NYSDEC" or "Department") that were prepared by Woodward-Clyde Consultants (WCC) entitled "Contract Documents for the Waite Road Site, Clifton Park, New York" (August 1990) and "Response to Wetlands Permit Application Package, Waite Road Site" (29 October 1990). The locations of the borings and soil test results on which the removal program was based are shown as Figures 2 and 3.

A Notice to Proceed was given by NYSDEC to The General Electric Company (GE) on October 31, 1990.

REMOVAL PROGRAM

Environmental Products and Services, Inc (EPS) of Schenectady, New York was awarded the soil excavation contract. As the prime contractor, EPS provided equipment and personnel necessary to complete the tasks as outlined in the Contract Documents. Waste Technology Services of Niagara Falls, New York was the contractor responsible for transporting the soil to the Model City Landfill in Model City, New York. WCC provided resident environmental services.

The Removal Program primarily involved the following activities:

- Surveying, including a pre-excavation topographic survey and delineation of locations for excavation;

- Implementation and maintenance of the approved Soil Erosion and Sediment Control Plan;
- Preparation of access roads and staging areas;
- Excavation of petroleum hydrocarbon-contaminated soils;
- Transportation of excavated material;
- Disposal of excavated material at the Model City Landfill (a total of 48 truckloads with a total weight of 1,185.8 tons left the site);
- Restoration (contour regarding, backfilling of selected areas) and revegetation of disturbed areas (scheduled for completion summer of 1991).

The contamination on the site had been characterized by WCC in a field investigation performed in 1987 and 1988, and described in the Final Report, Site Investigation, Waite Road Site (December 1988).

The findings of the Site Investigation were used to delineate five locations of concern, designated Locations A through E, as shown on Figure 4. EPS mobilized equipment and personnel to the Site on December 19, 1990. A staging area was prepared. Silt fences were erected and hay bales placed to control erosion and siltation caused by excavation activity. Excavated soil from the five locations was stockpiled at the southern side of the Site. Trucks were scheduled to haul away material every few days, as needed, to maintain the quantity of stockpiled soil at manageable levels.

Soils excavated from Locations A and B were wet. Groundwater at these locations was less than 6 inches below ground surface. Because of landfill restrictions on accepting "wet" soil, EPS brought 25 tons of cement kiln dust to mix in with the stockpiled soil to absorb excess water.

An on-site, aboveground tank containing an asphalt-like sludge was decommissioned by EPS. EPS removed all the sludge and put it in 55-gallon drums. The tank was then cleaned, cut up for scrap steel, and hauled off site to a scrap metal company, Nathan Kelman Inc of Cohoes, New York. A total of 18 drums of sludge and the residue from cleaning the tank was removed from the site by Hazmat Environmental Group, Inc and sent to the Ensco, Inc incinerator in El Dorado, Arkansas.

In addition to the soil removal and the tank work, EPS also demolished an on-site shack. The demolition debris, along with various other debris, such as car body parts and old furniture, were hauled off site by EPS and delivered to Frank Santoro & Sons, Pangburn Road, Schenectady, New York. A concrete decontamination pad built by the New York State Department of Transportation (NYSDOT) was also demolished. The concrete rubble was used as fill in Location E.

POST-EXCAVATION SOIL SAMPLING - ROUND 1

Post-excavation soil sampling occurred on January 4, 1991 in Locations A, B, D, E, the access road to Locations A and B, and parts of Location C. The remainder of the post-excavation samples were collected on January 8 and 9, 1991 from Location C, the stockpile area, and the loading zone (Figure 5). Excavation work at the Site was terminated on January 9, 1991, pending confirmation of the post-excavation soil sampling results.

Twenty-three post-excavation soil samples were collected and analyzed for Total Petroleum Hydrocarbons (TPH) and total PCBs. The results are tabulated on Table 1. Figure 5 shows these results and their respective locations. Two samples exceeded the cleanup objective of 10,000 ppm TPH as set forth in the Final Report (WCC, December 1988).

These locations were sample PS-C-S4 in Location C and PS-AR3 in the access road to Locations A and B. These two samples were also the only samples found to contain concentrations of total PCBs in excess of 1 ppm.

FEBRUARY 1991 SITE MEETING

A site meeting was held on February 19, 1991 and was attended by representatives of GE, WCC, NYSDEC, and NYSDOH. The post-excavation sampling results were discussed. WCC and GE also proposed further action to be taken prior to the site restoration phase. GE and WCC proposed to continue the excavation work in Location C in the vicinity of sample locations PS-C-S4 and PS-C3. Additionally, the

access road from Location B to the stockpile area were to be scraped to remove the soils in the vicinity of sample locations PS-AR1 and PS-AR3. Post-excavation soil samples were to be collected to assess the effectiveness of soil removal.

ADDITIONAL SOIL REMOVAL

EPS mobilized equipment to the site on February 25, 1991, to continue excavation work in the locations discussed with NYSDEC at the February 19, 1991 site meeting. Specifically, this included scraping the access road from Location B to the stockpile area, and continued excavation in Location C at the north end (sample location PS-C3) and the southwest corner (sample location PS-C-S4).

The access road from Location B to the stockpile area was scraped to a depth of 1.5 ft. The area scraped included the locations of sampling points PS-AR1 and PS-AR3. The dimensions of the excavation were approximately 70 ft long by 12 ft wide. The berm at Location B was not breached. A 2-ft-wide berm was left in place to prevent ponded water from Location B discharging along the new excavation. Three samples were collected in the excavation: PS-AR4 (new location), and PS-AR5 and PS-AR6, located directly below former sample locations PS-AR-1 and PS-AR3, respectively. For locations and results, refer to Figure 5.

In Location C, the excavation work continued in the vicinity of sample PS-C3. At PS-C3, an additional 1.5 ft of soil was removed. Sample PS-C4 was collected directly below former sample PS-C3.

At sample location PS-C-S4, the excavation work continued along the western and southern walls. An additional three side-wall samples were collected in this area, PS-C-S6, PS-C-S7, and PS-C-S8 (Figure 5).

POST-EXCAVATION SOIL SAMPLING - ROUND 2

A total of seven soil samples were collected from the areas excavated on February 26, 1991. The test results are shown in Table 1 (Sampling Round 2) and on Figure 5. Two

samples, PS-C4 and PS-AR4, were found to exceed the 10,000 ppm TPH cleanup objective.

FURTHER SOIL REMOVAL

Based on the Round 2 soil sampling results, further excavation work was performed in the vicinity of sample locations PS-AR4 (Access Road near Location B) and PS-C4 (northern end of Location C) on March 1, 1991.

At sampling location PS-AR4, the access road was excavated from Location B southeast to the approximate half-way point between sampling locations PS-AR4 and PS-AR5. The excavation extended an additional 1.5 ft to a total depth of 3 ft below grade. The berm at Location B was also removed. One sample, PS-AR7, was collected from directly below former sampling location PS-AR4 (Figure 5).

At location PS-C4, the excavation extended to a depth of approximately 6 ft with dimensions of 38 ft by 22 ft. Two samples, PS-C-S9 and PS-C-S10, were collected from the western and northern walls of the excavation (Figure 5).

POST-EXCAVATION SOIL SAMPLING - ROUND 3

Three soil samples were collected from the areas excavated on March 1, 1991. PS-AR7 was collected in the Access Road below former sample location PS-AR4. Two side-wall samples were collected from the northern end of Location C. These locations are shown on Figure 5.

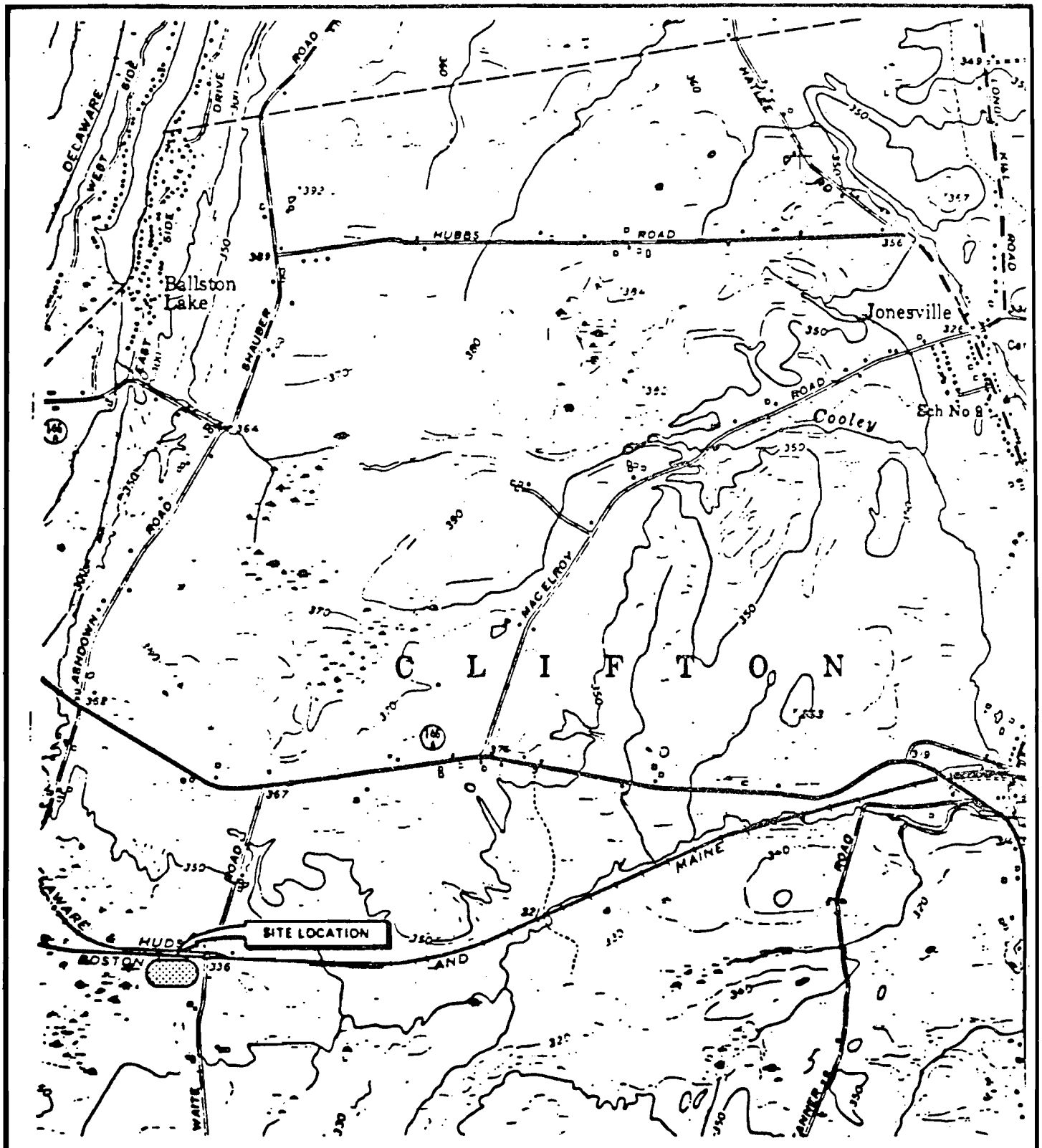
None of the three samples were found to contain TPH in excess of the 10,000 ppm cleanup objective.

BACKFILLING/SITE RESTORATION

EPS contracted with a local gravel pit, Wm. L. Larned and Sons of Schenectady, New York, to supply clean backfill soil to the site. A total of 660 cubic yards of sandy

Table

Figures



SOURCE: ROUND LAKE QUADRANGLE

LOCATION MAP WAITE ROAD SITE
CLIFTON PARK, N.Y.

WOODWARD—CLYDE CONSULTANTS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS
WAYNE, NEW JERSEY

DR. BY: TJD	SCALE: AS SHOWN	PROJ. NO.: 90C4217
CK'D. BY: MN	DATE: 20 JUNE 1986	FIG NO.: 1

Appendix A

General Testing Corporation

A Full Service Environmental Laboratory

March 27, 1991

Mr. Chris Motta
Woodward Clyde Consultants
201 Willowbrook Blvd.
Wayne, NJ 07470

Dear Mr. Motta:

The enclosed report contains analytical data pertaining to the GE - Waite Road site. The samples were collected on February 26 and March 1, 1991, shipped via Federal Express from the site, and received into the laboratory on the days following.

Ten soil samples were collected in batches of seven and three respectively. The analyses requested were total petroleum hydrocarbons by IR, and PCB's. Rush turnaround time was requested for the petroleum hydrocarbons. Analysis for PCB's was initiated upon review of the TPH results.

Additional reporting sections include laboratory QC data, an analytical chronology, methodology summaries and all the necessary documentation for an extended deliverables package. Please review this data package and contact me if you have any questions.

Sincerely,

Virginia Murray
Laboratory Manager

VM/
enc

710 Exchange Street • Rochester, New York 14608 • (716) 454-3760 • Fax (716) 454-1245
85 Trinity Place • Hackensack, NJ 07601 • (201) 488-5242 • Fax (201) 488-6386
435 Lawrence Bell Drive • Amherst, NY 14221 • (716) 634-0454 • Fax (716) 634-9019

General Testing Corporation

LABORATORY DELIVERABLES

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS.

The following laboratory deliverables shall be included in the data submission. All deviations from the accepted methodology and procedures, or performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete packages may be returned or held without review until the data package is completed

		Check if Complete
I.	Cover Page, Format, and Laboratory Certification (Include Cross Reference Table of Field I.D. # Laboratory I.D. #)	x
II.	Chain of Custody	x
III.	Summary Sheets Listing Analytical Results Including QA Data Information (see Attached Form and ESPG Attachment 2.B.2.C)	x
IV.	Laboratory Chronicle and Methodology Summary including Sampling Holding Time Check	x
V.	Initial Calibration and Continuing Calibration	x
VI.	Tune Summary (MS)	NA
VII.	Blanks (Method, Field, Trip)	x
VIII.	Surrogate Recovery Summary	x
IX.	Chromatographs Labelled/Compound Identification	x
X.	Minimum Detection Limits	x
XI.	Non-Conformance Summary	x

Virginia Murray

Virginia Murray, Laboratory Manager

3/28/91

Date

General Testing Corporation

Analytical Data Package for:

Mr. Chris Motta
Woodward Clyde Consultants
201 Willowbrook Blvd.
Wayne, NJ 07470

Project Name: GE - Waite Road, Clifton Park, NY
Client Project #: 90C4217

GTC #	Sample Location	Date and Time of Collection
R91/0855-001	PS-C-S6	02/26/91 13:00
R91/0855-002	PS-C-S7	02/26/91 13:10
R91/0855-003	PS-C-S8	02/26/91 13:20
R91/0855-004	PS-C4	02/26/91 13:30
R91/0855-005	PS-AR4	02/26/91 14:00
R91/0855-006	PS-AR5	02/26/91 14:15
R91/0855-007	PS-AR6	02/26/91 14:30
R91/0936-001	PS-C-S1	03/01/91 09:30
R91/0936-002	PS-C-S2	03/01/91 13:20
R91/0936-003	PS-C-S3	03/01/91 13:30

GENERAL TESTING CORPORATION
710 Exchange Street
Rochester, New York 14608

Laboratory Certification # 73331

Manager: Michael K. Perry

Virginia Murray 3/28/91
Authorized Signature

General Testing Corporation

GTC REPORT # R91/855, 936

REPORT INDEX

General Testing Corporation

GTC REPORT # R91/855, 936

SECTION A

ANALYTICAL DATA

INORGANICS

Presented in this section is analytical data for the parameters requested. The following references concerning units and analytical methodology apply to the data provided herein.

Units: ug/g dry weight

Analytical Methodology Obtained From:

( ) Federal Register, 40 CFR Part 136, Guidelines Establishing Test Procedures for the analyses of Pollutants under the Clean Water Act, 10/26/84.

( ) SW-846, Test Methods for Evaluating Solid Waste, 3rd Edition, 11/86.

(X) Other: EPA Method 418.1 Modified for Soils

General Testing Corporation

ANALYSIS FOR

TOTAL PETROLEUM HYDROCARBONS

EPA METHOD 418.1

(Modified for Soils)

METHODOLOGY SUMMARY

Samples are drained of excess water and debris such as pebbles and thoroughly mixed. A specified portion of sample (approximately 15 grams) is mixed with anhydrous sodium sulfate to remove any residual moisture. The sample is then extracted with 1,1,2 trichlorotrifluoroethane (freon) for a minimum of three (3) hours at 30 cycles per hour. The extract is then mixed with silica gel to remove any hydrocarbons of plant or animal origin. The remaining extract is then filtered, diluted to 100mls and analyzed on an infrared spectrophotometer at wavelenghth = 2930/cm and read against a standard curve.

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R91/00855 Date: MAR. 21 1991

Client:
Paul Kareth
Woodward Clyde Consultants
201 Willowbrook Blvd.
Wayne, NJ 07470

Sample(s) Reference:
GE - Waite Rd.

Received : 02/27/91 P.O. #: 90C4217

ANALYTICAL UNITS - ug/g dry wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		PS-C-S6	PS-C-S7	PS-C-S8	PS-C4	PS-AR4	PS-AR5	PS-AR6
Date Collected:	==========	02/26/91	02/26/91	02/26/91	02/26/91	02/26/91	02/26/91	02/26/91
Time Collected:	PQL	13:00	13:10	13:20	13:30	14:00	14:15	14:30
Solids, %	--	57.7	85.5	81.2	77.1	60.8	72.6	73.6
Pet. Hydrocarbons, IR	13.3	8980	46.2 U	2090	15,000	28,400	898	5640
PCBs	--	**						**

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael K. Perry

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R91/00936 Date: MAR. 11 1991

Client:
Paul Kareth
Woodward Clyde Consultants
201 Willowbrook Blvd.
Wayne, NJ 07470

Sample(s) Reference:
GE - Waite Rd.

Received : 03/01/91 P.O. #: 90C4217

ANALYTICAL UNITS - ug/g dry wt.

Sample:		-001	-002	-003
Location:		PS-AR7	PS-C-S9	PS-C-S10
Date Collected:		03/01/91	03/01/91	03/01/91
Time Collected:	PQL	09:30	13:20	13:30
Solids, %	-	80.3	69.0	29.8
Pet. Hydrocarbons, IR	13.3	96.5	1980	306

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael K. Perry
Laboratory Director

General Testing Corporation

GTC REPORT # R91/855, 936

SECTION B

ANALYTICAL DATA

PCB'S

Presented in this section is analytical data for the parameters requested. The following references concerning units and analytical methodology apply to the data provided herein.

Units: ug/kg dry weight

Analytical Methodology Obtained From:

( ) Federal Register, 40 CFR Part 136, Guidelines Establishing Test Procedures for the analyses of Pollutants under the Clean Water Act, 10/26/84.

(X) SW-846, Test Methods for Evaluating Solid Waste, 3rd Edition, 11/86. Method 8080

( ) Other: EPA Method 418.1 Modified for Soils

General Testing Corporation

ANALYSIS FOR

ORGANOCHLORINE PESTICIDES AND PCB's

EPA METHOD 8080

(SOILS & SEDIMENTS)

METHODOLOGY SUMMARY

Samples are drained of excess water and debris such as pebbles and thoroughly mixed. Thirty grams of a sample/Na_2SO_4 mixture (ratio depends on water content of sample) is extracted with a 1:1 mixture of methylene chloride and acetone in a sonicator. The extract is dehydrated with Na_2SO_4, concentrated to 10mls, subjected to florisil partioning, and desulfurized. Analysis is performed via gas chromatography using a packed column, (1 - 6ft x 1/4in ID glass, packed with 1.5% SP2250/1.95% SP2401 on 100/120 mesh supelcoport*) and an electron capture detector.

* Alternate column: 2 - 6ft x 1/4in ID glass packed with 3% SE 30 on 80/100 chromosorb WHP.

General Testing Corporation

CASE NARRATIVE

R91/0855

WCC soil job R91/855 was analyzed for PCB's using method 8080 from SW846. This job was samples on 02/26/91 and extracted on 03/06/91.

The surrogate recovery for Dibutylchlorendate was outside of QC limits for sample R91/855-Blk due to suspected matrix interference (flag t). However, the second surrogate, Tetrachloro-m-xylene, was within QC limits for all samples. Due to the high levels of PCB's detected, samples R91/855-001 and 007 were quantitated using dilutions which subsequently raised the quantitation limits, and caused the spike to be diluted out (flag D) in the matrix spike and matrix spike duplicate (R91/855-007 MS and 007 MSD).

03/14/91

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R91/00855 Date: MAR. 21 1991

Client:
Paul Kareth
Woodward Clyde Consultants
201 Willowbrook Blvd.
Wayne, NJ 07470

Sample(s) Reference
GE - Waite Rd.

Received : 02/27/91 P.O. #: 90C4217

ANALYSIS * BY EPA METHOD 8080 ANALYTICAL RESULTS - ug/kg dry wt.

Sample:		-001	-007	-008
Location:		PS-C-S6	PS-AR6	Lab Blank
Date Collected:		02/26/91	02/26/91	--
Time Collected:	PQL'S	13:00	14:30	--
Date Extracted:		03/06/91	03/06/91	03/06/91
Date Analyzed:		03/12/91	03/12/91	03/12/91
PCB 1016	20.0	34.7 U	272 U	20.0 U
PCB 1221	20.0	34.7 U	272 U	20.0 U
PCB 1232	20.0	34.7 U	272 U	20.0 U
PCB 1242	20.0	255	272 U	20.0 U
PCB 1248	20.0	34.7 U	272 U	20.0 U
PCB 1254	20.0	34.7 U	272 U	20.0 U
PCB 1260	20.0	122	444	20.0 U
Surrogate Standard Recovery				
Tetrachloro-meta-xylene (Acceptance Limits: 31-141%)		80%	68%	61%
Dibutylchlorendate (Acceptance Limits: 24-150%)		63%	91%	433%t

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

GTC REPORT # R91/855, 936

SECTION C

LABORATORY QUALITY CONTROL

Presented in this section is Quality Control associated with the data provided in Section A & B of this report.

Quality Control Explanations:

1) Run Quality Control - Selected QC data from the analytical run in which your sample(s) were involved.

2) Job Specific Quality Control - QC data specific to your set of samples.

3) Duplicates - Replicate analysis of a given sample used to monitor precision. Relative Percent Difference is calculated as the difference divided by the average x 100.

4) Matrix Spikes - Addition of a known amount of analyte to a sample. Recovery is calculated by subtracting original value attributable to the sample from the combined value. The difference is then divided by the amount added to calculate % recovery. Poor recoveries may indicate analytical interference due to the matrix of the sample. Any other samples of this same matrix may also have been affected, high or low as indicated by the % recovery.

5) Laboratory Blanks - Laboratory Deionized water used to monitor for contamination during analysis.

6) Blank Spikes - Same as #4 but analyte is added to laboratory deionized water. This indicates the accuracy of analysis.

7) Reference Check Sample - Samples from an outside source having a known concentration of analyte. Used as a measure of analytical accuracy.

When possible, all components of the above listed QC protocol are performed during an analytical run. The resulting data is compared to historical records when evaluating the quality of analytical runs. The data provided in your report has passed our Quality Assurance review.

Quality Control Notes:

General Testing Corporation

INORGANICS CONFORMANCE/NON-CONFORMANCE SUMMARY

Woodward Clyde Consultants
GTC # R91/0855, 0936

	Within Specifications	
	No	Yes
Blank Contamination		
a. Metals	___	NA
b. General Chemistry	___	NA
c. Petroleum Hydrocarbons	___	x
Sample Holding Times		
a. Metals	___	NA
b. General Chemistry	___	NA
c. Petroleum Hydrocarbons	___	x
Minimum Detection Limits		
a. Metals	___	NA
b. General Chemistry	___	NA
c. Petroleum Hydrocarbons	___	x

Additional Comments:

Laboratory Manager Virginia Murray Date: 3/28/91

GTC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Woodward Clyde Consultan JOB # : R91/00855 UNITS: ug/g dry wt. REPORT TYPE: Site

PARAMETER	SAMPLE	MS RESULT	MSD RESULT	% REL. ERROR	ACCEPT. LIMIT %	AVERAGE RESULT	SPIKE ADDED	PERCENT RECOVERY	ACCEPT. LIMIT %	METHOD BLANK	SPIKE ADDED	PERCENT RECOVERY	ACCEPT. LIMITS %	REFERENCE #	KNOWN PMVAL	PERCENT RECOVERY	ACCEPT. LIMITS %
////////////////////		* PRECISION				* MATRIX SPIKING				BLANK SPIKES				REFERENCE STANDARD			
Pet. Hydro.	-007	7940	7750	2.42	18.1	7940	29,540	95.1	55.9-130	18.8 U	1746	113	61.1-123				

* Analytical results previous to accounting for dilutions. ** Reference Check samples are not available for all analyses. ++ Outside of Quality Control Limits.

GTC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Woodward Clyde Consultan JOB # : R91/00936 UNITS: ug/g dry wt. REPORT TYPE: Run

PARAMETER	SAMPLE	MS RESULT	MSD RESULT	% REL. ERROR	ACCEPT. LIMIT %	AVERAGE RESULT	SPIKE ADDED	PERCENT RECOVERY	ACCEPT. LIMIT %	METHOD BLANK	SPIKE ADDED	PERCENT RECOVERY	ACCEPT. LIMITS %	REFERENCE #	KNOWN PMVAL	PERCENT RECOVERY	ACCEPT. LIMITS %
//////////////////		* PRECISION				* MATRIX SPIKING				BLANK SPIKES				REFERENCE STANDARD			
Pet. Hydro.	91/927-1	2390	2350	1.69	18.1	0.00	23,632	94.2	55.9-130	20.4 U	2049	97.4	61.1-123				

Analytical results previous to accounting for dilutions. ** Reference Check samples are not available for all analyses. ++ Outside of Quality Control Limits.

General Testing Corporation

GC - GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

Woodward Clyde Consultants - GTC# R91/0855, 0936

		No	Yes
1.	GC/MS Tune Specifications		
	a. BFB passed	___	NA
	b. DFTPP passed	___	NA
2.	GC/MS Tuning Frequency - performed every 12 hours	___	NA
3.	GC-GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours before sample analysis	___	x
4.	GC/MS Calibration Requirements		
	a. Calibration Check Compounds	___	NA
	b. System Performance Check Compounds	___	NA
5.	Blank Contamination - List compounds for each fraction		
	a. VOA Fraction_____		
	b. B/NFraction_____		
	c. Acid Fraction_____		
	d. PCB's_____		
6.	Surrogate Recoveries Meet Criteria	x	___
	(If not met, list those compounds and their recoveries which fall outside the acceptable range)		
	a. VOA Fraction NA		
	b. B/N Fraction NA		
	c. Acid Fraction NA		
	d. PCB's Dibutylchlorendate		
7.	Extraction Holding Time Met	___	x
	Comments:_____		
8.	Analysis Holding Time Met	___	x
	Comments:_____		

Additional Comments:

Laboratory Manager Virginia Murray Date: 3/28/91

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No. : R91/00855 -007

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1254	133	200 U	200 U	D	39-150

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
PCB 1254	133	200 U	D		30	39-150

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

D:___0____ out of ___1____ outside limits
ike Recovery:__0___ out of ___2___ outside limits

MMENTS: _____

_____

age 1 of 1

FORM III VOA-1
NYSDEC B-85

General Testing Corporation

GTC REPORT # R91/855, 936

SECTION D

ANALYTICAL CHRONOLOGY

Presented in this section is a Laboratory Chronology listing the dates of all preparations and analyses performed on the samples covered in this report. Holding times (the maximum times in which to analyze a sample) are derived from the referenced methodology.

Chronology Notes:

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No. R91/00855 Date MAR. 11 1991

Client:

Woodward Clyde Consultants

Sample(s) Reference

GE - Waite Rd.

Date Received: 02/27/91

Date Sample Taken: 02/26/91

LABORATORY CHRONICLE
DATE ANALYZED

Sample: / Location:	-001 PS-C-S6	-002 PS-C-S7	-003 PS-C-S8	-004 PS-C4	-005 PS-AR4	-006 PS-AR5	-007 PS-AR6	-008 Lab Meth. Blank	
Solids, %	02/27/91	02/27/91	02/27/91	02/27/91	02/27/91	02/27/91	02/27/91		
TPH Date Extracted	02/27/91	02/27/91	02/27/91	02/27/91	02/27/91	02/27/91	02/27/91		
Pet. Hydrocarbons, IR	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91		
PCBs - Date Extracted	03/06/91						03/06/91	03/06/91	
PCBs - Date Analyzed	03/12/91						03/12/91	03/12/91	

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No. R91/00936 Date MAR. 11 1991

Client:

Woodward Clyde Consultants

Sample(s) Reference

GE - Waite Rd.

Date Received: 03/01/91

Date Sample Taken: 03/01/91

LABORATORY CHRONICLE
DATE ANALYZED

Sample: / Location:	-001 PS-AR7	-002 PS-C-S9	-003 PS-C-S10						
Solids, %	03/04/91	03/04/91	03/04/91						
TPH Date Extracted	03/04/91	03/04/91	03/04/91						
Pet. Hydrocarbons, IR	03/05/91	03/05/91	03/05/91						

ANALYTICAL CHRONOLOGY VERIFICATION

The preservation, preparation and analysis of these samples were conducted on the dates specified on the previous pages.

Laboratory Director: Michael K. Penn

Inorganics Manager: Doug B. Dumbleton

Organics Manager: Mark P. Wiha

Sample Receipt Manager: Ellen Schneidenbach

QA Officer: Nancy Mount

General Testing Corporation

GTC REPORT # R91/855, 936

SECTION E

DOCUMENTATION FILE

Presented in this section is all support documentation requested.

Documentation Provided:

(X) Chain of Custody Forms

(X) Analytical Request Forms

( ) Shipping Receipts

( ) Laboratory Receipt Log

( ) Laboratory Support Documentation

( ) Other:

Testing Corporation

LABORATORY REQUEST
Client & Job Information — Form I, Page 1 of 4

Job#: [illegible]
Date of Order: 2/21/91
Cl. Rep: Ya

CLIENT

Client: WCC Requested by: Paul Kaleth
Street: 201 Willowbrook Blvd City: Wayne State: NJ Zip: 07470
Reports to: Same Copies to:
Phone # (201) 785 - 8013 0700 ext. 384 FAX # (201) 785 - 0875

PROJECT INFO.

Project Reference: GE - Waite Rd
Estimated Start Date: 2/26/91 Est. Finish Date: 2/27/91 Phases:
Est. Sample Arrival Dates: Rochester ≈ Est. Lot Sizes:
Work Plan Available: Yes ☐ No ☐ Comments:
Nature of Samples & Safety Concerns: 24-48 hr TAT on TPH's
STD for PCB's — PCB's must have
Confirmatory chromatograms for positive hits.
Client Consultant:
TAT (Date Due): Verbal Report: S/T/D Rush Written: ___/___/___ Final Report: ___/___/___

ANALYTICAL

Summary of Analytical Requirements (see Form III for details)

Type	Matrix	#	Analyses Required
A	SOIL	10	TPH, % SOLIDS, PCB'S
B			
C			
D			

A: SOIL BORINGS B:
C: D:

Refer to Form II (reverse side) when specifying analytical protocol, field services & sample processing needs.

INVOICE

Invoice To: Same Contact:
Address (if different):
Quotation #: Date: ___/___/___ P.O.#: 90C4217
Cost Estimate Analytical $ (see Form III for details) Reportables $
Field $ Shipping $ TAT $ Total $

Client Confirmation — (Please verify the above information and sign below.)

Comments:
Client Signature: Date: ___/___/___

0 Exchange Street
ochester, NY 14608
16) 454-3760
AX (716) 454-1245

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242
FAX (201) 488-6386

435 Lawrence Bell Drive
Amherst, NY 14221-7077
(716) 634-0454
FAX (716) 634-9019

General Testing Corporation

Sue

LABORATORY REQUEST
Analytical Requirements — Form III, Page 3 of 4

Job#: R91/855
Date of Order: 2/21/91
Cl. Rep: VA

Customer: WCC Reference: GE-Waite Rd

# of Waters(W)= ____ # of Soils(S)= 5-7 Date Samples Expected: ≈2/29/91 TAT: STD

Sample Type: A: SOIL BORINGS C: ____

(Source, Matrix or Location) B: ____ D: ____

	Test(s), Scan(s) Test Group(s) (Use Code f/ Back)	# of Samples by Sample Type A	B	C	D	# of Analysis per Sample W	S	Total # of Samples W	S	Total # Analysis W	S	Unit Analytical $	Estimated COST $
GEN. CHEM.													
	SH												
❑ 500 ❑ 846 ❑ 136 ❑ CLP	TOTAL # OF GEN. CHEM. ANALYSES												
METALS													
	Hex Cr												
❑ 500 ❑ 846 ❑ 136 ❑ CLP	TOTAL # OF METALS ANALYSES												
GC/MS LAB	GC												
	GC												
	TOTAL # OF GC VOLATILES												
	MS												
	MS												
❑ 500 ❑ 846 ❑ 136 ❑ CLP	TOTAL # OF MS VOLATILES												
GC/MS LAB	GC GC 8080 (PCB's MUST HAVE CONFIRM. FOR ALL POSITIVE HITS)	5-7				-	1	-	5-7	-	5-7		
	GC												
	TOTAL # OF GC EXTRACTABLES												
	MS												
	MS												
❑ 500 ❑ 846 ❑ 136 ❑ CLP	TOTAL # OF MS EXTRACTABLES												
OX													
TOC													

Exchange Street
Chester, NY 14608
(716) 454-3760
FAX (716) 454-1245

435 Lawrence Bell Drive
Amherst, NY 14221-7077
(716) 634-0454
FAX (716) 634-9019

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242
FAX (201) 488-6386

RUSH TAT Surcharge		Subtotal for Analytical	
Reportables Surcharge		Discount @ ____ %	-
QC Surcharge		Certification Fee	+
Misc. Charges		Total Extra Charges	+
Total Extra Charges		Total Analysis & Report	

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Memorandum **Woodward-Clyde Consultants**

PAGE 1 OF 1

To: Virginia Murray
General Testing

From: Paul Kaveth

Office: Wayne, NJ

Date: 2-21-91

Subject: Sampling at Waite Road 90C4217

I need the following delivered by Friday afternoon:

10 bottle sets for TPH and PCB's in soil.
turnaround time for TPH - 24+48 hours.
turnaround time for PCB's = normal turnaround.

Sampling is scheduled for Tuesday/Wednesday 2/26 & 27/91.
I will need "blue ice" packs for Federal Express shipment. (ship from site)
I expect to collect about 5 to 7 samples. The extra bottle sets are backup in case I have to do alot of excavation.

If you want the PCB's shipped directly to Rochester, I'll need 2 coolers, otherwise I can ship everything to Hackensack.

Call me to firm this up, Thanks

Paul Kaveth

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GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job No. R91/855
Client Project No. 90C4217

Sample Origination & Shipping Information

Collection Site WAITE ROAD
Address WAITE ROAD (Street) CLIFTON PARK (City) NY (State) (Zip)
Collector PAUL KARETH (Print) Paul Kareth (Signature)

Bottles Prepared by _____ Rec'd by _____
Bottles Shipped to Client via _____ Seal/Shipping # _____
Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign Paul Kareth	1. Sign Federal Express	/ /
for	for	:
2. Sign	2. Sign K M Milly GTC	2/27/91
for	for	9:30
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by _____ / / @ :

	Client I.D.# / Lab#	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	PS-C-S6 / 001	PS-C-S6 / 2/26/91 1300	S	TPH, PCB	/ Ice			✓	2-pint glass
2	PS-C-S7 / 002	PS-C-S7 / 2/26/91 1310	S	TPH, PCB	/ Ice			/	2-pt glass
3	PS-C-S8 / 003	PS-C-S8 / 2/26/91 1320	S	TPH, PCB	/ Ice			/	2-pt glass
4	PS-C4 / 004	PS-C4 / 2/26/91 1330	S	TPH, PCB	/			/	2-pt glass
5	PS-AR4 / 005	~~AR~~ PS-AR4 / 2/26/91 1400	S	TPH, PCB	/ Ice			/	2 pt glass

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each		2									

Additional Analytes TPH - rush turnaround ; PCB's normal turnaround

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____ (X), _____ (Y).

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job No. K91/855

Client Project No. 90C4217

Sample Origination & Shipping Information

Collection Site WAITE ROAD

Address WAITE ROAD (Street) CLIFTON PARK (City) NY (State) (Zip)

Collector PAUL KARETH (Print) Paul Kareth (Signature)

Bottles Prepared by _____ Rec'd by _____

Bottles Shipped to Client via _____ Seal/Shipping # _____

Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign Paul Kareth	1. Sign Federal Express	/ /
for	for	:
2. Sign	2. Sign KMcCully GTC	2/27/91
for	for	9:30
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by _____ / / @ :

	Client I.D.# / Lab#	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)	
1	PS-AR5 / 006	PS-AR5 / 2/26/91 : 1415	S	TPH, PCB	/ ice			/	2-pt. glass	
2	PS-AR6 / 007	PS-AR6 / 2/26/91 : 1430	S	TPH, PCB	/ ice			/	2-pt glass	
3		/ / :								
4		/ / :		PK						
5		/ / :								

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each											

Additional Analytes TPH - rush turnaround; PCB's normal turnaround

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____ (X), _____ (Y).

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GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job No. B91/936
Client Project No. 90C4217

Sample Origination & Shipping Information

Collection Site WAITE ROAD
Address WAITE ROAD (Street) CLIFTON PARK (City) NEW YORK (State) (Zip)
Collector PAUL KARETH (Print) Paul Kareth (Signature)

Bottles Prepared by _____ Rec'd by _____
Bottles Shipped to Client via _____ Seal/Shipping # _____
Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign Paul Kareth	1. Sign K Mulley GTC	3/1/91
for	for	17:25
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by _____ / / @ :

	Client I.D.# / Lab#	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	PS-AR7	PS-AR7 3/1/91 930	S	TPH, PCB	✓			✓	2 pt glass
2	PS-C-59	PS-C-59 3/1/91 1320	S	TPH, PCB	✓			✓	2 pt glass
3	PS-C-510	PS-C-510 3/1/91 1330	S	TPH, PCB	✓			✓	2 pt glass
4		/ / :							
5		/ / :							

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each		2									

Additional Analytes Hold PCB's

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____ (X), _____ (Y).

General Testing Corporation

GTC REPORT # R91/855, 936

SECTION F

DOCUMENTATION FILE

Presented in this section is all support documentation requested.

Documentation Provided:

( ) Chain of Custody Forms

( ) Analytical Request Forms

( ) Shipping Receipts

( ) Laboratory Receipt Log

(X) Laboratory Support Documentation

( ) Other:

STANDARDS DOCUMENTATION SHEET

Analysis: PCB By 8080 | Starting Date: 3/12/91

GC: HP5730A-A | Column: SP 2250/2401

Integrater: HP3392A | Temperature: 215 C

Included jobs: R91/0855

Initial Calibration

Date: 2/8/91 | Time: 23:10

Continuing Calibration

Date: 3/12/91 | Time: 09:22

Date: 3/12/91 | Time: 21:06

Date: | Time:

Date: | Time:

Date: | Time:

Date: | Time:

Date: | Time:

Date: | Time:

Date: | Time:

Date: | Time:

Analyst

General Testing corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: DAVE MASUCCI
Date: 3/12/91
Time: 21:06
Run #: 12

PCB's (8080/608)
CONTINUING CALIBRATION CHECK

Calibration Date: 2/8/91
Column: 1.95% SP2401/1.5% SP2250

Instrument ID: HP 5730A-A
Oven Temp: 210 C

Compound	Conc.	Retention Times	Area Units (x.0001)	New Response Factor	Initial Response Factor	%RSD
		12.67	226			
PCB 1260	500	14.19	167	0.814	0.911	11
		15.96	219			

Analyst

METHOD BLANK SUMMARY SHEET

Lab Name: General Testing corp. Contract:

Lab Code: GTC Case No.:_____ SAS No.:_____ SDG No.:_____

Lab Sample ID: R91/0855-Blk
Matrix: (soil/water) Soil
Date Extracted: 3/6/91
Date Analyzed: (1): 3/12/91
Time Analyzed: (1): 11:15
Instrument ID: (1): HP5730A-A
GC Column ID: (1): 2250/2401

Lab file ID:_____
Level: (low/med): Low
Extraction: (Sepf/Cont/Sonc):
Date Analyzed: (2): 3/13/91
Time Analyzed: (2) 17:33
Instrument ID: (2): HP5730A-A
GC Column ID: (2): 2100

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID.	DATE ANALYZED 1	DATE ANALYZED 2
	0855-R.S.	2/12/91	2/13/91
	0855-1	2/12/91	2/13/91
	0855-7	2/12/91	2/13/91
	0855-7MS	2/12/91	2/13/91
	0855-7MSD	2/12/91	2/13/91

COMMENTS:

FORM IV

2E - SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

Lab Code: GTC Case No.: _____ SAS No.: _____ SDG No.:

	EPA SAMPLE NO.	S1 (DBC) #	OTHER (TCMX) #
01	R91/0855-BLK	*	61
02	R91/0855-R.S.	78	74
03	R91/0855-1	63	80
04	R91/0855-7	91	68
05	R91/0855-7MS	114	96
06	R91/0855-7MSD	115	96
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

S1 (DBC) = Dibutylchlorendate
S2 (TCMX) = Tetrachloro-m-xylene
Column used to flag recovery values
D Surrogates diluted out
* = Surrogate out of Q.C. limits

ADVISORY QC LIMITS
TCMX (31-141)
DBC (24-150)

FORM II PEST-1
NYSDEC 8-83

- PCB EVALUATION STANDARDS SUMMARY
Evaluation of Retention Time Shift for Dibutylchlorendate

Lab Name: General Testing Corp. Contract: _____

Lab Code: GTC Case No.: _____ SAS No.: _____ SDG No.: ___

Instrument ID: HP5730A-A GC Column ID: 2250/2401

Dates of Analysis: 3/12/91 to 3/12/91

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	DILUTIONS
01	AR 1254 STD3	PCB 1254 500	3/12/91	09:22	(27.40)	
02		DB55-BLK	3/12/91	11:15	0.2	
03		0855-REF SPK	3/12/91	11:58	0.4	
04		0855-1	3/12/91	16:02	0.8	
05		0855-7	3/12/91	18:17	0.4	1/10
06		0855-7MS	3/12/91	19:17	0.4	1/10
07		0855-7MSD	3/12/91	09:22	0.3	1/10
08	AR 1660 STD3	PCB 1660 500	3/12/91	21:06	0.1	
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

* Values outside of QC limits (2.0% for packed columns, 1.0% for capillary columns)

FORM VIII PEST-1
NYSDEC B-105

NYSDEC Sample No._____

1O - PESTICIDE/PCB IDENTIFICATION

Lab Name: General Testing Corp. Contract: _____

Lab Code: GTC Case No.: _____ SAS No.: _____ SDG No.: ___

GC Column ID: (1): 2401/2250 GC Column ID: (2): 2100

Instrument ID (1): HP5730A-A Instrument ID (2): HP5730A-A

Lab Sample ID: R91/0855-1

Lab File ID: _____ (only if confirmed by GC/MS)

	PESTICIDE/PCB	RETENTION TIME		RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)	GC/MS (Y/N)
01	PCB 1242	Column 1	3.80	3.76	3.84	Y	__
02		Column 2	3.19	3.16	3.22	N	__
03	PCB 1260	Column 1	12.83	12.77	12.89	Y	__
04		Column 2	12.97	12.95	12.99	N	__
05	_____	Column 1	_____	_____	_____	__	__
06		Column 2	_____	_____	_____	__	__
07	_____	Column 1	_____	_____	_____	__	__
08		Column 2	_____	_____	_____	__	__
09	_____	Column 1	_____	_____	_____	__	__
10		Column 2	_____	_____	_____	__	__
11	_____	Column 1	_____	_____	_____	__	__
12		Column 2	_____	_____	_____	__	__

COMMENTS: _____

_____

NYSDEC Sample No._____

10 - PESTICIDE/PCB IDENTIFICATION

Lab Name: General Testing Corp. Contract: _____

Lab Code: GTC Case No.: _____ SAS No.: _____ SDG No.: ___

GC Column ID: (1): 2401/2250 GC Column ID: (2): 2100

Instrument ID (1): HP5730A-A Instrument ID (2): HP5730A-A

Lab Sample ID: R91/0855-7

Lab File ID: _____ (only if confirmed by GC/MS)

	PESTICIDE/PCB	RETENTION TIME		RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)	GC/MS (Y/N)
03	PCB 1260	Column 1	12.77	12.77	12.89	Y	__
04		Column 2	12.98	12.95	12.99	N	__
05	_____	Column 1	_____	_____	_____	__	__
06		Column 2	_____	_____	_____	__	__
05	_____	Column 1	_____	_____	_____	__	__
06		Column 2	_____	_____	_____	__	__
07	_____	Column 1	_____	_____	_____	__	__
08		Column 2	_____	_____	_____	__	__
09	_____	Column 1	_____	_____	_____	__	__
10		Column 2	_____	_____	_____	__	__
11	_____	Column 1	_____	_____	_____	__	__
12		Column 2	_____	_____	_____	__	__

COMMENTS: _____

_____

GENERAL TESTING CORPORATION
710 Exchange St.,Rochester, N.Y
(716)454-3760

Analyst: D. Masucci
Date: 3/14/91
Instrument: HP5730A-A
Date Extracted: 3/6/91

Client: WCC
Job#: R91/0855-7

PCB MATRIX SPIKE

Lab Name: General Testing Corp.
Lab Code:GTC Case No.:_____ SAS No.:_____

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONC. (ug/kg)	MS CONC. (ug/kg)	MS % REC	(#)	QC LIMITS % REC.
PCB 1016	-----	200 U	200 U			50-114
PCB 1221	-----	200 U	200 U			15-178
PCB 1232	-----	200 U	200 U			10-215
PCB 1242	-----	200 U	200 U			39-150
PCB 1248	-----	200 U	200 U			38-158
PCB 1254 Z	133	200 U	200 U		D	29-131
PCB 1260 ZA	-----	326	548			8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONC. (ug/kg)	MSD % REC.	(#)	RPD	(#)	QC LIMITS RPD	%REC
PCB 1016	-----	200 U					30	50-114
PCB 1221	-----	200 U					30	15-187
PCB 1232	-----	200 U					30	10-215
PCB 1242	-----	200 U					30	39-150
PCB 1248	-----	200 U					30	38-158
PCB 1254	133	200 U		D			30	29-131
PCB 1260	-----	590					30	8-127

Spike Recovery: 0 out of 2 outside limits.

RPD: 0 out of 1 outside limits.

COMMENTS:

Page 1 of 1

Analyst's Signature

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3750

LABORATORY REPORT

Analysis: PCB'S by 8080

ANALYST: D. MASUCCI
Date: 3/14/91
Instrument: HP5730A-A
Date Extracted: 3/6/91

Date Analyzed	Run #	Dil.
3/13/91	11	

Client: WCC
Job #: R91/0855-7MS

Cleanups: 6% + 15% fL / S=

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/l)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.01	10.0	200	U
PCB 1221			0.00	3.01	10.0	200	U
PCB 1232			0.00	3.01	10.0	200	U
PCB 1242			0.00	3.01	10.0	200	U
PCB 1248			0.00	3.01	10.0	200	U
PCB 1254			0.00	3.01	10.0	200	U
PCB 1260	SEE	ATTACHED	165	3.01	10.0	548	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.85	4.32	32.1	33.3	96	31-141	
Dibutylchlorendate	27.50	5.28	37.8	33.3	114	24-150	

Analyst

General Testing Corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analysis: PCB's By 8080

Analyst: D. Masucci
Date: 3/14/91
Instrument: HP5730A-A
Date Extracted: 3/6/91
Client: WCC
Job #: R91/0855-7MS

PCB 1260
MULTI-PEAK RESPONSE WORKSHEET

Pk. #	STD #1 R.T.	SAMPLE R.T.	SAMPLE AREA	R.F.		CONC. (ug/L)	Avg. CONC. (ug/L)
1	9.81	10.12	37.8	5.24		198	165
2	10.83	11.35	46.3	5.21	*	241	
3	12.19	12.75	60.9	2.43		148	
4	13.65	14.29	42.8	3.67		157	
5	15.34	16.03	70.6	3.15		222	
6	16.38	17.11	32.9	4.64		153	
7	19.77	20.62	21.9	7.86		172	
8	29.80	31.13	69.1	1.52		105	
9	39.44			13.4	*	0	
10	44.60			7.71	*	0	

* = Values not used when calculating average conc.

Analyst's Signature

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

Analysis: PCB'S by 8080

ANALYST: D. MASUCCI
Date: 3/14/91
Instrument: HP5730A-A
Date Extracted: 3/6/91

Date Analyzed	Run #	Dil.
3/12/91	11	

Client: WCC
Job #: R91/0855-7MSD

Cleanups: 6% + 15% fL / S=

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/l)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.01	10.0	200 U	
PCB 1221			0.00	3.01	10.0	200 U	
PCB 1232			0.00	3.01	10.0	200 U	
PCB 1242			0.00	3.01	10.0	200 U	
PCB 1248			0.00	3.01	10.0	200 U	
PCB 1254			0.00	3.01	10.0	200 U	
PCB 1260	SEE	ATTACHED	177	3.01	10.0	590	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.85	4.31	32.0	33.3	96	31-141	
Dibutylchlorendate	27.47	5.36	38.4	33.3	115	24-150	

Analyst

General Testing Corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analysis: PCB's By 8080

Analyst: D. Masucci
Date: 3/14/91
Instrument: HP5730A-A
Date Extracted: 3/6/91
Client: WCC
Job #: R91/0855-7MSD

PCB 1260
MULTI-PEAK RESPONSE WORKSHEET

Pk. #	STD #1 R.T.	SAMPLE R.T.	SAMPLE AREA	R.F.		CONC. (ug/L)	Avg. CONC. (ug/L)
1	9.81	10.12	37.7	5.24		197	177
2	10.83	11.35	46.1	5.21		240	
3	12.19	12.75	60.9	2.43		148	
4	13.65	14.29	42.6	3.67		156	
5	15.34	16.03	70.8	3.15		223	
6	16.38	17.10	34.3	4.64		159	
7	19.77	20.62	22.0	7.86		173	
8	29.80	31.13	78.3	1.52		119	
9	38.44			13.4	*	0	
10	44.60			7.71	*	0	

* = Values not used when calculating average conc.

Analyst's Signature

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3780

Analyst: Dave Masucci
Date: 3/12/91
Date Extracted: 3/6/91
Client: WCC
Job #: R91/0855-BLK

PCB Analysis - QC Summary
LAB BLANK & REFERENCE CHECK

Compound	Lab Blank Conc.	Reference Spike: True Conc. (ug/kg)	Reference Spike: Percent Recovery	Reference Spike: Acceptance Limit
PCB 1254	20.0 U	66.7	90	29-131

Surrogate Standards	Blank % Rec.	Amount Added	Percent Recovery	Acceptance Limit
Tetrachloro-m-xylene	61	33.3	74	31-141
Dibutylchlorendate	433	33.3	78	24-150

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: D. MASUCCI
Date: 3/12/91
Instrument ID: HP 5890A-A
Date Extracted: 3/6/91
Date Analyzed: 3/12/91

LABORATORY REPORT #2

Analysis: PCB'S by 8080

Cleanups: 6% + 15% fL / S=

Client: WCC
Job #: R91/0855-REF SPK
Run #: 4

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/l)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	1.0	20.0 U	
PCB 1221			0.00	3.00	1.0	20.0 U	
PCB 1232			0.00	3.00	1.0	20.0 U	
PCB 1242			0.00	3.00	1.0	20.0 U	
PCB 1248			0.00	3.00	1.0	20.0 U	
PCB 1254	SEE	ATTACHED	181	3.00	1.0	60.3	
PCB 1260			0.00	3.00	1.0	20.0 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	% Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.84	33.2	24.7	33.3	74	31-141	
Dibutylchlorendate	27.51	36.1	25.9	33.3	78	24-150	

Analyst

General Testing Corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analysis: PCB's By 8080

Analyst: D. Masucci
Date: 3/12/91
Instrument: HP5730A-A
Date Extracted: 3/6/91
Client: WCC
Job #: R91/0855-REF SPK

PCB 1254
MULTI-PEAK RESPONSE WORKSHEET #2

Pk. #	STD #1 R.T.	SAMPLE R.T.	SAMPLE AREA	R.F.		CONC. (ug/kg)	Avg. CONC. (ug/kg)
1	4.37	4.59	21.4	9.85		211	181
2	5.13	5.39	6.42	26.6		170	
3	6.55	6.86	50.3	6.01		302	
4	7.23	7.58	34.5	5.50		190	
5	8.97	8.99	2.11	8.12	*	17	
6	9.62	10.07	32.4	4.62		150	
7	10.90	11.40	70.6	2.99		211	
8	12.17	12.74	25.1	4.82		121	
9	13.65	14.27	37.6	3.73		140	
10	15.35	16.08	42.4	3.14		133	

Analyst's Signature

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

Analysis: PCB'S by 8080

ANALYST: D. MASUCCI
Date: 3/12/91
Instrument: HP5730A-A
Date Extracted: 3/6/91

Date Analyzed	Run #	Dil.
3/12/91	12	

Client: WCC
Job #: R91/0855-BLK

Cleanups: 6% + 15% fL / S=

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/l)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	1.0	20.0 U	
PCB 1221			0.00	3.00	1.0	20.0 U	
PCB 1232			0.00	3.00	1.0	20.0 U	
PCB 1242			0.00	3.00	1.0	20.0 U	
PCB 1248			0.00	3.00	1.0	20.0 U	
PCB 1254			0.00	3.00	1.0	20.0 U	
PCB 1260			0.00	3.00	1.0	20.0 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.84	27.2	20.2	33.3	61	31-141	
Dibutylchlorendate	27.45	201	144	33.3	433	24-150	t

t = Surrogate matrix interference suspected.

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3780

LABORATORY REPORT

Analysis: PCB'S by 8080

ANALYST: D. MASUCCI
Date: 3/14/91
Instrument: HP5730A-A
Date Extracted: 3/6/91
Date Analyzed: 3/12/91 | Run #: 7 | Dil.

Client: WCC
Job #: R91/0855-1

Cleanups: 6% + 15% fL / S= x 3

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/l)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	1.0	20.0 U	
PCB 1221			0.00	3.00	1.0	20.0 U	
PCB 1232			0.00	3.00	1.0	20.0 U	
PCB 1242	SEE	ATTACHED	434	3.00	1.0	147	
PCB 1248			0.00	3.00	1.0	20.0 U	
PCB 1254			0.00	3.00	1.0	20.0 U	
PCB 1260	SEE	ATTACHED	212	3.00	1.0	70.7	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.87	36.0	26.8	33.3	80	31-141	
Dibutylchlorendate	27.63	29.1	20.9	33.3	63	24-150	

Analyst

General Testing Corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analysis: PCB's By 8080

Analyst: D. Masucci
Date: 3/14/91
Instrument: HP5730A-A
Date Extracted: 3/6/91
Client: WCC
Job #: R91/0855-1

PCB 1242
MULTI-PEAK RESPONSE WORKSHEET

Pk. #	STD #1 R.T.	SAMPLE R.T.	SAMPLE AREA	R.F.		CONC. (ug/L)	Avg. CONC. (ug/L)
1	2.27	2.48	37.6	11.3		423	434
2	2.83	3.00	48.2	8.73		421	
3	3.25	3.44	14.4	26.9		388	
4	3.59	3.80	80.9	4.53		366	
5	3.91	4.13	21.9	17.4		381	
6	4.42	4.67	35.3	12.5		439	
7	5.16	5.44	26.1	15.6		408	
8	5.49	5.79	17.8	24.1		429	
9	6.39	6.77	52.7	12.4		652	
10	7.45			7.5	*	0	
	9.64			39.5	*	0	
	10.90			20.2	*	0	

* = Values not used when calculating average conc.

Analyst's Signature

General Testing Corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analysis: PCB's By 8080

Analyst: D. Masucci
Date: 3/14/91
Instrument: HP5730A-A
Date Extracted: 3/6/91
Client: WCC
Job #: R91/0855-1

PCB 1260
MULTI-PEAK RESPONSE WORKSHEET

Pk. #	STD #1 R.T.	SAMPLE R.T.	SAMPLE AREA	R.F.		CONC. (ug/L)	Avg. CONC. (ug/L)
1	9.81	10.16	40.3	5.24		211	212
2	10.83	11.41	56.3	5.21		293	
3	12.19	12.83	62.6	2.43		152	
4	13.65	14.34	53.4	3.67		196	
5	15.34	16.14	64.8	3.15		204	
6	16.38	17.22	47.8	4.64		222	
7	19.77	20.78	26.8	7.86		211	
8	29.80	31.28	137	1.52		208	
9	39.44			13.4	*	0	
10	44.60			7.71	*	0	

* = Values not used when calculating average conc.

Analyst's Signature

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

Analysis: PCB'S by 8080

ANALYST: D. MASUCCI
Date: 3/14/91
Instrument: HP5730A-A
Date Extracted: 3/6/91

Date Analyzed	Run #	Dil.
3/12/91	9	

Client: WCC
Job #: R91/0855-7

Cleanups: 6% + 15% fL / S=

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/l)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.01	10	200 U	
PCB 1221			0.00	3.01	10	200 U	
PCB 1232			0.00	3.01	10	200 U	
PCB 1242			0.00	3.01	10	200 U	
PCB 1248			0.00	3.01	10	200 U	
PCB 1254			0.00	3.01	10	200 U	
PCB 1260	SEE	ATTACHED	98	3.01	10	327	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.85	3.05	22.7	33.3	68	31-141	
Dibutylchlorendate	27.50	4.22	30.2	33.3	91	24-150	

Analyst

General Testing Corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analysis: PCB's By 8080

Analyst: D. Masucci
Date: 3/14/91
Instrument: HP5730A-A
Date Extracted: 3/6/91
Client: WCC
Job #: R91/0855-7

PCB 1260
MULTI-PEAK RESPONSE WORKSHEET

Pk. #	STD #1 R.T.	SAMPLE R.T.	SAMPLE AREA	R.F.		CONC. (ug/L)	Avg. CONC. (ug/L)
1	9.81	10.33	19.2	5.24		101	98
2	10.83	11.35	20.7	5.21		108	
3	12.19	12.77	37.6	2.43		91	
4	13.65	14.29	19.3	3.67		71	
5	15.34	16.04	35.9	3.15		113	
6	16.38	17.12	24.8	4.64		115	
7	19.77	20.66	13.6	7.86		107	
8	29.80	31.15	51.5	1.52		78	
9	39.44			13.4	*	0	
10	44.60			7.71	*	0	

* Values not used when calculating average conc.

Analyst's Signature

CLIENT: WCC JOB#: R91/855 METHOD: PCB E.T.II EXTRACTION: 3550

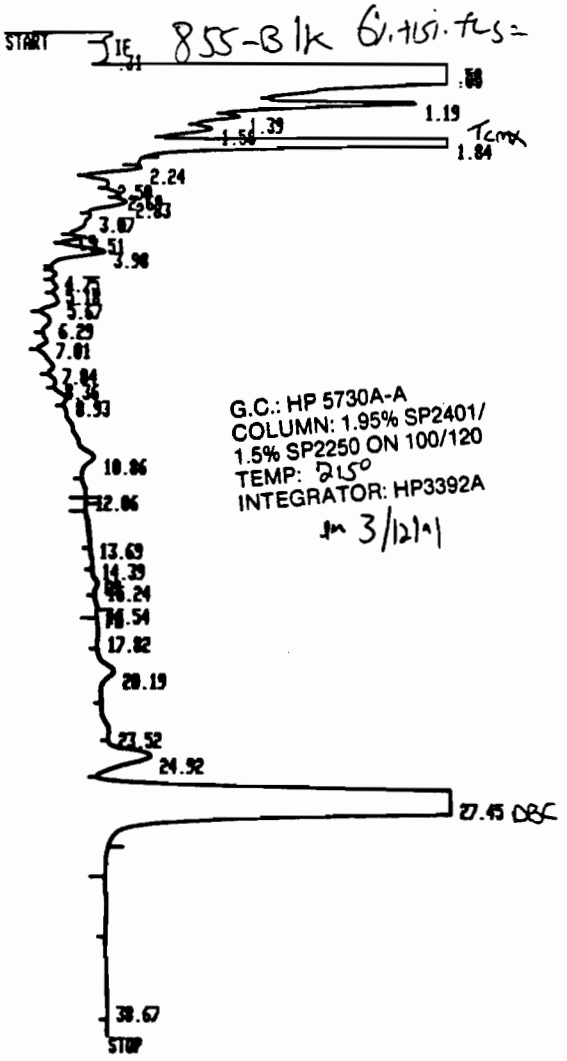
SAMPLE #	INITIAL WT. OR VOL.	EXTRACT. FINAL VOL.	APPEARANCE	SPIKE ADDED	CONC. DATE	PRIMARY CLEAN-UP	DATE	DILUTION & SECONDARY CLU.	DATE	COMMENTS	DATE DONE
1 ✓	30.05g	[illegible]	Black Soil	For 7ms, 7msD	3/11/91	[illegible]	3/11	[illegible]	3/12		3/12
7 ✓	30.07g	↓	Brown Clay	1ml PCB 1254	↓	↓	↓		↓	Possible loss of surrogate in # 7MS	↓
7msD ✓	30.06g	↓	" "	Sample Spk	↓	↓	↓		↓		↓
7msD	30.02g	↓	" "	4.00ppm PCB 1254	↓	↓	↓		↓		↓
Blk ✓	–	↓		in MeOH p201	↓	↓	↓		↓		↓
Ref		↓		2/27/91 PDH	↓	↓	↓		↓		↓
				For Ref Spk							
				1ml PCB 1254							
				Ref Spk							
				2.00ppm PCB 1254							
				2/27/91 p201							
				PDH (VD)							

DATE EXTRACTED: 3/6/91 MISC. [illegible]2/6/91

CLIENT: WCC R91/855 ANALYSIS: PCB ET. II ANALYST: M. Liberty

SURROGATE: 1 ml Pest/PCB Surr 1.0 ppm DBC + TCMX M. Cymbal 3/1/91 in MeOH p202 PDH/M

METHOD SUMMARY:
Sonicate 30g Sample with 60g Na_2SO_4 using 1:1 $MeCl_2$: acetone 3x's For 3min each time

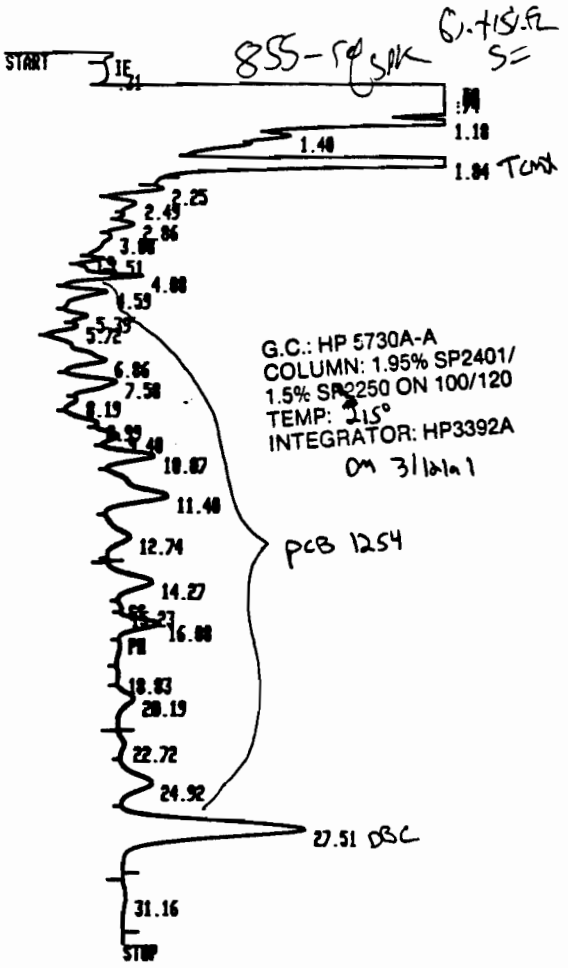


RUN # 3 MAR/12/91 11:15:44
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.31	31561	BB	0.269	0.112
0.58	2506200	SPB	0.053	8.915
1.19	307220	BB	0.099	1.093
1.39	31588	BB	0.069	0.112
1.58	52293	BB	0.105	0.186
1.84	2717500	BB	0.104	9.667
2.24	34834	BB	0.099	0.124
2.50	22668	BB	0.125	0.081
2.69	8688	BB	0.079	0.031
2.83	45854	BB	0.124	0.163
3.07	30931	BB	0.318	0.110
3.51	40238	BB	0.144	0.143
3.98	287570	BB	0.326	1.023
4.75	12981	PB	0.146	0.046
5.18	18793	BB	0.211	0.067
5.67	78453	BB	0.357	0.279
6.29	60352	BB	0.368	0.215
7.01	37954	BB	0.281	0.135
7.84	65890	BB	0.456	0.234
8.36	15358	BB	0.239	0.055
8.93	33762	BB	0.282	0.120
10.86	262700	BB	0.798	0.935
12.86	8488	BB	0.381	0.030
13.69	16101	PB	1.137	0.057
14.39	5174	BB	0.369	0.018
15.24	41658	BB	0.485	0.148
17.82	26246	BB	0.859	0.093
20.19	252360	BB	0.984	0.898
23.52	10703	BB	0.194	0.038
24.92	878460	BB	0.966	3.125
27.45	2.0129E+07	BB	1.238	71.605
38.67	39655	PB	2.682	0.141

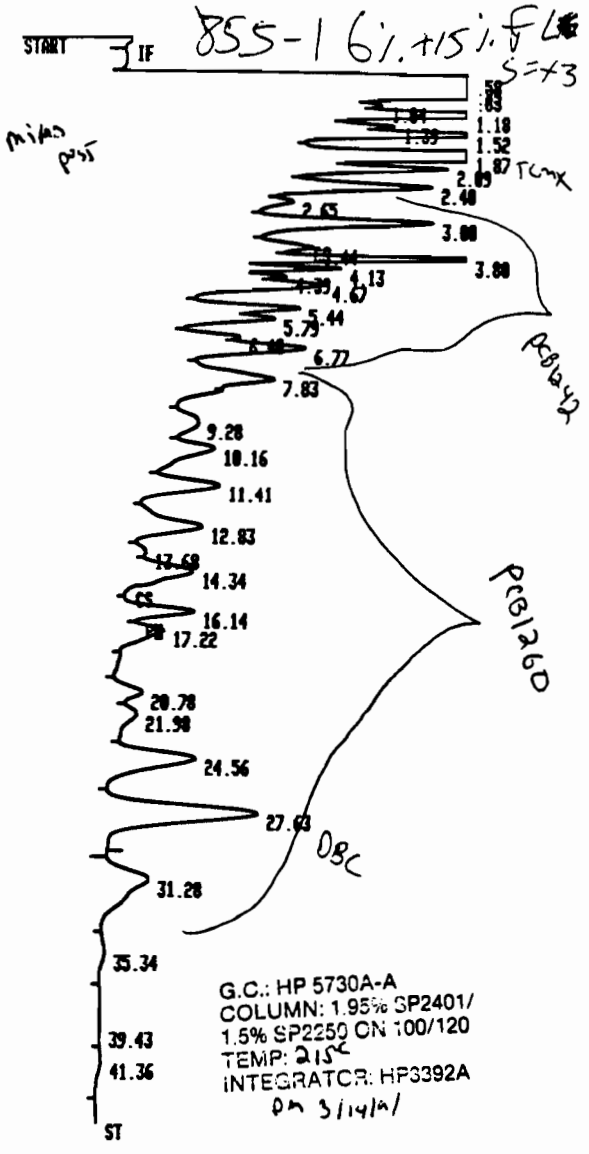
TOTAL AREA= 2.8111E+07



RUN # 4 MAR/12/91 11:58:24
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.31	32152	BB	0.280	0.226
0.58	1471000	BB	0.848	10.348
0.65	442270	BB	0.834	3.109
1.18	356910	BB	0.886	2.509
1.40	45975	BB	0.082	0.323
1.84	3319600	PB	0.103	23.339
2.25	46640	BB	0.098	0.328
2.49	49093	BB	0.125	0.345
2.86	46981	VB	0.123	0.330
3.08	31410	BB	0.231	0.221
3.51	43476	BB	0.144	0.306
4.08	307300	BB	0.228	2.161
4.59	213760	BB	0.269	1.503
5.39	64169	BB	0.191	0.451
5.72	50421	BB	0.211	0.355
6.86	503150	BB	0.587	3.538
7.58	344760	BB	0.391	2.424
8.19	22141	BB	0.216	0.156
8.99	21070	BB	0.155	0.148
9.40	107100	BB	0.286	0.753
10.07	324460	BB	0.349	2.281
11.40	705060	BB	0.616	4.963
12.74	251410	BB	0.560	1.768
14.27	375520	PB	0.516	2.640
15.23	10200	BB	0.315	0.072
16.08	424010	BB	0.589	2.981
18.83	18500	PB	0.567	0.131
20.19	254100	BB	0.840	1.787
22.72	72470	PB	0.742	0.510
24.92	594590	BB	1.026	4.100
27.51	3609000	BB	1.062	25.374
31.16	62852	BB	1.056	0.442



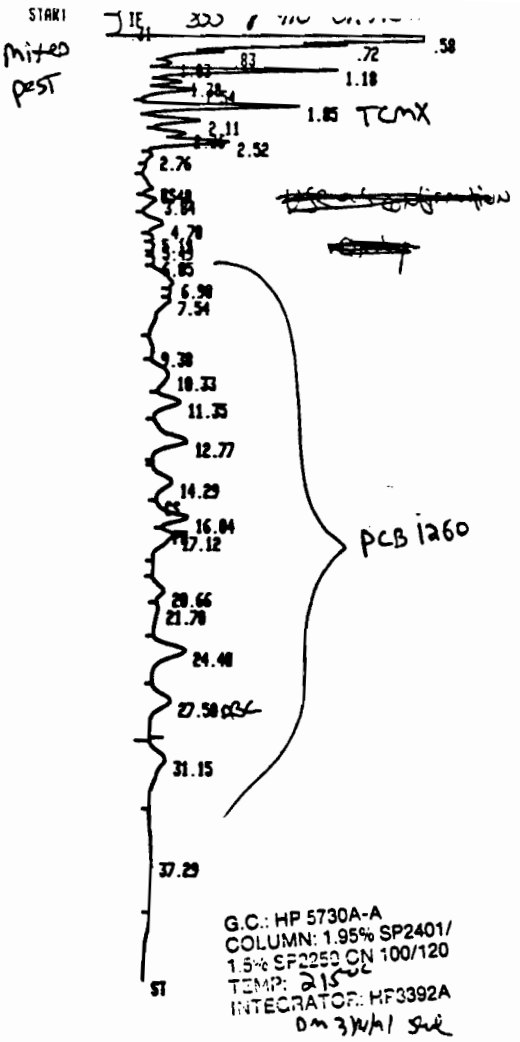
RUN # 7 MAR/12/91 16:02:58
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.58	4992200	SPB	0.875	20.452
0.73	788210	BB	0.049	3.229
0.83	57937	BB	0.014	0.237
1.04	12796	BB	0.055	0.052
1.18	484190	BB	0.087	1.984
1.39	35008	BB	0.059	0.143
1.52	295150	BB	0.089	1.209
1.87	3599300	BB	0.104	14.746
2.09	228660	BB	0.102	0.937
2.48	376440	BB	0.140	1.542
2.65	45796	BB	0.109	0.188
3.00	481750	BB	0.150	1.974
3.44	143950	BB	0.194	0.590
3.88	809300	BB	0.154	3.316
4.13	219390	BB	0.142	0.899
4.39	43568	BB	0.105	0.179
4.67	353340	BB	0.257	1.448
5.44	268880	BB	0.196	1.069
5.79	177600	BB	0.200	0.728
6.40	52145	BB	0.158	0.214
6.77	526960	BB	0.329	2.159
7.83	409010	BB	0.366	1.676
9.28	228640	PB	0.588	0.937
10.16	402660	BB	0.584	1.650
11.41	563030	BB	0.446	2.307
12.83	626100	BB	0.531	2.565
13.68	22585	BB	0.273	0.093
14.34	534200	BB	0.520	2.189
16.14	647520	BB	0.562	2.653
17.22	478520	BB	0.785	1.960
20.78	268220	PB	0.665	1.099
21.98	215100	BB	0.822	0.881
24.56	1532880	BB	1.027	6.280
27.63	2912300	BB	1.050	11.932
31.28	1373200	BB	1.668	5.626
35.34	109200	BB	1.275	0.447
39.43	35329	BB	1.840	0.145
41.36	65757	BB	1.219	0.269

TOTAL AREA= 2.4409E+07
MUL FACTOR= 1.0000E+00

000061

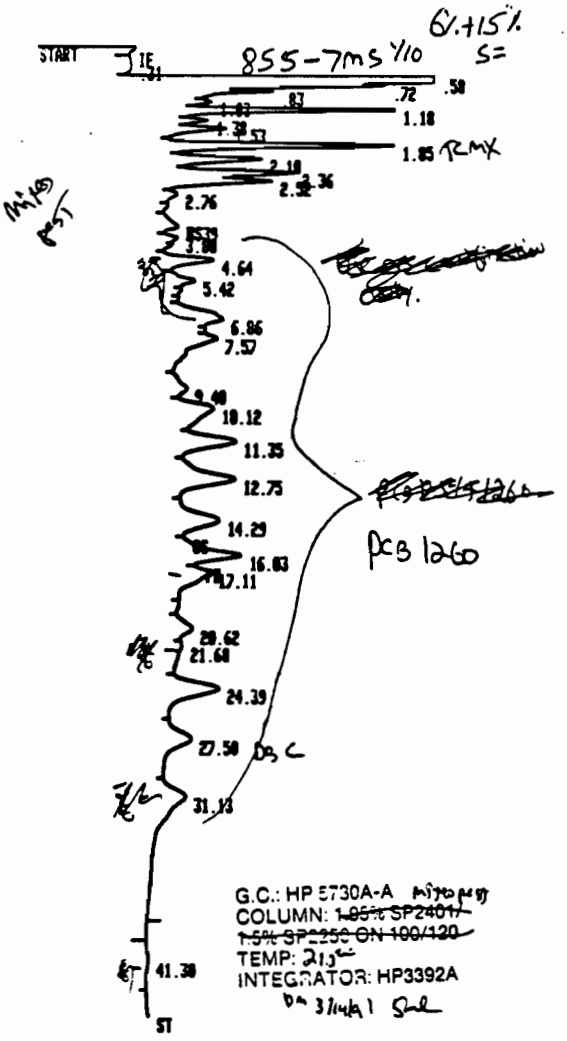


RUN # 9 MAR/12/91 18:17:04
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.31	28235	BB	0.285	0.448
0.58	1429100	BB	0.076	22.246
0.72	61406	BB	0.042	0.956
0.83	20003	BB	0.032	0.311
1.03	16124	BB	0.071	0.251
1.18	283710	BB	0.077	4.416
1.38	33966	BB	0.069	0.529
1.54	84003	BB	0.092	1.308
1.85	305370	BB	0.095	4.753
2.11	108890	BB	0.107	1.695
2.36	31243	BB	0.002	0.486
2.52	137610	BB	0.104	2.142
2.76	9735	BB	0.102	0.152
3.48	43205	PB	0.221	0.673
3.84	79894	BB	0.302	1.244
4.70	109940	BB	0.321	1.711
5.19	10949	BB	0.150	0.170
5.49	7114	BB	0.148	0.111
6.05	7439	PB	0.202	0.116
6.90	86866	BB	0.551	1.340
7.54	27076	VB	0.213	0.422
9.38	25365	BB	0.443	0.395
10.33	191930	BB	0.659	2.988
11.35	206620	BB	0.416	3.216
12.77	376130	BB	0.539	5.855
14.29	193000	PB	0.539	3.004
16.04	358730	BB	0.628	5.584
17.12	248470	BB	0.841	3.868
20.66	135750	PB	0.716	2.113
21.78	34409	BB	0.668	0.536
24.48	626680	BB	0.937	9.755
27.58	421980	BB	1.037	6.568
31.15	515240	BB	1.538	8.020
37.29	168960	BB	3.507	2.630

TOTAL AREA= 6424400
MUL FACTOR= 1.0000E+00

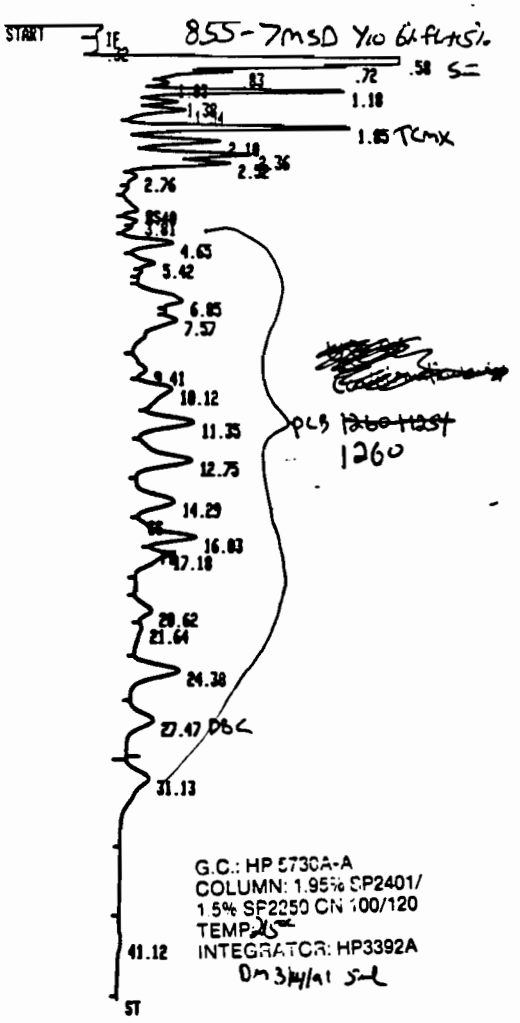


RUN # 18 MAR/12/91 19:17:27
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.31	26978	BB	0.282	0.269
0.58	2176900	BB	0.875	21.734
0.72	37642	D BB	0.838	0.376
0.83	37652	BB	0.841	0.376
1.03	20132	BB	0.869	0.201
1.18	323810	BB	0.876	3.225
1.38	31106	BB	0.869	0.311
1.53	91384	BB	0.894	0.912
1.85	432340	BB	0.894	4.316
2.10	187760	BB	0.111	1.875
2.36	162600	BB	0.894	1.623
2.52	112610	BB	0.887	1.124
2.76	18895	BB	0.108	0.189
3.39	65187	PB	0.212	0.651
3.80	27591	BB	0.149	0.276
4.64	297930	PB	0.387	2.975
5.42	91985	BB	0.246	0.918
6.86	251670	PB	0.470	2.513
7.57	149740	VB	0.339	1.495
9.40	95778	BB	0.436	0.956
10.12	377610	BB	0.567	3.770
11.35	463860	BB	0.439	4.623
12.75	689840	BB	0.541	6.881
14.29	428430	BB	0.552	4.277
16.83	786150	BB	0.670	7.850
17.11	329440	BB	0.813	3.289
20.62	219540	PB	0.766	2.192
21.68	48485	BB	0.734	0.484
24.39	910880	BB	0.930	9.093
27.50	528460	BB	1.034	5.276
31.13	691380	BB	1.343	6.903
41.38	65089	BB	1.296	0.650

TOTAL AREA= 1.0016E+07
MUL FACTOR= 1.0000E+00

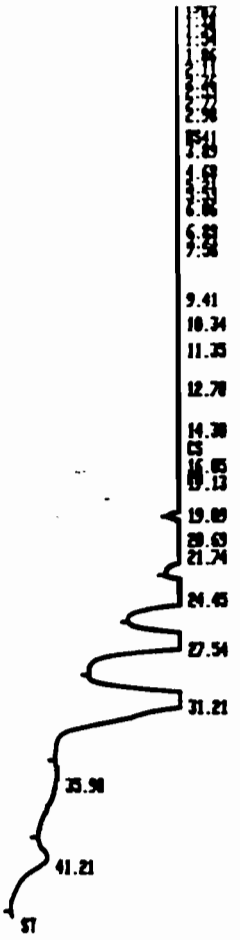


RUN # 11 MAR/12/91 20:17:50
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.32	26178	BB	0.277	0.259
0.58	2164100	BB	0.076	21.391
0.72	38758	D BB	0.039	0.383
0.83	37014	BB	0.042	0.366
1.03	18290	BB	0.068	0.181
1.18	312980	BB	0.078	3.094
1.38	45265	BB	0.072	0.447
1.54	84812	BB	0.092	0.838
1.85	431200	BB	0.096	4.262
2.10	186220	BB	0.112	1.841
2.36	156810	BB	0.094	1.550
2.52	111810	BB	0.088	1.105
2.76	17532	BB	0.107	0.173
3.40	64597	PB	0.214	0.639
3.81	28419	BB	0.154	0.281
4.65	298870	PB	0.389	2.954
5.42	98217	BB	0.243	0.892
6.85	250410	PB	0.470	2.475
7.57	142250	VB	0.325	1.406
9.41	95636	BB	0.438	0.945
10.12	377090	BB	0.569	3.727
11.35	460810	BB	0.437	4.555
12.75	689180	BB	0.540	6.821
14.29	426550	BB	0.553	4.216
16.83	708160	BB	0.668	7.000
17.18	343310	BB	0.839	3.393
20.62	219880	PB	0.766	2.173
21.64	52585	BB	0.787	0.520
24.38	903900	BB	0.927	8.935
27.47	535510	BB	1.033	5.293
31.13	783290	BB	1.529	7.742
41.12	95339	VB	1.662	0.942

TOTAL AREA= 1.0117E+07
MUL FACTOR= 1.0000E+00



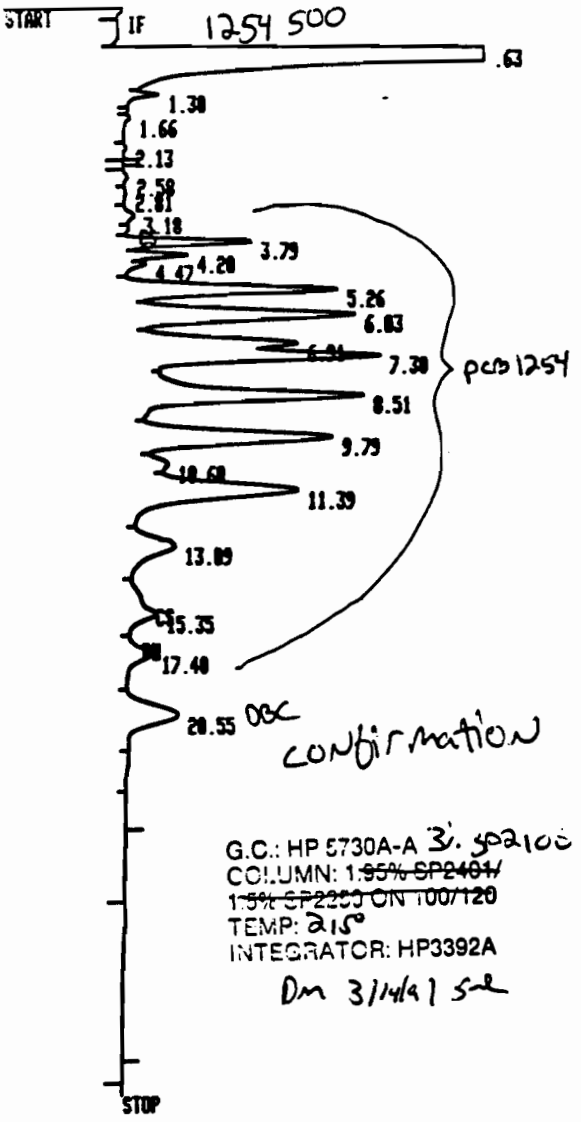
RUN # 6 MAR/12/91 13:34:31
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.32	26756	BB	0.283	0.055
0.59	4056300	BB	0.891	8.364
0.73	537290	BB	0.046	1.108
0.83	220870	BB	0.043	0.455
0.92	203740	BB	0.053	0.420
1.03	68148	BB	0.058	0.141
1.18	1260000	BB	0.079	2.598
1.39	404700	BB	0.076	0.835
1.54	607590	BB	0.086	1.253
1.86	3049000	BB	0.100	6.289
2.11	1048100	BB	0.109	2.161
2.36	436950	BB	0.086	0.901
2.53	1273100	BB	0.104	2.625
2.77	139910	BB	0.108	0.289
2.98	34345	BB	0.092	0.071
3.41	398860	BB	0.211	0.822
3.89	1139000	BB	0.279	2.349
4.68	992080	BB	0.382	2.046
5.21	36704	BB	0.138	0.076
5.53	167120	BB	0.254	0.345
6.06	103330	BB	0.197	0.213
6.89	729620	BB	0.519	1.505
7.23	50380	BB	0.177	0.104
9.41	214450	BB	0.449	0.442
10.34	1734700	BB	0.672	3.577
11.35	1828700	BB	0.419	3.771
12.78	3331200	BB	0.545	6.869
14.38	1848900	PB	0.536	3.812
16.05	3519200	BB	0.671	7.257
17.13	2177600	BB	0.844	4.490
19.89	170910	BB	0.649	0.352
20.69	1225400	BB	0.783	2.527
21.74	327000	BB	0.696	0.674
24.45	6001000	BB	0.964	12.376
27.54	3289200	BB	1.026	6.782
31.21	4965700	BB	1.515	10.239
35.98	349410	BB	2.706	0.721
41.21	528070	BB	1.397	1.089

TOTAL AREA= 4.8497E+07
MUL FACTOR= 1.0000E+00

000065



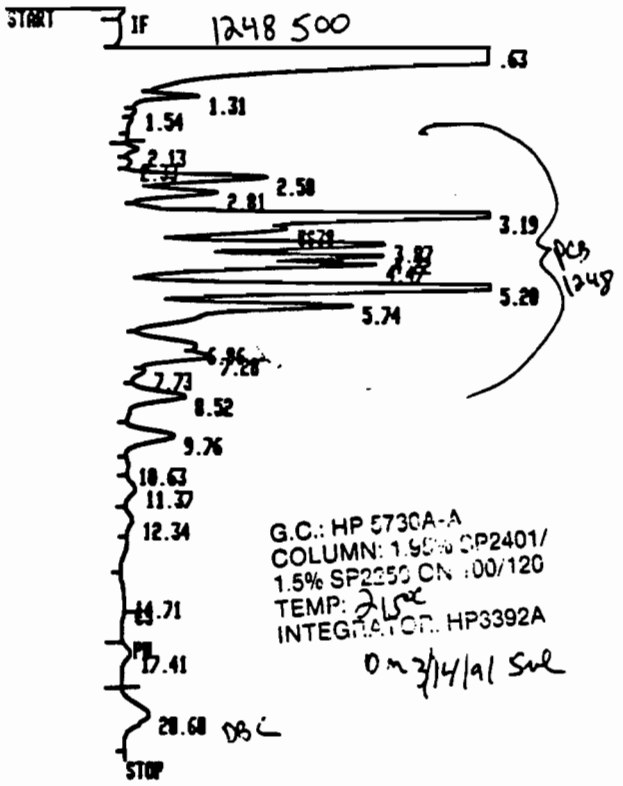
RUN # 2 MAR/13/91 09:40:45
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.63	4.5794E+07	†SPB	0.896	81.885
1.38	26543	BB	0.065	0.047
2.58	8018	PB	0.115	0.014
3.18	15336	BB	0.116	0.027
3.79	381970	PB	0.184	0.682
4.20	135910	BB	0.158	0.243
4.47	16497	BB	0.107	0.030
5.26	1052000	BB	0.384	1.879
6.03	1335480	BB	0.371	2.386
6.91	255850	BB	0.238	0.457
7.38	637590	BB	0.242	1.139
8.51	1461600	BB	0.401	2.611
9.79	1389600	BB	0.436	2.482
10.68	54368	BB	0.287	0.097
11.39	1247900	BB	0.501	2.229
13.09	441660	BB	0.621	0.789
15.35	423260	BB	0.933	0.756
17.40	317680	BB	0.783	0.568
20.55	984670	BB	1.127	1.759

TOTAL AREA= 5.5980E+07
MUL FACTOR= 1.0000E+00

000066

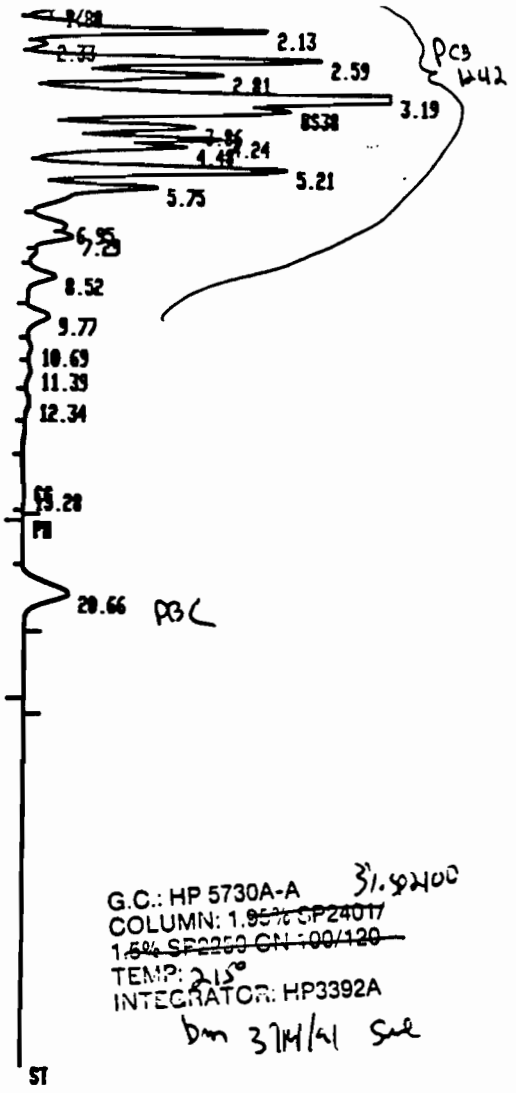


RUN # 3 MAR/13/91 10:22:10
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.63	5.4920E+07	†SPB	0.115	88.019
1.31	62692	BB	0.069	0.101
2.13	18268	BB	0.093	0.029
2.33	6570	BB	0.087	0.011
2.58	246890	BB	0.115	0.396
2.81	137910	BB	0.110	0.221
3.19	772510	BB	0.128	1.238
3.38	71659	BB	0.174	0.115
3.87	753760	BB	0.240	1.208
4.22	308430	BB	0.143	0.494
4.47	311660	BB	0.144	0.500
5.20	2070400	BB	0.298	3.318
5.74	1038800	BB	0.322	1.652
6.96	69823	BB	0.252	0.112
7.28	144770	BB	0.233	0.232
7.73	16349	BB	0.182	0.026
8.52	359000	BB	0.377	0.575
9.76	344070	BB	0.414	0.551
10.63	10155	BB	0.292	0.016
11.37	73623	BB	0.446	0.118
12.34	48582	BB	0.429	0.078
14.71	22440	PB	0.710	0.036
17.41	90121	BB	0.649	0.144
20.68	505500	BB	1.115	0.810

TOTAL AREA= 6.2396E+07
MUL FACTOR= 1.0000E+00

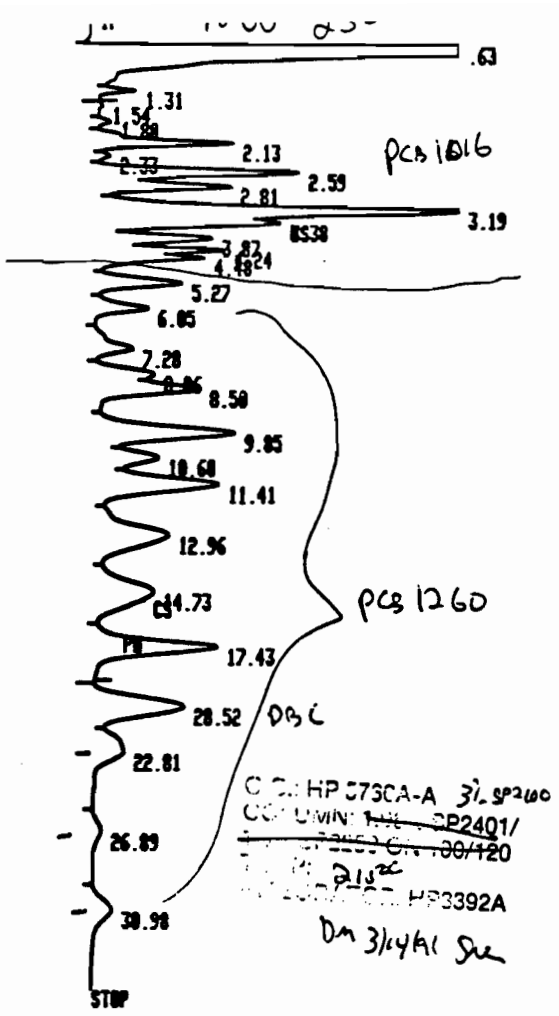


RUN # 4 MAR/13/91 10:46:16
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.64	4.8662E+07	†SPB	0.102	88.289
1.31	57418	BB	0.069	0.104
1.88	29484	BB	0.077	0.054
2.13	488138	BB	0.123	0.886
2.33	16957	BB	0.080	0.031
2.59	488438	BB	0.114	0.886
2.81	266878	BB	0.108	0.483
3.19	852888	BB	0.129	1.546
3.38	182938	BB	0.160	0.332
3.86	452988	BB	0.231	0.822
4.24	261878	BB	0.150	0.474
4.48	143888	BB	0.124	0.260
5.21	1181988	BB	0.292	2.144
5.75	557488	BB	0.389	1.012
6.95	47968	BB	0.247	0.087
7.29	79828	BB	0.231	0.145
8.52	176998	PB	0.385	0.321
9.77	158968	BB	0.423	0.288
10.69	19343	BB	0.337	0.035
11.39	24423	BB	0.381	0.044
12.34	29719	BB	0.443	0.054
15.28	37289	PB	1.256	0.068
20.66	902488	PB	1.168	1.637

TOTAL AREA= 5.5117E+07
MUL FACTOR= 1.0000E+00

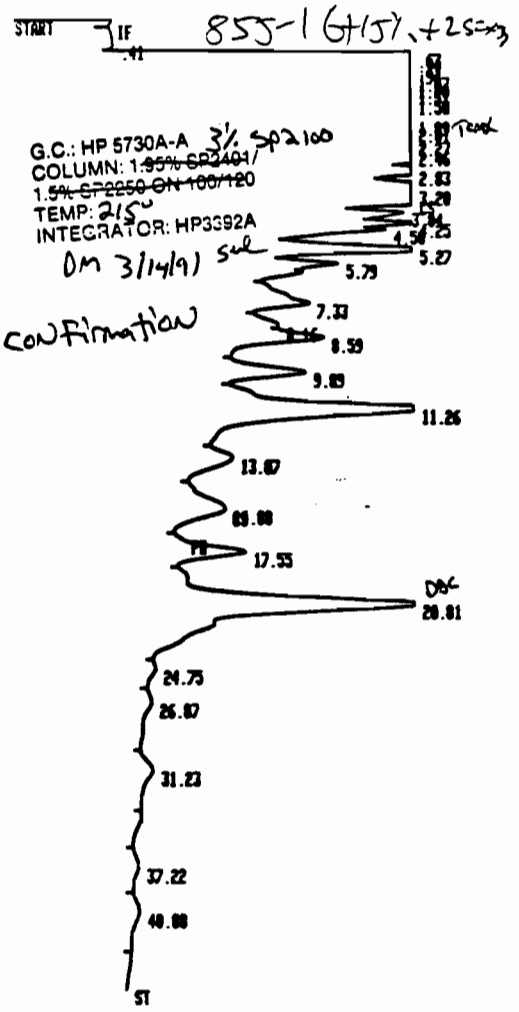


RUN # 5 MAR/13/91 11:42:02
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.63	3.4828E+07	TSPB	0.873	75.375
1.31	35348	BB	0.066	0.077
1.80	17095	BB	0.081	0.037
2.13	268690	BB	0.120	0.582
2.33	12180	BB	0.082	0.026
2.59	337050	BB	0.115	0.730
2.81	182090	BB	0.108	0.394
3.19	593200	BB	0.129	1.284
3.38	121420	BB	0.159	0.263
3.87	314690	BB	0.234	0.681
4.24	165550	BB	0.148	0.358
4.48	87683	BB	0.111	0.190
5.27	424900	BB	0.388	0.920
6.05	256260	BB	0.298	0.555
7.28	246580	BB	0.394	0.534
8.06	83505	BB	0.233	0.181
8.50	292720	BB	0.256	0.634
9.85	882880	BB	0.422	1.911
10.68	212210	BB	0.339	0.459
11.41	813200	BB	0.464	1.760
12.96	823850	BB	0.744	1.783
14.73	903340	BB	1.000	1.956
17.43	1689400	BB	0.820	3.657
20.52	1486000	PB	1.031	3.217
22.81	470110	BB	1.184	1.018
26.89	191090	BB	1.224	0.414
30.98	464870	BB	1.364	1.006

TOTAL AREA= 4.6196E+07
MUL FACTOR= 1.0000E+00

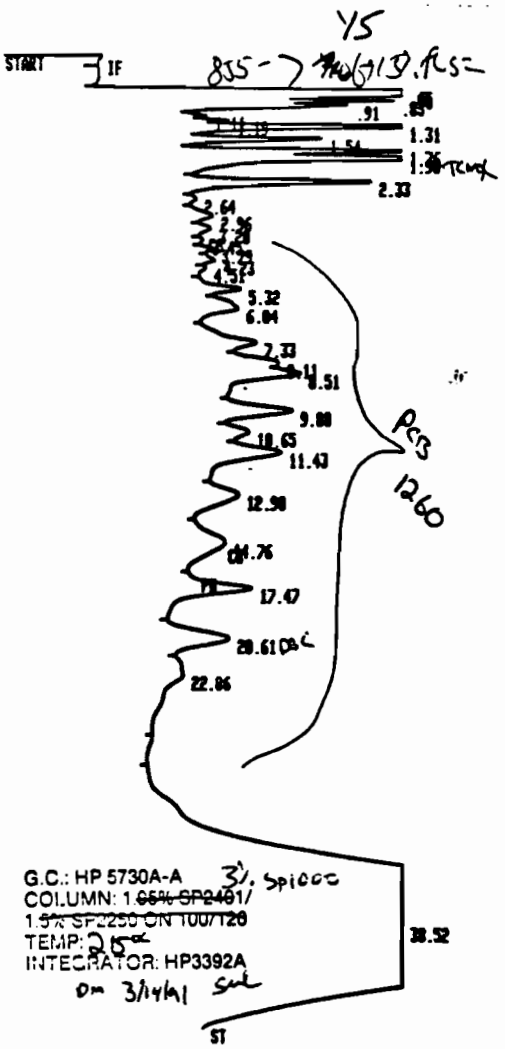


RUN # 9 MAR/13/91 13:44:06
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.41	25343	BB	0.290	0.074
0.63	1820880	BB	0.059	5.338
0.71	299760	BB	0.036	0.879
0.79	300340 D	BB	0.140	0.881
0.94	169110	BB	0.057	0.496
1.07	130830	BB	0.059	0.381
1.20	108170	BB	0.046	0.317
1.31	595670	BB	0.068	1.746
1.50	3966300	BB	0.093	11.627
1.69	2790100	BB	0.120	8.179
2.01	445520	BB	0.032	1.306
2.27	27549	BB	0.056	0.081
2.46	1775600	BB	0.222	5.205
2.83	380960	BB	0.112	1.117
3.20	4188600	BB	0.215	12.256
3.84	196850	BB	0.215	0.575
4.25	166790	BB	0.151	0.489
4.58	105240	BB	0.156	0.309
5.27	1094300	BB	0.316	3.208
5.79	199420	BB	0.209	0.585
7.33	683230	PB	0.534	1.768
8.16	33844	BB	0.360	0.097
8.59	409640	BB	0.318	1.201
9.89	686570	BB	0.432	2.013
11.26	2892200	BB	0.654	8.479
13.07	420260	BB	0.661	1.232
14.88	908660	BB	1.015	2.664
17.55	1147200	BB	0.799	3.363
20.81	7272000	BB	1.346	21.318
24.75	75335	BB	0.792	0.221
26.87	145510	BB	1.176	0.427
31.23	355700	BB	1.400	1.043
37.22	154540	PB	1.317	0.453
40.00	230500	BB	1.546	0.676

TOTAL AREA= 3.4112E+07
MUL FACTOR= 1.0000E+00



RUN # 10 MAR/13/91 14:42:38
WORKFILE ID: C
WORKFILE NAME:

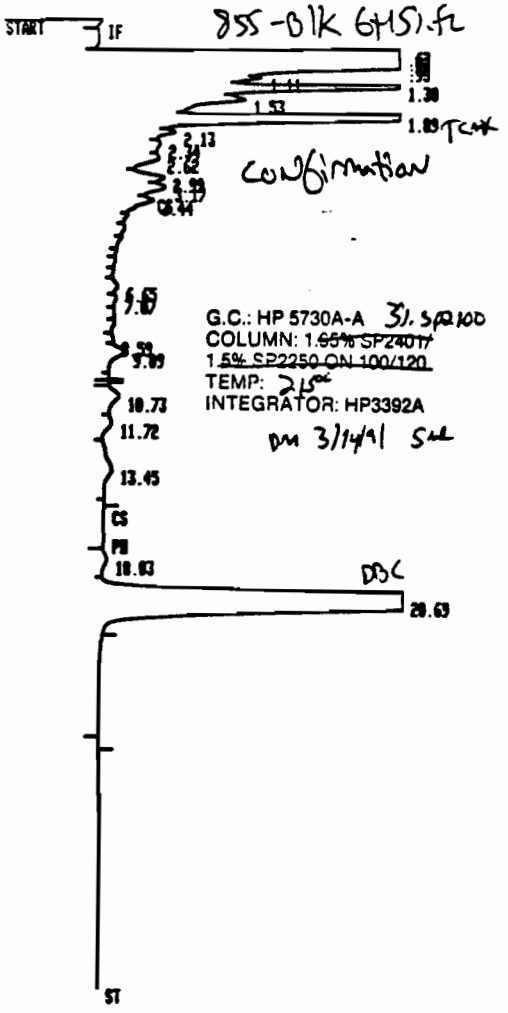
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.65	158840	PB	0.072	0.159
0.78	126410	BB	0.045	0.133
0.83	88020	BB	0.041	0.084
0.91	87164	BB	0.059	0.092
1.11	9465	BB	0.044	0.010
1.19	18885	BB	0.041	0.019
1.31	459388	BB	0.076	0.484
1.54	221170	BB	0.083	0.233
1.76	275690	BB	0.070	0.290
1.98	364080	BB	0.068	0.384
2.33	446280	BB	0.120	0.470
2.64	12771	BB	0.100	0.014
2.96	56265	BB	0.155	0.059
3.20	31663	BB	0.123	0.033
3.45	13841	BB	0.142	0.014
3.79	31681	BB	0.143	0.033
4.23	44651	BB	0.193	0.047
4.51	13175	BB	0.152	0.014
5.32	157380	BB	0.231	0.166
6.04	301340	BB	0.456	0.317
7.33	251200	BB	0.367	0.265
8.11	68641	BB	0.282	0.072
8.51	94234	BB	0.126	0.099
9.88	557830	BB	0.485	0.588
10.65	137070	BB	0.340	0.144
11.43	494100	BB	0.436	0.521
12.98	483580	BB	0.665	0.509
14.76	723520	BB	1.038	0.762
17.47	1181400	BB	0.792	1.244
20.61	1160900	BB	0.979	1.223
22.86	396220	BB	1.382	0.417
38.52	8.6487E+07	I PH	7.296	91.100

TOTAL AREA= 9.4936E+07
MUL FACTOR= 1 #####+##

000071

S=x2

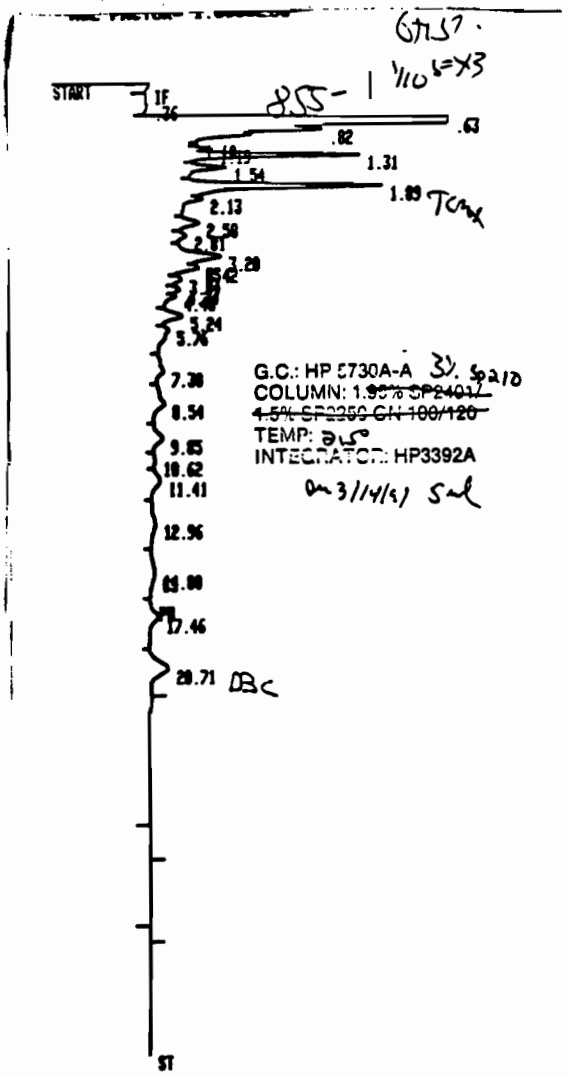


RUN # 13 MAR/13/91 17:33:10
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.63	2118200	SPB	0.850	8.690
0.72	729968	BB	0.855	2.995
0.82	222870	BB	0.833	0.911
0.93	39573	BB	0.819	0.162
1.11	13768	BB	0.853	0.057
1.30	581900	BB	0.076	2.387
1.53	47966	BB	0.078	0.197
1.89	2680900	BB	0.893	10.999
2.13	19997	BB	0.078	0.082
2.34	8901	BB	0.120	0.037
2.62	36186	BB	0.156	0.149
2.99	35465	BB	0.108	0.146
3.17	36813	BB	0.119	0.151
3.44	62135	BB	0.226	0.255
6.65	25339	PB	0.272	0.104
7.07	12774	BB	0.238	0.052
9.09	106488	BB	0.372	0.437
10.73	97186	BB	0.447	0.399
11.72	53515	BB	0.483	0.220
13.45	168920	BB	0.886	0.693
18.83	77196	BB	0.771	0.317
20.69	1.7199E+07	BB	1.029	70.563

TOTAL AREA= 2.4374E+07
MUL FACTOR= 1.0000E+00

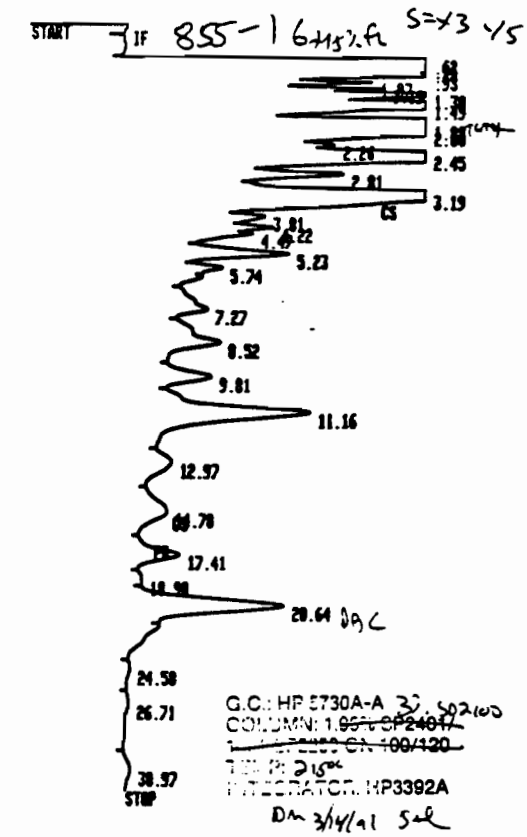


RUN # 14 MAR/13/91 18:33:33
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.36	25074	BB	0.301	0.528
0.63	2534300	BB	0.000	53.375
0.82	53235	BB	0.050	1.121
1.19	10416	BB	0.045	0.219
1.31	241940	BB	0.072	5.096
1.54	66620	BB	0.091	1.403
1.89	399440	BB	0.101	8.412
2.58	47613	BB	0.126	1.003
2.81	16255	BB	0.102	0.342
3.20	83485	BB	0.125	1.758
3.42	32734	BB	0.161	0.689
3.84	31231	BB	0.215	0.658
4.24	20696	BB	0.150	0.436
5.24	113800	BB	0.289	2.397
5.76	58182	BB	0.412	1.225
7.38	62457	BB	0.479	1.315
8.54	105730	BB	0.545	2.227
9.85	85957	BB	0.442	1.810
10.62	9890	BB	0.298	0.208
11.41	76293	BB	0.496	1.607
12.96	68450	BB	0.734	1.442
14.88	91331	BB	0.999	1.924
17.46	146230	BB	0.820	3.080
20.71	366790	BB	0.967	7.725

TOTAL AREA= 4748200
MUL FACTOR= 1.0000E+00

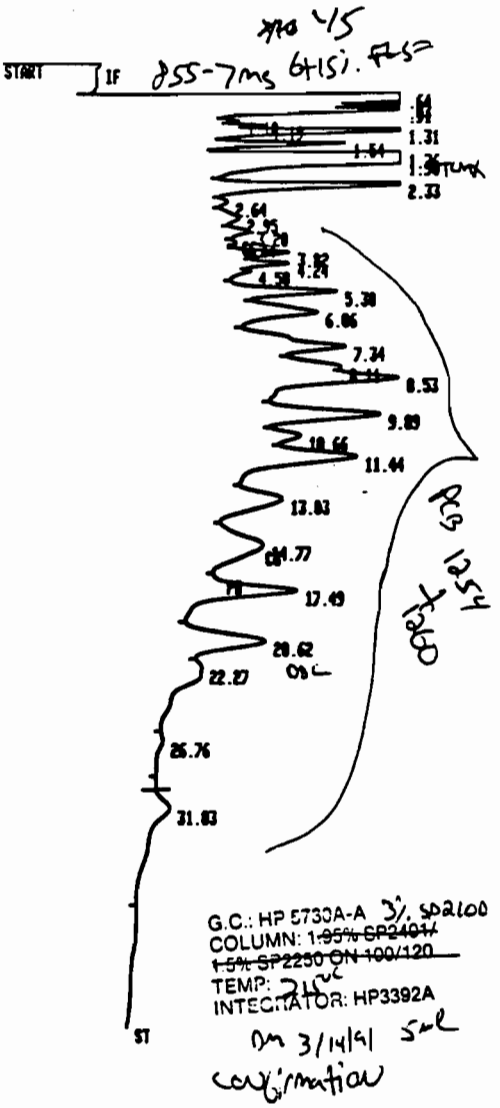


RUN # 15 MAR/14/91 08:16:51
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.62	1618880	PB	0.854	8.530
0.71	191150	BB	0.035	1.007
0.78	190900 D	BB	0.109	1.006
0.93	92122	BB	0.057	0.485
1.07	88462	BB	0.060	0.466
1.19	59671	BB	0.046	0.314
1.30	373950	BB	0.068	1.970
1.49	2414900	BB	0.094	12.724
1.88	1689900	BB	0.123	8.904
2.00	320170	BB	0.037	1.687
2.26	21685	BB	0.058	0.114
2.45	1075000	BB	0.216	5.664
2.81	199570	BB	0.109	1.052
3.19	2144100	BB	0.227	11.297
3.81	117170	BB	0.205	0.617
4.22	98455	BB	0.152	0.519
4.47	60188	BB	0.152	0.317
5.23	620420	BB	0.313	3.269
5.74	108560	BB	0.203	0.572
7.27	324340	PB	0.518	1.709
8.52	591670	BB	0.579	3.118
9.81	396060	BB	0.424	2.087
11.16	1895500	BB	0.614	9.987
12.97	278330	BB	0.688	1.467
14.78	503110	BB	0.904	2.651
17.41	689900	BB	0.797	3.635
18.90	25274	BB	0.563	0.133
20.64	2440600	BB	0.892	12.860
24.58	45571	PB	0.809	0.240
26.71	91736	BB	1.241	0.483
30.97	211380 I	BB	1.388	1.114

TOTAL AREA= 1.8979E+07
MUL FACTOR= 1.0000E+00

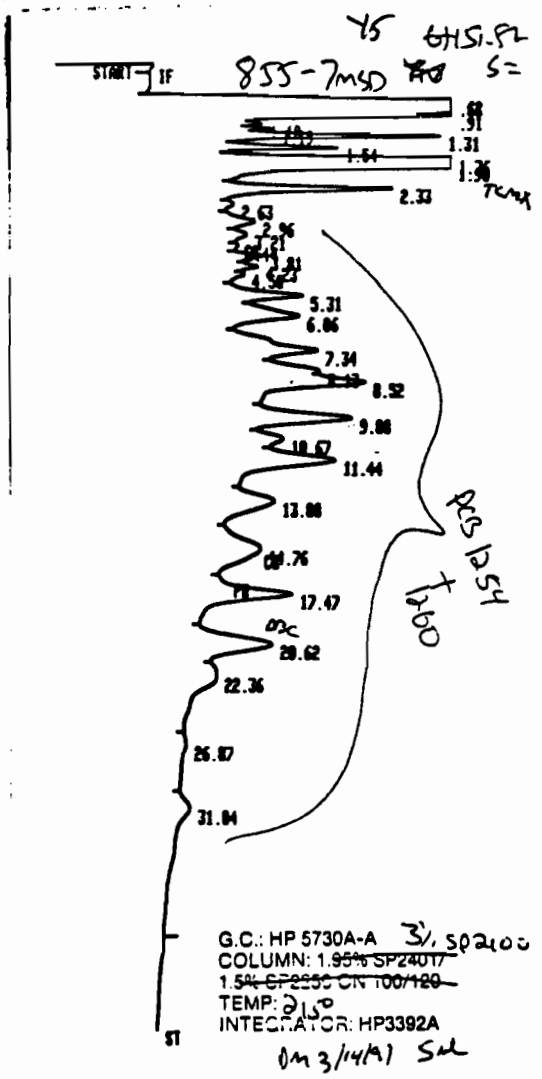


RUN # 11 MAR/13/91 15:32:24
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/WT	AREA%
0.64	2372300	PB	0.102	15.668
0.83	56481	BB	0.039	0.373
0.91	133680	BB	0.061	0.883
1.10	11157	BB	0.044	0.074
1.19	22386	BB	0.042	0.147
1.31	424670	BB	0.076	2.805
1.54	222600	BB	0.065	1.470
1.76	641970	BB	0.074	4.240
1.90	295660	BB	0.047	1.953
2.33	529120	BB	0.121	3.495
2.64	17641	BB	0.100	0.117
2.95	51766	BB	0.172	0.342
3.20	49548	BB	0.123	0.327
3.44	6842	BB	0.096	0.045
3.82	200260	PB	0.202	1.323
4.24	136738	BB	0.162	0.903
4.58	21538	BB	0.132	0.142
5.38	518288	BB	0.265	3.423
6.86	623570	BB	0.420	4.118
7.34	674910	BB	0.458	4.457
8.11	58212	BB	0.252	0.385
8.53	374688	BB	0.232	2.475
9.89	944390	BB	0.416	6.237
10.66	178698	BB	0.335	1.180
11.44	828838	BB	0.448	5.469
13.83	712850	BB	0.681	4.708
14.77	1054400	BB	1.185	6.964
17.49	1538100	BB	0.784	10.159
20.62	1538000	BB	0.989	10.185
22.27	255790	BB	1.884	1.689
26.76	55649	BB	0.772	0.368
31.83	599420	BB	1.634	3.959

TOTAL AREA= 1.5141E+07
MUL FACTOR= 1.0000E+00



RUN # 12 MAR/13/91 16:32:47
WORKFILE ID: C
WORKFILE NAME:

AREA% RT	AREA	TYPE	AR/HT	AREA%
8.62	3382888	†SPB	0.821	20.381
8.66	2385188	† BB	0.833	14.718
0.91	56836	BB	0.039	0.346
1.18	11398	BB	0.045	0.070
1.19	19439	BB	0.042	0.120
1.31	388138	BB	0.077	1.981
1.54	182758	BB	0.082	1.128
1.76	1111188	BB	0.078	6.856
2.33	488318	BB	0.128	2.528
2.63	16244	BB	0.182	0.188
2.96	74754	BB	0.158	0.461
3.21	29693	BB	0.121	0.183
3.44	9479	BB	0.126	0.059
3.81	85378	BB	0.169	0.527
4.23	54756	BB	0.162	0.338
4.58	19188	BB	0.162	0.118
5.31	329258	BB	0.264	2.032
6.86	486858	BB	0.486	2.999
7.34	551728	BB	0.454	3.485
8.13	41135	BB	0.319	0.254
8.52	383888	BB	0.232	1.875
9.88	815288	BB	0.419	5.838
10.67	135788	BB	0.336	0.837
11.44	689188	BB	0.443	4.253
13.88	558398	BB	0.653	3.446
14.76	859488	BB	1.872	5.384
17.47	1368588	BB	0.889	8.395
20.62	1385688	BB	0.999	8.558
22.36	237838	BB	1.882	1.468
26.87	87864	BB	1.189	0.537
31.84	298188	BB	1.188	1.791

TOTAL AREA= 1.6286E+87
MUL FACTOR= 1 #####+##

General Testing Corporation

A Full Service Environmental Laboratory

710 Exchange Street
Rochester, NY 14608
(716) 454-3760
FAX (716) 454-1245

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242
FAX (201) 488-6386

435 Lawrence Bell Drive
Amherst, NY 14221
(716) 634-0454
FAX (716) 634-9019

January 24, 1991

Mr. Chris Motta
Woodward Clyde Consultants
201 Willowbrook Blvd.
Wayne, NJ 07470

Dear Mr. Rubin:

The enclosed report contains analytical data pertaining to the GE - Waite Road site. These samples were collected from January 4, 8 and 9 and received into the laboratory on January 4 and 9, 1991.

A total of twenty three soil samples were collected. The analyses requested were total petroleum hydrocarbons by IR, and PCB's. Rush turnaround time was requested.

Additional reporting sections include laboratory QC data, an analytical chronology, methodology summaries and all the necessary documentation for an extended deliverables package. Please review this data package and contact me if you have any questions.

Sincerely,

Virginia Murray

Virginia Murray
Laboratory Manager

VM/
enc

General Testing Corporation

LABORATORY DELIVERABLES

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS.

The following laboratory deliverables shall be included in the data submission. All deviations from the accepted methodology and procedures, or performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete packages may be returned or held without review until the data package is completed

		Check if Complete
I.	Cover Page, Format, and Laboratory Certification (Include Cross Reference Table of Field I.D. # Laboratory I.D. #)	x
II.	Chain of Custody	x
III.	Summary Sheets Listing Analytical Results Including QA Data Information (see Attached Form and ESPG Attachment 2.B.2.C)	x
IV.	Laboratory Chronicle and Methodology Summary including Sampling Holding Time Check	x
V.	Initial Calibration and Continuing Calibration	x
VI.	Tune Summary (MS)	NA
VII.	Blanks (Method, Field, Trip)	x
VIII.	Surrogate Recovery Summary	x
IX.	Chromatographs Labelled/Compound Identification	x
X.	Minimum Detection Limits	x
XI.	Non-Conformance Summary	x

Virginia Murray

Virginia Murray, Laboratory Manager

1/24/91

Date

General Testing Corporation

Analytical Data Package for:

Mr. Chris Motta
Woodward Clyde Consultants
201 Willowbrook Blvd.
Wayne, NJ 07470

Project Name: GE - Waite Road, Clifton Park, NY
Client Project #: 90C4217

GTC #	Sample Location	Date and Time of Collection
R90/5533-001	PS-A1	01/04/91 10:20
R90/5533-002	PS-B1	01/04/91 10:35
R90/5533-003	PS-B2	01/04/91 11:00
R90/5533-004	PS-B3	01/04/91 11:30
R90/5533-005	PS-B4	01/04/91 11:45
R90/5533-006	PS-E1	01/04/91 12:00
R90/5533-007	PS-E2	01/04/91 12:15
R90/5533-008	PS-AR1	01/04/91 12:30
R90/5533-009	PS-AR2	01/04/91 12:45
R90/5533-010	PS-AR3	01/04/91 13:00
R90/5533-011	PS-C-S1	01/04/91 13:15
R90/5533-012	PS-C-S2	01/04/91 13:30
R90/5533-013	PS-C-S3	01/04/91 13:45
R90/5533-014	PS-C1	01/04/91 14:00
R90/5533-015	PS-D1	01/04/91 14:10
R90/5533-016	PS-D2	01/04/91 14:20
R90/0129-001	PS-SA1	01/08/91 09:00
R90/0129-002	PS-SA2	01/08/91 09:15
R90/0129-003	PS-C2	01/08/91 14:10
R90/0129-004	PS-C-S4	01/08/91 14:20
R90/0129-005	PS-LZ1	01/09/91 12:00
R90/0129-006	PS-C-S5	01/09/91 13:00
R90/0129-007	PS-C3	01/09/91 13:15

GENERAL TESTING CORPORATION
710 Exchange Street
Rochester, New York 14608

Laboratory Certification # 73331

Manager: Michael K. Perry

Virginia Murray 1/24/91
Authorized Signature

General Testing Corporation

GTC REPORT # R90/5533, R91/0129

REPORT INDEX

General Testing Corporation

DATA QUALIFIERS

U - Indicates compound was analyzed for but was not observed at a quantifiable concentration.

J - Indicates an estimated value below the method detection limit.

J - Sub-Qualifiers - Indicates an estimated value due to failure of QA/QC requirements. (Used in conjunction with J and/or QC page or chronology):

- S - Surrogate recoveries outside of control limits.
- St - Surrogate recoveries outside of control limits; analysis repeated; same results obtained; matrix interferences suspected.
- M - Matrix spike and/or matrix spike duplicate outside control limits.
- Mt - Same as M. Organic reference spike acceptable; matrix interference suspected or inorganic repeat analysis still unacceptable.
- r - Laboratory replicates outside of laboratory advisory limits.
- h - Holding time exceeded for analysis.
- t - Matrix interferences suspected.
- p - Grab samples composited in laboratory.

B - Indicates that the analyte was found in the associated laboratory or field blank.

B - Qualifiers (Used in conjunction with B):

- l - Contamination in lab or method blank.
- e - Contamination in equipment blank.
- t - Contamination in trip blank.
- f - Contamination in field filtration blank.
- d - Contamination level elevated by dilution factor

Additional QC and Data Qualifiers:

- ND - Not detectable
- NS - No sample
- NA - Not analyzed
- V - Spiked recovery cannot be determined; sample value >4 times spike concentration.
- ++ - Outside laboratory acceptance limits (Blank spikes, Ref. spikes).
- *+ - No limits currently established
- ** - See attached data
- I - Insufficient sample to re-analyze
- D - Surrogate standard diluted out
- R - Sample re-analyzed outside of holding time
- UP - Unable to perform analysis due to sample matrix
- RC - Results confirmed via repeat analysis

General Testing Corporation

GTC REPORT # R90/5533
R91/0129

SECTION A

ANALYTICAL DATA

PETROLEUM HYDROCARBONS

Presented in this section is analytical data for the parameters requested. The following references concerning units and analytical methodology apply to the data provided herein.

Units: ug/g dry weight

Analytical Methodology Obtained From:

( ) Federal Register, 40 CFR Part 136, Guidelines Establishing Test Procedures for the analyses of Pollutants under the Clean Water Act, 10/26/84.

( ) SW-846, Test Methods for Evaluating Solid Waste, 3rd Edition, 11/86.

(X) Other: EPA Method 418.1 Modified for Soils

General Testing Corporation

ANALYSIS FOR

TOTAL PETROLEUM HYDROCARBONS

EPA METHOD 418.1

(Modified for Soils)

METHODOLOGY SUMMARY

Samples are drained of excess water and debris such as pebbles and thoroughly mixed. A specified portion of sample (approximately 15 grams) is mixed with anhydrous sodium sulfate to remove any residual moisture. The sample is then extracted with 1,1,2 trichlorotrifluoroethane (freon) for a minimum of three (3) hours at 30 cycles per hour. The extract is then mixed with silica gel to remove any hydrocarbons of plant or animal origin. The remaining extract is then filtered, diluted to 100mls and analyzed on an infrared spectrophotometer at wavelenghth = 2930/cm and read against a standard curve.

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R90/05533 Date: JAN. 24 1991

Client:
Chris Motta
Woodward Clyde Corporation
201 Willowbrook Blvd.
Wayne, NJ 07470

Sample(s) Reference:
GE Plant
Waite Rd., Clifton

Received : 01/07/91 P.O. #: 90C4217

ANALYTICAL UNITS - ug/g dry wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		PS-A1	PS-B1	PS-B2	PS-B3	PS-B4	PS-E1	PS-E2
Date Collected:		01/04/91	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91
Time Collected:	PQL	10:20	10:35	11:00	11:30	11:45	12:00	12:15
Solids, %	-	74.3	75.4	74.8	73.6	78.1	74.0	69.1
Pet. Hydrocarbons, IR	13.3	103	1710	111	77.7	145	482	155

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael K. Perry
Laboratory Director

007

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R90/05533 Date: JAN. 24 1991

Client:
Chris Motta
Woodward Clyde Corporation
201 Willowbrook Blvd.
Wayne, NJ 07470

Sample(s) Reference:
GE Plant
Waite Rd., Clifton

Received : 01/07/91 P.O. #: 90C4217

ANALYTICAL UNITS - ug/g dry wt.

Sample:		-008	-009	-010	-011	-012	-013	-014
Location:		PS-AR1	PS-AR2	PS-AR3	PS-C-S1	PS-C-S2	PS-C-S3	PS-C1
Date Collected:		01/04/91	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91
Time Collected:	PQL	12:30	12:45	13:00	13:15	13:30	13:45	14:00
Solids, %	-	65.5	55.1	65.1	36.0	59.5	44.3	80.5
Pet. Hydrocarbons, IR	13.3	5190	1850	15,500	123 U	67.0 U	166	122

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R90/05533 Date: JAN. 24 1991

Client:
Chris Motta
Woodward Clyde Corporation
201 Willowbrook Blvd.
Wayne, NJ 07470

Sample(s) Reference:
GE Plant
Waite Rd., Clifton

Received : 01/07/91 P.O. #: 90C4217

ANALYTICAL UNITS - ug/g dry wt.

Sample:		-015	-016	-017				
Location:		PS-D1	PS-D2	Lab Blank				
Date Collected:		01/04/91	01/04/91	--				
Time Collected:	PQL	14:10	14:20	--				
Solids, %	-	66.0	76.9					
Pet. Hydrocarbons, IR	13.3	77.6 U	56.0					

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael K. Perry

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R91/00129 Date: JAN. 24 1991

Client:
Chris Motta
Woodward Clyde Consultants
201 Willowbrook Blvd.
Wayne, NJ 07470

Sample(s) Reference:
GE Plant
Waite Rd., Clifton

Received : 01/09/91 P.O. #: 90C4217

ANALYTICAL UNITS - ug/g dry wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		PS-SA1	PS-SA2	PS-C2	PS-C-S4	PS-LZ1	PS-C-S5	PS-C3
Date Collected:		01/08/90	01/08/91	01/08/91	01/08/91	01/09/91	01/09/91	01/09/91
Time Collected:	PQL	09:00	09:15	14:10	14:20	12:00	13:00	13:15
Solids, %	-	84.0	69.7	74.0	80.2	69.5	29.6	83.1
Pet. Hydrocarbons, IR	13.3	59.0	988	1580	15,000	3420	153 U	6200

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

GTC REPORT # R90/5533
R91/0129

SECTION B

ANALYTICAL DATA

PCB'S

Presented in this section is analytical data for the parameters requested. The following references concerning units and analytical methodology apply to the data provided herein.

Units: ug/kg dry weight

Analytical Methodology Obtained From:

( ) Federal Register, 40 CFR Part 136, Guidelines Establishing Test Procedures for the analyses of Pollutants under the Clean Water Act, 10/26/84.

(X) SW-846, Test Methods for Evaluating Solid Waste, 3rd Edition, 11/86. Method 8080

( ) Other: EPA Method 418.1 Modified for Soils

General Testing Corporation

ANALYSIS FOR

ORGANOCHLORINE PESTICIDES AND PCB's

EPA METHOD 8080

(SOILS & SEDIMENTS)

METHODOLOGY SUMMARY

Samples are drained of excess water and debris such as pebbles and thoroughly mixed. Thirty grams of a sample/Na2SO4 mixture (ratio depends on water content of sample) is extracted with a 1:1 mixture of methylene chloride and acetone in a sonicator. The extract is dehydrated with Na2SO4, concentrated to 10mls, subjected to florisil partioning, and desulfurized. Analysis is performed via gas chromatography using a packed column, (1 - 6ft x 1/4in ID glass, packed with 1.5% SP2250/1.95% SP2401 on 100/120 mesh supelcoport*) and an electron capture detector.

* Alternate column: 2 - 6ft x 1/4in ID glass packed with 3% SE 30 on 80/100 chromosorb WHP.

General Testing Corporation

CASE NARRATIVE

R90/5533

Job # R90/5533 was analyzed for PCB's using method 8080 from SW846. This job was sampled on 1/4/91 and extracted on 1/10/91.

The surrogate recovery for Dibutylchlorendate was out of Q.C. Limits for samples R90/5533-001 and 002, due to suspected matrix interference. However, the recovery of the second surrogate, Tetrachloro-m-xylene, was within Q.C. limits for all samples. In addition, several samples were quantitated using higher detection limits because dilution were needed to remove interferences which were not removed by Alumina and sulfur clean up procedures.

CASE NARRATIVE

R91/0129

Job # R91/0129 was analyzed for PCB's using method 8080 from SW846.

This job was sampled on 1/8, 9/91 and extracted on 1/14/91. The % recovery for the surrogate Dibutylchlorendate was out of Q.C. limits for samples R91/0129-001MS, and 001MSD, 004 and 005 due to suspected matrix interference. However, % recovery for the second surrogate (Tetrachloro-m-xylene), was within Q.C. limits for all samples. In addition, Dibutylchlorendate retention time shift and surrogate recovery were impossible to calculate in the above samples due to this matrix interference.

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R90/05533 Date: JAN. 24 1991

Client:
Chris Motta
Woodward Clyde Corporation
201 Willowbrook Blvd.
Wayne, NJ 07470

Sample(s) Reference
GE Plant
Waite Rd., Clifton

Received : 01/07/91 P.O. #: 90C4217

ANALYSIS * BY EPA METHOD 8080 ANALYTICAL RESULTS - ug/kg dry wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		PS-A1	PS-B1	PS-B2	PS-B3	PS-B4	PS-E1	PS-E2
Date Collected:		01/04/91	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91
Time Collected:	PQL'S	10:20	10:35	11:00	11:30	11:45	12:00	12:15
Date Extracted:		01/10/91	01/10/91	01/10/91	01/10/91	01/10/91	01/10/91	01/10/91
Date Analyzed:		01/12,13/91	01/12/91	01/13/91	01/12,13/91	01/13/91	01/13/91	01/13/91
PCB 1016	20.0	269 U	265 U	26.7 U	272 U	25.6 U	270 U	28.9 U
PCB 1221	20.0	269 U	265 U	26.7 U	272 U	25.6 U	270 U	28.9 U
PCB 1232	20.0	269 U	265 U	26.7 U	272 U	25.6 U	270 U	28.9 U
PCB 1242	20.0	269 U	265 U	26.7 U	272 U	25.6 U	270 U	28.9 U
PCB 1248	20.0	269 U	265 U	26.7 U	272 U	25.6 U	270 U	28.9 U
PCB 1254	20.0	26.9 U	265 U	26.7 U	27.2 U	25.6 U	27.0 U	28.9 U
PCB 1260	20.0	26.9 U	265 U	26.7 U	27.2 U	25.6 U	90.5	28.9 U
Surrogate Standard Recovery								
Tetrachloro-meta-xylene (Acceptance Limits: 31-141%)		100%	117%	76%	96%	50%	73%	46%
Dibutylchlorendate (Acceptance Limits: 24-150%)		164%t	164%t	113%	131%	119%	113%	86%

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

014

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R90/05533 Date: JAN. 24 1991

Client:
Chris Motta
Woodward Clyde Corporation
201 Willowbrook Blvd.
Wayne, NJ 07470

Sample(s) Reference
GE Plant
Waite Rd., Clifton

Received : 01/07/91 P.O. #: 90C4217

ANALYSIS * BY EPA METHOD 8080 ANALYTICAL RESULTS - ug/kg dry wt.

Sample:		-008	-009	-010	-011	-012	-013	-014
Location:		PS-AR1	PS-AR2	PS-AR3	PS-C-S1	PS-C-S2	PS-C-S3	PS-C1
Date Collected:		01/04/91	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91	01/04/91
Time Collected:	PQL'S	12:30	12:45	13:00	13:15	13:30	13:45	14:00
Date Extracted:		01/10/91	01/10/91	01/10/91	01/10/91	01/10/91	01/10/91	01/10/91
Date Analyzed:		01/12/91	01/12/91	01/14/91	01/12/91	01/12,13/91	01/12/91	01/12,13/91
PCB 1016	20.0	305 U	363 U	1540 U	556 U	336 U	451 U	248 U
PCB 1221	20.0	305 U	363 U	1540 U	556 U	336 U	451 U	248 U
PCB 1232	20.0	305 U	363 U	1540 U	556 U	336 U	451 U	248 U
PCB 1242	20.0	305 U	363 U	1540 U	556 U	336 U	451 U	248 U
PCB 1248	20.0	305 U	363 U	1540 U	556 U	336 U	451 U	248 U
PCB 1254	20.0	305 U	363 U	1540 U	556 U	33.6 U	451 U	24.8 U
PCB 1260	20.0	824	739	1740	556 U	33.6 U	451 U	24.8 U
Surrogate Standard Recovery								
Tetrachloro-meta-xylene (Acceptance Limits: 31-141%)		93%	87%	73%	80%	70%	117%	67%
Dibutylchlorendate (Acceptance Limits: 24-150%)		148%	107%	75%	106%	88%	101%	76%

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael E. Perry
Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R90/05533 Date: JAN. 24 1991

Client:
Chris Motta
Woodward Clyde Corporation
201 Willowbrook Blvd.
Wayne, NJ 07470

Sample(s) Reference
GE Plant
Waite Rd., Clifton

Received : 01/07/91 P.O. #: 90C4217

ANALYSIS * BY EPA METHOD 8080 ANALYTICAL RESULTS - ug/kg dry wt.

Sample:		-015	-016	-017
Location:		PS-D1	PS-D2	Lab Blank
Date Collected:	PQL'S	01/04/91	01/04/91	--
Time Collected:		14:10	14:20	--
Date Extracted:		01/10/91	01/10/91	01/10/91
Date Analyzed:		01/12,13/91	01/12,13/91	01/13/91
PCB 1016	20.0	303 U	260 U	20.0 U
PCB 1221	20.0	303 U	260 U	20.0 U
PCB 1232	20.0	303 U	260 U	20.0 U
PCB 1242	20.0	303 U	260 U	20.0 U
PCB 1248	20.0	303 U	260 U	20.0 U
PCB 1254	20.0	30.3 U	26.0 U	20.0 U
PCB 1260	20.0	30.3 U	26.0 U	20.0 U
Surrogate Standard Recovery				
Tetrachloro-meta-xylene (Acceptance Limits: 31-141%)		74%	50%	68%
Dibutylchlorendate (Acceptance Limits: 24-150%)		80%	79%	104%

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael K. Perry
Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R91/00129 Date: JAN. 24 1991

Client:
Chris Motta
Woodward Clyde Consultants
201 Willowbrook Blvd.
Wayne, NJ 07470

Sample(s) Reference
GE Plant
Waite Rd., Clifton

Received : 01/09/91 P.O. #: 90C4217

ANALYSIS * BY EPA METHOD 8080 ANALYTICAL RESULTS - ug/kg dry wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		PS-SA1	PS-SA2	PS-C2	PS-C-S4	PS-LZ1	PS-C-S5	PS-C3
Date Collected:	_____	01/08/90	01/08/91	01/08/91	01/08/91	01/09/91	01/09/91	01/09/91
Time Collected:	PQL'S	09:00	09:15	14:10	14:20	12:00	13:00	13:15
Date Extracted:		01/14/91	01/14/91	01/14/91	01/14/91	01/14/91	01/14/91	01/14/91
Date Analyzed:		01/16/91	01/16/91	01/16/91	01/16/91	01/16/91	01/16/91	01/16/91
PCB 1016	20.0	23.8 U	287 U	27.0 U	249 U	288 U	676 U	241 U
PCB 1221	20.0	23.8 U	287 U	27.0 U	249 U	288 U	676 U	241 U
PCB 1232	20.0	23.8 U	287 U	27.0 U	249 U	288 U	676 U	241 U
PCB 1242	20.0	23.8 U	287 U	27.0 U	723	288 U	676 U	241 U
PCB 1248	20.0	23.8 U	287 U	27.0 U	249 U	288 U	676 U	241 U
PCB 1254	20.0	23.8 U	287 U	27.0 U	249 U	288 U	67.6 U	241 U
PCB 1260	20.0	23.8 U	287 U	27.0 U	344	537	67.6 U	241 U
Surrogate Standard Recovery								
Tetrachloro-meta-xylene (Acceptance Limits: 31-141%)		81%	93%	73%	120%	108%	71%	73%
Dibutylchlorendate (Acceptance Limits: 24-150%)		134%	138%	124%	t	t	93%	124%

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael K. Perry

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R91/00129 Date: JAN. 24 1991

Client:
Chris Motta
Woodward Clyde Consultants
201 Willowbrook Blvd.
Wayne, NJ 07470

Sample(s) Reference
GE Plant
Waite Rd., Clifton

Received : 01/09/91 P.O. #: 90C4217

ANALYSIS * BY EPA METHOD 8080 ANALYTICAL RESULTS - ug/kg dry wt.

Sample:		-008
Location:		Lab Blank
Date Collected:		--
Time Collected:	PQL'S	--
Date Extracted:		01/14/91
Date Analyzed:		01/15/91
PCB 1016	20.0	20.0 U
PCB 1221	20.0	20.0 U
PCB 1232	20.0	20.0 U
PCB 1242	20.0	20.0 U
PCB 1248	20.0	20.0 U
PCB 1254	20.0	20.0 U
PCB 1260	20.0	20.0 U
Surrogate Standard Recovery		
Tetrachloro-meta-xylene (Acceptance Limits: 31-141%)		73%
Dibutylchlorendate (Acceptance Limits: 24-150%)		141%

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

GTC REPORT # R90/5533
R91/0129

SECTION C

LABORATORY QUALITY CONTROL

Presented in this section is Quality Control associated with the data provided in Section A & B of this report.

Quality Control Explanations:

1) Run Quality Control - Selected QC data from the analytical run in which your sample(s) were involved.

2) Job Specific Quality Control - QC data specific to your set of samples.

3) Duplicates - Replicate analysis of a given sample used to monitor precision. Relative Percent Difference is calculated as the difference divided by the average x 100.

4) Matrix Spikes - Addition of a known amount of analyte to a sample. Recovery is calculated by subtracting original value attributable to the sample from the combined value. The difference is then divided by the amount added to calculate % recovery. Poor recoveries may indicate analytical interference due to the matrix of the sample. Any other samples of this same matrix may also have been affected, high or low as indicated by the % recovery.

5) Laboratory Blanks - Laboratory Deionized water used to monitor for contamination during analysis.

6) Blank Spikes - Same as #4 but analyte is added to laboratory deionized water. This indicates the accuracy of analysis.

7) Reference Check Sample - Samples from an outside source having a known concentration of analyte. Used as a measure of analytical accuracy.

When possible, all components of the above listed QC protocol are performed during an analytical run. The resulting data is compared to historical records when evaluating the quality of analytical runs. The data provided in your report has passed our Quality Assurance review.

Quality Control Notes:

General Testing Corporation

INORGANICS CONFORMANCE/NON-CONFORMANCE SUMMARY

Woodward Clyde Consultants
GTC # R90/05533, 0129

	Within Specifications	
	No	Yes
Blank Contamination		
a. Metals	___	NA
b. General Chemistry	___	NA
c. Petroleum Hydrocarbons	___	x
Sample Holding Times		
a. Metals	___	NA
b. General Chemistry	___	NA
c. Petroleum Hydrocarbons	___	x
Minimum Detection Limits		
a. Metals	___	NA
b. General Chemistry	___	NA
c. Petroleum Hydrocarbons	___	x

Additional Comments:

Laboratory Manager Virginia Murray Date: 1/24/91

GTC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Woodward Clyde Corporati JOB # : R90/05533 UNITS: ug/g wet weight REPORT TYPE: Site

PARAMETER	SAMPLE	ORIGINAL RESULT	DUPLICATE RESULT	% REL. ERROR	ACCEPT. LIMIT %	AVERAGE RESULT	SPIKE ADDED	PERCENT RECOVERY	ACCEPT. LIMIT %	METHOD BLANK	SPIKE ADDED	PERCENT RECOVERY	ACCEPT. LIMITS %	REFERENCE #	KNOWN PMVAL	PERCENT RECOVERY	ACCEPT. LIMITS %
//////////////////////		* PRECISION				* MATRIX SPIKING				BLANK SPIKES				REFERENCE STANDARD			
Pet. Hydro.	-009	1110	938	16.8	24.4	1024	35,900	97.4	62.7-129	17.9 U	1611	94.4	64.0-122				

* Analytical results previous to accounting for dilutions. ** Reference Check samples are not available for all analyses. ++ Outside of Quality Control Limits.

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GTC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Woodward Clyde Consultan JOB # : R91/00129 UNITS: ug/g wet weight REPORT TYPE: Site

PARAMETER	SAMPLE	ORIGINAL RESULT	DUPLICATE RESULT	% REL. ERROR	ACCEPT. LIMIT %	AVERAGE RESULT	SPIKE ADDED	PERCENT RECOVERY	ACCEPT. LIMIT %	METHOD BLANK	SPIKE ADDED	PERCENT RECOVERY	ACCEPT. LIMITS %	REFERENCE #	KNOWN PMVAL	PERCENT RECOVERY	ACCEPT. LIMITS %
//////////////////////		* PRECISION				* MATRIX SPIKING				BLANK SPIKES				REFERENCE STANDARD			
Pet. Hydro.	-007	6980	6380	8.98	30.0	5160	17592	113	63-129	17.9 U	2148	96.5	64-122	NA			

* Analytical results previous to accounting for dilutions. ** Reference Check samples are not available for all analyses. ++ Outside of Quality Control Limits.

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General Testing Corporation

GC - GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

Woodward Clyde Consultants - GTC# R90/05533, 0129

		No	Yes
1.	GC/MS Tune Specifications		
	a. BFB passed	___	NA
	b. DFTPP passed	___	NA
2.	GC/MS Tuning Frequency - performed every 12 hours	___	NA
3.	GC-GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours before sample analysis	___	x
4.	GC/MS Calibration Requirements		
	a. Calibration Check Compounds	___	NA
	b. System Performance Check Compounds	___	NA
5.	Blank Contamination - List compounds for each fraction		
	a. VOA Fraction ___		
	b. B/N Fraction ___		
	c. Acid Fraction ___		
	d. PCB's ___		
6.	Surrogate Recoveries Meet Criteria	x	___
	(If not met, list those compounds and their recoveries which fall outside the acceptable range)		
	a. VOA Fraction ___		
	b. B/N Fraction ___		
	c. Acid Fraction ___		
	d. PCB's Dibutylchlorendate		
7.	Extraction Holding Time Met	___	x
	Comments: ___		
8.	Analysis Holding Time Met	___	x
	Comments: ___		

Additional Comments:

Laboratory Manager Virginia Murray Date: 1/24/91

PCB'S - SOIL SAMPLE

SOIL PCB'S MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp.

Matrix Spike - Sample No. : R90/05533 -001

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENT. (ug/Kg)	MS % REC #	QC LIMITS REC.
PCB 1016					50-114
PCB 1221					15-178
PCB 1232					10-215
PCB 1242					39-150
PCB 1248					38-158
PCB 1254	2000	20.0 U	2210	110%	29-131
PCB 1260					8-127

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENT. (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
PCB 1016					30	50-114
PCB 1221					30	15-178
PCB 1232					30	10-215
PCB 1242					30	39-150
PCB 1248					30	38-158
PCB 1254	2000	2080	104%	6.1%	30	29-131
PCB 1260					30	8-127

- Columns to be used to flag recovery and RPD values with ++.
++ - Values outside of QC limits
MS QC Limits = EPA Acceptance Criteria
RPD Limits = Internal Acceptance Criteria

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

PCB'S - SOIL SAMPLE

SOIL PCB'S MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp.

Matrix Spike - Sample No. : R91/00129 -001

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENT. (ug/Kg)	MS % REC #	QC LIMITS REC.
PCB 1016					50-114
PCB 1221					15-178
PCB 1232					10-215
PCB 1242					39-150
PCB 1248					38-158
PCB 1254					29-131
PCB 1260	1670	20.0 U	1360	81%	8-127

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENT. (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
PCB 1016					30	50-114
PCB 1221					30	15-178
PCB 1232					30	10-215
PCB 1242					30	39-150
PCB 1248					30	38-158
PCB 1254					30	29-131
PCB 1260	1670	1480	89%	8.4%	30	8-127

- Columns to be used to flag recovery and RPD values with ++.
++ - Values outside of QC limits
MS QC Limits = EPA Acceptance Criteria
RPD Limits = Internal Acceptance Criteria

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

General Testing Corporation

GTC REPORT # R90/5533
R91/0129

SECTION D

ANALYTICAL CHRONOLOGY

Presented in this section is a Laboratory Chronology listing the dates of all preparations and analyses performed on the samples covered in this report. Holding times (the maximum times in which to analyze a sample) are derived from the referenced methodology.

Chronology Notes:

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No. R90/05533 Date JAN. 24 1991

Client:

Woodward Clyde Corporation

Sample(s) Reference

GE Plant
Waite Rd., Clifton

Date Received: 01/07/91

Date Sample Taken: 01/04/91

LABORATORY CHRONICLE
DATE ANALYZED

Sample: / Location:	-001 PS-A1	-002 PS-B1	-003 PS-B2	-004 PS-B3	-005 PS-B4	-006 PS-E1	-007 PS-E2	-008 PS-AR1	-009 PS-AR2
Solids, %	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91
Pet. Hydrocarbons, Extracted	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91	01/07/91
Pet. Hydrocarbons, IR	01/14/91	01/14/91	01/14/91	01/14/91	01/14/91	01/14/91	01/14/91	01/14/91	01/14/91
PCB's, Date Extracted	01/10/91	01/10/91	01/10/91	01/10/91	01/10/91	01/10/91	01/10/91	01/10/91	01/10/91
PCB's, Date Analyzed	01/12,13/91	01/12/91	01/13/91	01/12,13/91	01/13/91	01/13/91	01/13/91	01/12/91	01/12/91

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No. R90/05533 Date JAN. 24 1991

Client:

Woodward Clyde Corporation

Sample(s) Reference

GE Plant
Waite Rd., Clifton

Date Received: 01/07/91

Date Sample Taken: 01/04/91

LABORATORY CHRONICLE
DATE ANALYZED

Sample: / Location:	-010 PS-AR3	-011 PS-C-S1	-012 PS-C-S2	-013 PS-C-S3	-014 PS-C1	-015 PS-D1	-016 PS-D2	-017 Lab Blank	
Solids, %	01/07/91	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91		
Pet. Hydrocarbons, Extracted	01/07/91	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91	01/08/91		
Pet. Hydrocarbons, IR	01/14/91	01/14/91	01/14/91	01/14/91	01/14/91	01/14/91	01/14/91		
PCB's, Date Extracted	01/10/91	01/10/91	01/10/91	01/10/91	01/10/91	01/10/91	01/10/91	01/10/91	
PCB's, Date Analyzed	01/14/91	01/12/91	01/12,13 /91	01/12/91	01/12,13 /91	01/12,13 /91	01/12,13 /91	01/13/91	

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No. R91/00129 Date JAN. 24 1991

Client:

Woodward Clyde Consultants

Sample(s) Reference

GE Plant
Waite Rd., Clifton

Date Received: 01/09/91

Date Sample Taken: 01/08-09/91

LABORATORY CHRONICLE
DATE ANALYZED

Sample: / Location:	-001 PS-SA1	-002 PS-SA2	-003 PS-C2	-004 PS-C-S4	-005 PS-LZ1	-006 PS-C-S5	-007 PS-C3	-008 Lab Blank	
Solids, %	01/15/91	01/15/91	01/15/91	01/15/91	01/15/91	01/15/91	01/15/91		
Pet. Hydrocarbons, Extracted	01/15/91	01/15/91	01/15/91	01/15/91	01/15/91	01/15/91	01/15/91		
Pet. Hydrocarbons, IR	01/16/91	01/16/91	01/16/91	01/16/91	01/16/91	01/16/91	01/16/91		
PCB's, Date Extracted	01/14/91	01/14/91	01/14/91	01/14/91	01/14/91	01/14/91	01/14/91	01/14/91	
PCB's, Date Analyzed	01/16/91	01/16/91	01/16/91	01/16/91	01/16/91	01/16/91	01/16/91	01/15/91	

ANALYTICAL CHRONOLOGY VERIFICATION

The preservation, preparation and analysis of these samples were conducted on the dates specified on the previous pages.

Laboratory Director: Michael K. Fenn

Inorganics Manager: Doyle B. Dunbar

Organics Manager: Mark P. Wiba

Sample Receipt Manager: Ellen Schneidenbach

QA Officer: Nancy Niemet

General Testing Corporation

GTC REPORT # R90/5533
R91/0129

SECTION E

DOCUMENTATION FILE

Presented in this section is all support documentation requested.

Documentation Provided:

(X) Chain of Custody Forms

(X) Analytical Request Forms

( ) Shipping Receipts

( ) Laboratory Receipt Log

( ) Laboratory Support Documentation

( ) Other:

eneral Testing Corporation

LABORATORY REQUEST
Client & Job Information — Form I, Page 1 of 4

Job#: A40/5533
Date of Order: 12/26/90
Cl. Rep: Va

CLIENT

Client: WCC Requested by: Chris Motta
Street: 201 Willowbrook Blvd City: Wayne State: NJ Zip: 07470
Reports to: same Copies to:
Phone # (201) 785 - 0700 ext. FAX # (201) 785 - 0023

PROJECT INFO.

Project Reference: GE Plant, Waite Rd site, Clifton Pk NY
Estimated Start Date: 1 / 2or3 / 91 Est. Finish Date: / / Phases:
Est. Sample Arrival Dates: 1/3 or 4/91 Roch & NJ? Est. Lot Sizes:
Work Plan Available: Yes☐ No ☐ Comments:
Nature of Samples & Safety Concerns: post excavation of waste oil recycling area
*Needs TPHC results 1wk, PCB's 1½-2 wks verbals
~~Client Consultant~~: if PCB's are dirty & need to be cleaned up - approx. #
TAT (Date Due): Verbal Report: 1 /3or4/ 91 (10or11) Rush Written: / / Final Report: / /

ANALYTICAL

Summary of Analytical Requirements (see Form III for details)

Type	Matrix	#	Analyses Required
A	SOIL	20	PCB (8080) TPHC (418.1) %o SOLIDS
B			
C			
D			

A: soil excavation B:
C: D:

Refer to Form II (reverse side) when specifying analytical protocol, field services & sample processing needs.

INVOICE

Invoice To: same Contact:
Address (if different):
Quotation #: Date: / / P.O.#:
Cost Estimate Analytical $ (see Form III for details) Reportables $
Field $ Shipping $ TAT $ Total $

Client Confirmation — (Please verify the above information and sign below.)

Comments:
Client Signature: Date: / /

0 Exchange Street
chester, NY 14608
16) 454-3760
AX (716) 454-1245

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242
FAX (201) 488-6386

435 Lawrence Bell Drive
Amherst, NY 14221-7077
(716) 634-0454
FAX (716) 634-9019

esting Corporation

LABORATORY REQUEST
Analytical Requirements — Form III, Page 3 of 4

Job#: _____
Date of Order: 12/26/90
Cl. Rep: Va

Customer: WCC Reference: GE

# of Waters(W)= _____ # of Soils(S)= 20 Date Samples Expected: 1/30+4/90 TAT: 1 wk - 10 days

Sample Type: A: Soil C: _____

(Source, Matrix or Location) B: _____ D: _____

	Test(s), Scan(s) Test Group(s) (Use Code f/ Back)	# of Samples by Sample Type A	B	C	D	# of Analysis per Sample W	S	Total # of Samples W	S	Total # Analysis W	S	Unit Analytical $	Estimated COST $
GEN. CHEM.													
	SH												
❑ 500 ❑ 846 ❑ 136 ❑ CLP	TOTAL # OF GEN. CHEM. ANALYSES												
METALS													
	Hex Cr												
❑ 500 ❑ 846 ❑ 136 ❑ CLP	TOTAL # OF METALS ANALYSES												
GC													
GC													
	TOTAL # OF GC VOLATILES												
MS													
MS													
❑ 500 ❑ 846 ❑ 136 ❑ CLP	TOTAL # OF MS VOLATILES												
GC	8080 (PCB's)	20				-	1	-	1	-	20		
GC													
	TOTAL # OF GC EXTRACTABLES												
MS													
MS													
❑ 500 ❑ 846 ❑ 136 ❑ CLP	TOTAL # OF MS EXTRACTABLES												
OX													
OC													

Exchange Street
chester, NY 14608
6) 454-3760
X (716) 454-1245

435 Lawrence Bell Drive
Amherst, NY 14221-7077
(716) 634-0454
FAX (716) 634-9019

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242
FAX (201) 488-6386

RUSH TAT Surcharge		Subtotal for Analytical	
Reportables Surcharge		Discount @ ____ %	-
QC Surcharge		Certification Fee	+
Misc. Charges		Total Extra Charges	+
Total Extra Charges		Total Analysis & Report	

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job No. R90/5533
Client Project No. 90C4217

Sample Origination & Shipping Information

Collection Site WAITE RD

Address WAITE Rd (Street) CLIFTON PARK (City) NY (State) (Zip)

Collector PAUL KARETH (Print) Paul Kareth (Signature)

Bottles Prepared by _____ Rec'd by _____

Bottles Shipped to Client via _____ Seal/Shipping # _____

Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:		Received by:		Date/Time
1. Sign	Paul Kareth	1. Sign	O Murray	1/4/91
for		for		1830
2. Sign		2. Sign		/ /
for		for		:
3. Sign		3. Sign		/ /
for		for		:

Sample(s) Received in Laboratory by K Mully 1/7/91 @ 900

	Client I.D.# / Lab#	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Sample Prep Preserved N	Sample Prep Filtered Y	Sample Prep Filtered N	Bottle Set(s) (see below)
1	PS-A1 / 001	PS-A1 / 1/4/91 10:20	S	TPH		✓		✓	pint glass
2	PS-B1 / 002	PS-B1 / 1/4/91 10:35	S	TPH		✓		✓	pint glass
3	PS-B2 / 003	PS-B2 / 1/4/91 11:00	S	TPH		✓		✓	pint glass
4	PS-B3 / 004	PS-B3 / 1/4/91 11:30	S	TPH		✓		✓	pint glass
5	PS-B4 / 005	PS-B4 / 1/4/91 11:45	S	TPH		✓		✓	pint glass

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each		1									

Additional Analytes 1 week turn

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____ (X), _____ (Y).

024

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job No. A90/5533
Client Project No. 90C4217

Sample Origination & Shipping Information

Collection Site WAITE Rd

Address WAITE RD (Street) CLIFTON PARK (City) NY (State) (Zip)

Collector PAUL KARETH (Print) Paul Kareth (Signature)

Bottles Prepared by _____ Rec'd by _____

Bottles Shipped to Client via _____ Seal/Shipping # _____

Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:		Received by:		Date/Time
1. Sign	Paul Kareth	1. Sign	U Murray	11/4/91
for		for		18:30
2. Sign		2. Sign		/ /
for		for		:
3. Sign		3. Sign		/ /
for		for		:

Sample(s) Received in Laboratory by K Milly 11/7/91 @ 900

	Client I.D.# / Lab#	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	PS-E1 / 006	PS-E1 / 11/4/91 : 1200	S	TPH		✓		✓	pt. glass
2	PS-E2 / 007	PS-E2 / 11/4/91 : 1215	S	TPH		✓		✓	pt. glass
3	PS-AR1 / 008	PS-AR1 / 11/4/91 : 1230	S	TPH		✓		✓	pt glass
4	PS-AR2 / 009	PS AR2 / 11/4/91 : 1245	S	TPH		✓		✓	pt glass
5	PS-AR3 / 010	PS-AR3 / 11/4/91 : 1300	S	TPH		✓		✓	pt glass

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each		1									

Additional Analytes 1 week turn

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____ (X), _____ (Y).

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job No. 690/5533
Client Project No. 90C4217

Sample Origination & Shipping Information

Collection Site WAITE RD

Address WAITE RD (Street) CLIFTON PARK (City) NY (State) (Zip)

Collector PAUL KARETH (Print) Paul Kareth (Signature)

Bottles Prepared by _____ Rec'd by _____

Bottles Shipped to Client via _____ Seal/Shipping # _____

Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:		Received by:		Date/Time
1. Sign	Paul Kareth	1. Sign	O Murray	1/4/91
for		for		13:30
2. Sign		2. Sign		/ /
for		for		:
3. Sign		3. Sign		/ /
for		for		:

Sample(s) Received in Laboratory by K M Mully 1/7/91 @ 9:00

	Client I.D.# / Lab#	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Sample Prep Preserved N	Sample Prep Filtered Y	Sample Prep Filtered N	Bottle Set(s) (see below)
1.	PS-C-S1 / 011	PS-C-S1 / 1/4/91 1315	S	TPH		✓		✓	pint glass
2	PS-C-S2 / 012	P-C-S2 / 1/4/91 1330	S	TPH		✓		✓	pint glass
3	PS-C-S3 / 013	P-C-S3 / 1/4/91 1345	S	TPH		✓		✓	pint glass
4	PS-C1 / 014	PS-C1 / 1/4/91 1400	S	TPH		✓		✓	pint glass
5	PS-D1 / 015	PS-D1 / 1/4/91 1410	S	TPH		✓		✓	pint glass

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each											

Additional Analytes 1 week turn

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____ (X), _____ (Y).

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job No. A90/5533
Client Project No. 90C4217

Sample Origination & Shipping Information

Collection Site WAITE Rd
Address WAITE Rd (Street) CLIFTON PARK (City) NY (State) (Zip)
Collector PAUL KARETH (Print) Paul Kareth (Signature)

Bottles Prepared by _____ Rec'd by _____
Bottles Shipped to Client via _____ Seal/Shipping # _____
Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:		Received by:		Date/Time
1. Sign	Paul Kareth	1. Sign	U Murray	1/9/91
for		for		18:30
2. Sign		2. Sign		/ /
for		for		:
3. Sign		3. Sign		/ /
for		for		:

Sample(s) Received in Laboratory by K Milly 1/9/91 @ 900

	Client I.D.# / Lab#	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	PS-02 / 016	PS-02 / 1/4/91 1720	S	TPH		✓		✓	pint glass
2		PK 1/4/91 / 1/ /91 :	S	TPH		✓		✓	pint glass
3		/ 1/ /91 :	S	TPH		✓		✓	pint glass
4		/ 1/ /91 :	S	TPH		✓		✓	pint glass
5		/ 1/ /91 :	S	TPH		✓		✓	pint glass

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each		1									

Additional Analytes 1 week turn

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____ (X), _____ (Y).

027

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job No. A90/5533
Client Project No. 9004217

Sample Origination & Shipping Information

Collection Site WAITE RD

Address 1WAITE RD (Street) CLIFTON PARK (City) NY (State) (Zip)

Collector PAUL KARETH (Print) Paul Kareth (Signature)

Bottles Prepared by _____ Rec'd by _____

Bottles Shipped to Client via _____ Seal/Shipping # _____

Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:		Received by:		Date/Time
1. Sign	Paul Kareth	1. Sign	O Murray	1/4/91
for		for		13:30
2. Sign		2. Sign		/ /
for		for		:
3. Sign		3. Sign		/ /
for		for		:

Sample(s) Received in Laboratory by K Mully 1/4/91 @ 9 00

	Client I.D.# / Lab#	Sample Location / Date/Time	★	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	PS-A1 / 001	PS-A1 / 1/4/91 10:20	S	PCB's		✓		✓	1 pint glass
2	PS-B1 / 002	PS-B1 / 1/4/91 10:35	S	PCB's		✓		✓	pint glass
3	PS-B2 / 003	PS-B2 / 1/4/91 11:00	S	PCB's		✓		✓	pint glass
4	PS-B3 / 004	PS-B3 / 1/4/91 11:20	S	PCB's		✓		✓	pint glass
5	PS-B4 / 005	PS-B4 / 1/4/91 11:45	S	PCB's		✓		✓	pint glass

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each		1									

Additional Analytes 2 week turn

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

★ Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____ (X), _____ (Y).

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job No. R90/5533
Client Project No. 90C4217

Sample Origination & Shipping Information

Collection Site WAITE RD
Address WAITE Rd (Street) CLIFTON PARK (City) NY (State) (Zip)
Collector PAUL KARETH (Print) Paul Kareth (Signature)

Bottles Prepared by _____ Rec'd by _____
Bottles Shipped to Client via _____ Seal/Shipping # _____
Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:		Received by:		Date/Time
1. Sign	Paul Kareth	1. Sign	O Murray	1/4/91
for		for		18:30
2. Sign		2. Sign		/ /
for		for		:
3. Sign		3. Sign		/ /
for		for		:

Sample(s) Received in Laboratory by K Mully 1/7/91 @ 9 00

	Client I.D.# / Lab#	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	PS-E1 / 006	PS-E1 / 1/4/91 1200	S	PCB's		-		-	pint glass
2	PS-E2 / 007	PS-E2 / 1/4/91 1215	S	PCB's		-		-	pint glass
3	PS-AR1 / 008	PS-AR-1 / 1/4/91 1235	S	PCB's		-		-	pint glass
4	PS-AR2 / 009	PS-AR2 / 1/4/91 1245	S	PCB's		-		-	pint glass
5	PS-AR3 / 010	PS-AR3 / 1/4/91 1300	S	PCB's		-		-	pint glass

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each		1									

Additional Analytes 2 week turn

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____(X), _____(Y).

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job No. R90/5533
Client Project No. 90C4217

Sample Origination & Shipping Information

Collection Site WAITE RD

Address WAITE RD (Street) CLIFTON PARK (City) NY (State) (Zip)

Collector PAUL KARETH (Print) Paul Kareth (Signature)

Bottles Prepared by _____ Rec'd by _____

Bottles Shipped to Client via _____ Seal/Shipping # _____

Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:		Received by:		Date/Time
1. Sign	Paul Kareth	1. Sign	Murray	1/4/91
for		for		18:30
2. Sign		2. Sign		/ /
for		for		:
3. Sign		3. Sign		/ /
for		for		:

Sample(s) Received in Laboratory by K Milly 1/7/91 @ 9:00

	Client I.D.# / Lab#	Sample Location / Date/Time	★	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	PS-C-S1 / 011	PS-C-S1 / 1/4/91 1315	S	PCB's		-		/	pint glass
2	PS-C-S2 / 012	PS-C-S2 / 1/4/91 1330	S	PCB's				-	pint glass
3	PS-C-S3 / 013	PS-C-S3 / 1/4/91 1345	S	PCB's				/	pint glass
4	PS-C1 / 014	PS-C1 / 1/4/91 1400	S	PCB's				-	pint glass
5	PS-D1 / 015	PS-D1 / 1/4/91 1410	S	PCB's				-	pint glass

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each		1									

Additional Analytes 2 week turn

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

★ Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____ (X), _____ (Y).

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job No. R90/5533
Client Project No. 90C4217

Sample Origination & Shipping Information

Collection Site WAITE RD
Address IVAITE RD (Street) CLIFTON PARK (City) NY (State) (Zip)
Collector PAUL KARETH (Print) Paul Kareth (Signature)

Bottles Prepared by _____ Rec'd by _____
Bottles Shipped to Client via _____ Seal/Shipping # _____
Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign Paul Kareth	1. Sign Unreadable	1/4/91
for	for	18:30
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by K Milly 1/7/91 @ 9:00

	Client I.D.# / Lab#	Sample Location / Date/Time	★	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	FS-02 / 016	PS-02 / 1/4/91 1420	S	PCBs		✓		✓	pint glass
2		PR 1/4/91 / 1/4/91 :	S	PCBs		✓		✓	pint glass
3		/ 1/4/91 :	S	PCBs		✓		✓	pint glass
4		/ 1/4/91 :	S	PCBs		✓		✓	pint glass
5		/ 1/4/91 :	S	PCBs		✓		✓	pint glass

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each		1									

Additional Analytes 2 week turn

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

★ Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____ (X), _____ (Y).

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job No. 491|0129
Client Project No. 406217

Sample Origination & Shipping Information

Collection Site Waite Rd
Address Waite Rd (Street) Clifton Park (City) NY (State) (Zip)
Collector Paul Karath (Print) Paul Karath (Signature)

Bottles Prepared by _____ Rec'd by _____
Bottles Shipped to Client via _____ Seal/Shipping # _____
Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign Paul Karath	1. Sign KMilly GTC	1/9/91 13:25
for	for	
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by _____ / / @ :

	Client I.D.# / Lab#	Sample Location / Date/Time	★	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Sample Prep Preserved N	Sample Prep Filtered Y	Sample Prep Filtered N	Bottle Set(s) (see below)
1	PS-S41 / 1	PS-S41 / 1/8/91 :901	S	TPH				✓	pint glass
2	PS-S42 / 2	PS-S42 / 1/8/91 :915	S	TPH				✓	pint glass
3	PS-C2 / 3	PS-C2 / 1/8/91 :1410	S	TPH				✓	pint glass
4	PS-C-S4 / 4	PS-C-S4 / 1/8/91 :1420	S	TPH				✓	pint glass
5	PS-LZ1 / 5	PS-LZ1 / 1/9/91 :1200 (1/24 JW)	S	TPH				✓	pint glass

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each		1									

Additional Analytes 1 week turnaround

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

★ Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____(X), _____(Y).

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street 85 Trinity Place
Rochester, NY 14608 Hackensack, NJ 07601

GTC Job No. R91/0129
Client Project No. 90C4717

Sample Origination & Shipping Information

Collection Site Waite Rd
Address Waite Rd (Street) Clifton Park (City) NY (State) (Zip)
Collector Paul Kareth (Print) Paul Kareth (Signature)

Bottles Prepared by
Bottles Shipped to Client via
Samples Shipped via
Rec'd by
Seal/Shipping #
Seal/Shipping #

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign Paul Kareth	1. Sign K Milly	1/9/91
for	for GTC	17:25
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by / / @ :

	Client I.D.# / Lab#	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)	Rec'd at GTC
1	PS-C-55 / 6	PS-C-55 / 1/9/91 1300	S	TPH				✓	pint glass	
2	PS-C3 / 7	PS-C3 / 1/9/91 1315	S	TPH				✓	pint glass	
3		/ / :								
4		/ / :								
5		/ / :								

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each		1									

Additional Analytes 1 week turnaround

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), (X), (Y).

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street, Rochester, NY 14608 | 85 Trinity Place, Hackensack, NJ 07601 | 435 Lawrence Bell Drive, Amherst, NY 14221-7077

GTC Job No. 491/0129
Client Project No. & 90 c4217

Sample Origination & Shipping Information

Collection Site Waite Rd
Address Waite Rd (Street) Clifton Park (City) NY (State) (Zip)
Collector Paul Kareth (Print) Paul Kareth (Signature)

Bottles Prepared by _____ Rec'd by _____
Bottles Shipped to Client via _____ Seal/Shipping # _____
Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign Paul Kareth	1. Sign K McNally GTC	1/9/91 ~~15:25~~ 17:25 KM
for	for	
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by _____ / / @ :

	Client I.D.# / Lab#	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	PS-SA1 / 1	PS-SA1 / 1/9/91 : 905	S	PCB's				✓	pint glass
2	PS-SA2 / 2	PS-SA2 / 1/9/91 : 915	S	PCB's				✓	pint glass
3	PS-C2 / 3	PS-C2 / 1/9/91 : 1410	S	PCB's				✓	pint glass
4	PS-C-S4 / 4	PS-C-S4 / 1/9/91 : 1470	S	PCB's				✓	pint glass
5	PS-LZ1 / 5	PS-LZ1 / 1/9/91 : 1200	S	PCB's				✓	pint glass

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each											

Additional Analytes 2 week turnaround

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____(X), _____(Y).

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street
Rochester, NY 14608

85 Trinity Place
Hackensack, NJ 07601

GTC Job No. 691/0129
Client Project No. #90C4217

Sample Origination & Shipping Information

Collection Site Vista Rd

Address Vista Rd (Street) Clifton Park (City) NY (State) (Zip)

Collector Paul Kareth (Print) Paul Kareth (Signature)

Bottles Prepared by _____ Rec'd by _____

Bottles Shipped to Client via _____ Seal/Shipping # _____

Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign Paul Kareth	1. Sign KM for GTC	1/9/91 ~~15:25~~ 17:25 KM
for	for	/ / :
2. Sign	2. Sign	/ / :
for	for	:
3. Sign	3. Sign	/ / :
for	for	:

Sample(s) Received in Laboratory by _____ / / @ :

	Client I.D.# / Lab#	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)	Rec'd at GTC
1	PS-C-55 / 6	PS-C-55 / 1/9/91 : 1305	S	PCB's				✓	pint glass	
2	PS-C3 / 4	PS-C3 / 1/9/91 : 1315		PCB's				✓	pint glass	
3		/ / :								
4		/ / :								
5		/ / :								

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each		1									

Additional Analytes 2 week turnaround

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____ (X), _____ (Y).

General Testing Corporation

GTC REPORT # R90/5533
R91/0129

SECTION F

DOCUMENTATION FILE

Presented in this section is all support documentation requested.

Documentation Provided:

( ) Chain of Custody Forms

( ) Analytical Request Forms

( ) Shipping Receipts

( ) Laboratory Receipt Log

(X) Laboratory Support Documentation

( ) Other:

R90/5533

GC 8080

PCB'S

SUPPORT DOCUMENTATION

General Testing Corporation

Standards Documentation Sheet

Analysis: PCB Starting Date: 1-12-91

GC: HP5730A-A Column: 2401/2250

Integrator: HP3396A Temperature: 210°C

Included Jobs: R90/5533

Standards/RF sheets in ~~Standards File dated:~~ 1-7-91

Initial Calibration

Date: 1-7-91 Time: 14:17

Continuing Calibration

Date: 1-11-91 Time: 23:13

Date: 1-12-91 Time: 11:18

Date: 1-12-91 Time: 23:22

Date: 1-13-91 Time: 11:27

Date: 1-14-91 Time: 07:39

Date: 1-14-91 Time: 20:44

Analyst: [signature]

General Testing corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: DAVE MASUCCI
Date: 1/15/91
Time: 01:46
Run #: 124

PCB's (8080/608)
CONTINUING CALIBRATION CHECK

Calibration Date: 1/7/91
Column: 1.95% SP2401/1.5% SP2250

Instrument ID: HP 5730A-A
Oven Temp: 210 C

Compound	Conc.	Retention Times	Area Units (x.0001)	New Respons Factor	Initial Response Factor	%RSD
		3.22	117			
PCB 1248	500	5.75	111	1.37	1.33	2.7
		6.74	138			

Analyst

general testing corporation

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

4C - PESTICIDE METHOD BLANK SUMMARY

Lab Name: General Testing Corp. Contract: _____

Lab Code: gTC Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: R90/5533
Matrix: (soil/water) soil
Date Extracted: 1-10-91
Date Analyzed: (1): 1-13-91
Time Analyzed: (1): 00:22
Instrument ID (1): HP5730A-A
GC Column ID (1): 240/2250

Lab File ID: _____
Level: (low/med) Low
Extraction: (SepF/Cont/Sonc) Sonc
Date Analyzed: (2): _____
Time Analyzed: (2): _____
Instrument ID (2): _____
GC Column ID (2): _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01		R90/5533-Refsek	1-13-91	
02		-1MSD	1-12;13-91	
03		-1MS	↓	
04		-1	1-12;13-91	
05		-2	1-12-91	
06		-3	1-13-91	
07		-4	1-12;13-91	
08		-5	1-13-91	
09		-6	1-13-91	
10		-7	↓	
11		-8	1-12-91	
12		-9	1-12;13-91	
13		-10	1-13;14-91	
14		-11	1-12;15-91	
15		-12	1-12;13-91	
16		-13	1-12;13-91	
17		-14	1-12;13-91	
18		-15	↓	
19	↓	-16	↓	
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

general testing corporation

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

8E - PESTICIDE EVALUATION STANDARDS SUMMARY
Evaluation of Retention Time Shift for Dibutylchlorendate

Lab Name: General Testing Corp. Contract: _____

Lab Code: gTC Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5730A-A GC Column ID: 2401/2250

Dates of Analyses: 1-11-91 to 1-15-91

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	AR 1248 STD3	PCB1248 500ppb	1-11-91	23:15		(242
02		R90/5533-1 ms 1/10	1-12-91	02:14	0.7	
03		-1msD		03:15	0.7	
04		-1		04:15	0.8	
05		-2		05:15	0.7	
06		-4		07:16	0.5	
07	AR 1254 STD3	PCB 1254 500		11:18	0.6	
08		R90/5533-8 1/10		13:18	0.7	
09		-9		14:19	0.5	
10		-11		16:19	0.5	
11		-12		17:20	0.5	
12		-13		18:20	0.5	
13		-14		19:20	0.6	
14		-15		20:21	0.6	
15		-16		21:21	0.4	
16	AR 1260 STD4	PCB 1260 250 ppb		23:22	0.7	
17		R90/5533-BLK	1-13-91	00:22	0.5	
18		-refBLK		01:23	0.5	
19		-1MS		02:23	0.6	
20		-1MSD		03:23	0.7	
21		-1		04:24	0.8	
22		-3		06:25	0.7	
23		-4		07:25	0.8	
24		-5		08:25	1.1	
25		-6		09:26	0.7	
26	AR 1248 STD4	PCB 1248 250ppb		11:27	0.3	
27		R90/5533-7		12:27	0.4	
28		-9		14:28	0.3	
29		-10		15:28	0.2	
30		-12		17:29	0.1	
		-13		18:29	0.2	

* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

general testing corporation

water and wastewater testing specialists

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Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

8E - PESTICIDE EVALUATION STANDARDS SUMMARY
Evaluation of Retention Time Shift for Dibutylchlorendate

Lab Name: General Testing Corp. Contract: _____

Lab Code: GTC Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5730A-A GC Column ID: 2401225C

Dates of Analyses: 1-11-91 to 1-15-91

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01		R901553314	1-13-91	19:30	0.3	
02		-15	↓	20:30	0.3	
03		-16	↓	21:30	0.3	
04	AR 1254 STD 4	PCB 1254 250ppb R901553310 Y50	1-14-91	02:38	0.4	*
05			↓	12:37	0.3	
06	AR 1248 STD3	PCB1248 500ppb	↓	01:46	0.4	*
07		R901553311	1-15-90	02:46	0.3	
08	AR 1248 STD3	pcb1248 500ppb	↓	01:46	0.2	
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

general testing corporation

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85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

2F - SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

Lab Code: GTC Case No.: _____ SAS No.: _____ SDG No.: _____

	EPA SAMPLE NO.	S1 (DBC) #	TCMX
01	R90/5533-BLK	104	68
02	-RefSeK	146	83
03	-1msb	137	84
04	-1ms	139	90
05	-1	164 t	100
06	-2	164 t	117
07	-3	113	76
08	-4	131	96
09	-5	119	50
10	-6	113	73
11	-7	86	46
12	-8	148	93
13	-9	107	87
14	-10	75	73
15	-11	106	80
16	-12	88	70
17	-13	117	101
18	-14	76	67
19	-15	80	74
20	-16	79	50
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

t Surrogates outside of a.c. limits due to suspected matrix interference.

S1 (DBC) = Dibutylchlorendate

Column used to flag recovery values

++ Values outside of QC limits

D Surrogates diluted out

ADVISORY QC LIMITS (20-150)

FORM II PEST-2
NYDEC B-84

053

GENERAL TESTING CORPORATION
710 Exchange St.,Rochester, N.Y
(716)454-3760

Analyst: D. Masucci
Date: 1/15/91
Instrument: HP5730A-A
Date Extracted: 1/10/91

Client: WCC
Job#: R90/5533-1

PCB MATRIX SPIKE

Lab Name: General Testing Corp.
Lab Code:GTC Case No.:_____ SAS No.:_____

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONC. (ug/kg)	MS CONC. (ug/kg)	MS % REC	(#)	QC LIMITS % REC.
PCB 1016	-----	200 U	200 U			50-114
PCB 1221	-----	200 U	200 U			15-178
PCB 1232	-----	200 U	200 U			10-215
PCB 1242	-----	200 U	200 U			39-150
PCB 1248	-----	200 U	200 U			38-158
PCB 1254	2000	20.0 U	2210	110		29-131
PCB 1260	-----	20.0 U	20.0 U			8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONC. (ug/kg)	MSD % REC.	(#)	RPD	(#)	QC LIMITS RPD	%REC
PCB 1016	-----	200 U					30	50-114
PCB 1221	-----	200 U					30	15-187
PCB 1232	-----	200 U					30	10-215
PCB 1242	-----	200 U					30	39-150
PCB 1248	-----	200 U					30	38-158
PCB 1254	2000	2080	104		6.1		30	29-131
PCB 1260	-----	20.0 U					30	8-127

Spike Recovery: 0 out of 2 outside limits.

RPD: 0 out of 1 outside limits.

COMMENTS:

Analyst's Signature

056

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/15/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed: 1/12/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-1MS
Run #: 58

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	10	200 U	
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254	SEE	ATTACHED	623	3.00	10	2080	
PCB 1260			0.00	3.00	10	200 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.57	37.6	30.0	33.3	90	31-141	
Dibutylchlorendate	24.12	56.5	46.3	33.3	139	24-150	

Surrogates calc. using straight.

Analyst

General testing corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: D. Masucci
Date: 1/15/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed: 1/12/91
Client: WCC
Job #: R90/5533-1MS
Run #: 58

Analysis: Priority Pollutant Data
PCB's

PCB 1254

MULTI-PEAK RESPONSE WORKSHEET

Pk. #	STD #1 R.T.	SAMPLE R.T.	SAMPLE AREA	R.F.	CONC. (ug/L)	Avg. CONC. (ug/L)
1	3.88	3.93	92.6	7.47	692	623
2	4.58	4.63	38.3	18.6	714	
3	5.88	5.94	39.5	12.8	507	
4	6.45	6.54	167	3.61	603	
5	8.07	8.17	59.3	10.3	609	
6	8.66	8.77	187	3.21	601	
7	9.81	9.93	296	2.17	642	
8	10.96	11.10	176	3.37	593	
9	12.37	12.52	229	2.81	644	
10	13.93	14.11	274	2.30	631	
11	17.73	17.93	71.6	8.62	617	

Analyst's Signature

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT #2

Analyst: D. MASUCCI
Date: 1/15/91
Instrument ID: HP 5890A-A
Date Extracted: 1/10/91
Date Analyzed: 1/12/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-1MSD
Run #: 59

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	10	200 U	
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254	SEE	ATTACHED	662	3.00	10	2210	
PCB 1260			0.00	3.00	10	200 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	% Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.57	35.2	28.0	33.3	84	31-141	
Dibutylchlorendate	24.10	55.6	45.6	33.3	137	24-150	

Surrogates calc. using straight.

Analyst

General Testing Corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analysis: Priority Pollutant Data
PCB's

PCB 1254

Analyst: D. Masucci
Date: 1/15/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed: 1/12/91
Client: WCC
Job #: R90/5533-1MSD
Run #: 59

MULTI-PEAK RESPONSE WORKSHEET #2

Pk. #	STD #1 R.T.	SAMPLE R.T.	SAMPLE AREA	R.F.	CONC. (ug/kg)	Avg. CONC. (ug/kg)
1	3.88	3.94	90.2	7.47	674	662
2	4.58	4.64	37.1	18.6	691	
3	5.88	5.95	38.4	12.8	493	
4	6.45	6.54	162	3.61	585	
5	8.07	8.17	119	10.3	1223	
6	8.66	8.77	181	3.21	582	
7	9.81	9.93	287	2.17	623	
8	10.96	11.09	170	3.37	573	
9	12.37	12.51	221	2.81	622	
10	13.93	14.10	266	2.30	613	
11	17.73	17.93	69.9	8.62	602	

Analyst's Signature

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: Dave Masucci
Date: 1/14/91
Date Extracted: 1/10/91
Date Analyzed:1/13/91
Client: WCC
Job #: R90/5533-BLK

PCB Analysis - QC Summary
LAB BLANK & REFERENCE CHECK

Compound	Lab Blank Conc.	Reference Spike: True Conc. (ug/kg)	Reference Spike: Percent Recovery	Reference Spike: Acceptance Limit
PCB 1016	20.0 U			50-114
PCB 1221	20.0 U			15-178
PCB 1232	20.0 U			10-215
PCB 1242	20.0 U			39-150
PCB 1248	20.0 U			38-158
PCB 1254	20.0 U	66.7	123	29-131
PCB 1260	20.0 U			8-127

Surrogate Standards	Blank % Rec.	Amount Added	Percent Recovery	Acceptance Limit
Tetrachloro-m-xylene	68	33.3	83	27-119
Dibutylchlorendate	104	33.3	146	24-154

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT #2

Analyst: D. MASUCCI
Date: 1/14/91
Instrument ID: HP 5890A-A
Date Extracted: 1/10/91
Date Analyzed: 1/13/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-REF SPK
Run #: 81

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	1.0	0.00	
PCB 1221			0.00	3.00	1.0	0.00	
PCB 1232			0.00	3.00	1.0	0.00	
PCB 1242			0.00	3.00	1.0	0.00	
PCB 1248			0.00	3.00	1.0	0.00	
PCB 1254	SEE	ATTACHED	246	3.00	1.0	82.0	
PCB 1260			0.00	3.00	1.0	0.00	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	% Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.57	34.6	27.6	33.3	83	31-141	
Dibutylchlorendate	24.14	59.3	48.6	33.3	146	24-150	

Analyst

General Testing Corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: D. Masucci
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed:1/13/91
Client: WCC
Job #: R90/5533-REF SPK
Run #: 81

Analysis: Priority Pollutant Data
PCB's

PCB 1254

MULTI-PEAK RESPONSE WORKSHEET #2

Pk. #	STD #1 R.T.	SAMPLE R.T.	SAMPLE AREA	R.F.		CONC. (ug/kg)	Avg. CONC. (ug/kg)
1	3.88	3.96	24.1	7.47		180	246
2	4.58	4.64	7.12	18.6		133	
3	5.88	5.75	78.8	12.8	*	1011	
4	6.45	6.72	120	3.61		433	
5	8.07	8.20	20.9	10.3		215	
6	8.66	8.77	59.0	3.21		190	
7	9.81	9.94	185	2.17		401	
8	10.96	11.09	88.1	3.37		297	
9	12.37	12.58	28.6	2.81		80	
10	13.93	14.12	81.4	2.30		188	
11	17.73	17.90	40.4	8.62		348	

Analyst's Signature

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed:1/13/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-BLK
Run #: 80

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	1.0	20.0	U
PCB 1221			0.00	3.00	1.0	20.0	U
PCB 1232			0.00	3.00	1.0	20.0	U
PCB 1242			0.00	3.00	1.0	20.0	U
PCB 1248			0.00	3.00	1.0	20.0	U
PCB 1254			0.00	3.00	1.0	20.0	U
PCB 1260			0.00	3.00	1.0	20.0	U

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.57	28.3	22.5	33.3	68	31-141	
Dibutylchlorendate	24.15	42.1	34.5	33.3	104	24-150	

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed: 1/12,13/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-1
Run #: 60,84

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.0	10	200 U	
PCB 1221			0.00	3.0	10	200 U	
PCB 1232			0.00	3.0	10	200 U	
PCB 1242			0.00	3.0	10	200 U	
PCB 1248			0.00	3.0	10	200 U	
PCB 1254			0.00	3.0	1.0	20.0 U	
PCB 1260			0.00	3.0	1.0	20.0 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.57	42.0	33.5	33.3	100	31-141	
Dibutylchlorendate	24.08	66.8	54.8	33.3	164	24-150	t

t = Suspected matrix interference.

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed:1/12/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-2
Run #: 61

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.0	10	200 U	
PCB 1221			0.00	3.0	10	200 U	
PCB 1232			0.00	3.0	10	200 U	
PCB 1242			0.00	3.0	10	200 U	
PCB 1248			0.00	3.0	10	200 U	
PCB 1254			0.00	3.0	10	200 U	
PCB 1260			0.00	3.0	10	200 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.57	4.88	38.9	33.3	117	31-141	
Dibutylchlorendate	24.09	6.66	54.6	33.3	164	24-150	t

t = Suspected matrix interference.

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/13/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed:1/13/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-3
Run #: 86

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	1.0	20.0	U
PCB 1221			0.00	3.00	1.0	20.0	U
PCB 1232			0.00	3.00	1.0	20.0	U
PCB 1242			0.00	3.00	1.0	20.0	U
PCB 1248			0.00	3.00	1.0	20.0	U
PCB 1254			0.00	3.00	1.0	20.0	U
PCB 1260			0.00	3.00	1.0	20.0	U

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.57	31.9	25.4	33.3	76	31-141	
Dibutylchlorendate	24.10	45.9	37.6	33.3	113	24-150	

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed: 1/12,13/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-4
Run #: 63,87

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	10	200 U	
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254			0.00	3.00	1.0	20.0 U	
PCB 1260			0.00	3.00	1.0	20.0 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.57	4.01	31.9	33.3	96	31-141	
Dibutylchlorendate	24.14	5.30	43.5	33.3	131	24-150	

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed:1/13/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-5
Run #: 88

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	1.0	20.0 U	
PCB 1221			0.00	3.00	1.0	20.0 U	
PCB 1232			0.00	3.00	1.0	20.0 U	
PCB 1242			0.00	3.00	1.0	20.0 U	
PCB 1248				3.00	1.0	20.0 U	
PCB 1254			0.00	3.00	1.0	20.0 U	
PCB 1260			0.00	3.00	1.0	20.0 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.57	21.0	17	33.3	50	31-141	
Dibutylchlorendate	24.00	48.2	40	33.3	119	24-150	

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed: 1/13/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-6
Run #: 65,89

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	10	200 U	
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254			0.00	3.00	1.0	20.0 U	
PCB 1260	SEE	ATTACHED	201	3.00	1.0	67.0	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.57	30.6	24	33.3	73	31-141	
Dibutylchlorendate	24.09	46.0	38	33.3	113	24-150	

Analyst

General testing corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: D. Masucci
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed:1/13/91
Client: WCC
Job #: R90/5533-6
Run #: 65,89

Analysis: Priority Pollutant Data
PCB's

PCB 1260

MULTI-PEAK RESPONSE WORKSHEET

Pk. #	STD #1 R.T.	SAMPLE R.T.	SAMPLE AREA	R.F.		CONC. (ug/L)	Avg. CONC. (ug/L)
1	5.81			10.0	*	0	201
2	6.37			9.89	*	0	
3	8.75	8.76	71.4	3.61		258	
4	9.67	9.89	13.5	3.72	*	50	
5	10.85	11.08	85.6	1.89		162	
6	12.22	12.50	98.1	2.87		282	
7	13.76	14.07	105	2.22		233	
8	14.69	15.02	53.1	2.85		151	
9	17.87	18.16	40.7	4.96		202	
10	18.80	19.17	17.7	11.4		202	
11	21.17	21.57	133	1.29		171	
12	27.17	27.79	115	1.27		146	
13	36.32			12.4	*	0	
14	41.93			4.58	*	0	

Analyst's Signature

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed:1/13/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-7
Run #: 92

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.01	1.0	20.0 U	
PCB 1221			0.00	3.01	1.0	20.0 U	
PCB 1232			0.00	3.01	1.0	20.0 U	
PCB 1242			0.00	3.01	1.0	20.0 U	
PCB 1248			0.00	3.01	1.0	20.0 U	
PCB 1254			0.00	3.01	1.0	20.0 U	
PCB 1260			0.00	3.01	1.0	20.0 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.57	19.2	15	33.3	46	31-141	
Dibutylchlorendate	24.17	34.9	29	33.3	86	24-150	

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed:1/12/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-8
Run #: 69

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	10	200 U	
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254			0.00	3.00	10	200 U	
PCB 1260	SEE	ATTACHED	162	3.00	10	540	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.57	3.87	30.8	33.3	93	31-141	
Dibutylchlorendate	24.10	6.00	49.2	33.3	148	24-150	

Analyst

General testing corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: D. Masucci
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed:1/12/91
Client: WCC
Job #: R90/5533-8
Run #: 69

Analysis: Priority Pollutant Data
PCB's

PCB 1260

MULTI-PEAK RESPONSE WORKSHEET

Pk. #	STD #1 R.T.	SAMPLE R.T.	SAMPLE AREA	R.F.		CONC. (ug/L)	Avg. CONC. (ug/L)
1	5.81	5.97	17.6	10.0		176	162
2	6.37	6.52	5.38	9.89	*	53	
3	8.75	9.11	50.8	3.61		184	
4	9.67	9.95	65.3	3.72		243	
5	10.85	11.12	64.3	1.89		122	
6	12.22	12.52	51.4	2.87		148	
7	13.76	14.09	68.0	2.22		151	
8	14.69	15.04	49.2	2.85		140	
9	17.87	18.31	29.0	4.96		144	
10	18.80	19.25	7.48	11.4	*	85	
11	21.17	21.62	117	1.29		151	
12	27.17	27.86	110	1.27		140	
13	36.32	37.04	12.4	12.4		154	
14	41.93	41.97	42.5	4.58		195	

Analyst's Signature

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed: 1/12/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-9
Run #: 70

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	10	200 U	
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254			0.00	3.00	10	200 U	
PCB 1260	SEE	ATTACHED	122	3.00	10	407	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.57	36.5	29.1	33.3	87	31-141	
Dibutylchlorendate	24.19	43.6	35.8	33.3	107	24-150	

Straight used to calc. surrogate.

Analyst

General testing corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: D. Masucci
Date: 1/14/91
Instrument: HPS730A-A
Date Extracted: 1/10/91
Date Analyzed:1/12/91
Client: WCC
Job #: R90/5533-9
Run #: 70

Analysis: Priority Pollutant Data
PCB's

PCB 1260

MULTI-PEAK RESPONSE WORKSHEET

Pk. #	STD #1 R.T.	SAMPLE R.T.	SAMPLE AREA	R.F.	CONC. (ug/L)	Avg. CONC. (ug/L)
1	5.81	5.98	16.8	10.0	168	122
2	6.37	6.54	8.06	9.89	80	
3	8.75	8.96	33.2	3.61	120	
4	9.67	9.90	32.6	3.72	121	
5	10.85	11.12	54.4	1.89	103	
6	12.22	12.51	38.0	2.87	109	
7	13.76	14.08	53.0	2.22	117	
8	14.69	15.04	45.0	2.85	128	
9	17.87	18.30	23.3	4.96	116	
10	18.80	19.27	8.53	11.4	97	
11	21.17	21.61	103	1.29	133	
12	27.17	27.85	97.4	1.27	124	
13	36.32	37.07	16.9	12.4 *	209	
14	41.93	42.03	38.3	4.58	176	

Analyst's Signature

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed:1/14/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-10
Run #: 111

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	50	1000 U	
PCB 1221			0.00	3.00	50	1000 U	
PCB 1232			0.00	3.00	50	1000 U	
PCB 1242			0.00	3.00	50	1000 U	
PCB 1248			0.00	3.00	50	1000 U	
PCB 1254			0.00	3.00	50	1000 U	
PCB 1260	SEE	ATTACHED	68.0	3.00	50	1130	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.65	30.6	24.4	33.3	73	31-141	
Dibutylchlorendate	24.21	30.4	24.9	33.3	75	24-150	

Straight used to calc. surrogate.

Analyst

General testing corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analysis: Priority Pollutant Data
PCB's

PCB 1260
MULTI-PEAK RESPONSE WORKSHEET

Analyst: D. Masucci
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed: 1/14/91
Client: WCC
Job #: R90/5533-10
Run #: 111

Pk. #	STD #1 R.T.	SAMPLE R.T.	SAMPLE AREA	R.F.	CONC. (ug/L)	Avg. CONC. (ug/L)
1	5.81	5.98	14.2	10.0 *	142	68
2	6.37	6.55	4.71	9.89	47	
3	8.75	9.10	22.5	3.61	81	
4	9.67	9.96	27.2	3.72	101	
5	10.85	11.15	33.6	1.89	64	
6	12.22	12.56	22.1	2.87	63	
7	13.76	14.13	32.1	2.22	71	
8	14.69	15.09	24.2	2.85	69	
9	17.87	18.34	14.1	4.96	70	
10	18.80	19.33	4.25	11.4	48	
11	21.17	21.69	48.6	1.29	63	
12	27.17		97.4	1.27 *	124	
13	36.32		16.9	12.4 *	209	
14	41.93		38.3	4.58 *	176	

Analyst's Signature

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed:1/12/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-11
Run #: 72

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	10	200 U	
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254			0.00	3.00	10	200 U	
PCB 1260			0.00	3.00	10	200 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.58	33.6	26.8	33.3	80	31-141	
Dibutylchlorendate	24.20	42.9	35.2	33.3	106	24-150	

Surrogates calc. using straight.

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed:1/12,13/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-12
Run #: 73,97

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	10	200 U	
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254			0.00	3.00	1.0	20.0 U	
PCB 1260			0.00	3.00	1.0	20.0 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.58	29.1	23.2	33.3	70	31-141	
Dibutylchlorendate	24.25	35.8	29.4	33.3	88	24-150	

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed:1/12/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-13
Run #: 74

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	10	200 U	
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254			0.00	3.00	1.0	200 U	
PCB 1260			0.00	3.00	1.0	200 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.58	48.8	38.9	33.3	117	31-141	
Dibutylchlorendate	24.21	41.2	33.8	33.3	101	24-150	

Surrogates calc. using straight.

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed: 1/12,13/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-14
Run #: 75,99

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	10	200 U	
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254			0.00	3.00	1.0	20.0 U	
PCB 1260			0.00	3.00	1.0	20.0 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.57	27.8	22.1	33.3	67	31-141	
Dibutylchlorendate	24.20	30.8	25.3	33.3	76	24-150	

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed:1/12,13/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-15
Run #: 76,100

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	10	200 U	
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254			0.00	3.00	1.0	20.0 U	
PCB 1260			0.00	3.00	1.0	20.0 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.58	30.8	24.5	33.3	74	31-141	
Dibutylchlorendate	24.19	32.3	26.5	33.3	80	24-150	

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/14/91
Instrument: HP5730A-A
Date Extracted: 1/10/91
Date Analyzed:1/12,13/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R90/5533-16
Run #: 77,101

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	10	200 U	
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254			0.00	3.00	1.0	20.0 U	
PCB 1260			0.00	3.00	1.0	20.0 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.58	20.9	16.7	33.3	50	31-141	
Dibutylchlorendate	24.19	32.0	26.2	33.3	79	24-150	

Analyst

CLIENT: WCC JOB#: R90/5533 METHOD: PCB by 8080 EXTRACTION: 3550

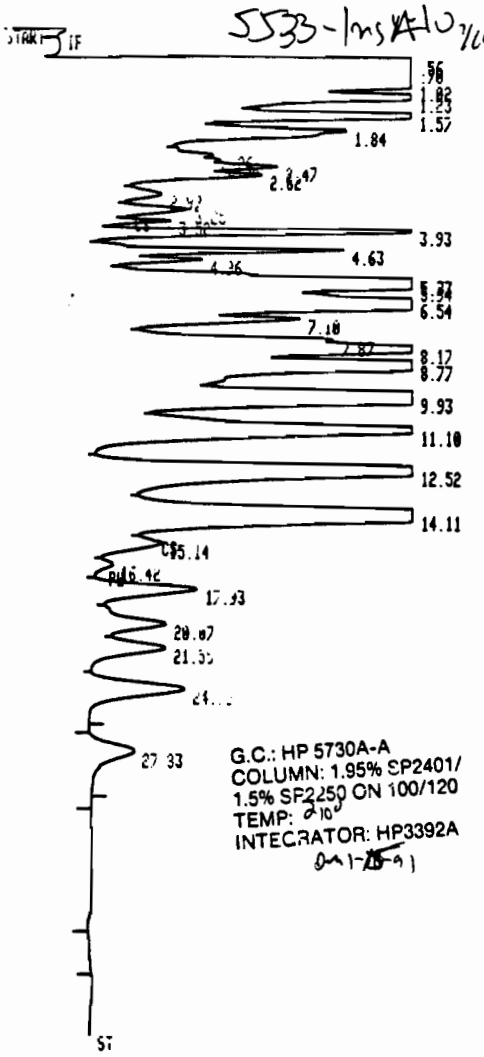
SAMPLE #	INITIAL WT. or VOL	EXTRACT. FINAL VOL	APPEARANCE	SPIKE ADDED	CONC. DATE	PRIMARY CLEAN-UP	DATE	DILUTION & SECONDARY CLU	DATE	COMMENTS	DATE INJ.
1 ✓	30.06g	10ml	Brown soil	For 1ms, 1msD	1/11	Alu, 1/10	1/11/91				1/11/91
1ms	30.05g	↓		1ml PCB 1254	↓	↓	↓				↓
1msD	30.04g			Stock 6.0ppm							
2 ✓	30.07g			in MeOH							
3 ✓	30.04g			p183 SH 11/26/90							
4 ✓	30.01gr		Brown muddy soil								
5 ✓	30.02grs		Brown muddy soil								
6 ✓	30.04grs		Gray muddy soil	For RcF spk							
7 ✓	30.05grs		Brown wet mud	1ml PCB 1254							
8 ✓	30.01grs		Brown Soil	ref spk 20ppm							
9 ✓	30.05grs		Dark Brown wet Mud	in MeOH							
10 ✓	30.02grs		Dark Brown mud	p 166 ppH+M							
11 ✓	30.00grs		Dark Brown soil	8/21/90 PDH							
12 ✓	30.01grs		Black wet muddy Clay	V1							
13 ✓	30.02grs		Dark Brown soil								
14 ✓	30.00grs		Brown Soil								
15 ✓	30.05grs		Dark Brown								
16	30.05grs		Brown soil								
Blk ✓											
RcF spk ✓		↓			↓	↓	↓				↓

DATE EXTRACTED: 1/10/91 MISC. TEB

CLIENT: WCC R90/5533 ANALYSIS: PCB by 8080 ANALYST: M. Cymbal

METHOD SUMMARY:
Sonicate 30g sample, 60g Na_2SO_4 3x's w/ 100mls 1:1 $MeCl_2$: acetone 3 min runs

SURROGATE: 1ml Pest/PCB surr. 1.0ppm DBC + TCMX in MeOH p186 ppH+M 12/14/90 PDH V(5)

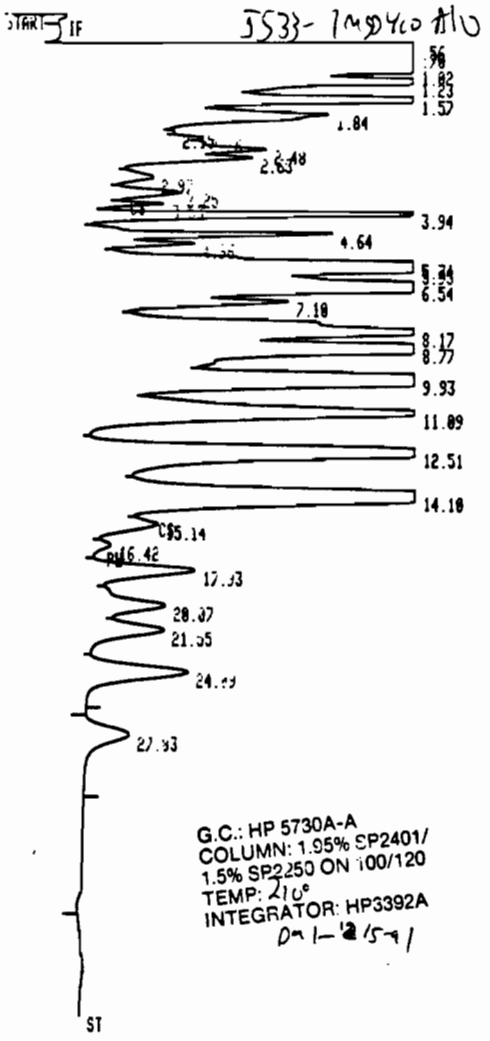


RUN # 58 JAN/12/91 02:14:38
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	1985900	PB	0.881	7.574
0.70	2335400	BB	0.069	9.281
1.02	89668	BB	0.061	0.356
1.23	333380	BB	0.104	1.325
1.57	671300	BB	0.084	2.668
1.84	272170	BB	0.182	1.082
2.47	46450	BB	0.080	0.185
2.62	54285	BB	0.080	0.216
2.97	53241	BB	0.155	0.212
3.25	86012	BB	0.139	0.342
3.52	73843	BB	0.140	0.294
3.93	925680	BB	0.195	3.679
4.63	383220	BB	0.178	1.523
4.96	104640	BB	0.156	0.416
5.94	395210	BB	0.172	1.571
6.54	1665800	BB	0.328	6.620
7.10	214130	BB	0.206	0.851
8.17	593100	BB	0.269	2.357
8.77	1865800	BB	0.315	7.415
9.93	2964600	BB	0.409	11.782
11.10	1765800	BB	0.487	7.014
12.52	2294100	BB	0.589	9.117
14.11	2741400	BB	0.557	10.895
15.14	209150	BB	0.616	0.831
16.42	69606	BB	0.486	0.277
17.93	715920	BB	0.727	2.845
20.07	428800	BB	0.738	1.701
21.55	472510	BB	0.764	1.878
24.10	907910	BB	0.954	3.608
27.83	525120	BB	1.152	2.087

TOTAL AREA= 2.5163E+07
MUL FACTOR= 1.0000E+00



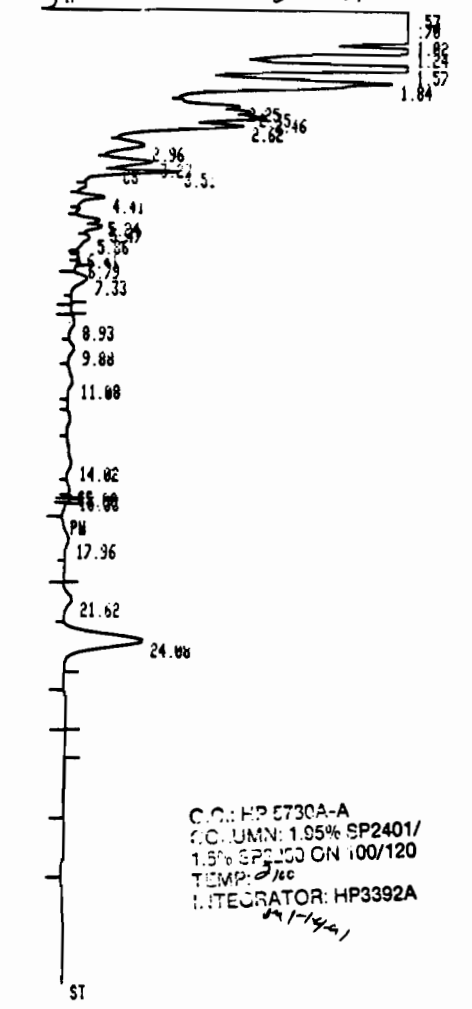
RUN # 59 JAN/12/91 03:15:01
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	1654600	PB	0.082	6.693
0.70	2327300	BB	0.071	9.413
1.02	89448	BB	0.062	0.362
1.23	324500	BB	0.103	1.313
1.57	659560	BB	0.085	2.668
1.84	43246	BB	0.084	0.175
2.26	6589	BB	0.059	0.027
2.48	51170	BB	0.087	0.207
2.63	52112	BB	0.080	0.211
2.97	50463	BB	0.156	0.204
3.25	82996	BB	0.139	0.336
3.53	70928	BB	0.140	0.287
3.94	902340	BB	0.195	3.650
4.64	371030	BB	0.178	1.501
4.96	100490	BB	0.155	0.407
5.95	384010	BB	0.171	1.553
6.54	1618400	BB	0.328	6.546
7.10	204100	BB	0.205	0.826
8.17	1191200	BB	0.424	4.818
8.77	1807600	BB	0.314	7.311
9.93	2873100	BB	0.408	11.621
11.09	1704900	BB	0.487	6.896
12.51	2207700	BB	0.588	8.930
14.10	2659300	BB	0.557	10.756
15.14	200180	BB	0.604	0.810
16.42	66037	BB	0.478	0.267
17.93	699300	BB	0.726	2.828
20.07	413070	BB	0.736	1.671
21.55	454280	BB	0.762	1.837
24.09	945740	BB	0.959	3.825
27.83	508090	BB	1.147	2.055

TOTAL AREA= 2.4724E+07
MUL FACTOR= 1.0000E+00

5533-1 Y10 A1U



RUN # 30 JAN/12/91 04:15:24
WORKFILE ID: C
WORKFILE NAME:

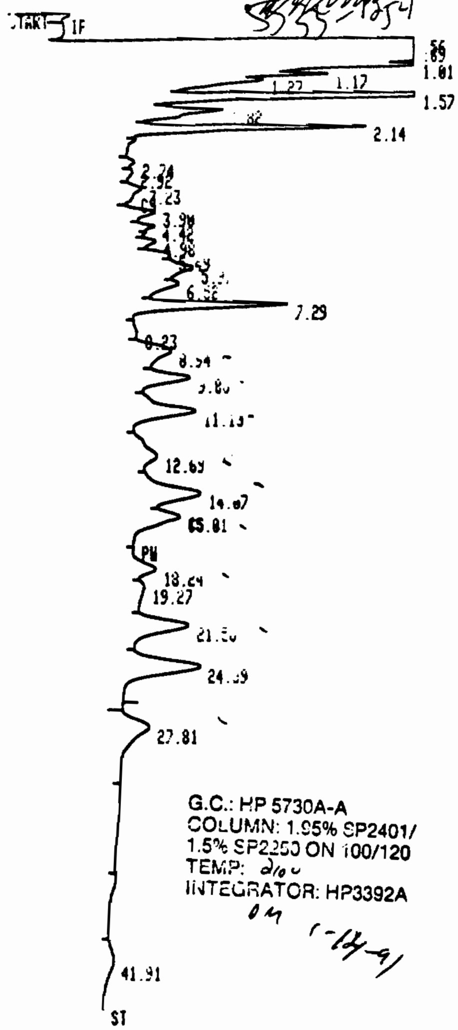
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.53	4.5839E+07	VSPB	0.098	94.581
1.02	27431	BB	0.039	0.057
1.24	284190	BB	0.090	0.586
1.57	578850	BB	0.087	1.194
1.84	317020	BB	0.170	0.654
2.35	5677	BB	0.052	0.012
2.46	28812	BB	0.075	0.060
2.62	43266	BB	0.071	0.089
2.96	49232	BB	0.151	0.102
3.27	49116	BB	0.116	0.101
3.51	91317	BB	0.131	0.188
4.41	49242	PB	0.184	0.102
5.24	14340	PB	0.128	0.030
5.47	17181	BB	0.153	0.036
5.86	20640	BB	0.306	0.043
7.33	51716	BB	0.357	0.107
8.93	17876	BB	0.489	0.037
9.88	22699	BB	0.397	0.047
11.08	26274	BB	0.545	0.054
14.02	36778	PB	0.748	0.076
15.00	13397	BB	0.447	0.028
17.96	51148	PB	1.005	0.106
21.62	70732	PB	0.862	0.146
24.08	759420	BB	0.957	1.567

TOTAL AREA= 4.8465E+07
MUL FACTOR= 1.0000E+00

5533d Y10A1U

55332 VIA ALU

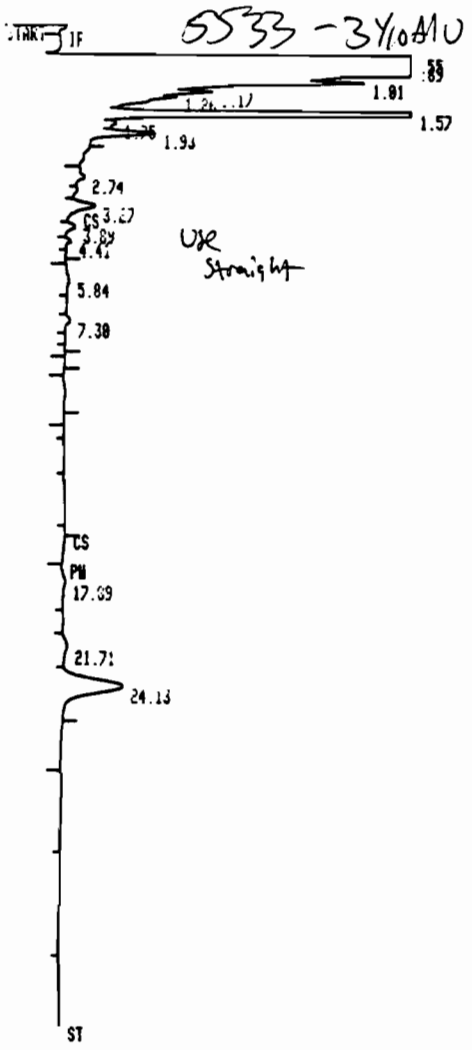


G.C.: HP 5730A-A
COLUMN: 1.95% SP2401/
1.5% SP2250 ON 100/120
TEMP: 210
INTEGRATOR: HP3392A
1-14-91

RUN # 61 JAN/12/91 05:15:47
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	1288700	PB	0.073	19.044
0.69	1081300	BB	0.068	15.980
1.01	40427	BB	0.041	0.597
1.17	27438	BB	0.049	0.406
1.27	20615	BB	0.092	0.305
1.57	487930	BB	0.077	7.211
1.82	92407	BB	0.134	1.366
2.14	220040	BB	0.096	3.252
2.74	6295	PB	0.093	0.093
2.92	5389	BB	0.124	0.080
3.23	35841	BB	0.241	0.530
3.90	61530	BB	0.254	0.909
4.42	16482	BB	0.138	0.244
4.98	24899	PB	0.202	0.368
5.49	16237	BB	0.204	0.240
5.97	73379	BB	0.315	1.084
6.52	35703	BB	0.253	0.528
7.29	336890	BB	0.230	4.979
8.23	5814	BB	0.308	0.086
8.94	145100	BB	0.517	2.144
9.88	155770	BB	0.359	2.302
11.10	284140	BB	0.483	4.199
12.69	103380	BB	0.620	1.528
14.07	254940	BB	0.525	3.768
15.01	172720	BB	0.608	2.553
18.24	111040	BB	0.601	1.641
19.27	49502	BB	0.880	0.732
21.58	428420	BB	0.817	6.331
24.09	666390	BB	0.937	9.848
27.81	375190	BB	1.328	5.545
41.91	142850 i	PP	1.775	2.111

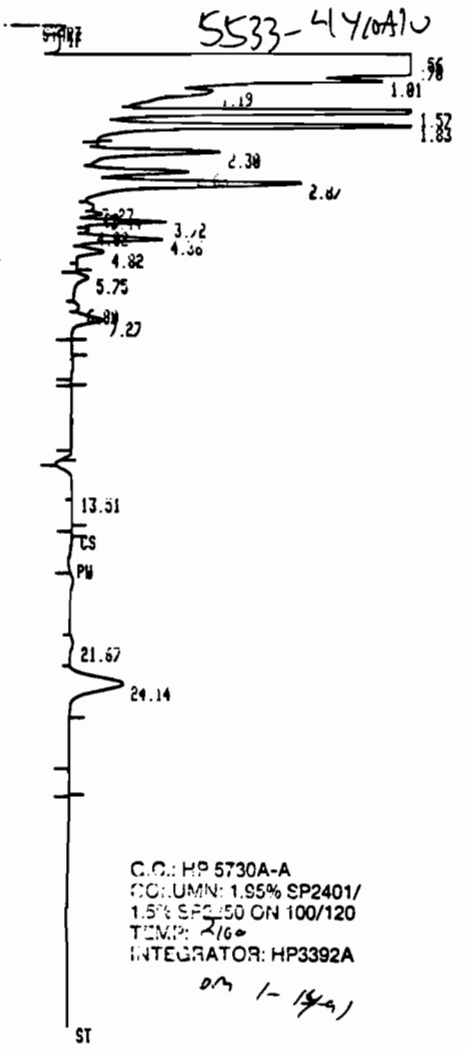


RUN # 62 JAN/12/91 06:16:09
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.55	2018700	PB	0.081	44.827
0.69	1162300	BB	0.041	25.809
1.01	38898	BB	0.048	0.864
1.17	16583	BB	0.049	0.368
1.26	6011	BB	0.049	0.134
1.57	452340	BB	0.078	10.044
1.93	37242	BB	0.073	0.827
2.74	10178	BB	0.133	0.226
3.27	37063	PB	0.153	0.823
3.89	21044	BB	0.233	0.467
4.41	9435	BB	0.166	0.210
5.84	15642	BB	0.482	0.347
7.30	13656	VB	0.264	0.303
17.89	23909	PB	0.791	0.531
21.71	39330	PB	0.864	0.873
24.13	601040	BB	0.981	13.346

TOTAL AREA= 4503400
MUL FACTOR= 1.0000E+00

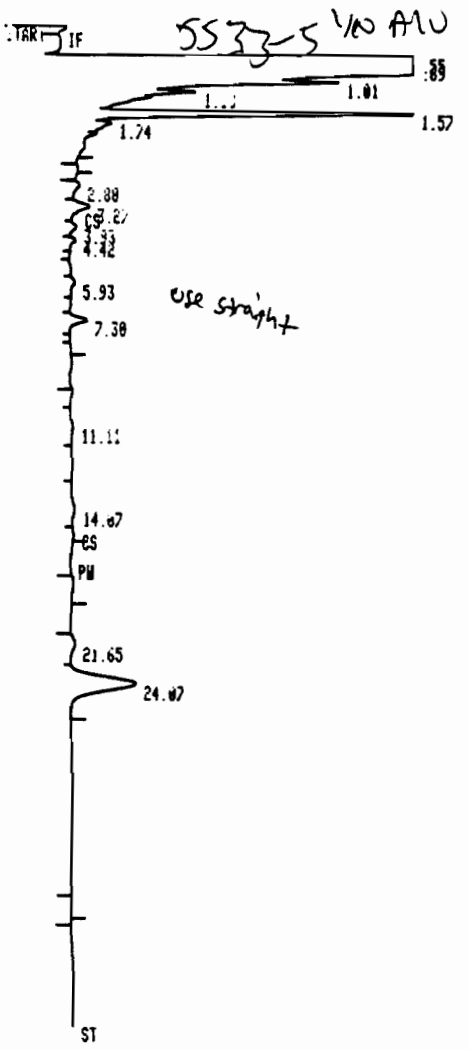


RUN # 63 JAN/12/91 07:16:31
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	2221800	PB	0.083	41.081
0.70	864430	BB	0.050	15.983
1.01	35795	BB	0.042	0.662
1.19	44490	BB	0.140	0.823
1.57	401310	BB	0.078	7.420
1.83	284520	BB	0.091	5.261
2.30	136840	VB	0.108	2.530
2.66	86630	BB	0.098	1.602
2.87	254560	BB	0.127	4.707
3.44	14897	BB	0.115	0.275
3.72	114430	BB	0.142	2.116
4.36	154920	BB	0.193	2.864
4.82	53778	BB	0.211	0.994
5.75	30169	BB	0.244	0.558
6.80	6610	BB	0.182	0.122
7.27	74894	BB	0.277	1.385
13.51	65196	PB	2.447	1.205
21.67	33147	VB	0.904	0.613
24.14	529960	BB	0.968	9.799

TOTAL AREA= 5408100
MUL FACTOR= 1.0000E+00



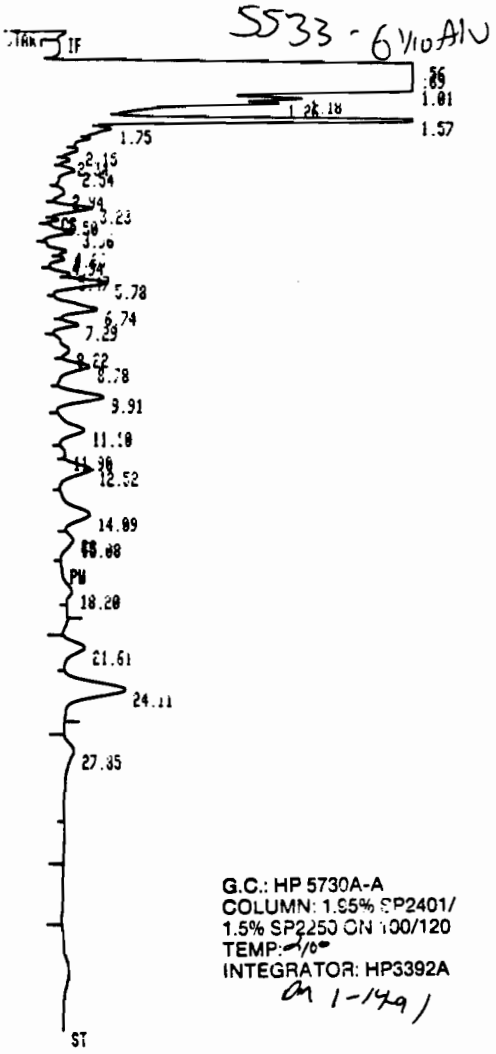
RUN # 64 JAN/12/91 08:16:53
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.55	2055400	PB	0.080	45.677
0.69	1268400	BB	0.047	28.187
1.01	37522	BB	0.045	0.834
1.18	19012	BB	0.052	0.423
1.57	278480	PB	0.078	6.189
1.74	9763	BB	0.036	0.217
2.88	7265	BB	0.136	0.162
3.27	27374	BB	0.157	0.608
3.93	15567	BB	0.270	0.346
4.42	10532	BB	0.180	0.234
5.93	12202	VB	0.289	0.271
7.38	44481	PB	0.259	0.989
11.11	14168	PB	0.493	0.315
14.07	15385	PB	0.546	0.342
21.65	37812	BB	0.820	0.840
24.07	646480	BB	0.974	14.367

TOTAL AREA= 4499608
MUL FACTOR= 1.0000E+00

5533 - 6 1/10 AIV



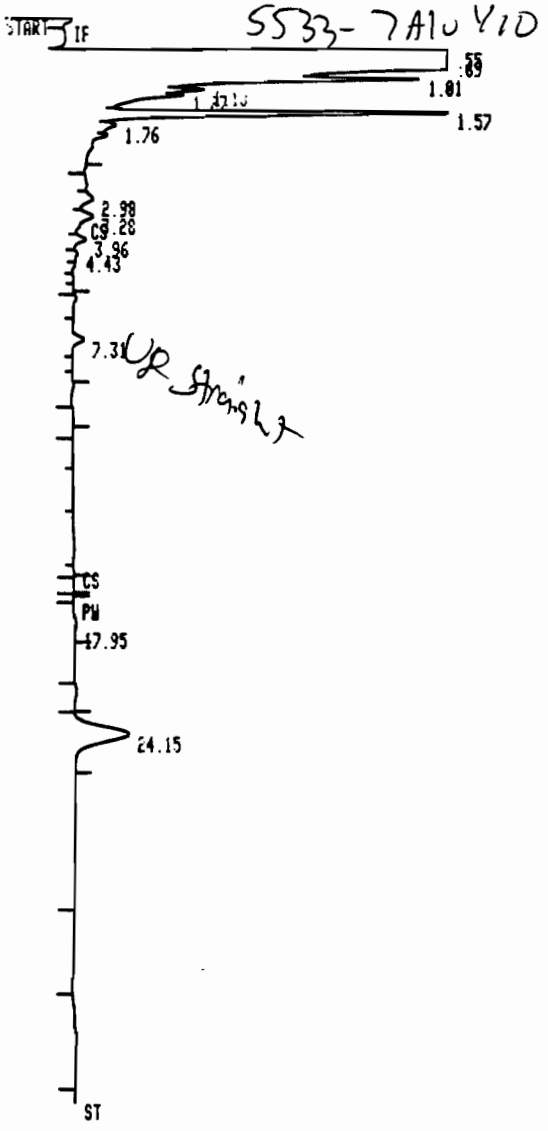
G.C.: HP 5730A-A
COLUMN: 1.95% SP2401/
1.5% SP2250 ON 100/120
TEMP: 170°
INTEGRATOR: HP3392A
on 1-14-91

RUN # 55 JAN/12/91 09:17:15
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	1897700	PB	0.079	20.588
0.69	4488100	BB	0.070	48.690
1.01	45957	BB	0.044	0.499
1.18	24838	BB	0.047	0.270
1.57	409910	BB	0.078	4.447
1.75	13903	BB	0.088	0.151
2.15	7787	PB	0.097	0.085
2.34	6259	BB	0.073	0.068
2.54	21530	BB	0.133	0.234
2.94	15335	BB	0.164	0.166
3.23	52738	BB	0.134	0.572
3.50	10625	BB	0.116	0.115
3.96	77968	BB	0.262	0.846
4.66	17028	BB	0.146	0.185
4.94	12009	BB	0.149	0.130
5.47	6033	BB	0.088	0.066
5.78	128880	BB	0.283	1.398
6.74	131190	BB	0.337	1.423
7.29	46759	BB	0.224	0.507
8.22	46134	BB	0.447	0.501
8.78	103270	BB	0.352	1.120
9.91	187590	BB	0.398	2.035
11.10	121520	BB	0.460	1.318
11.90	6516	BB	0.257	0.071
12.52	129880	BB	0.448	1.409
14.09	148690	BB	0.528	1.526
15.08	70775	BB	0.741	0.768
18.20	46607	BB	0.683	0.506
21.61	179810	PB	0.821	1.951
24.11	609200	BB	0.972	6.609
27.85	161150	BB	1.520	1.748

TOTAL AREA= 9217600



RUN # 68 JAN/12/91 12:18:22
WORKFILE ID: C
WORKFILE NAME:

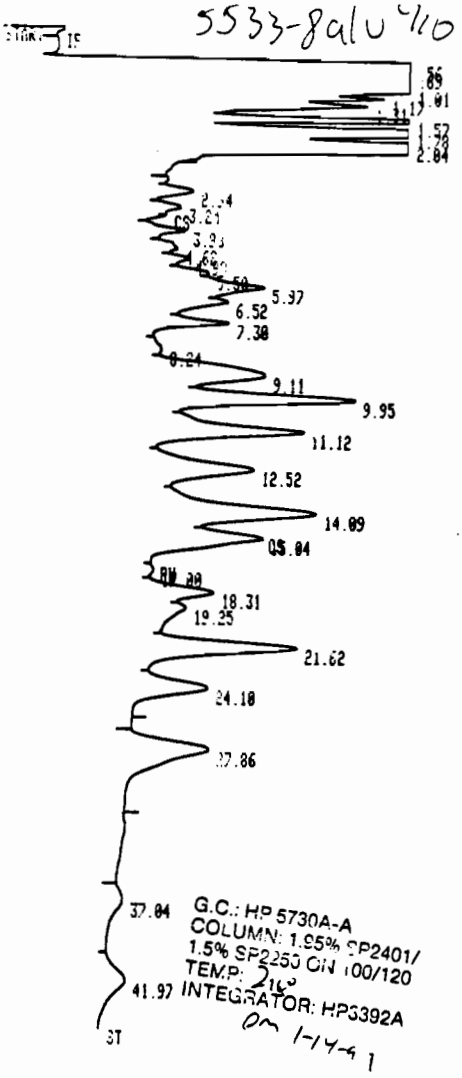
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.55	1892400	PB	0.075	52.070
0.69	749400	BB	0.054	20.620
1.01	84291	BB	0.060	2.319
1.18	13022	BB	0.048	0.358
1.57	278600	BB	0.079	7.666
1.76	6835	BB	0.076	0.188
2.98	17567	VB	0.163	0.483
3.28	20126	BB	0.160	0.554
3.96	21203	BB	0.212	0.583
7.31	31699	PB	0.291	0.872
17.95	18979	PB	0.850	0.522
24.15	500230	PB	0.987	13.764

TOTAL AREA= 3634400
MUL FACTOR= 1.0000E+00

5533-8A1U 4D

5533-8alu 4/10



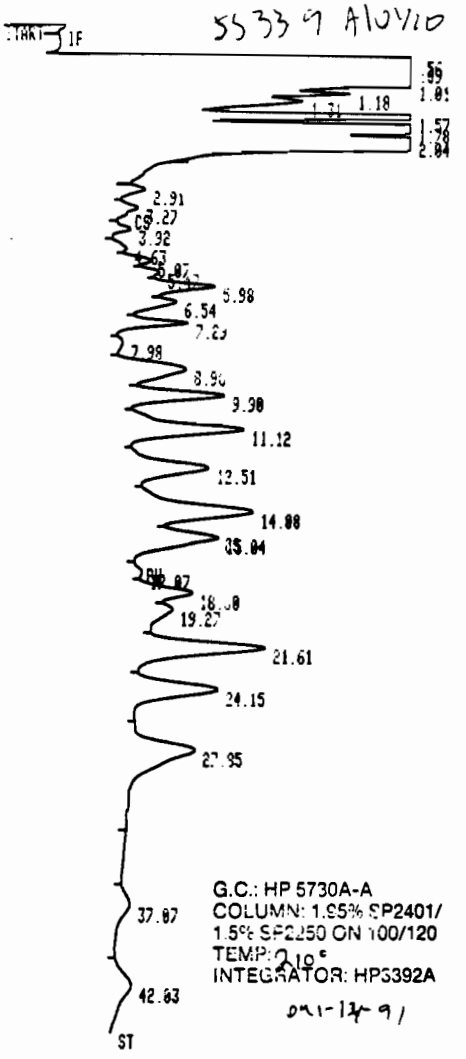
RUN # 69 JAN/12/91 13:18:43
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	1691600	PB	0.074	8.757
0.69	6742700	SPB	0.080	34.904
1.01	38767	BB	0.036	0.201
1.17	23670	BB	0.048	0.123
1.31	79517	BB	0.097	0.412
1.57	387420	BB	0.075	2.006
1.78	710280	BB	0.107	3.677
2.04	1713500	BB	0.122	8.870
2.94	52763	VB	0.158	0.273
3.24	24037	BB	0.121	0.124
3.98	84029	PB	0.248	0.435
4.62	39978	BB	0.327	0.207
4.98	31141	BB	0.201	0.161
5.50	15147	BB	0.198	0.078
5.97	175600	BB	0.327	0.909
6.52	53764	BB	0.235	0.278
7.38	151620	BB	0.243	0.785
8.24	13148	BB	0.327	0.068
9.11	507530	BB	0.598	2.627
9.95	653000	BB	0.387	3.380
11.12	642740	BB	0.464	3.327
12.52	513560	BB	0.569	2.659
14.09	680250	BB	0.534	3.521
15.04	491680	BB	0.661	2.545
17.00	16732	BB	0.424	0.087
18.31	290440	BB	0.614	1.504
19.25	74746	BB	0.610	0.387
21.62	1167200	BB	0.820	6.042
24.18	600290	BB	0.910	3.107
27.86	1101500	BB	1.375	5.702
37.04	124290	BB	1.309	0.643
41.97	425070	BP	1.875	2.200

TOTAL AREA= 1.9318E+07
MUL FACTOR= 1.0000E+00

55339 A10/10



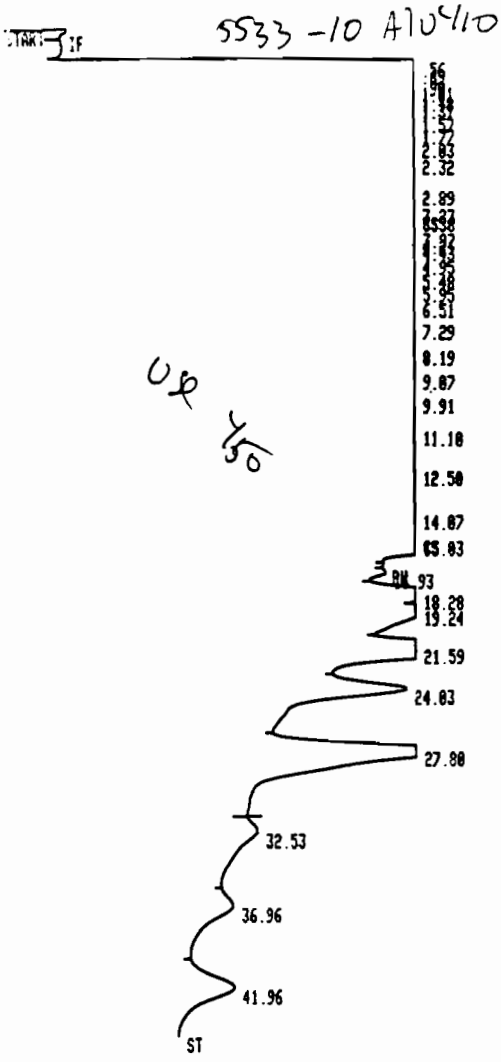
RUN # 70 JAN/12/91 14:19:05
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	1455900	PB	0.079	3.892
0.69	3708600	BB	0.070	22.650
1.01	47762	BB	0.041	0.292
1.18	27511	BB	0.050	0.168
1.31	49869	BB	0.110	0.305
1.57	641380	BB	0.076	3.917
1.78	1108600	BB	0.106	6.771
2.04	2492300	BB	0.120	15.222
2.91	25739	BB	0.139	0.157
3.27	38509	BB	0.204	0.235
3.92	39640	BB	0.242	0.242
4.63	14154	BB	0.236	0.087
5.07	41782	BB	0.254	0.255
5.47	24650	BB	0.210	0.151
5.98	167490	BB	0.283	1.023
6.54	80652	BB	0.309	0.493
7.29	156680	BB	0.254	0.957
7.98	22197	BB	0.376	0.136
8.96	332510	BB	0.556	2.031
9.90	326280	BB	0.360	1.993
11.12	543490	BB	0.477	3.319
12.51	379610	BB	0.527	2.319
14.08	529960	BB	0.543	3.237
15.04	449790	BB	0.721	2.747
17.07	19019	BB	0.443	0.116
18.30	232670	BB	0.604	1.421
19.27	85294	BB	0.640	0.521
21.61	1025900	BB	0.847	6.266
24.15	778860	BB	0.946	4.757
27.85	974530	BB	1.514	5.952
37.07	168970	VB	1.483	1.032
42.03	382950	BP	2.054	2.339

TOTAL AREA= 1.6377E+07

5533-10 A10410



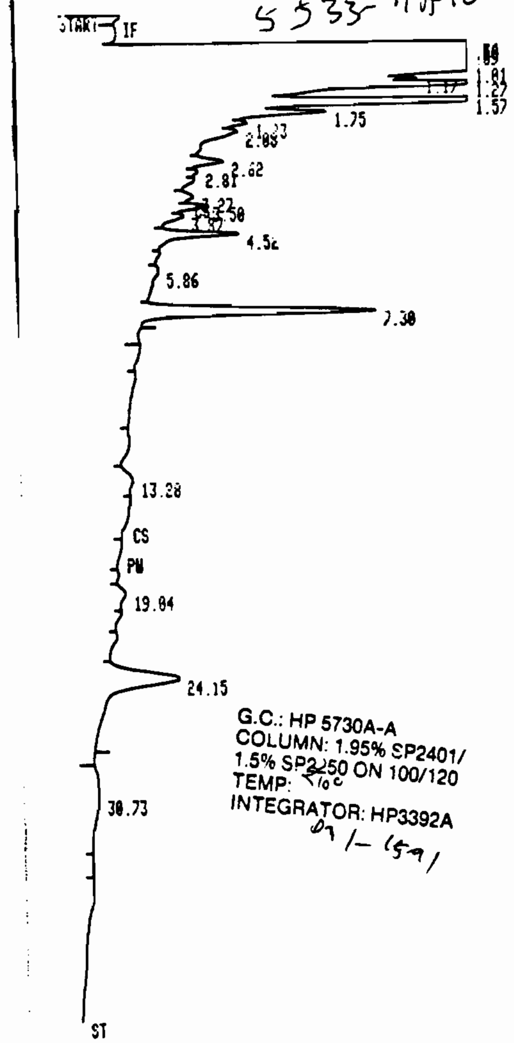
RUN # 71 JAN/12/91 15:19:27
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	1732700	PB	0.074	4.631
0.69	3672500	BB	0.082	9.816
0.90	29766	BB	0.047	0.080
1.01	308060	BB	0.054	0.823
1.18	194130	BB	0.055	0.519
1.31	225750	BB	0.079	0.603
1.57	537000	BB	0.071	1.435
1.77	1963000	BB	0.100	5.247
2.03	5716900	BB	0.113	15.280
2.89	149600	BB	0.234	0.400
3.23	48136	BB	0.102	0.129
3.38	29629	BB	0.153	0.079
3.97	268910	BB	0.286	0.719
4.43	101320	PB	0.274	0.271
4.95	53123	BB	0.159	0.142
5.48	16977	BB	0.113	0.045
5.95	378720	BB	0.314	1.012
6.51	205770	BB	0.245	0.550
7.29	4880700	BB	0.234	13.045
8.19	43741	BB	0.277	0.117
9.07	1142500	BB	0.588	3.054
9.91	1309700	BB	0.374	3.501
11.10	1703700	BB	0.464	4.554
12.50	1166900	BB	0.538	3.119
14.07	1693200	BB	0.536	4.526
15.03	1254900	BB	0.707	3.354
16.93	49368	VB	0.454	0.132
18.28	708680	BB	0.607	1.894
19.24	316080	BB	0.810	0.845
21.59	2754100	BB	0.805	7.361
24.03	751760	BB	0.816	2.009
27.80	2680300	BB	1.315	7.164
32.53	236160	BB	1.360	0.631
36.96	263980	BB	1.226	0.706
41.96	826310	BP	1.684	2.209

TOTAL AREA= 3.74145E07

5533 11A10%0

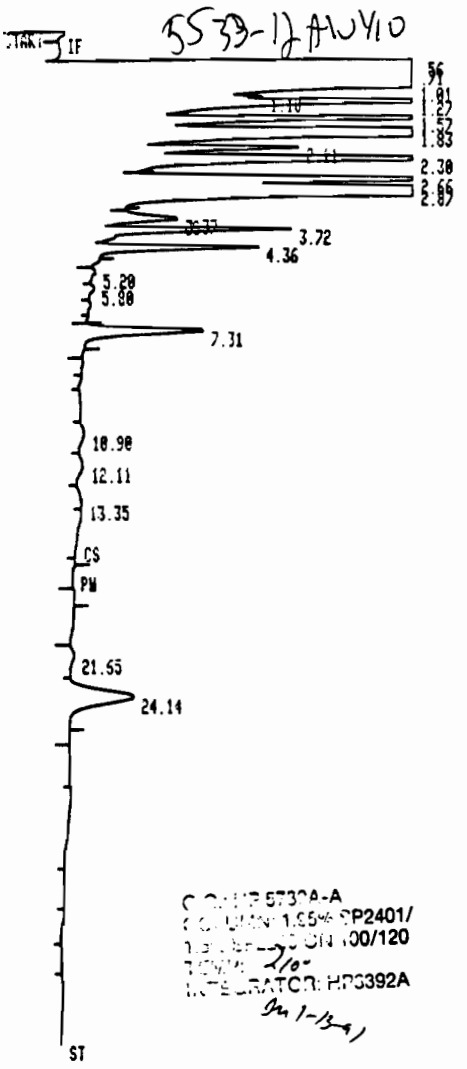


RUN # 72 JAN/12/91 16:19:50
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	76248	PB	0.020	0.729
0.60	97561	BB	0.033	0.933
0.69	7439600	SPB	0.069	71.110
1.17	6976	BB	0.035	0.067
1.27	266700	BB	0.063	2.549
1.57	598030	BB	0.078	5.716
1.75	50139	BB	0.078	0.479
1.93	7999	BB	0.070	0.077
2.62	30203	BB	0.106	0.289
3.27	10331	PB	0.109	0.099
3.50	44897	BB	0.205	0.429
3.87	17678	BB	0.191	0.169
4.52	171290	BB	0.220	1.637
5.86	26845	PB	0.559	0.257
7.30	591090	BB	0.255	5.650
13.28	37925	PB	0.510	0.363
19.04	48968	PB	0.709	0.468
24.15	773990	PB	1.048	7.398
30.73	165690	BB	2.913	1.584

TOTAL AREA= 1.0462E+07

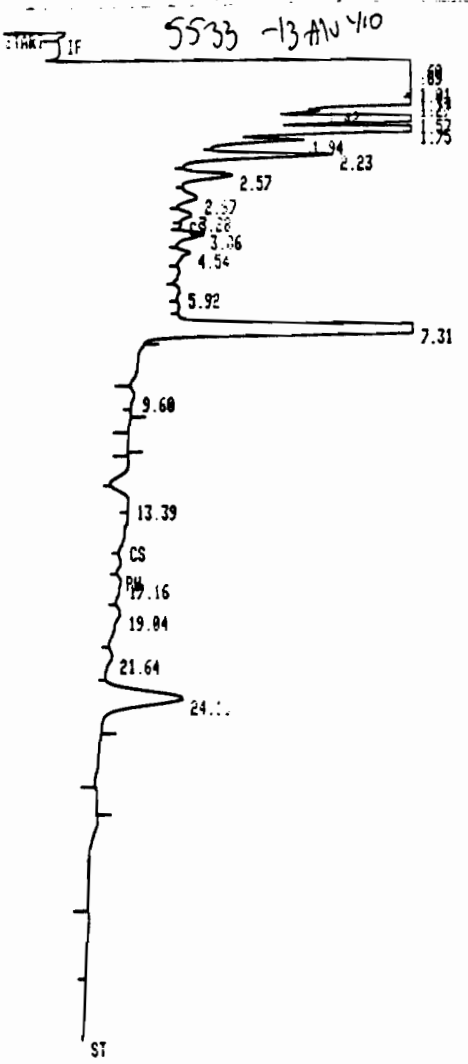


RUN # 73 JAN/12/91 17:20:12
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	1468500	PB	0.081	11.723
0.71	632570	BB	0.047	5.050
1.01	28816	BB	0.034	0.230
1.27	446470	BB	0.069	3.564
1.57	455780	BB	0.076	3.638
1.83	4675300	BB	0.092	37.321
2.11	109330	BB	0.081	0.873
2.30	481120	BB	0.099	3.841
2.66	331800	PB	0.093	2.649
2.87	2195300	BB	0.118	17.524
3.37	87599	BB	0.149	0.699
3.72	292680	BB	0.161	2.336
4.36	276010	BB	0.175	2.203
5.20	11099	BB	0.266	0.089
5.80	11573	BB	0.241	0.092
7.31	307280	BB	0.263	2.453
10.90	29272	VB	0.579	0.234
12.11	30280	BB	0.555	0.242
13.35	8336	BB	0.539	0.067
21.65	34671	BB	0.788	0.277
24.14	613430	BB	0.954	4.897

TOTAL AREA= 1.2527E+07
MUL FACTOR= 1.0000E+00

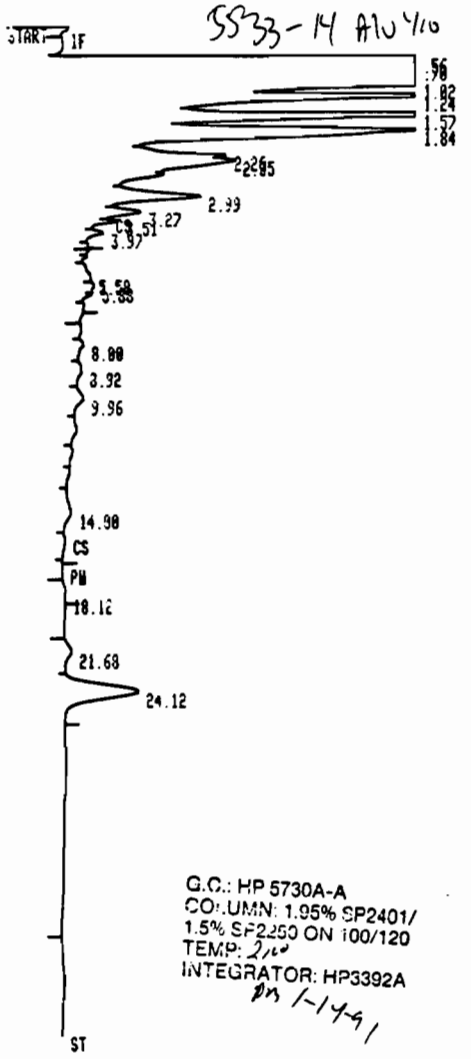


RUN # 74 JAN/12/91 18:20:34
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.60	1442500	PB	0.104	6.617
0.69	1.2435E+07	SPB	0.081	57.040
1.01	5384	BB	0.005	0.025
1.27	692050	BB	0.068	3.175
1.42	6317	BB	0.047	0.029
1.57	923490	BB	0.081	4.236
1.75	547410	BB	0.085	2.511
1.94	48828	BB	0.074	0.224
2.23	134690	BB	0.101	0.618
2.57	60058	BB	0.122	0.276
2.97	28953	BB	0.168	0.133
3.28	16789	BB	0.129	0.077
3.86	64171	PB	0.266	0.294
4.54	34529	BB	0.257	0.158
5.92	15433	PB	0.320	0.071
7.31	4383380	VB	0.248	20.107
9.60	14197	PB	0.355	0.065
13.39	37477	PB	0.537	0.172
17.16	44616	PB	0.950	0.205
19.04	70305	BB	1.199	0.323
21.64	34976	BB	0.752	0.160
24.15	759790	BB	0.961	3.485

TOTAL AREA= 2.1800E+07
MUL FACTOR= 1.0000E+00

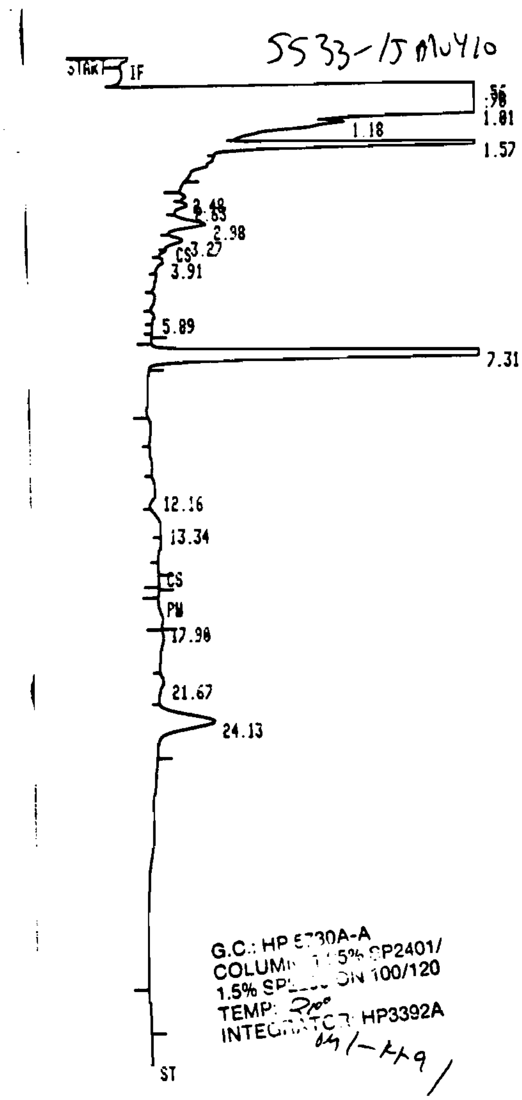


RUN # 75 JAN/12/91 19:20:56
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	1808300	PB	0.084	33.293
0.70	938740	BB	0.064	17.283
1.02	300120	BB	0.081	5.526
1.24	249700	BB	0.102	4.597
1.57	487670	BB	0.086	8.979
1.84	481830	BB	0.170	8.871
2.35	32173	BB	0.111	0.592
2.99	125700	PB	0.148	2.314
3.27	37555	BB	0.119	0.691
3.51	18768	BB	0.112	0.346
3.97	26087	BB	0.192	0.480
5.58	6426	PB	0.538	0.118
5.88	5469	BB	0.174	0.101
8.00	15297	VB	0.318	0.282
8.92	20399	BB	0.442	0.376
9.96	35124	BB	0.452	0.647
14.00	45451	PB	0.711	0.837
18.12	13769	PB	0.770	0.254
21.68	58917	BB	0.841	1.085
24.12	724000	BB	0.969	13.330

TOTAL AREA= 5431500
MUL FACTOR= 1.0000E+00

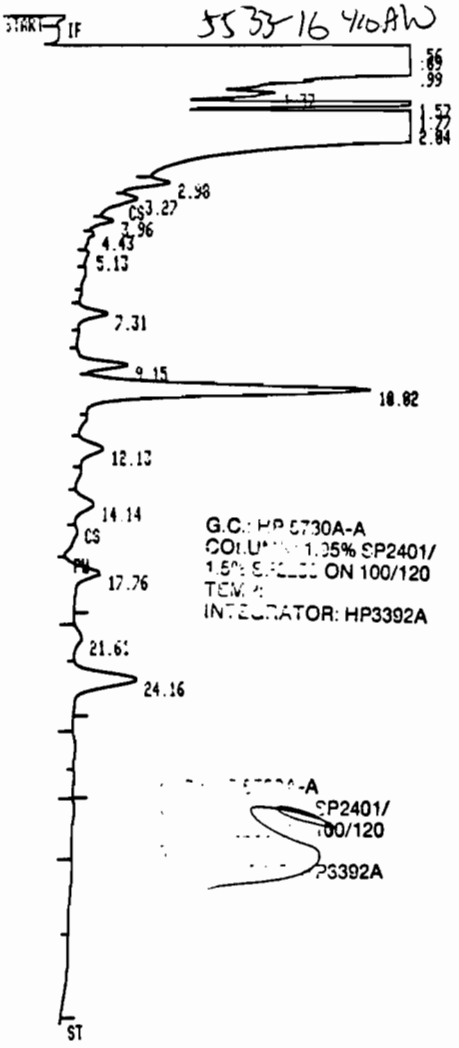


RUN # 76 JAN/12/91 20:21:19
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	1907500	PB	0.080	28.071
0.70	1787000	BB	0.069	26.298
1.01	69809	BB	0.054	1.027
1.18	18721	BB	0.062	0.276
1.57	419720	BB	0.078	6.177
2.63	7655	BB	0.090	0.113
2.98	52354	BB	0.151	0.771
3.27	19013	BB	0.123	0.280
3.91	14165	PB	0.273	0.209
5.89	6428	PB	0.211	0.095
7.31	1824400	BB	0.244	26.848
12.16	45693	VB	0.817	0.672
13.34	24631	BB	0.562	0.363
17.90	14639	PB	0.610	0.215
21.67	35348	PB	0.809	0.520
24.13	548150	BB	0.962	8.067

TOTAL AREA= 6795200
MUL FACTOR= 1.0000E+00

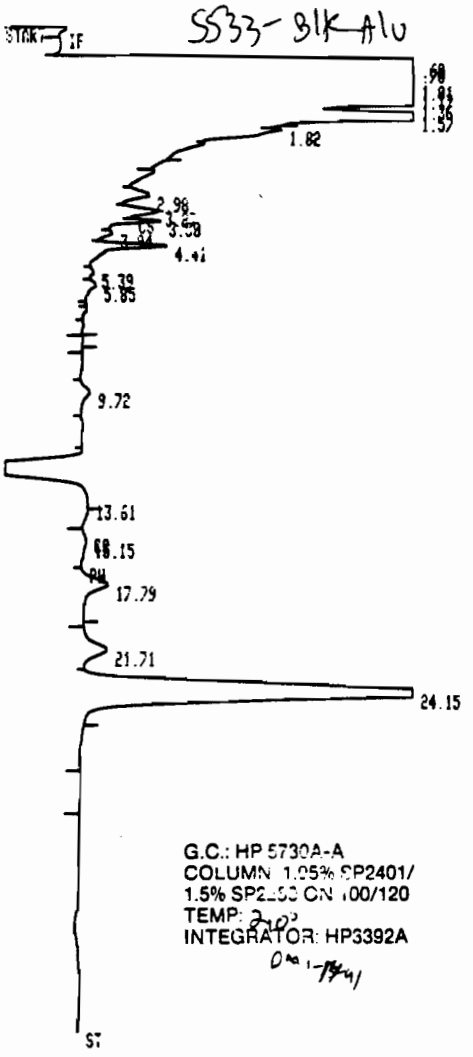


RUN # 77 JAN/12/91 21:21:41
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	1456880	PB	0.073	4.606
0.69	1.3790E+07	SPB	0.076	43.597
0.99	58634	BB	0.028	0.185
1.37	58227	PB	0.107	0.184
1.57	386130	BB	0.073	1.221
1.77	2759700	BB	0.103	8.725
2.04	1.0354E+07	BB	0.109	32.734
2.98	35557	BB	0.119	0.112
3.27	22706	BB	0.122	0.072
3.96	33818	BB	0.205	0.107
4.43	11272	BB	0.231	0.036
5.13	9522	BB	0.263	0.030
7.31	90389	PB	0.315	0.286
9.15	123010	PB	0.285	0.389
10.02	1200700	BB	0.422	3.796
12.13	106230	PB	0.458	0.336
14.14	98487	PB	0.527	0.311
17.76	341320	PB	1.044	1.079
21.61	74615	BB	0.935	0.236
24.16	619430	BB	0.975	1.958

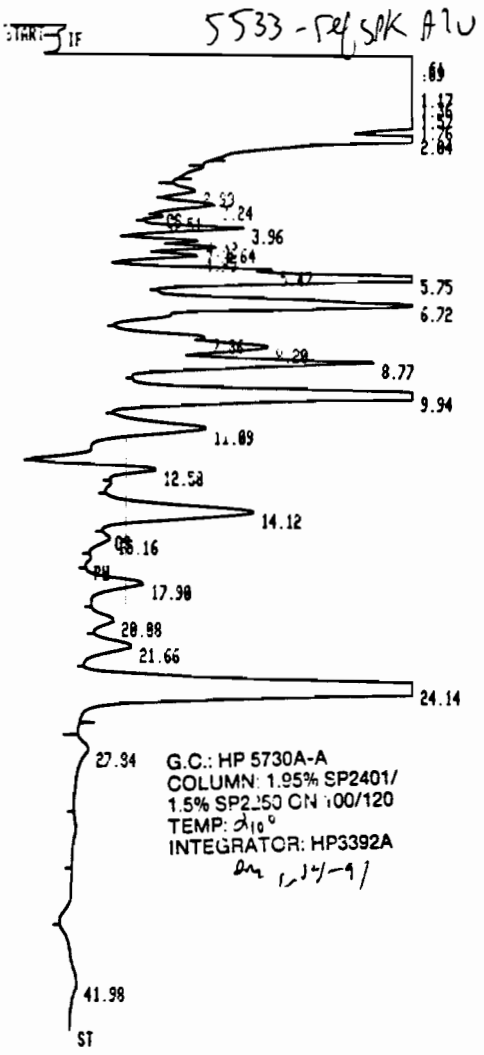
TOTAL AREA= 3.1630E+07
MUL FACTOR= 1.0000E+00



RUN # 80 JAN/13/91 00:22:49
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.60	2846000	PB	0.054	25.058
1.01	44436	D BB	0.043	0.391
1.17	86033	BB	0.050	0.758
1.36	47972	BB	0.059	0.422
1.57	2828000	BB	0.079	24.899
1.82	31524	BB	0.169	0.278
2.98	32816	PB	0.142	0.289
3.27	34620	BB	0.116	0.305
3.50	38513	BB	0.107	0.339
3.94	15284	BB	0.216	0.135
4.41	152420	BB	0.219	1.342
5.39	8715	BB	0.228	0.077
5.85	23955	BB	0.317	0.211
9.72	43377	PB	0.472	0.382
13.61	420330	PB	1.702	3.701
15.15	43920	BB	1.073	0.387
17.79	241870	BB	0.916	2.130
21.71	212210	BB	0.901	1.868
24.15	4205800	BB	0.960	37.038



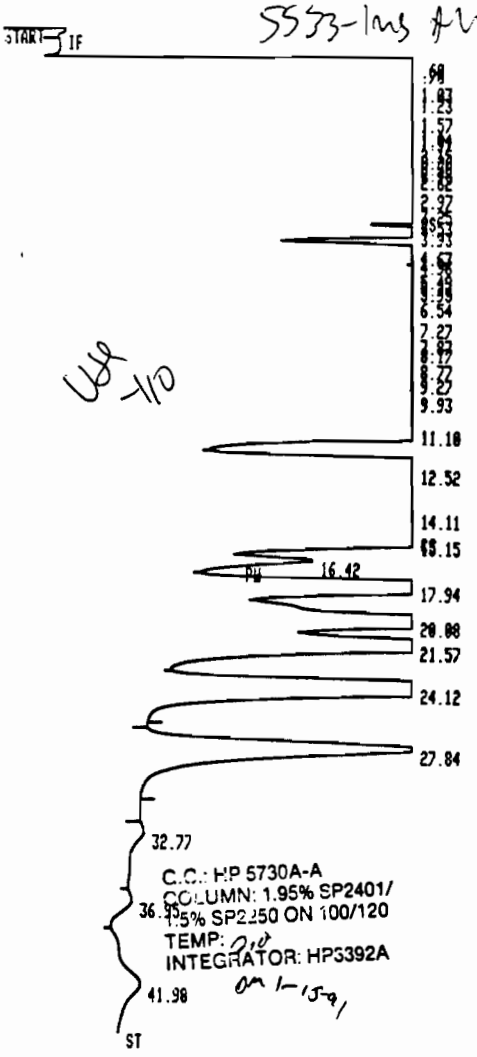
RUN # 81 JAN/13/91 01:23:12
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.61	3003600	SPB	0.843	13.723
1.17	123060	BB	0.045	0.562
1.36	100690	BB	0.060	0.460
1.57	3460700	BB	0.079	15.811
1.76	104930	BB	0.101	0.479
2.04	429530	BB	0.088	1.962
2.99	36313	BB	0.132	0.166
3.24	72981	BB	0.136	0.333
3.51	14393	BB	0.114	0.066
3.96	240950	BB	0.222	1.101
4.42	54989	BB	0.127	0.251
4.64	71243	BB	0.140	0.326
4.95	94515	BB	0.175	0.432
5.47	24766	BB	0.070	0.113
5.75	788060	BB	0.274	3.600
6.72	1195100	BB	0.400	5.460
8.20	209040	BB	0.295	0.955
8.77	590490	BB	0.290	2.698
9.94	1853300	BB	0.442	8.467
11.09	880990	BB	0.719	4.025
12.58	286220	BB	0.346	1.308
14.12	814520	PB	0.542	3.721
15.16	68053	BB	0.580	0.311
17.90	403460	PB	0.741	1.843
20.08	143480	BB	0.677	0.656
21.66	337550	BB	0.795	1.542
24.14	5931300	BB	0.963	27.098
27.84	150530	BB	1.305	0.688
41.98	403530	PP	3.467	1.844

TOTAL AREA= 2.1888E+07
MUL FACTOR= 1.0000E+00

5553-1mg #W



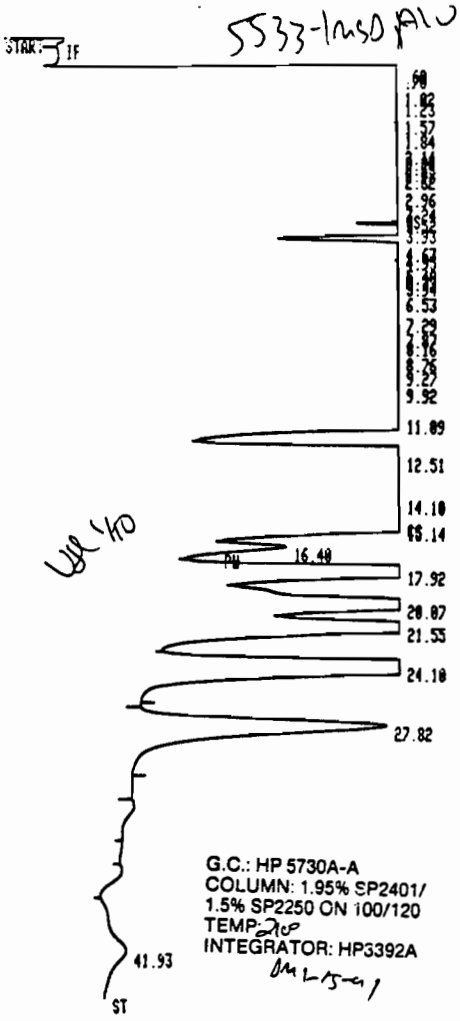
RUN # 32 JAN/13/91 02:23:35
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.60	3568100	PB	0.087	2.744
0.70	1.3781E+07	SPB	0.067	10.598
1.03	355270	BB	0.063	0.273
1.23	1763300	BB	0.103	1.356
1.57	3756500	BB	0.086	2.889
1.84	220730	BB	0.079	0.170
2.26	35103	BB	0.057	0.027
2.48	308510	BB	0.081	0.237
2.62	334330	BB	0.078	0.257
2.97	334240	BB	0.151	0.257
3.25	416960	BB	0.138	0.321
3.53	428730	BB	0.141	0.330
3.93	4653000	BB	0.194	3.578
4.63	1968500	BB	0.173	1.514
4.96	603260	BB	0.157	0.464
5.73	378950	BB	0.117	0.291
5.95	1931700	BB	0.169	1.486
6.54	8328300	BB	0.329	6.405
7.27	3060400	BB	0.299	2.354
7.87	160460	BB	0.164	0.123
8.17	3191500	BB	0.270	2.454
8.77	9390400	BB	0.310	7.221
9.27	41396	BB	0.150	0.032
9.93	1.4759E+07	BB	0.408	11.350
11.18	9272600	BB	0.495	7.131
12.52	1.1389E+07	BB	0.526	8.759
14.11	1.4401E+07	BB	0.559	11.075
15.15	1275300	BB	0.615	0.981
16.42	422090	BB	0.482	0.325
17.94	4138100	BB	0.731	3.182
20.08	2596700	BB	0.739	1.997
21.57	2845600	BB	0.757	2.188
24.12	5653000	BB	0.949	4.347
27.84	3234300	BB	1.148	2.487
32.77	24542	BB	0.385	0.019
36.95	123120	BB	1.147	0.095
41.98	889830	I BH	2.963	0.684

TOTAL AREA= 1.3004E+08
MUL FACTOR= 1.0000E+00

5533-1MSD A1U



RUN # 83 JAN/13/91 03:23:58
WORKFILE ID: C
WORKFILE NAME:

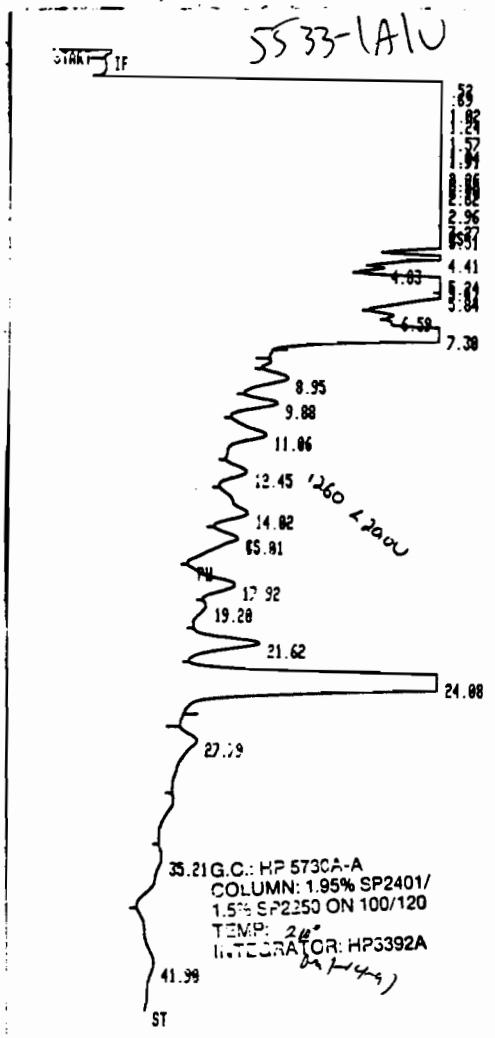
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.60	2109500	PB	0.059	1.699
0.70	1.3416E+07	SPB	0.067	10.803
1.02	316760	BB	0.062	0.255
1.23	1623800	BB	0.103	1.308
1.57	3524600	BB	0.086	2.838
1.84	217320	BB	0.081	0.175
2.26	34907	BB	0.058	0.028
2.47	289720	BB	0.081	0.233
2.62	311280	BB	0.078	0.251
2.96	309010	BB	0.151	0.249
3.24	388800	BB	0.137	0.313
3.52	399080	BB	0.141	0.321
3.93	4369300	BB	0.193	3.518
4.63	1837000	BB	0.172	1.479
4.95	558280	BB	0.156	0.450
5.73	335950	BB	0.115	0.271
5.94	1837400	BB	0.169	1.479
6.53	7864200	BB	0.328	6.332
7.29	5536000	BB	0.270	4.458
7.87	184130	BB	0.250	0.148
8.16	3017700	BB	0.270	2.430
8.76	8886900	BB	0.310	7.156
9.27	39218	BB	0.146	0.032
9.92	1.3966E+07	BB	0.407	11.245
11.09	8712100	BB	0.493	7.015
12.51	1.0875E+07	BB	0.524	8.756
14.10	1.3562E+07	BB	0.559	10.920
15.14	1178200	BB	0.611	0.949
16.40	389820	BB	0.483	0.314
17.92	3879400	BB	0.730	3.124
20.07	2413500	BB	0.739	1.943
21.55	2648200	BB	0.759	2.132
24.10	5561000	BB	0.951	4.478
27.82	2981500	BB	1.144	2.401
41.93	623360	PP	2.534	0.502

TOTAL AREA= 1.2420E+08
MUL FACTOR= 1.0000E+00

5533-1A1U - 105

5533-1A1U



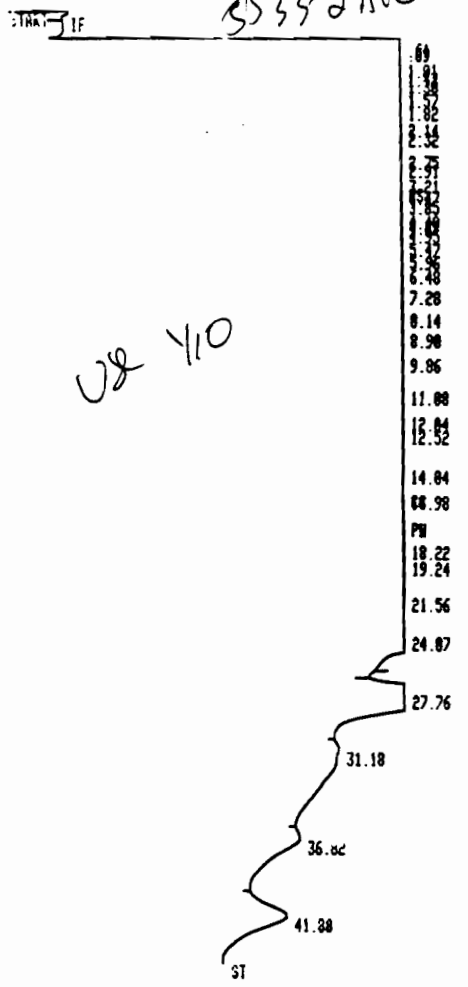
RUN # 84 JAN/13/91 04:24:21
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.52	4.7893E+07	†SPB	0.119	63.651
1.02	302690	BB	0.052	0.402
1.24	1870300	BB	0.089	2.486
1.57	4201500	BB	0.090	5.584
1.84	372200	BB	0.077	0.495
2.36	22282	BB	0.051	0.030
2.46	280110	BB	0.079	0.372
2.62	316560	BB	0.066	0.421
2.96	373260	BB	0.143	0.496
3.27	254260	BB	0.116	0.338
3.51	401510	BB	0.082	0.534
4.41	242750	BB	0.189	0.323
4.83	23565	BB	0.128	0.031
5.24	114430	BB	0.120	0.152
5.47	165840	BB	0.155	0.220
5.84	80032	BB	0.291	0.106
6.59	25033	BB	0.167	0.033
7.30	8018900	BB	0.259	10.657
8.95	155870	PB	0.437	0.207
9.88	158760	BB	0.381	0.211
11.06	222380	BB	0.552	0.296
12.45	121340	BB	0.473	0.161
14.02	247490	BB	0.724	0.329
15.01	294850	BB	0.917	0.392
17.92	380160	BB	0.942	0.505
19.20	47461	BB	0.736	0.063
21.62	624100	BB	0.866	0.829
24.08	6679300	BB	0.964	8.877
27.79	276210	BB	1.371	0.367
35.21	350170	VB	2.987	0.465
41.98	727210	↓ BH	3.965	0.967

TOTAL AREA= 7.5243E+07

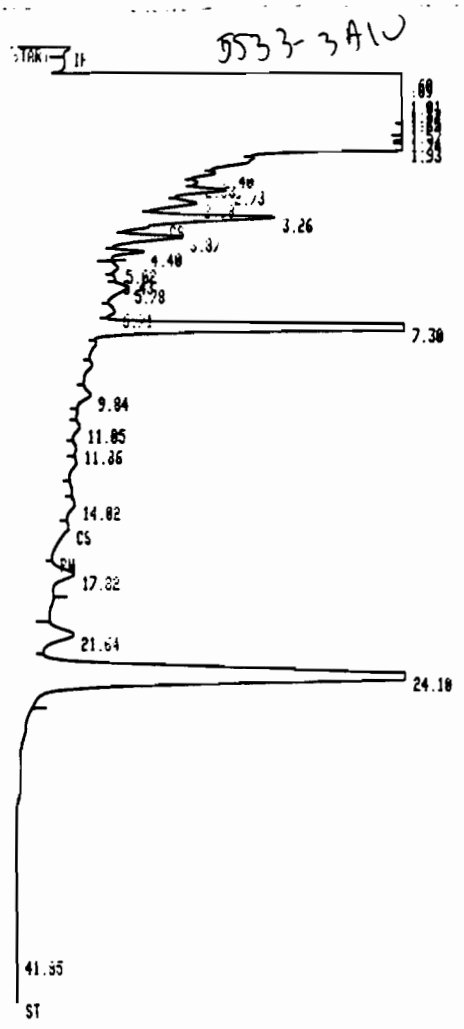
5533-2 AW



RUN # 85 JAN/13/91 05:24:44
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.61	756250	PB	0.074	1.028
0.69	7760800	SPB	0.074	10.552
1.01	180820	BB	0.046	0.246
1.17	187580	BB	0.047	0.255
1.30	154960	BB	0.087	0.211
1.57	3730000	BB	0.088	5.072
1.82	213040	BB	0.065	0.290
2.14	1518300	PB	0.092	2.065
2.32	31224	BB	0.076	0.043
2.75	9495	PB	0.051	0.013
2.91	85507	BB	0.155	0.116
3.21	70251	BB	0.116	0.096
3.47	216160	BB	0.133	0.294
3.85	371800	BB	0.252	0.506
4.48	64346	BB	0.150	0.088
4.61	18999	BB	0.121	0.026
4.95	141090	BB	0.183	0.192
5.47	102040	BB	0.205	0.139
5.96	379810	BB	0.304	0.516
6.48	98754	BB	0.180	0.134
7.28	3.9846E+07	BB	0.260	54.179
8.14	19653	BB	0.206	0.027
8.98	841410	BB	0.524	1.144
9.86	888390	BB	0.352	1.208
11.08	1667700	BB	0.476	2.268
12.04	19928	BB	0.227	0.027
12.52	330590	BB	0.455	0.450
14.04	1597800	BB	0.539	2.173
14.98	661040	BB	0.391	0.899
18.22	798610	BB	0.673	1.075
19.24	325320	BB	0.861	0.442
21.56	2693800	BB	0.797	3.663
24.07	4063900	BB	0.919	5.526
27.76	2283900	BB	1.264	3.105
31.18	416450	BB	3.814	0.566
36.82	141670	BB	0.945	0.193
41.88	865820	1 BP	1.723	1.177

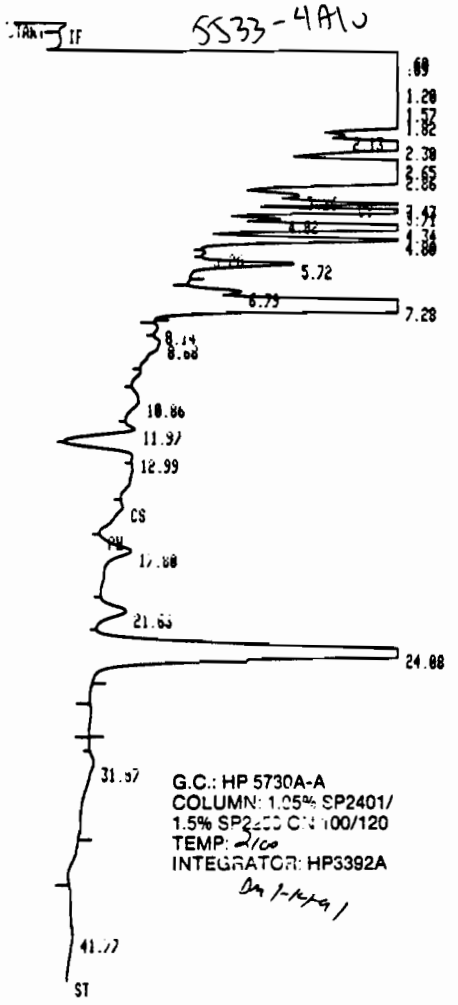


RUN # 86 JAN/13/91 06:25:07
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/MI	AREA%
0.60	3111900	PB	0.062	14.010
0.69	7488300	SPB	0.041	33.714
1.01	188900	BB	0.057	0.851
1.17	125420	BB	0.050	0.565
1.26	28094	BB	0.043	0.127
1.35	13360	BB	0.027	0.060
1.57	3187200	BB	0.078	14.349
1.74	16368	BB	0.056	0.074
1.93	315010	VB	0.084	1.418
2.40	9157	PB	0.081	0.041
2.73	39969	BB	0.093	0.180
2.98	42060	BB	0.121	0.189
3.26	218910	BB	0.158	0.986
3.87	154760	BB	0.232	0.697
4.40	53998	BB	0.161	0.243
5.02	17122	BB	0.254	0.077
5.78	56135	BB	0.374	0.253
6.71	25937	BB	0.313	0.117
7.30	1952700	BB	0.257	8.792
9.84	43084	VB	0.407	0.194
11.85	22079	VB	0.385	0.099
11.86	8595	BB	0.309	0.039
14.82	33276	VB	0.504	0.150
17.82	164360	PB	0.730	0.740
21.64	230010	BB	0.794	1.036
24.10	4589600	BB	0.950	20.663
41.85	75098	BP	2.025	0.338

TOTAL AREA= 2.2211E+07
MUL FACTOR= 1.0000E+00

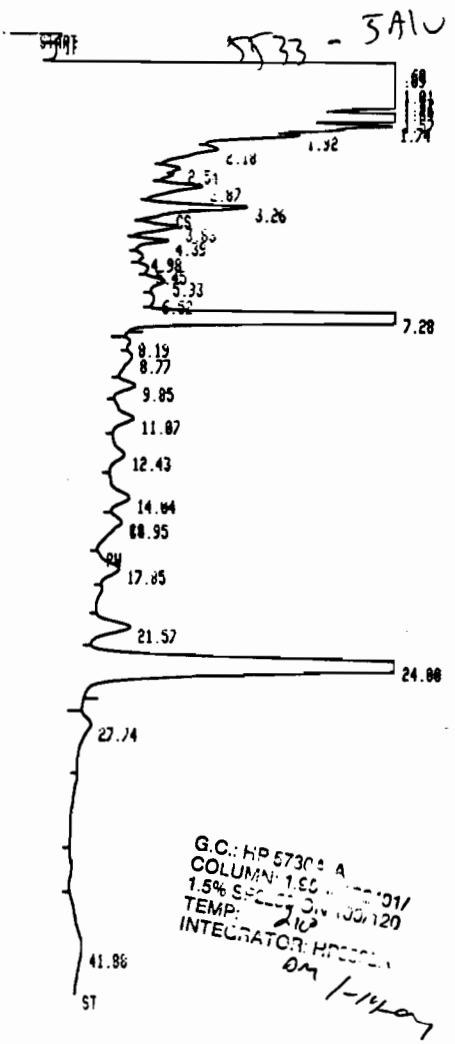


RUN # 87 JAN/13/91 07:25:30
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HI	AREA%
0.60	3742300	PB	0.071	10.124
0.69	5585600	SPB	0.031	15.110
1.20	359200	BB	0.147	0.972
1.57	2994300	BB	0.078	8.100
1.82	2314900	BB	0.091	6.262
2.30	1125700	BB	0.105	3.045
2.65	752190	BB	0.098	2.035
2.86	1943700	BB	0.128	5.258
3.26	18713	BB	0.080	0.051
3.43	154970	BB	0.119	0.419
3.71	917410	BB	0.143	2.482
4.02	33959	BB	0.098	0.092
4.34	1185000	BB	0.191	3.206
4.80	459660	BB	0.218	1.244
5.26	5250	BB	0.121	0.014
5.72	220280	BB	0.218	0.596
6.79	41787	PB	0.165	0.113
7.28	9520100	BB	0.264	25.754
8.14	11043	BB	0.256	0.030
8.68	63964	BB	0.639	0.173
10.86	68845	PB	0.656	0.186
11.97	143950	BB	0.369	0.389
12.99	92525	BB	0.455	0.250
17.88	367260	PB	1.101	0.994
21.63	236760	BB	0.818	0.641
24.08	4256100	BB	0.952	11.514
31.07	172620	VB	2.103	0.467
41.77	177850	I BP	3.455	0.481

TOTAL AREA= 3.6966E+07



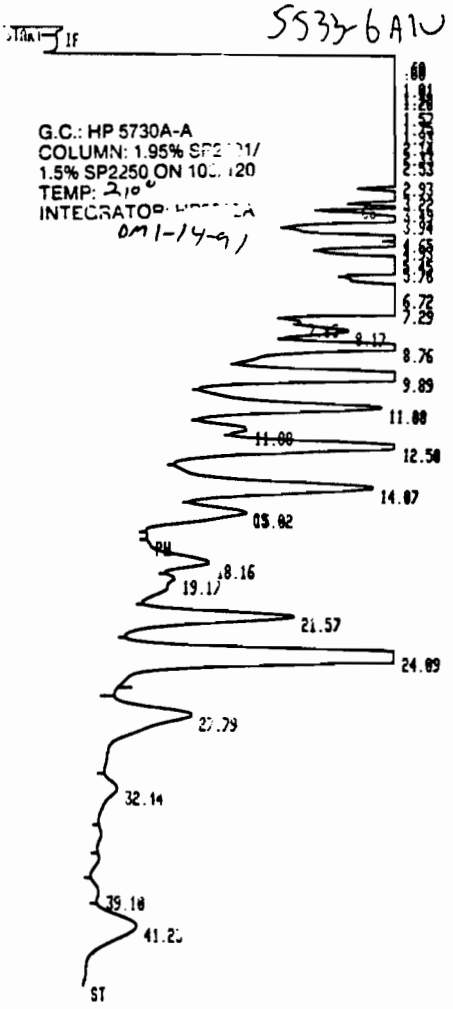
RUN # 88 JAN/13/91 08:25:54
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.60	3457080	PB	0.069	12.620
0.69	7441500	SPB	0.045	27.165
1.01	110670	BB	0.042	0.404
1.17	146010	BB	0.052	0.533
1.26	17169	BB	0.040	0.063
1.57	2099700	BB	0.076	7.665
1.74	32450	BB	0.053	0.119
1.92	8576	PB	0.026	0.031
2.18	37013	BB	0.143	0.135
2.54	9036	BB	0.074	0.033
2.87	71503	PB	0.148	0.261
3.26	176010	BB	0.166	0.643
3.86	110970	BB	0.269	0.405
4.39	66076	BB	0.191	0.241
4.98	14612	BB	0.244	0.053
5.45	16186	BB	0.262	0.059
5.93	52116	BB	0.288	0.190
6.52	12585	BB	0.326	0.046
7.28	7150500	BB	0.260	26.103
8.19	11736	BB	0.238	0.043
8.77	42372	BB	0.508	0.155
9.85	69044	BB	0.351	0.252
11.87	107010	BB	0.496	0.391
12.43	76356	BB	0.534	0.279
14.84	101590	BB	0.512	0.371
14.95	121250	BB	0.846	0.443
17.85	195230	BB	0.941	0.713
21.57	325840	PB	0.836	1.190
24.00	4818800	BB	0.978	17.591
27.74	144990	BB	1.291	0.529
41.88	350110	PP	3.278	1.278

TOTAL AREA= 2.7394E+07
MUL FACTOR= 1.0000E+00

5533-6A1U

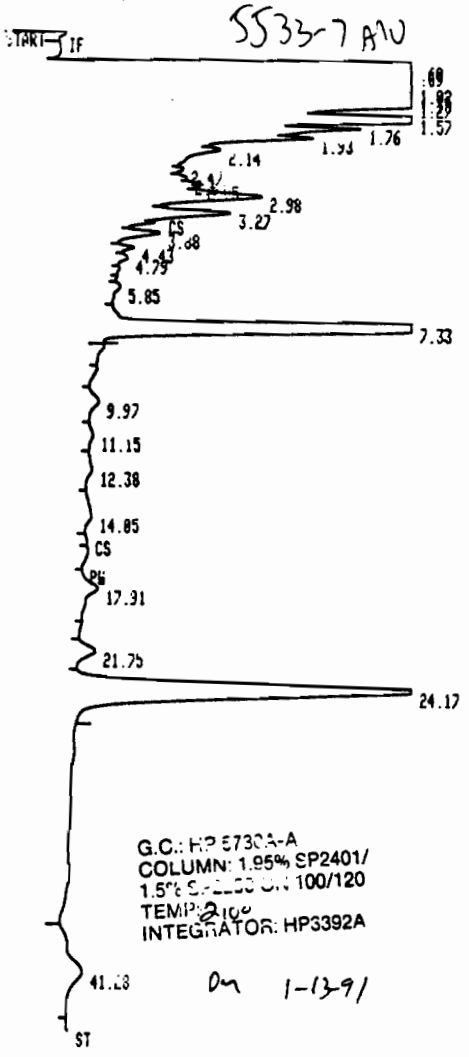


RUN # 89 JAN/13/91 09:26:18
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.60	2077200	PB	0.047	2.909
0.68	3.2428E+07	TSPB	0.081	45.409
1.01	244970	BB	0.054	0.343
1.18	255210	BB	0.049	0.357
1.57	3057300	BB	0.076	4.281
1.75	91516	BB	0.098	0.128
1.93	26944	BB	0.055	0.038
2.14	160050	BB	0.096	0.224
2.33	51680	BB	0.074	0.072
2.53	151750	BB	0.123	0.213
2.93	163260	PB	0.170	0.229
3.22	336590	BB	0.125	0.471
3.49	106980	BB	0.120	0.150
3.94	555980	BB	0.277	0.779
4.65	117980	BB	0.129	0.165
4.93	106940	BB	0.157	0.150
5.45	34838	BB	0.067	0.049
5.76	884160	BB	0.280	1.238
6.72	749870	BB	0.294	1.050
7.29	1.5333E+07	BB	0.259	21.470
7.85	8610	BB	0.138	0.012
8.17	165330	BB	0.282	0.232
8.76	713460	BB	0.346	0.999
9.89	1347400	BB	0.404	1.887
11.08	856350	BB	0.444	1.199
11.88	79013	BB	0.269	0.111
12.50	981230	BB	0.438	1.374
14.07	1052500	BB	0.529	1.474
15.02	530920	BB	0.734	0.744
18.16	406550	PB	0.788	0.569
19.17	177220	BB	1.213	0.248
21.57	1331100	BB	0.800	1.864
24.09	4597500	BB	0.961	6.438
27.79	1153000	BB	1.366	1.615
32.44	210220	BB	1.307	0.294
39.10	40405	PB	0.837	0.057
41.23	828670	BP	1.771	1.160

TOTAL AREA= 7.1413E+07
MUL FACTOR= 1.0000E+00



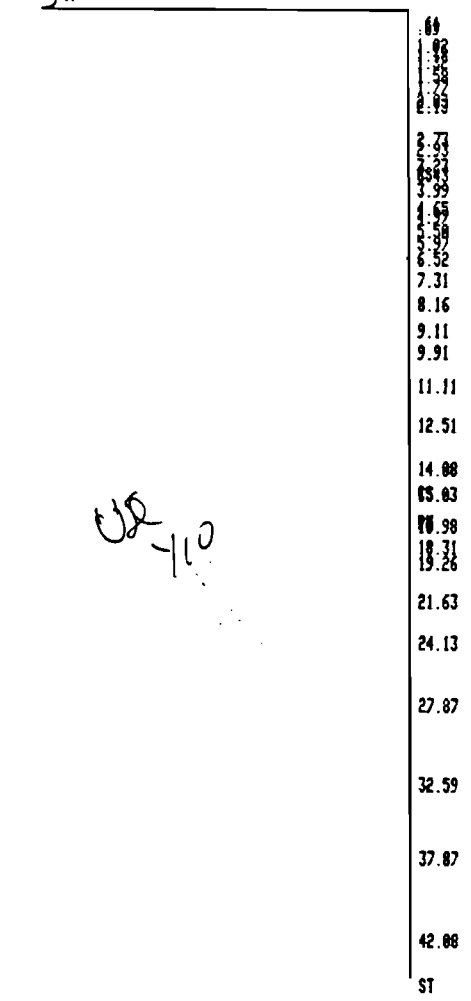
RUN # 92 JAN/13/91 12:27:27
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.60	1834200	PB	0.069	9.837
0.69	5697700	SPB	0.066	30.557
1.02	217520	BB	0.070	1.167
1.18	103270	BB	0.048	0.554
1.27	28310	BB	0.022	0.152
1.57	1916700	BB	0.076	10.279
1.76	55526	BB	0.027	0.298
1.93	29361	BB	0.058	0.158
2.14	14993	BB	0.079	0.080
2.75	5376	BB	0.067	0.029
2.98	118740	BB	0.139	0.637
3.27	91760	BB	0.123	0.492
3.88	82119	PB	0.231	0.440
4.43	20729	BB	0.146	0.111
4.79	16898	BB	0.211	0.091
5.85	19383	PB	0.307	0.104
7.33	4061800	BB	0.258	21.784
9.97	48177	PB	0.489	0.258
11.15	19080	BB	0.467	0.102
12.38	28527	BB	0.596	0.153
14.85	51684	BB	0.774	0.277
17.91	158370	PB	0.961	0.849
21.75	138250	PB	0.774	0.742
24.17	3488800	BB	0.971	18.710
41.28	398940	PB	2.073	2.140

TOTAL AREA= 1.8646E+07
MW FACTOR= 1.0000E+00

5533-8 A1U



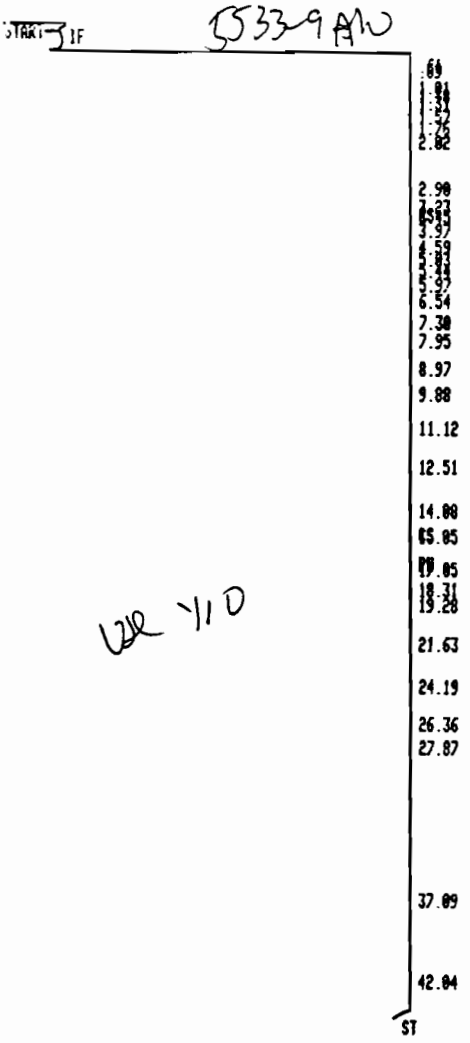
UR-110

RUN # 93 JAN/13/91 13:27:50
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.61	753110	PB	0.041	0.547
0.69	4.2312E+07	VSPB	0.101	30.732
1.02	332090	BB	0.050	0.241
1.18	216580	BB	0.048	0.157
1.32	505260	BB	0.088	0.367
1.58	2801500	BB	0.073	2.035
1.77	6751700	BB	0.095	4.904
2.03	4849100	BB	0.075	3.522
2.73	9599	PB	0.082	0.007
2.93	506600	BB	0.157	0.368
3.23	120830	BB	0.107	0.088
3.43	194110	BB	0.158	0.141
3.99	445140	BB	0.192	0.323
4.65	166950	PB	0.269	0.121
4.97	193930	BB	0.179	0.141
5.50	30459	BB	0.132	0.022
5.97	1131600	BB	0.348	0.822
6.52	312900	BB	0.230	0.227
7.31	2.9499E+07	BB	0.264	21.426
8.16	94398	BB	0.294	0.069
9.11	3355800	BB	0.542	2.437
9.91	3219800	BB	0.360	2.339
11.11	4147000	BB	0.470	3.012
12.51	3461800	BB	0.595	2.514
14.08	4414500	BB	0.547	3.206
15.03	3471200	BB	0.706	2.521
16.98	147120	VB	0.461	0.107
18.31	1877400	BB	0.614	1.364
19.26	501460	BB	0.600	0.364
21.63	7621600	BB	0.865	5.536
24.13	3502400	BB	0.875	2.544
27.87	6798800	BB	1.305	4.938
32.59	338100	BB	1.739	0.246
37.87	926210	BB	1.423	0.673
42.08	2670200	BP	1.823	1.939

TOTAL AREA= 1.3768E+08
MUL FACTOR= 1.0000E+00



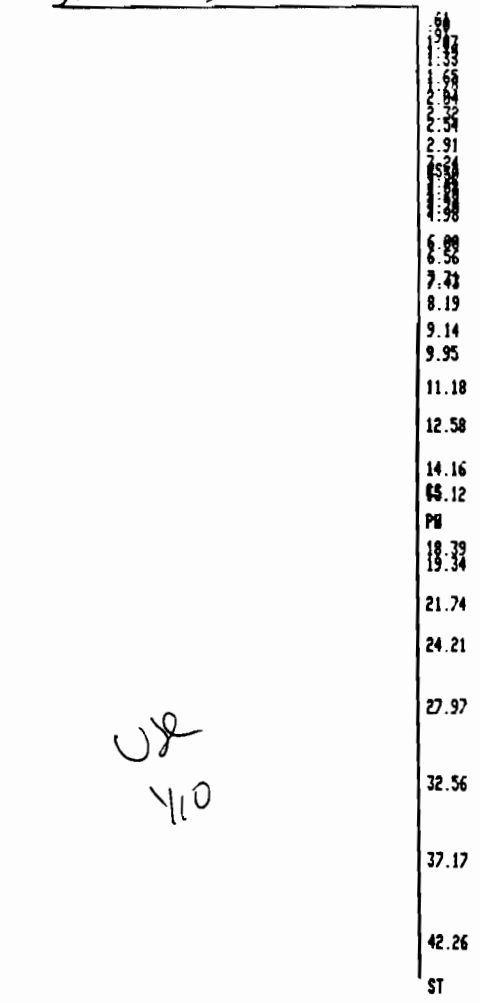
RUN # 34 JAN/13/91 14:28:12
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.61	632350	PB	0.025	0.605
0.69	2.1419E+07	SPB	0.061	20.481
1.01	278100	BB	0.051	0.266
1.18	198780	BB	0.048	0.190
1.31	308310	BB	0.110	0.295
1.57	3652800	BB	0.071	3.493
1.76	8649700	BB	0.093	8.271
2.02	1.1675E+07	BB	0.109	11.164
2.90	235890	BB	0.146	0.226
3.23	40343	BB	0.119	0.039
3.45	153250	BB	0.150	0.147
3.97	207230	BB	0.257	0.198
4.59	75409	BB	0.182	0.072
5.03	268330	BB	0.247	0.257
5.44	136400	BB	0.202	0.130
5.97	887860	BB	0.278	0.849
6.54	439930	BB	0.382	0.421
7.30	2.1696E+07	BB	0.265	20.746
7.95	102150	BB	0.341	0.098
8.97	1729600	BB	0.560	1.654
9.88	1648800	BB	0.345	1.577
11.12	2943200	BB	0.467	2.814
12.51	2137100	BB	0.532	2.044
14.08	3076000	BB	0.556	2.941
15.05	2587800	BB	0.721	2.474
17.05	152150	BB	0.458	0.146
18.31	1319900	BB	0.684	1.262
19.28	446226	BB	0.584	0.427
21.63	5651100	BB	0.884	5.404
24.19	4359800	BB	0.926	4.169
26.36	14852	BB	0.468	0.014
27.87	4607300	BB	1.317	4.406
37.09	907320	PB	1.444	0.868
42.04	1942800	BP	1.977	1.858

TOTAL AREA= 1.0458E+08
MUL FACTOR= 1.0000E+00

5533-10 A1U

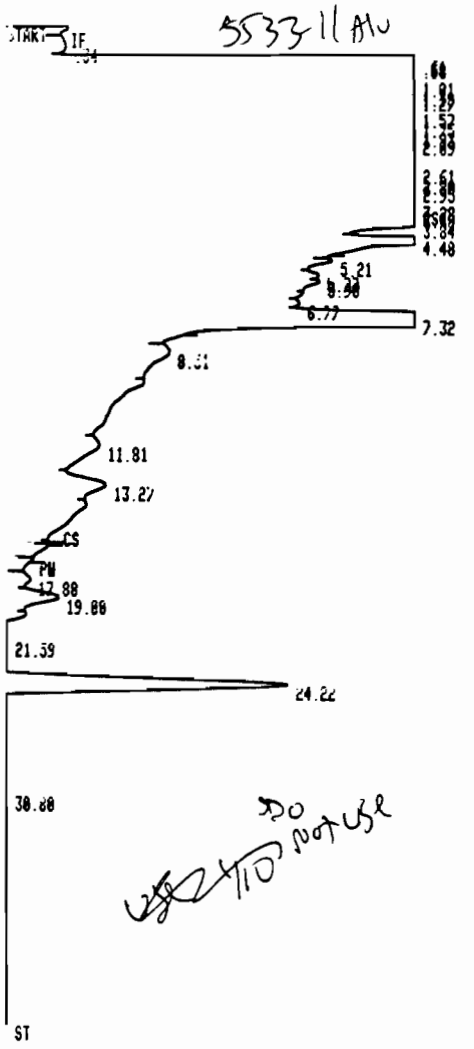


U8
410

RUN # 95 JAN/13/91 15:28:34
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.61	1394400	PB	0.054	0.958
0.70	2.0272E+07	SPB	0.078	13.921
0.91	125350	SPB	0.048	0.086
1.03	1366700	SPB	0.065	0.939
1.19	1261000	BB	0.060	0.866
1.33	1018400	BB	0.081	0.699
1.65	3066000	BB	0.109	2.105
1.78	8740800	BB	0.094	6.002
2.04	2.3590E+07	SPB	0.111	16.199
2.32	31249	SPB	0.019	0.022
2.54	31010	SPB	0.075	0.021
2.91	1076000	SPB	0.215	0.739
3.24	169030	SPB	0.097	0.116
3.58	1110300	SPB	0.146	0.763
3.76	10542	SPB	0.057	0.007
4.01	432880	SPB	0.159	0.297
4.20	6077	SPB	0.079	0.004
4.47	119920	SPB	0.146	0.082
4.70	72324	SPB	0.134	0.050
4.98	146870	SPB	0.147	0.101
5.19	1984300	SPP	148.970	1.363
6.00	2785200	SPB	0.499	1.913
6.56	594940	SPB	0.217	0.409
8.19	168790	BB	0.247	0.116
9.14	5233000	BB	0.552	3.594
9.95	4978800	BB	0.367	3.419
11.18	7875100	BB	0.491	5.408
12.58	5097600	BB	0.534	3.501
14.16	7222600	BB	0.550	4.960
15.12	5452000	BB	0.756	3.744
18.39	3010980	PB	0.618	2.068
19.34	1071600	BB	0.761	0.736
21.74	1.3580E+07	BB	0.876	9.326
24.21	3040900	BB	0.852	2.088
27.97	1.2976E+07	BB	1.414	8.910
32.56	1239900	BB	1.544	0.852
37.17	1320760	BB	1.485	0.907
42.26	3951000	BP	1.832	2.713

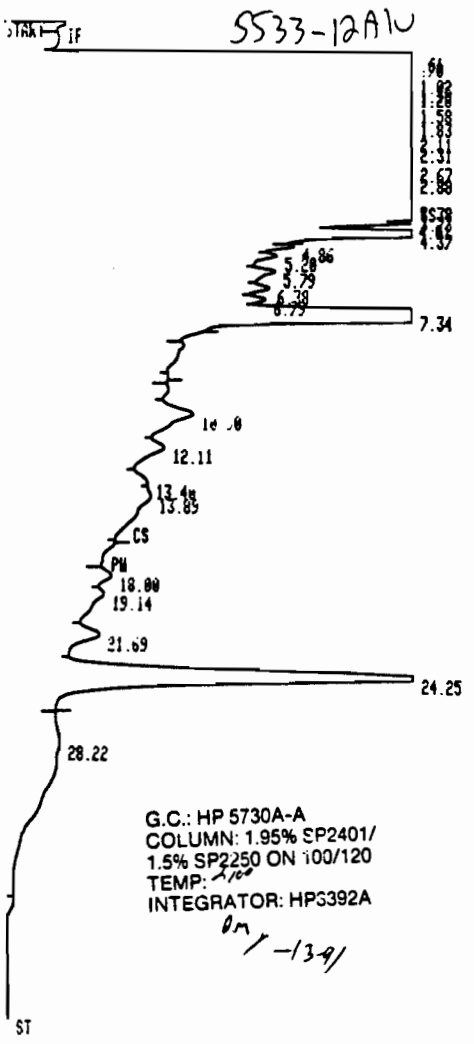


RUN # 96 JAN/13/91 16:28:57
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.34	14639	BB	0.226	0.024
0.68	3.5477E+07	VSPB	0.089	59.052
1.01	57061	BB	0.024	0.095
1.18	46787	BB	0.037	0.078
1.27	935790	BB	0.058	1.558
1.57	3029300	BB	0.076	5.042
1.75	149460	BB	0.069	0.249
1.93	52343	BB	0.070	0.087
2.09	110870	BB	0.140	0.185
2.61	180200	PB	0.100	0.300
2.80	16763	BB	0.072	0.028
2.95	81856	BB	0.118	0.136
3.28	9518	BB	0.084	0.016
3.48	415420	BB	0.193	0.692
3.84	88716	BB	0.192	0.148
4.48	957420	BB	0.194	1.594
5.21	13709	BB	0.147	0.023
5.77	8499	BB	0.156	0.014
5.98	10563	BB	0.148	0.018
6.77	6541	PB	0.159	0.011
7.32	1.4079E+07	BB	0.269	23.435
8.51	60467	BB	0.499	0.101
11.81	103690	PB	0.729	0.173
13.27	137460	BB	0.457	0.229
17.88	30199	PB	0.481	0.050
19.00	228790	BB	0.657	0.381
21.59	110900	PB	0.600	0.185
24.22	3618500	BB	1.012	6.023
30.80	45980	PB	1.648	0.077

TOTAL AREA= 6.0077E+07
MUL FACTOR= 1.0000E+00

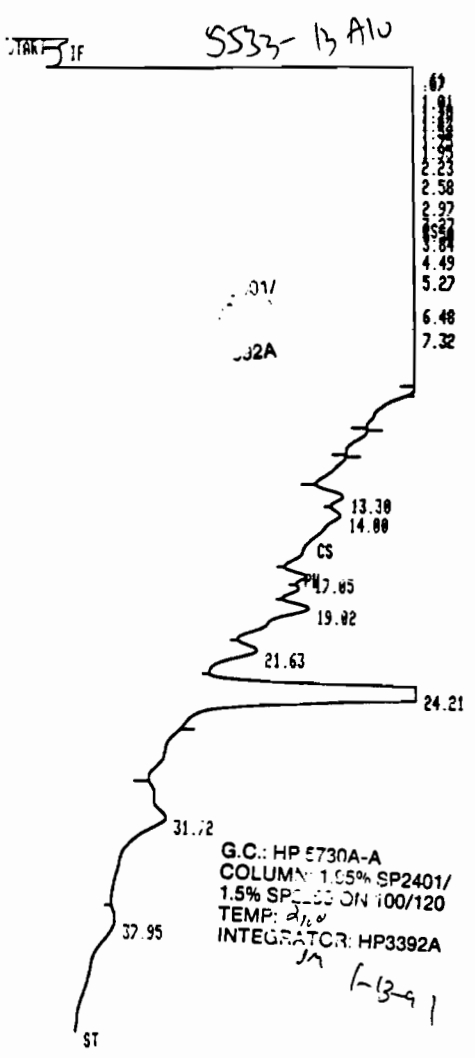


RUN # 97 JAN/13/91 17:29:19
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.61	514040	PB	0.021	0.670
0.70	6001800	SPB	0.057	7.822
1.02	229850	BB	0.048	0.300
1.18	31099	BB	0.033	0.041
1.28	2595900	BB	0.067	3.383
1.58	2912000	BB	0.076	3.795
1.83	2.6151E+07	SPB	0.090	34.082
2.11	800510	BB	0.081	1.043
2.31	3160300	BB	0.097	4.119
2.67	2317200	PB	0.093	3.020
2.88	1.2813E+07	BB	0.119	16.699
3.38	535140	BB	0.144	0.697
3.73	1653200	BB	0.144	2.155
4.01	43581	BB	0.116	0.057
4.37	1774100	BB	0.172	2.312
4.86	19708	BB	0.141	0.026
5.20	25121	BB	0.166	0.033
5.79	56093	BB	0.254	0.073
6.38	37449	BB	0.213	0.049
6.79	26004	BB	0.174	0.034
7.34	1.0222E+07	BB	0.273	13.322
10.90	216350	VB	0.603	0.282
12.11	93169	BB	0.484	0.121
13.40	7648	BB	0.361	0.010
13.89	65937	BB	0.648	0.086
18.00	75444	BB	0.645	0.098
19.14	102050	BB	1.072	0.133
21.69	189050	BB	0.777	0.246
24.25	3581500	BB	0.935	4.668
28.22	479160	BB	3.909	0.625

TOTAL AREA= 7.6728E+07

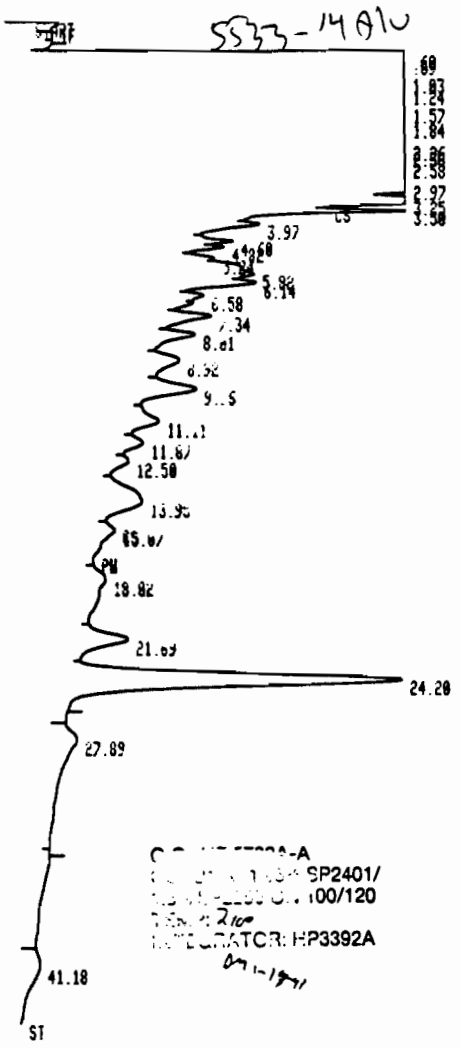


RUN # 98 JAN/13/91 18:29:41
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.61	387060	PB	0.013	0.247
0.67	4.5092E+07	VSPB	0.117	28.740
1.01	51356	BB	0.040	0.033
1.18	27170	PB	0.032	0.017
1.27	2712300	BB	0.063	1.729
1.43	21407	BB	0.040	0.014
1.58	4878600	BB	0.095	3.109
1.75	1440700	BB	0.068	0.918
1.95	223840	BB	0.071	0.143
2.23	822940	BB	0.123	0.525
2.58	290560	BB	0.116	0.185
2.97	453490	BB	0.189	0.289
3.27	27325	BB	0.086	0.017
3.50	1119800	BB	0.140	0.714
3.84	176340	BB	0.156	0.112
4.49	503960	BB	0.263	0.321
7.32	9.3086E+07	BB	0.278	59.329
13.30	79269	PB	0.408	0.051
14.00	135920	BB	0.875	0.087
17.05	76677	BB	0.487	0.049
19.02	424840	VB	1.084	0.271
21.63	228770	BB	0.764	0.146
24.21	4121700	BB	0.958	2.627
31.72	454526	BB	1.536	0.290
37.95	62819	BP	0.704	0.040

TOTAL AREA= 1.5690E+08

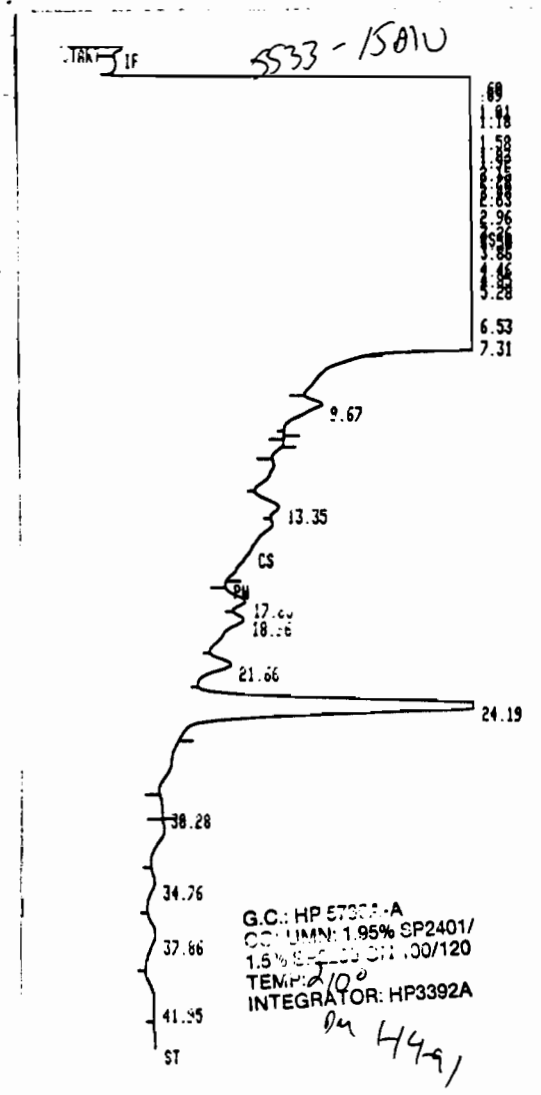


RUN # 39 JAN/13/91 19:30:04
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.60	2363400	PB	0.053	9.277
0.69	7199100	SPB	0.060	28.259
1.03	1435900	BB	0.081	5.636
1.24	1429500	BB	0.100	5.611
1.57	2777200	BB	0.082	10.901
1.84	3133300	BB	0.165	12.299
2.26	23802	BB	0.013	0.093
2.36	242030	BB	0.112	0.950
2.58	64454	BB	0.065	0.253
2.97	919470	BB	0.142	3.609
3.25	221790	BB	0.113	0.871
3.50	113820	BB	0.101	0.447
3.97	50288	BB	0.174	0.197
4.60	33781	BB	0.131	0.133
4.82	28763	BB	0.137	0.113
5.24	7107	BB	0.115	0.028
5.82	94107	BB	0.428	0.369
6.14	77333	BB	0.209	0.304
6.58	24533	BB	0.171	0.096
7.34	120200	PB	0.299	0.472
8.01	98235	BB	0.296	0.386
8.92	108930	BB	0.444	0.428
9.96	205940	BB	0.424	0.808
11.11	107690	BB	0.451	0.423
11.87	55462	BB	0.356	0.218
12.50	34800	BB	0.353	0.137
13.95	302720	BB	0.881	1.188
15.07	100780	BB	0.837	0.396
18.02	244350	BB	1.737	0.959
21.69	385660	BB	0.872	1.514
24.20	3083700	BB	0.938	12.105
27.89	228910	BB	1.587	0.899
41.18	158310	BP	2.061	0.621

TOTAL AREA= 2.5475E+07
MUL FACTOR= 1.0000E+00



RUN # 100 JAN/13/91 20:30:26
WORKFILE ID: C
WORKFILE NAME:

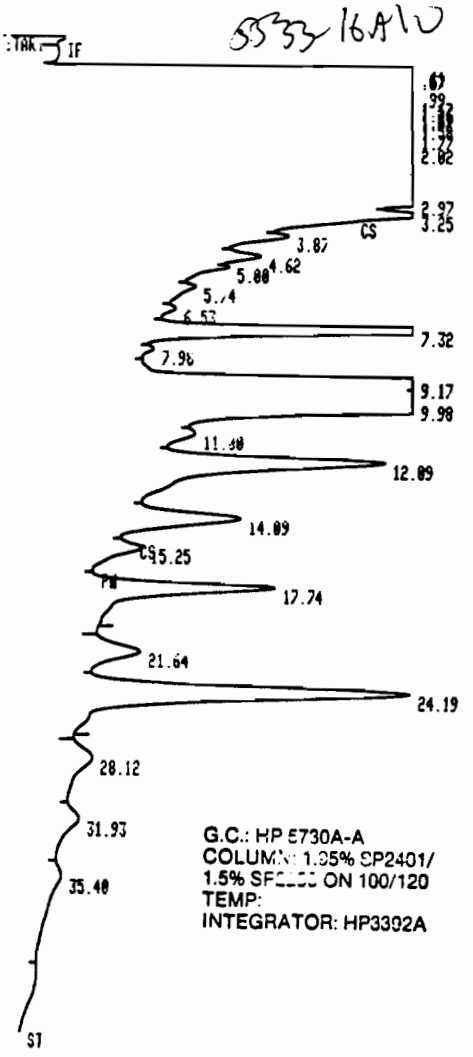
AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.60	1971800	PB	0.052	2.798
0.69	1.2020E+07	SPB	0.063	17.059
1.01	169480	BB	0.059	0.241
1.18	166240	BB	0.079	0.236
1.58	3080660	BB	0.088	4.372
1.83	10667	BB	0.048	0.015
1.92	9501 u	BB	0.048	0.014
2.15	25165	BB	0.098	0.036
2.48	30775	BB	0.079	0.044
2.63	46026	BB	0.087	0.065
2.96	528360	BB	0.149	0.750
3.26	58440	BB	0.100	0.083
3.50	571610	BB	0.140	0.811
3.86	11368	BB	0.101	0.016
4.46	43083	PB	0.198	0.061
5.28	11743	BB	0.204	0.017
7.31	4.7559E+07	BB	0.283	67.494
9.67	109930	BB	0.468	0.156
13.35	62935	PB	0.432	0.089
17.83	102890	PB	0.666	0.146
18.96	147870	BB	0.908	0.210
21.66	206240	BB	0.782	0.293
24.19	3230900	BB	0.951	4.585
30.28	15567	BB	0.937	0.022
34.76	66951	PB	1.185	0.095
37.86	156810	BB	1.710	0.223
41.95	49761	BB	1.460	0.071

TOTAL AREA= 7.0464E+07
MUL FACTOR= 1.0000E+00

120

5553-16A\U

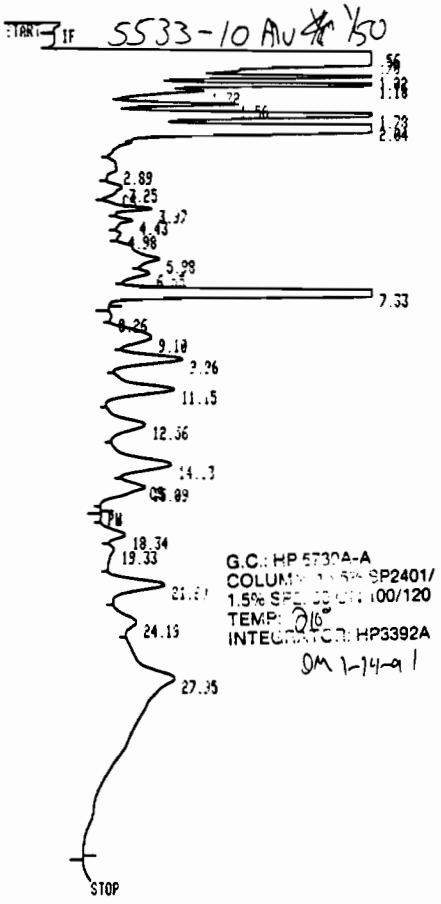


RUN # 101 JAN/13/91 21:30:49
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.67	4.8735E+07	TSPB	0.118	36.682
0.99	153520	BB	0.023	0.116
1.17	43195	BB	0.044	0.033
1.26	46715	BB	0.046	0.035
1.37	40894	BB	0.041	0.031
1.42	47484	BB	0.054	0.036
1.58	2094000	BB	0.072	1.576
1.77	2.1210E+07	SPB	0.096	15.964
2.02	4.4993E+07	TSPB	0.101	33.866
2.97	256020	BB	0.119	0.193
3.25	90209	BB	0.114	0.068
3.87	64628	BB	0.247	0.049
4.62	99050	BB	0.281	0.075
5.00	9428	BB	0.080	0.007
5.74	46165	BB	0.305	0.035
6.53	21188	BB	0.219	0.016
7.32	1612400	BB	0.279	1.214
7.98	17244	BB	0.209	0.013
9.17	690930	BB	0.176	0.520
9.98	4592000	BB	0.402	3.456
11.00	51481	BB	0.343	0.039
12.09	1290900	BB	0.567	0.972
14.09	576870	BB	0.526	0.434
15.25	205920	BB	0.687	0.155
17.74	1536560	BB	0.852	1.157
21.64	447400	BB	0.965	0.337
24.19	3205400	BB	0.985	2.413
28.12	317510	BB	1.527	0.239
31.93	207900	BB	1.317	0.157
35.40	154650	BB	1.688	0.116

TOTAL AREA= 1.3286E+08
MU FACTOR= 1.0000E+00

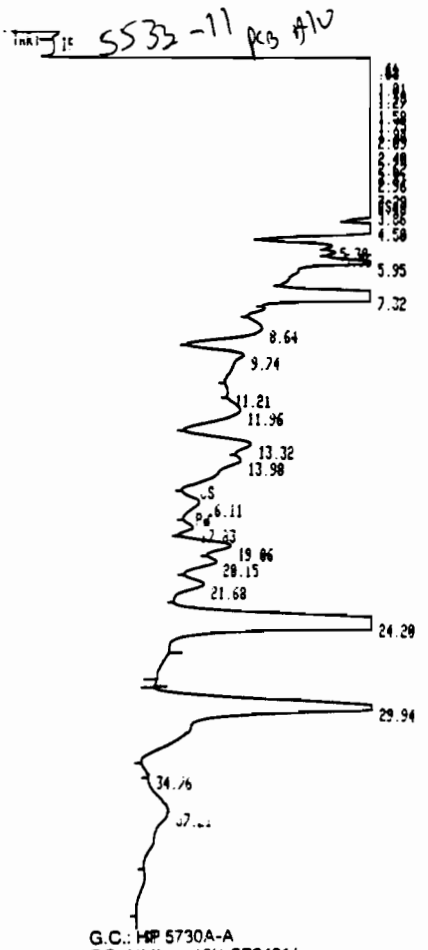


RUN # 111 JAN/14/91 12:37:24
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.56	1199800	PB	0.070	10.484
0.70	530910	BB	0.076	4.640
1.02	145820	BB	0.057	1.274
1.18	226760	BB	0.061	1.982
1.32	25711	BB	0.063	0.225
1.58	91714	BB	0.075	0.802
1.78	379510	BB	0.110	3.317
2.04	1051500	BB	0.116	9.189
2.89	28440	PB	0.248	0.249
3.25	48476	BB	0.248	0.424
3.97	95928	BB	0.208	0.838
4.43	37251	BB	0.198	0.326
4.98	9990	BB	0.181	0.087
5.98	142350	BB	0.457	1.244
6.55	47071	BB	0.255	0.411
7.33	2144200	BB	0.247	18.737
8.26	6711	DB	0.242	0.059
9.10	224970	BB	0.566	1.966
9.96	272300	BB	0.375	2.380
11.15	335700	BB	0.462	2.934
12.56	220570	BB	0.543	1.928
14.13	320910	BB	0.530	2.804
15.09	242480	BB	0.720	2.119
18.34	141360	PB	0.641	1.235
19.33	42545	BB	0.666	0.372
21.69	485570	BB	0.798	4.243
24.19	153429	BB	0.866	1.341
27.95	2791300	BB	4.335	24.393

TOTAL AREA= 1.1443E+07
MUL FACTOR= 1.0000E+00



G.C.: HP 5730A-A
COLUMN: 1.5% SP2401/
1.5% SP[illegible] 100/120
TEMP: [illegible]

RUN # 1 INTEGRATOR: HP[illegible] 02:46:51
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/MT	AREA%
0.68	3.8351E+07	VSPB	0.097	63.756
1.01	18895	BB	0.010	0.031
1.18	49358	BB	0.036	0.082
1.27	1126500	BB	0.062	1.873
1.58	3354500	BB	0.079	5.577
1.75	213130	BB	0.080	0.354
1.94	54229	BB	0.069	0.090
2.09	156550	BB	0.143	0.260
2.40	16952	BB	0.093	0.028
2.62	180920	BB	0.101	0.301
2.81	22018	BB	0.073	0.037
2.96	55997	BB	0.148	0.093
3.29	30605	BB	0.101	0.051
3.48	338420	BB	0.220	0.563
3.86	124250	BB	0.225	0.207
4.50	1276000	BB	0.226	2.121
5.30	71013	BB	0.228	0.118
5.56	17052	BB	0.144	0.028
5.95	146920	BB	0.198	0.244
7.32	3620600	BB	0.248	6.019
8.64	374540	VB	0.779	0.623
9.74	372260	BB	0.712	0.619
11.21	7422	BB	0.315	0.012
11.96	276330	BB	0.785	0.459
13.32	197850	BB	0.477	0.329
13.98	110770	BB	0.681	0.184
16.11	166590	BB	0.865	0.277
17.83	77110	BB	0.547	0.128
19.06	289770	BB	0.679	0.482
20.15	119330	BB	0.609	0.198
21.68	192080	BB	0.716	0.319
24.20	4288306	BB	0.953	7.129
29.94	3839600	BB	1.429	6.383
37.21	616530	BB	2.460	1.025

TOTAL AREA= 6.0154E+07
MUL FACTOR= 1.0000E+00

R91/0129

GC 8080

PCB'S

SUPPORT DOCUMENTATION

STANDARDS DOCUMENTATION SHEET

Analysis: PCB by 8080 Starting Date: 1/15/91

GC: HP5730A-A Column: 2401/2250

Integrater: HP3396A Temperature: 210 C

Included jobs: R91/0129

Initial Calibration

Date: 1/7/91 Time: 14:17

Continuing calibration

Date: 1/15/91 Time: 21:10

Date: 1/16/91 Time: 09:03

Date: 1/16/91 Time: 16:55

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Analyst

General Testing corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: DAVE MASUCCI
Date: 1/15/91
Time: 21:10
Run #: 138

PCB's (8080/608)
CONTINUING CALIBRATION CHECK

Calibration Date: 1/7/91
Column: 1.95% SP2401/1.5% SP2250

Instrument ID: HP 5730A-A
Oven Temp: 210 C

Compound	Conc.	Retention Times	Area Units (x.0001)	New Response Factor	Initial Response Factor	%RSD
		9.89	66.4			
PCB 1260	250	11.10	131	0.81	0.736	10
		14.07	110			

Analyst

METHOD BLANK SUMMARY SHEET

Lab Name: General Testing corp. Contract:

Lab Code: GTC Case No.:_____ SAS No.:_____ SDG No.:_____

Lab Sample ID: R90/0129
Matrix: (soil/water) Soil
Date Extracted: 1/14/91
Date Analyzed: (1): 1/15/91
Time Analyzed: (1): 23:11
Instrument ID: (1): HP5730A-A
GC Column ID: (1): 2401/2250

Lab file ID:_____
Level: (low/med): Low
Extraction: (Sepf/Cont/Sonc):
Date Analyzed: (2):
Time Analyzed: (2):_____
Instrument ID: (2):_____
GC Column ID: (2):_____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID.	DATE ANALYZED 1	DATE ANALYZED 2
01		0129-Blk	1/15/91	
02		0129-R.S.	1/16/91	
03		0129-001MS	1/16/91	
04		0129-001MS	1/16/91	
05		0129-001	1/16/91	
06		0129-002	1/16/91	
07		0129-003	1/16/91	
08		0129-004	1/16/91	
09		0129-005	1/16/91	
10		0129-006	1/16/91	
11		0129-007	1/16/91	
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS: FORM IV

page 1 of 1

8E - PCB EVALUATION STANDARDS SUMMARY
Evaluation of Retention Time Shift for Dibutylchlorendate

Lab Name: General Testing Corp. Contract: _____

Lab Code: GTC Case No.: _____ SAS No.: _____ SDG No.: ____

Instrument ID: HP5730A-A GC Column ID: 2401/2250

Dates of Analysis: 1/14/91 to 1/15/91

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D
01	AR 1260 STD 4	PCB 1260 250	1/15/91	21:10	(24.13)
02		R91/0129-BLK	1/15/91	23:11	0.2
03		R91/0129-REF	1/16/91	00:11	0.1
04		-1MS 1/10	1/16/91	01:11	*
05		-1MSD 1/10	1/16/91	02:12	*
06		-2 1/10	1/16/91	04:12	0.0
07		-3 1/10	1/16/91	05:12	0.2
08		-4 1/10	1/16/91	06:12	*
09		-5 1/10	1/16/91	07:12	*
10	AR 1254 STD 2	PCB 1254 750	1/16/91	09:12	0.0
11		0129-6 1/10	1/16/91	10:27	0.1
12		-7 1/10	1/16/91	11:26	0.1
13		R91/0129-1	1/16/91	12:15	0.1
14		R91/0129-3	1/16/91	13:49	0.2
15		R91/0129-6	1/16/91	15:48	0.4
16	AR 1248 STD 2	PCB 1248 750	1/16/91	16:55	0.4
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

FORM VIII PEST-1
NYSDEC 8-105

2E - SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

Lab Code: GTC Case No.: _____ SAS No.: _____ SDG No.:

	EPA SAMPLE NO.	S1 (DBC)#	OTHER (TCMX)#
01	R90/0129-BLK	141	73
02	R90/0129-REF SPK	94	63
03	R90/0129-1MS	t	94
04	R90/0129-1MSD	t	104
05	R90/0129-1	81	134
06	R90/0129-2	138	93
07	R90/0129-3	124	73
08	R90/0129-4	t	120
09	R90/0129-5	t	108
10	R90/0129-6	71	93
11	R90/0129-7	71	124
12			
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ADVISORY
QC LIMITS
TCMX (31-141)
DBC (24-150)

S1 (DBC) = Dibutylchlorendate
S2 (TCMX) = Tetrachloro-m-xylene
Column used to flag recovery values
++ Values outside of QC limits
D Surrogates diluted out
t = surrogates out due to matrix interference.

FORM II PEST-1
NYSDEC B-83

GENERAL TESTING CORPORATION
710 Exchange St.,Rochester, N.Y
(716)454-3760

Analyst: D. Masucci
Date: 1/16/91
Instrument: HP5730A-A
Date Extracted: 1/14/91

Client: WCC
Job#: R91/0129-1

PCB MATRIX SPIKE

Lab Name: General Testing Corp.
Lab Code:GTC Case No.:_____ SAS No.:_____

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONC. (ug/kg)	MS CONC. (ug/kg)	MS % REC	(#)	QC LIMITS % REC.
PCB 1016	-----	20.0 U	200 U			50-114
PCB 1221	-----	20.0 U	200 U			15-178
PCB 1232	-----	20.0 U	200 U			10-215
PCB 1242	-----	20.0 U	200 U			39-150
PCB 1248	-----	20.0 U	200 U			38-158
PCB 1254	-----	20.0 U	200 U			29-131
PCB 1260 2a	1670	20.0 U	1360	81		8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONC. (ug/kg)	MSD % REC.	(#)	RPD	(#)	QC LIMITS RPD	%REC
PCB 1016	-----	200 U					30	50-114
PCB 1221	-----	200 U					30	15-187
PCB 1232	-----	200 U					30	10-215
PCB 1242	-----	200 U					30	39-150
PCB 1248	-----	200 U					30	38-158
PCB 1254	-----	200 U					30	29-131
PCB 1260	1670	1480	89		8.4		30	8-127

Spike Recovery: 0 out of 2 outside limits.

RPD: 0 out of 1 outside limits.

COMMENTS:

Analyst's Signature

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/16/91
Instrument: HP5730A-A
Date Extracted: 1/14/91
Date Analyzed: 1/16/91

Analysis: PCB's by 8080.

Client: WCC
Job #: R91/0129-1MS
Run #: 142

Clean-ups: ALU

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	10	200 U	
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254			0.00	3.00	10	200 U	
PCB 1260	SEE	ATTACHED	409	3.00	10	1360	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.57	3.92	31.2	33.3	94	31-141	
Dibutylchlorendate				33.3		24-150	t

t = Surrogate matrix interference suspected.

Analyst

General testing corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: D. Masucci
Date: 1/16/91
Instrument: HP5730A-A
Date Extracted: 1/14/91
Date Analyzed:1/16/91
Client: WCC
Job #: R91/0129-1MS
Run #: 142

Analysis: Priority Pollutant Data
0.00

PCB 1260
MULTI-PEAK RESPONSE WORKSHEET

Pk. #	STD #1 R.T.	SAMPLE R.T.	SAMPLE AREA	R.F.	CONC. (ug/kg)	Avg. CONC. (ug/kg)
1	5.81	5.96	23.2	10.0 *	232	409
2	6.37	6.52	48.9	9.89	483	
3	8.75	8.92	119	3.61	430	
4	9.67	9.89	118	3.72	439	
5	10.85	11.10	226	1.89	427	
6	12.22	12.50	144	2.87	413	
7	13.76	14.08	198	2.22	439	
8	14.69	15.03	130	2.85	370	
9	17.87	18.26	78.6	4.96	390	
10	18.80	19.21	33.7	11.4	384	
11	21.17	21.57	291	1.29	375	
12	27.17	27.81	330	1.27	420	
13	36.32			12.4 *	0	
14	41.93	42.03	74.7	4.58	342	

Analyst's Signature

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT #2

Analyst: D. MASUCCI
Date: 1/16/91
Instrument ID: HP 5890A-A
Date Extracted: 1/14/91
Date Analyzed: 1/16/91

Analysis: PCB's

Clean-ups: ALU

Client: WCC
Job #: R91/0129-1MSD
Run #: 143

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	10	200 U	
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254			0.00	3.00	10	200 U	
PCB 1260	SEE	ATTACHED	445	3.00	10	1480	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	% Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.57	4.33	34.5	33.3	104	31-141	
Dibutylchlorendate				33.3		24-150	t

Analyst

General Testing Corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: D. Masucci
Date: 1/16/91
Instrument: HP5730A-A
Date Extracted: 1/14/91
Date Analyzed: 1/16/91
Client: WCC
Job #: R91/0129-1MSD
Run #: 143

Analysis: Priority Pollutant Data
0.00

PCB 1260
MULTI-PEAK RESPONSE WORKSHEET #2

Pk. #	STD #1 R.T.	SAMPLE R.T.	SAMPLE AREA	R.F.		CONC. (ug/kg)	Avg. CONC. (ug/kg)
1	5.81	5.96	27.0	10.0	*	270	445
2	6.37	6.53	51.6	9.89		510	
3	8.75	8.93	126	3.61		455	
4	9.67	9.91	124	3.72		461	
5	10.85	11.12	238	1.89		450	
6	12.22	12.52	152	2.87		436	
7	13.76	14.11	209	2.22		463	
8	14.69	15.06	138	2.85		393	
9	17.87	18.31	83.2	4.96		413	
10	18.80	19.26	36.6	11.4		417	
11	21.17	21.63	30.9	1.29	*	40	
12	27.17	27.86	34.6	1.27	*	44	
13	36.32	37.17	34.7	12.4		430	
14	41.93	42.06	102	4.58		468	

Analyst's Signature

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

Analyst: Dave Masucci
Date: 1/16/91
Date Extracted: 1/14/91
Date Analyzed: 1/15/91
Client: WCC
Job #: R91/0129 -8

PCB Analysis - QC Summary
LAB BLANK & REFERENCE CHECK

Compound	Lab Blank Conc.	Reference Spike: True Conc. (ug/kg)	Reference Spike: Percent Recovery	Acceptance Limit
PCB 1016	20.0 U			50-114
PCB 1221	20.0 U			15-178
PCB 1232	20.0 U			10-215
PCB 1242	20.0 U			39-150
PCB 1248	20.0 U			38-158
PCB 1254	20.0 U	66.7	66	29-131
PCB 1260	20.0 U			8-127

Surrogate Standards	Blank % Rec.	Amount Added	Percent Recovery	Acceptance Limit
Tetrachloro-m-xylene	73	33.3	63	31-141
Dibutylchlorendate	141	33.3	94	24-150

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT #2

Analyst: D. MASUCCI
Date: 1/16/91
Instrument ID: HP 5890A-A
Date Extracted: 1/14/91
Date Analyzed: 1/16/91

Analysis: Priority Pollutant Data
0.00

Clean-ups: ALU

Client: WCC
Job #: R91/0129-REF SPK
Run #: 141

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	1.0	0.0	
PCB 1221			0.00	3.00	1.0	0.0	
PCB 1232			0.00	3.00	1.0	0.0	
PCB 1242			0.00	3.00	1.0	0.0	
PCB 1248			0.00	3.00	1.0	0.0	
PCB 1254			0.00	3.00	1.0	0.0	
PCB 1260	SEE	ATTACHED	131	3.00	1.0	43.7	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	% Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.57	26.2	20.9	33.3	63	31-141	
Dibutylchlorendate	24.15	38.2	31.3	33.3	94	24-150	

Analyst

General Testing Corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analysis: Priority Pollutant Data
0.00

PCB 1260
MULTI-PEAK RESPONSE WORKSHEET #2

Analyst: D. Masucci
Date: 1/16/91
Instrument: HP5730A-A
Date Extracted: 1/14/91
Date Analyzed: 1/15/91
Client: WCC
Job #: R91/0129-REF SPK
Run #: 141

Pk. #	STD #1 R.T.	SAMPLE R.T.	SAMPLE AREA	R.F.		CONC. (ug/kg)	Avg. CONC. (ug/kg)
1	5.81	5.94	11.1	10.0		111	131
2	6.37	6.53	13.0	9.89		129	
3	8.75	8.95	34.5	3.61		125	
4	9.67	9.89	35.8	3.72		133	
5	10.85	11.11	69.4	1.89		131	
6	12.22	12.52	43.5	2.87		125	
7	13.76	14.10	58.4	2.22		129	
8	14.69	15.06	43.0	2.85		123	
9	17.87	18.23	43.5	4.96		216	
10	18.80	19.23	7.62	11.4		87	
11	21.17	21.63	112	1.29		144	
12	27.17	27.84	96.5	1.27		123	
13	36.32			12.4	*	0	
14	41.93	42.06	91.1	4.58	*	418	

Analyst's Signature

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/16/91
Instrument: HP5730A-A
Date Extracted: 1/14/91
Date Analyzed:1/15/91

Analysis: PCB's by 8080.

Client: WCC
Job #: R91/0129-BLK -8
Run #: 140

Clean-ups: ALU

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Q
PCB 1016			0.00	3.00	1.0	20.0 U	
PCB 1221			0.00	3.00	1.0	20.0 U	
PCB 1232			0.00	3.00	1.0	20.0 U	
PCB 1242			0.00	3.00	1.0	20.0 U	
PCB 1248			0.00	3.00	1.0	20.0 U	
PCB 1254			0.00	3.00	1.0	20.0 U	
PCB 1260			0.00	3.00	1.0	20.0 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.58	30.6	24.4	33.3	73	31-141	
Dibutylchlorendate	24.17	57.1	46.8	33.3	141	24-150	

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/16/91
Instrument: HP5730A-A
Date Extracted: 1/14/91
Date Analyzed: 1/16/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R91/0129-1
Run #: 154

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Dry weight (ug/kg)
PCB 1016			0.00	3.00	1.0	20.0 U	23.8 u
PCB 1221			0.00	3.00	1.0	20.0 U	
PCB 1232			0.00	3.00	1.0	20.0 U	
PCB 1242			0.00	3.00	1.0	20.0 U	
PCB 1248			0.00	3.00	1.0	20.0 U	
PCB 1254			0.00	3.00	1.0	20.0 U	
PCB 1260			0.00	3.00	1.0	20.0 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.58	34.0	27.1	33.3	81	31-141	
Dibutylchlorendate	24.16	54.3	44.5	33.3	134	24-150	

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/16/91
Instrument: HP5730A-A
Date Extracted: 1/14/91
Date Analyzed: 1/16/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R91/0129-2
Run #: 145

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Dry weight (ug/kg)
PCB 1016			0.00	3.00	10	200 U	287 u
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254			0.00	3.00	10	200 U	
PCB 1260			0.00	3.00	10	200 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.58	38 7	30.8	33.3	93	31-141	
Oibutylchlorendate	24.13	56 2	46.1	33.3	138	24-150	

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/16/91
Instrument: HP5730A-A
Date Extracted: 1/14/91
Date Analyzed: 1/16/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R91/0129-3
Run #: 156

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Dry weight (ug/kg)
PCB 1016			0.00	3.01	1.0	20.0 U	27.0 U
PCB 1221			0.00	3.01	1.0	20.0 U	
PCB 1232			0.00	3.01	1.0	20.0 U	
PCB 1242			0.00	3.01	1.0	20.0 U	
PCB 1248			0.00	3.01	1.0	20.0 U	
PCB 1254			0.00	3.01	1.0	20.0 U	
PCB 1260			0.00	3.01	1.0	20.0 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.58	30.4	24.2	33.3	73	31-141	
Dibutylchlorendate	24.18	50.4	41.3	33.3	124	24-150	

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

ANALYST: D. MASUCCI
Date: 1/16/91
Instrument: HP5730A-A
Date Extracted: 1/14/91
Date Analyzed: 1/16/91

LABORATORY REPORT

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R91/0129-4
Run #: 147

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Dry weight (ug/kg)
PCB 1016			0.00	3.00	10	200 U	249 U
PCB 1221			0.00	3.00	10	200 U	↓
PCB 1232			0.00	3.00	10	200 U	↓
PCB 1242	SEE	ATTACHED	174	3.00	10	580	723
PCB 1248			0.00	3.00	10	200 U	249 U
PCB 1254			0.00	3.00	10	200 U	↓
PCB 1260	SEE	ATTACHED	82.8	3.00	10	276	344

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.58	5.01	39.9	33.3	120	31-141	
Dibutylchlorendate				33.3		24-150	t

t = surrogate matrix interference suspected.

Analyst

general testing corporation

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

LABORATORY REPORT

Job No. R91/0129-4 Date 5/16-91

Client

Sample(s) Reference

Date Samples ( ) received ( ) collected by General Testing

PCB 1242/1260

P.O. # _____

ANALYTICAL RESULTS
(mg/l unless stated otherwise)

Sample Description	R.T.	area	ug/L	CONCEN. OR. DILUTION	FINAL CONC. (ug/tube)
Date(s) EXTRACTED:					
DATE (S) ANALYZED:					
	2.55	20.2	144		
	2.91	11.5	231		
~~PCB 1016~~	3.23	45.1	174	ave= 174	
~~PCB 1221~~	3.51	11.7	138		
	3.97	25.8	214		
~~PCB 1232~~	4.66	12.5	146		
PCB 1242	4.95	9.46	172		
~~PCB 1248~~					
~~PCB 1254~~	8.82	22.3	80.5		
PCB 1260	9.91	32.9	122		
	11.12	36.4	68.8		
	12.53	34.5	99.0		
	14.10	37.9	84.1	ave= 82.8	
	15.06	25.6	23.0		
	18.22	16.5	81.8		
	21.64	52.9	68.2		
	27.87	54.1	62.6		

Analytical procedures in accordance with Standard Methods for the Examination of Water and Wastewater, 15th Edition and Methods for Chemical Analysis of Water and Wastes, EPA. (<) indicates lowest detectable concentration with procedure used. Data on quality control performed with above sample(s) is available upon request. NY Laboratory Certification ID#: 10145 NJ ID#: 73331 in Rochester; ID#: 02317 in Hackensack.

ANALYST

1/84

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/16/91
Instrument: HP5730A-A
Date Extracted: 1/14/91
Date Analyzed: 1/16/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R91/0129-5
Run #: 148

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Dry weight (ug/kg)
PCB 1016			0.00	3.00	10	200 U	288 u
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254			0.00	3.00	10	200 U	
PCB 1260	SEE	Attached	112	3.00	10	373	537

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.58	4.51	35.9	33.3	108	31-141	
Dibutylchlorendate				33.3		24-150	t

t = Surrogate matrix interference suspected.

Analyst

General testing corp.
710 Exchange St., Rochester, N.Y
(716)454-3760

Analysis: Priority Pollutant Data
PCB's

PCB 1260
MULTI-PEAK RESPONSE WORKSHEET

Analyst: D. Masucci
Date: 1/16/91
Instrument: HP5730A-A
Date Extracted: 1/14/91
Date Analyzed: 1/16/91
Client: WCC
Job #: RSI/0129-5
Run #: 148

Pk. #	STD #1 R.T.	SAMPLE R.T.	SAMPLE AREA	R.F.	CONC. (ug/L)	Avg. CONC. (ug/L)
1	5.81	5.96	13.1	10.0	131	112
2	6.37	6.54	5.38	9.89	53	
3	8.75	9.02	35.2	3.61	127	
4	9.67	9.92	38.5	3.72	143	
5	10.85	11.12	52.7	1.89	100	
6	12.22	12.51	35.9	2.87	103	
7	13.76	14.09	54.2	2.22	120	
8	14.69	15.04	37.1	2.85	106	
9	17.87	18.30	20.3	4.96	101	
10	18.80	19.21	5.67	11.4	65	
11	21.17	21.61	6.14	1.29	8	
12	27.17	27.84	77.7	1.27	99	
13	36.32	37.40	22.9	12.4	283	
14	41.93	41.88	29.1	4.58	133	

Analyst's Signature

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

LABORATORY REPORT

ANALYST: D. MASUCCI
Date: 1/16/91
Instrument: HP5730A-A
Date Extracted: 1/14/91
Date Analyzed: 1/16/91

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

Client: WCC
Job #: R91/0129-6
Run #: 152,158

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Dry Weight (ug/kg)
PCB 1016			0.00	3.00	10	200 U	676 U
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254			0.00	3.00	1.0	20.0 U	67.6 U
PCB 1260			0.00	3.00	1.0	20.0 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.58	29.5	23.5	33.3	71	31-141	
Dibutylchlorendate	24.23	37.7	30.9	33.3	93	24-150	

Analyst

GENERAL TESTING CORPORATION
710 Exchange St., Rochester, N.Y
(716)454-3760

ANALYST: D. MASUCCI
Date: 1/16/91
Instrument: HP5730A-A
Date Extracted: 1/14/91
Date Analyzed:1/16/91

LABORATORY REPORT

Analysis: Priority Pollutant Data
PCB's

Clean-ups: ALU

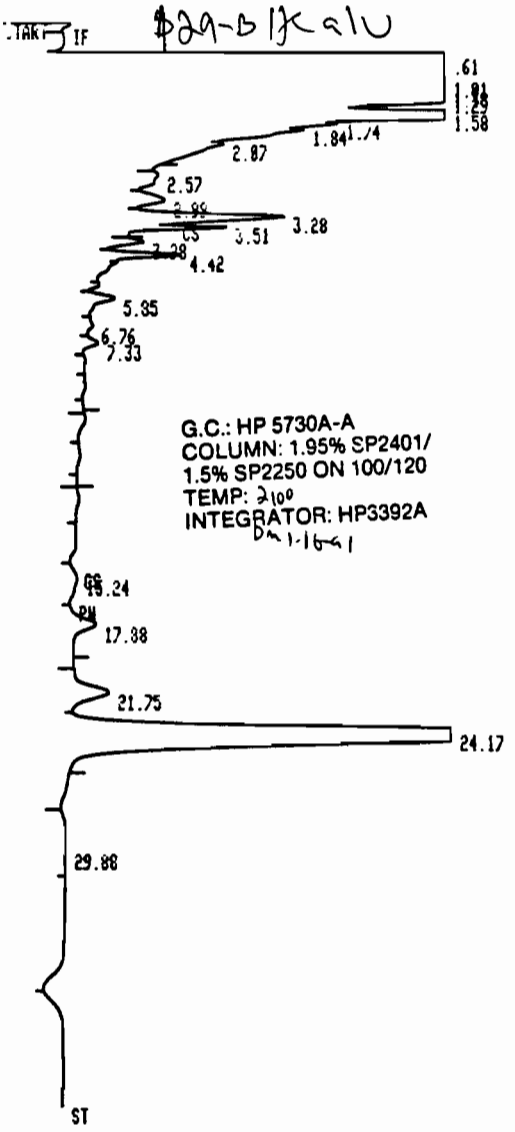
Client: WCC
Job #: R91/0129-7
Run #: 153

ANALYTICAL RESULTS

Compound	Reten. Time	Area Units	Initial Conc. (ug/kg)	Conc. Factor	Dil. Factor	Final Conc. (ug/kg)	Dry weight (ug/kg)
PCB 1016			0.00	3.00	10	200 U	241 u
PCB 1221			0.00	3.00	10	200 U	
PCB 1232			0.00	3.00	10	200 U	
PCB 1242			0.00	3.00	10	200 U	
PCB 1248			0.00	3.00	10	200 U	
PCB 1254			0.00	3.00	10	200 U	
PCB 1260			0.00	3.00	10	200 U	

Surrogate Standards	Reten. Time	Area Units	Total Recovery	Amount Added	Percent Recovery	Accep. Limits	Q
Tetrachloro-m-xylene	1.58	4.65	24.2	33.3	73	31-141	
Dibutylchlorendate	24.18	6.26	41.3	33.3	124	24-150	

Analyst

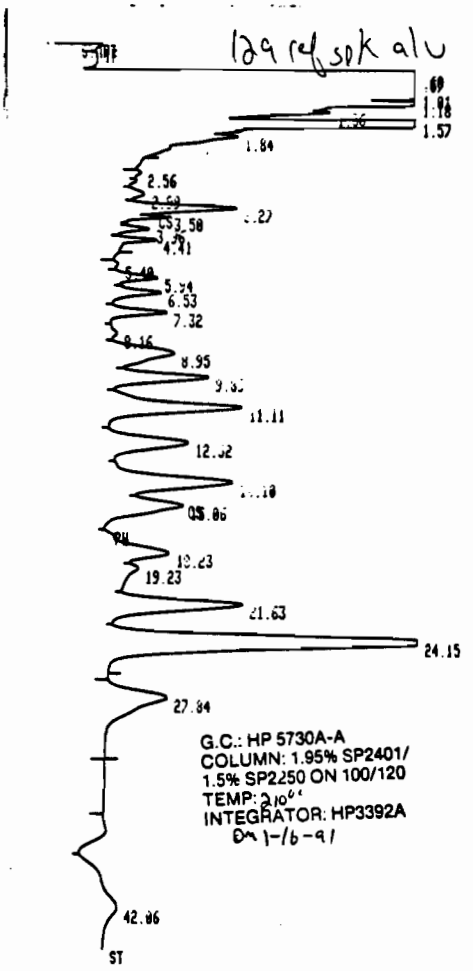


RUN # 140 JAN/15/91 23:11:03
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.61	1.4662E+07	PB	0.162	58.788
1.01	83159	BB	0.044	0.333
1.18	145080	BB	0.056	0.582
1.29	40416	BB	0.072	0.162
1.58	3061100	BB	0.080	12.274
1.74	5593 U	BB	0.044	0.022
1.84	23812	BB	0.143	0.096
2.07	17385	BB	0.177	0.070
2.57	21846	BB	0.249	0.088
2.99	40455	BB	0.159	0.162
3.28	149130	BB	0.123	0.598
3.51	63617	BB	0.098	0.255
3.98	43967	BB	0.192	0.176
4.42	103200	BB	0.161	0.414
5.85	69369	PB	0.289	0.278
6.76	12306	BB	0.272	0.049
7.33	32681	BB	0.265	0.131
15.24	86806	PB	1.139	0.348
17.88	202880	BB	0.848	0.814
21.75	295960	BB	0.856	1.187
24.17	5709000	BB	0.961	22.891
29.88	70375	PB	1.975	0.282

TOTAL AREA= 2.4940E+07
MUL FACTOR= 1.0000E+00

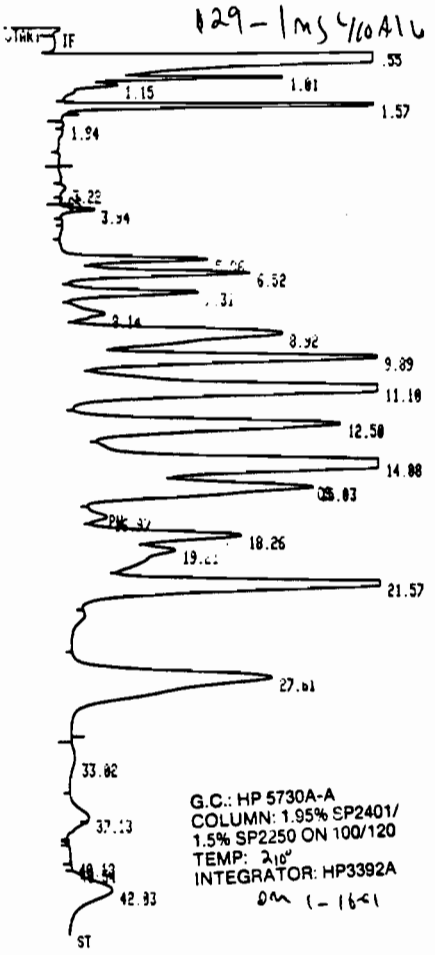


RUN # 141 JAN/16/91 00:11:23
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.60	1237700	PB	0.048	8.094
1.01	211710	BB	0.058	1.385
1.18	236250	BB	0.062	1.545
1.36	26311	BB	0.072	0.172
1.57	2622500	BB	0.080	17.150
1.84	8295	PB	0.030	0.054
2.56	5090	BB	0.086	0.033
2.99	21792	PB	0.140	0.143
3.27	137820	BB	0.128	0.901
3.58	34069	BB	0.116	0.223
3.96	59663	VB	0.191	0.390
4.41	82136	BB	0.190	0.537
5.40	8514	BB	0.193	0.056
5.94	110590	BB	0.248	0.723
6.53	130360	BB	0.261	0.853
7.32	166630	BB	0.268	1.090
8.16	17183	BB	0.283	0.112
8.95	344580	BB	0.542	2.253
9.89	358030	BB	0.359	2.341
11.11	693510	BB	0.477	4.535
12.52	435250	BB	0.504	2.846
14.10	584330	BB	0.503	3.821
15.86	429970	BB	0.697	2.812
18.23	435120	BB	0.832	2.845
19.23	76218	BB	0.639	0.498
21.63	1119600	BB	0.887	7.322
24.15	3823200	BB	0.955	25.002
27.84	964680	BB	1.425	6.309
42.86	910720	PP	3.275	5.956

TOTAL AREA= 1.5292E+07
MUL FACTOR= 1.0000E+00

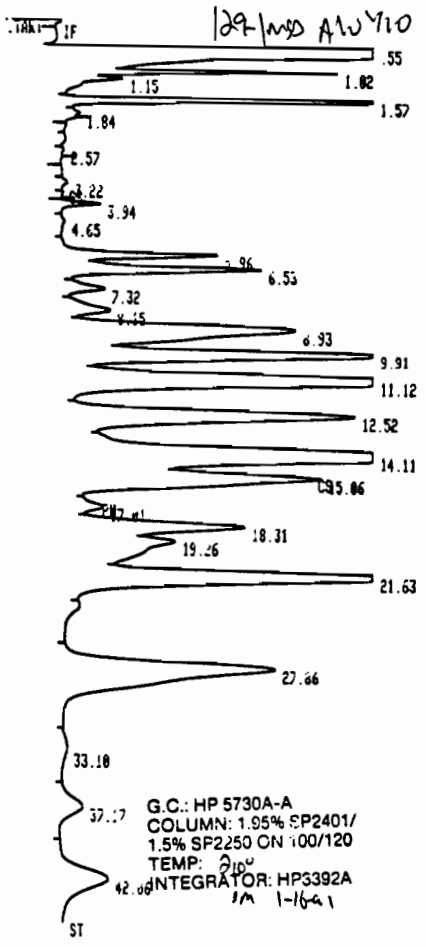


RUN # 142 JAN/16/91 01:11:43
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HI	AREA%
0.55	3.0959E+07	SPB	0.878	61.430
1.01	102470	BB	0.857	0.203
1.57	391960	BB	0.878	0.778
3.22	9056	VB	0.137	0.018
3.94	68631	BB	0.177	0.136
5.96	231900	PB	0.168	0.460
6.52	488680	BB	0.260	0.970
7.31	381460	BB	0.265	0.757
8.14	126050	BB	0.337	0.250
8.92	1189900	BB	0.559	2.361
9.89	1174600	BB	0.363	2.331
11.10	2258200	BB	0.485	4.481
12.50	1437500	BB	0.505	2.852
14.08	1980500	BB	0.506	3.930
15.03	1302800	BB	0.717	2.585
16.97	109070	BB	0.520	0.216
18.26	786100	BB	0.602	1.560
19.21	336550	BB	0.860	0.668
21.57	2910200	BB	0.801	5.775
27.81	3301500	PB	1.486	6.551
33.02	72394	BB	1.435	0.144
40.12	32230	PB	1.188	0.064
42.03	746980	BP	1.598	1.482

TOTAL AREA= 5.0398E+07
MUL FACTOR= 1.0000E+00

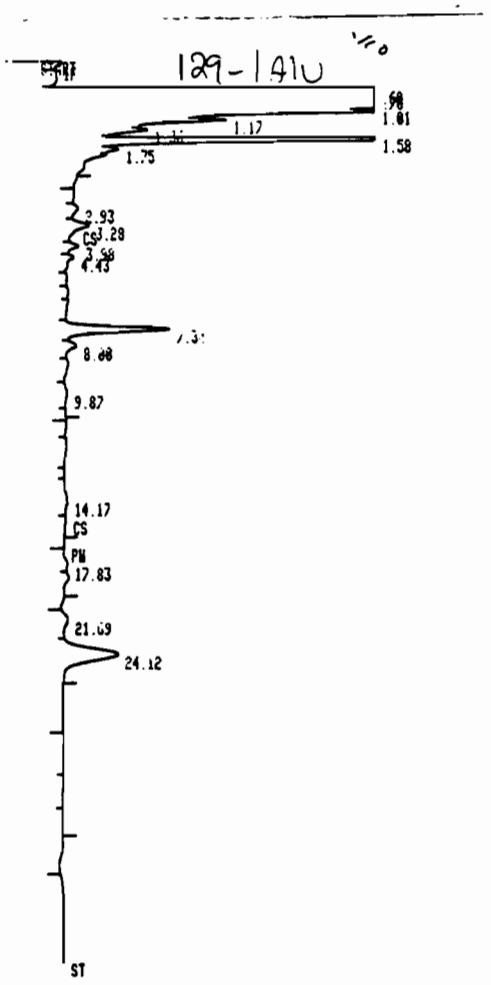


RUN # 143 JAN/16/91 02:12:04
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.55	1.0644E+07	SPB	0.881	33.728
1.02	144810	BB	0.658	0.459
1.15	5726	BB	0.021	0.018
1.57	432750	BB	0.877	1.371
3.22	9713	VB	0.136	0.031
3.94	75619	BB	0.175	0.240
4.65	13030	BB	0.322	0.041
5.96	270230	BB	0.184	0.856
6.53	516500	BB	0.260	1.637
7.32	113530	BB	0.287	0.360
8.15	143320	BB	0.352	0.454
8.93	1258500	BB	0.561	3.988
9.91	1239100	BB	0.364	3.926
11.12	2382100	BB	0.487	7.548
12.52	1523400	BB	0.507	4.827
14.11	2095300	BB	0.509	6.639
15.06	1384700	BB	0.722	4.388
17.01	115140	BB	0.521	0.365
18.31	831450	BB	0.682	2.635
19.26	366100	BB	0.875	1.160
21.63	3086600	BB	0.804	9.781
27.86	3464300	PB	1.470	10.970
33.10	76028	BB	1.430	0.241
37.17	346560	BB	1.381	1.098
42.06	1019000	BH	1.861	3.231

TOTAL AREA= 3.1558E+07
MUL FACTOR= 1.0000E+00

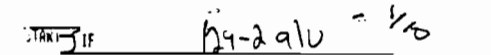


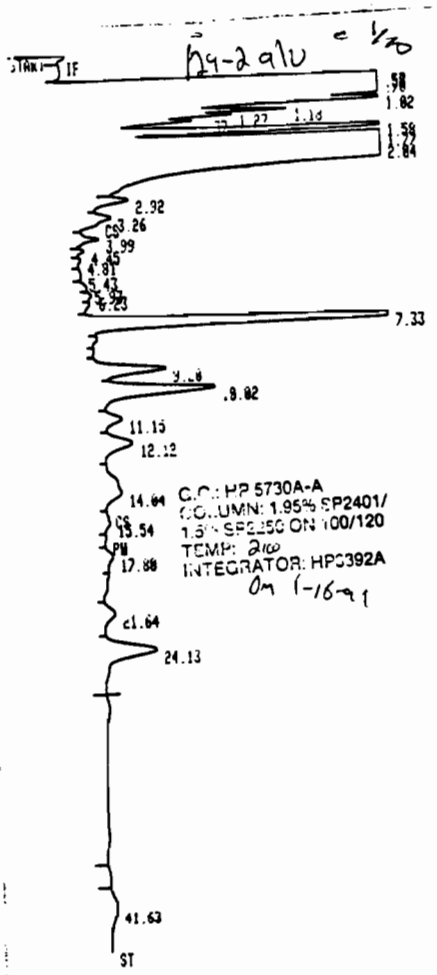
RUN # 144 JAN/16/91 03:12:26
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.60	1072500	PB	0.101	17.146
0.70	3541800	BB	0.082	56.623
1.01	60847	BB	0.046	0.973
1.17	24236	BB	0.046	0.388
1.36	14697	BB	0.070	0.235
1.58	427270	BB	0.076	6.831
1.75	8017	BB	0.065	0.128
2.93	9267	VB	0.143	0.148
3.28	32548	BB	0.165	0.520
3.98	23395	BB	0.208	0.374
4.43	18759	BB	0.260	0.300
7.34	304850	PB	0.266	4.861
8.00	28001	BB	0.268	0.448
9.87	15323	PB	0.477	0.245
14.17	15829	PB	0.563	0.253
17.83	10004	PB	0.425	0.160
21.69	55123	BB	0.826	0.881
24.12	593450	BB	0.964	9.487

TOTAL AREA= 6255100
MUL FACTOR= 1.0000E+00



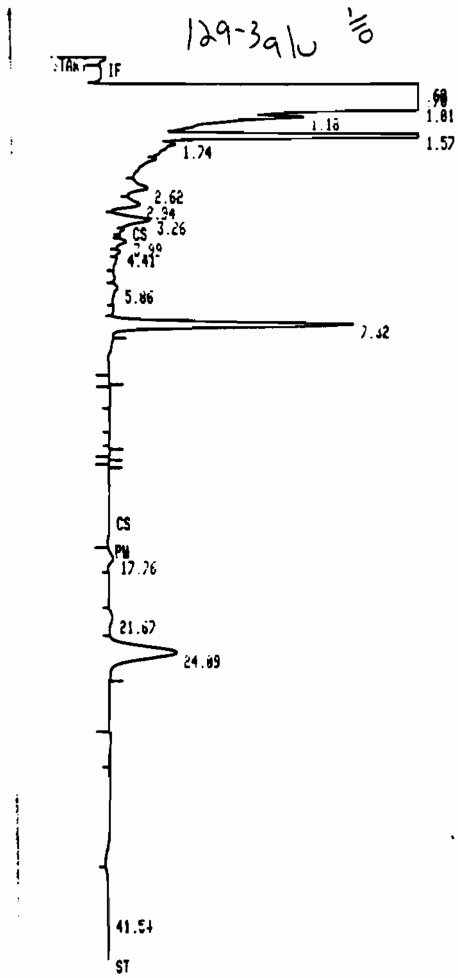


RUN # 145 JAN/16/91 04:12:47
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.57	71794	PB	0.032	0.338
0.59	69206	BB	0.043	0.326
0.70	5666400	SPB	0.071	26.681
1.02	99618	BB	0.054	0.469
1.18	43215	BB	0.051	0.204
1.27	18215	BB	0.049	0.086
1.37	20886	BB	0.063	0.098
1.58	386840	BB	0.076	1.822
1.77	3588900	BB	0.100	16.899
2.04	7570800	BB	0.104	35.648
2.92	29856	BB	0.114	0.141
3.26	53298	BB	0.230	0.251
3.99	50967	BB	0.227	0.240
4.45	11582	BB	0.156	0.055
4.81	7049	BB	0.212	0.033
5.43	7010	BB	0.300	0.033
6.23	8428	BB	0.193	0.040
7.33	1558900	PB	0.262	7.341
9.28	242660	PB	0.338	1.143
10.02	469346	BB	0.388	2.210
11.15	68986	BB	0.374	0.325
12.12	142640	BB	0.481	0.672
14.04	155320	BB	0.895	0.731
15.54	34426	BB	0.703	0.162
17.80	48748	PB	0.674	0.230
21.64	105960	PB	0.867	0.499
24.13	561940	BB	0.980	2.646
41.63	144660	BP	2.073	0.681

TOTAL AREA= 2.1238E+07

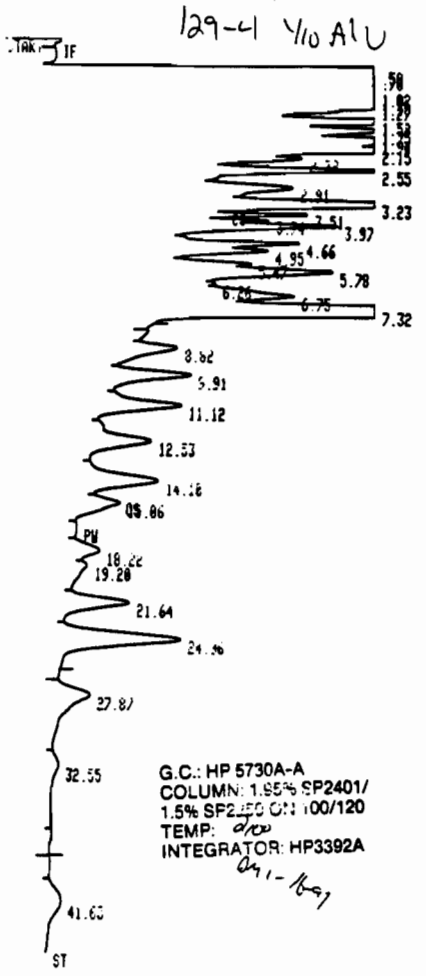


RUN # 146 JAN/16/91 05:13:08
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.60	998550	PB	0.102	13.643
0.70	3975700	BB	0.079	54.319
1.01	85494	BB	0.051	1.168
1.18	27719	BB	0.047	0.379
1.57	445550	BB	0.077	6.087
1.74	12152	BB	0.127	0.166
2.62	28912	PB	0.142	0.395
2.94	34522	BB	0.146	0.472
3.26	53460	BB	0.148	0.730
3.99	18635	PB	0.193	0.255
4.41	6040	BB	0.143	0.083
5.86	16094	PB	0.308	0.220
7.32	696440	PB	0.259	9.515
17.76	45916	BB	0.712	0.627
21.67	32574	PB	0.785	0.445
24.09	726210	BB	0.963	9.922
41.54	115210 .	PP	4.455	1.574

TOTAL AREA= 7319200
MUL FACTOR= 1.0000E+00

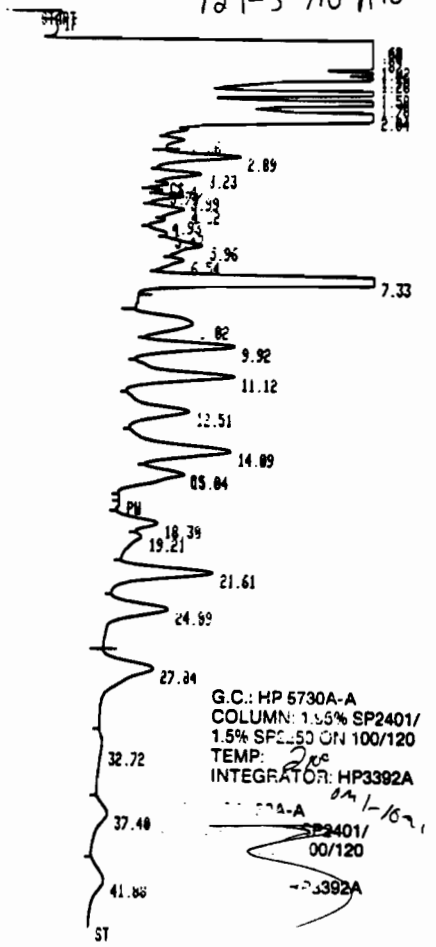


RUN # 147 JAN/16/91 06:13:38
WORKFILE ID:
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.59	941240	PB	0.098	3.862
0.70	4661200	BB	0.071	19.127
1.02	194570	BB	0.058	0.798
1.18	480090	BB	0.054	1.970
1.58	501370	BB	0.078	2.057
1.75	99851	BB	0.083	0.410
1.94	187260	BB	0.077	0.768
2.15	264680	BB	0.083	1.086
2.32	36730	BB	0.083	0.151
2.55	202520	BB	0.108	0.831
2.91	115160	BB	0.149	0.473
3.23	451160	BB	0.126	1.851
3.51	117400	BB	0.120	0.482
3.74	36837	BB	0.093	0.151
3.97	258330	BB	0.209	1.060
4.66	125140	BB	0.141	0.514
4.95	94568	BB	0.168	0.388
5.47	36368	BB	0.127	0.149
5.78	320260	BB	0.281	1.314
6.75	198660	BB	0.291	0.815
7.32	1.0167E+07	BB	0.254	41.720
8.82	223480	VB	0.446	0.917
9.91	329220	BB	0.396	1.351
11.12	364330	BB	0.432	1.495
12.53	345130	BB	0.537	1.416
14.18	379180	BB	0.519	1.556
15.06	256500	BB	0.738	1.053
18.22	165040	PB	0.722	0.677
19.28	66151	BB	0.804	0.272
21.64	528710	BB	0.778	2.170
24.06	1263300	BB	0.965	5.184
27.87	540750	BB	1.443	2.219
32.55	101090	BB	1.339	0.415
41.63	316480	VP	2.871	1.299

129-5 1/10 A1U

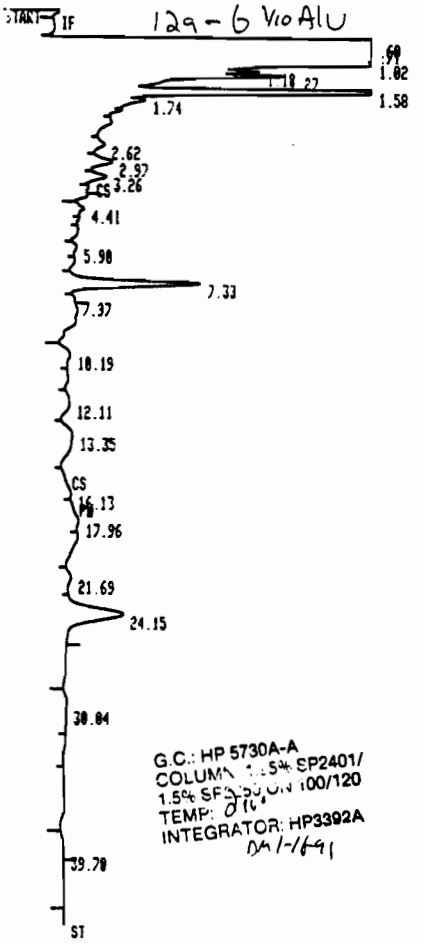


RUN # 148 JAN/16/91 07:13:51
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.62	651828	PB	0.042	4.227
0.70	3596800	BB	0.062	23.323
0.87	24544	BB	0.017	0.159
1.02	95635	BB	0.055	0.620
1.18	49415	BB	0.049	0.320
1.28	58594	BB	0.053	0.380
1.58	451000	BB	0.077	2.925
1.78	294220	BB	0.096	1.908
2.04	707950	BB	0.128	4.591
2.56	21022	PB	0.101	0.136
2.89	118700	BB	0.136	0.770
3.23	54555	BB	0.1[illegible]	0.354
3.47	20836	BB	0.15[illegible]	0.138
3.74	10575	BB	0.0[illegible]	0.069
3.99	58684	BB	0.1[illegible]	0.381
4.52	87092	BB	0.2[illegible]	0.565
4.93	12073	BB	0.147	0.078
5.47	11180	BB	0.166	0.073
5.96	130668	BB	0.341	0.847
6.54	53851	BB	0.275	0.349
7.33	3284800	BB	0.258	21.300
9.02	351720	PB	0.689	2.281
9.92	384660	BB	0.366	2.494
11.12	527040	BB	0.455	3.418
12.51	359260	BB	0.536	2.330
14.09	541510	BB	0.533	3.511
15.04	370940	BB	0.719	2.405
18.30	203200	PB	0.625	1.318
19.21	56746	BB	0.590	0.368
21.61	839120	BB	0.794	5.441
24.09	613640	BB	0.934	3.979
27.84	777280	BB	1.361	5.040
32.72	84039	BB	1.868	0.545
37.40	228590	BB	1.584	1.482
41.88	290690	BP	1.895	1.885

TOTAL AREA= 1.5422E+07
%UL FACTOR= 1.0000E+00

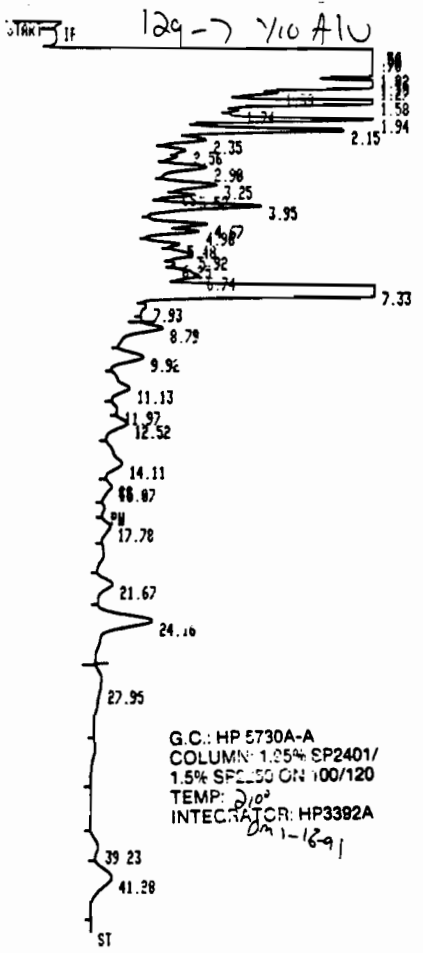


RUN # 152 JAN/16/91 10:27:58
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/MT	AREA%
0.60	994820	PB	0.099	17.745
0.71	2447000	BB	0.082	43.644
1.02	77751	BB	0.053	1.387
1.18	13154	BB	0.043	0.235
1.27	23473	BB	0.031	0.419
1.58	486778	BB	0.077	8.682
1.74	10085	BB	0.073	0.180
2.62	14969	PB	0.145	0.267
2.97	33928	BB	0.149	0.605
3.26	25158	BB	0.127	0.449
4.41	17638	BB	0.230	0.315
5.90	14807	PB	0.284	0.264
7.33	408600	PB	0.283	7.288
10.19	40985	PB	0.508	0.731
12.11	60011	VB	0.760	1.070
13.35	146698	BB	1.099	2.616
16.13	29351	BB	1.312	0.524
17.96	38582	BB	0.885	0.688
21.69	36061	PB	0.737	0.643
24.15	625428	BB	0.986	11.155
30.04	40360	BB	1.219	0.720
39.70	21069	BB	1.254	0.376

TOTAL AREA= 5606700
MUL FACTOR= 1.0000E+00

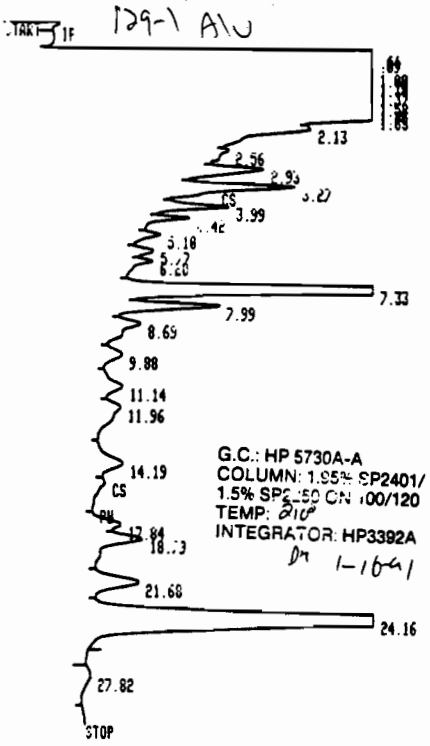


RUN # 153 JAN/16/91 11:26:09
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HI	AREA%
0.56	96700	PB	0.037	0.656
0.59	60493	BB	0.041	0.411
0.70	1627100	BB	0.078	11.045
1.02	107660	BB	0.060	0.731
1.18	207430	BB	0.053	1.408
1.27	53941	BB	0.047	0.366
1.39	9483	BB	0.055	0.064
1.58	464970	BB	0.077	3.156
1.94	166830	BB	0.086	1.133
2.15	160130	BB	0.094	1.087
2.35	29736	BB	0.095	0.202
2.56	14550	BB	0.083	0.099
2.98	65606	PB	0.137	0.445
3.25	69689	BB	0.129	0.473
3.52	39189	BB	0.141	0.266
3.95	288450	BB	0.243	1.958
4.67	65713	BB	0.151	0.446
4.96	57224	BB	0.162	0.388
5.48	33025	BB	0.156	0.224
5.92	66169	BB	0.273	0.449
6.74	90595	BB	0.323	0.615
7.33	9088700	BB	0.258	61.151
7.93	9223	BB	0.212	0.063
8.79	83631	BB	0.268	0.568
9.92	127930	BB	0.395	0.868
11.13	105370	BB	0.512	0.715
11.97	8955	BB	0.280	0.061
12.52	67195	BB	0.413	0.456
14.11	126790	BB	0.692	0.861
15.07	52411	BB	0.627	0.356
17.78	81021	PB	0.821	0.550
21.67	141940	PB	0.826	0.964
24.16	625770	BB	1.006	4.248
27.95	156340	BB	2.116	1.061
39.23	55492	PB	1.004	0.377
41.28	306460	BB	1.454	2.080

TOTAL AREA= 1.4732E+07
MUL FACTOR= 1.0000E+00



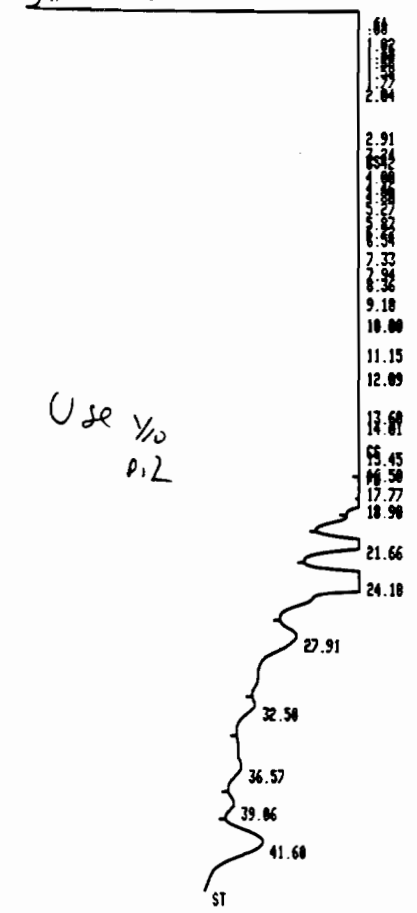
RUN # 154 JAN/16/91 12:15:39
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.61	1734400	PB	0.043	4.061
0.69	2.5945E+07	SPB	0.071	60.753
1.00	383900	BB	0.050	0.899
1.18	253200	BB	0.058	0.593
1.37	162590	BB	0.076	0.381
1.58	3402800	BB	0.078	7.968
1.75	64072	BB	0.062	0.150
1.85	12226	BB	0.025	0.029
2.56	13450	BB	0.157	0.032
2.93	107970	BB	0.159	0.253
3.27	218650	BB	0.178	0.512
3.99	165560	BB	0.226	0.388
4.42	64605	BB	0.161	0.151
5.10	50738	BB	0.239	0.119
5.77	49647	BB	0.262	0.116
6.20	40151	BB	0.220	0.094
7.33	3010700	BB	0.262	7.050
7.99	272860	BB	0.270	0.639
8.69	133300	BB	0.471	0.312
9.88	83205	BB	0.442	0.195
11.14	91084	BB	0.468	0.213
11.96	136190	BB	0.733	0.319
14.19	134070	BB	0.539	0.314
17.84	72688	PB	0.464	0.170
18.79	204330	BB	0.542	0.479
21.68	384370	BB	0.796	0.900
24.16	5433600	BB	0.960	12.724
27.82	80313	BB	1.140	0.188

TOTAL AREA= 4.2705E+07
MUL FACTOR= 1.0000E+00

129-2 A1U



Use 1/10
0.12

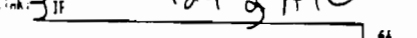
RUN # 155 JAN/16/91 12:48:48
WORKFILE ID: C
WORKFILE NAME:

AREA%

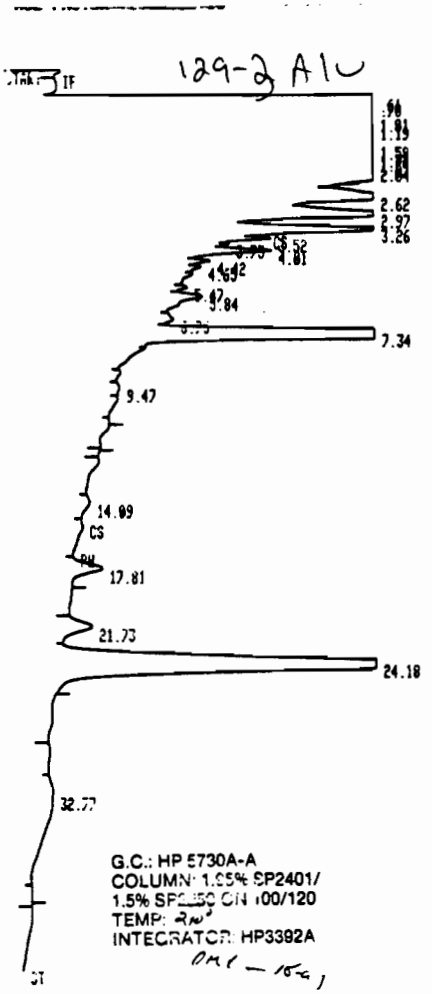
RT	AREA	TYPE	AR/HT	AREA%
0.61	1199100	PB	0.050	0.928
0.68	3.6025E+07	↑SPB	0.086	27.888
1.02	267090	BB	0.053	0.207
1.18	253310	BB	0.050	0.196
1.27	101770	BB	0.049	0.079
1.38	137770	BB	0.066	0.107
1.58	2549500	BB	0.076	1.974
1.77	2.7388E+07	SPB	0.096	21.202
2.04	3.4700E+07	↑SPB	0.080	26.863
2.91	247890	BB	0.119	0.192
3.24	75785	BB	0.111	0.059
3.42	71548	BB	0.160	0.055
4.00	320350	BB	0.230	0.248
4.46	47175	BB	0.141	0.037
4.80	57432	BB	0.243	0.045
5.27	24505	BB	0.226	0.019
5.87	23633	BB	0.218	0.018
6.22	70189	BB	0.206	0.054
6.54	35878	BB	0.205	0.028
7.33	1.2458E+07	BB	0.268	9.638
7.94	63770	BB	0.284	0.049
8.36	21922	BB	0.250	0.017
9.18	2041380	BB	0.344	1.580
10.00	2295100	BB	0.376	1.777
11.15	473570	BB	0.378	0.367
12.09	1206700	BB	0.478	0.934
13.60	114760	BB	0.342	0.089
14.01	96477	BB	0.324	0.075
15.45	228810	BB	0.744	0.177
16.50	54170	BB	0.421	0.042
17.77	229260	BB	0.647	0.178
18.90	50877	BB	0.558	0.039
21.66	711830	PB	0.853	0.551
24.18	3855200	BB	1.005	2.985
27.91	370220	BB	1.414	0.287
32.50	72958	BB	0.846	0.057
36.57	207700	BB	1.874	0.161
39.06	80357	BB	0.985	0.062
41.60	955860	I BP	1.923	0.740

TOTAL AREA= 1.2918E+08
MUL FACTOR= 1.0000E+00

129-2 A1U



160

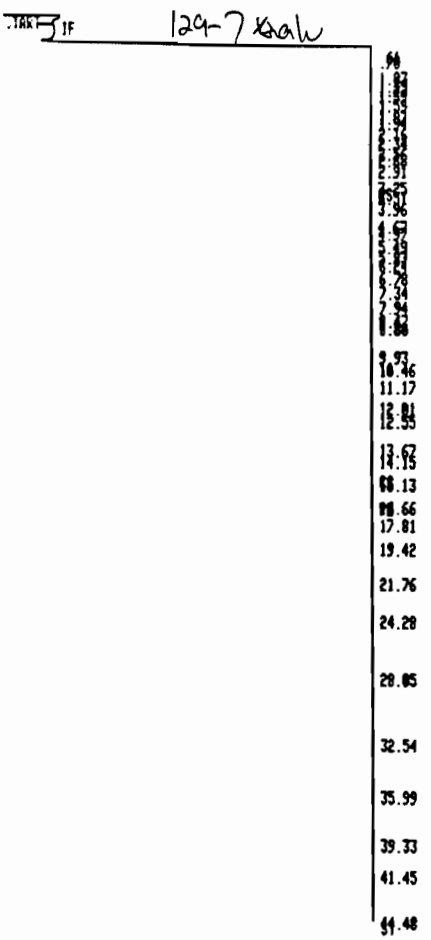


RUN # 156 JAN/16/91 13:49:07
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/Ht	AREA%
0.61	1297500	PB	0.043	2.858
0.70	2.6513E+07	VSPB	0.064	58.397
1.01	114320	BB	0.041	0.252
1.19	362276	BB	0.080	0.798
1.58	3039100	PB	0.079	6.694
1.74	22317	BB	0.054	0.049
1.84	15199	BB	0.067	0.034
2.04	8422	BB	0.033	0.019
2.62	220590	BB	0.140	0.486
2.97	256040	BB	0.148	0.564
3.26	231360	BB	0.135	0.510
3.52	36628	BB	0.111	0.081
3.73	5202	BB	0.081	0.012
4.01	127360	BB	0.186	0.281
4.42	22864	BB	0.130	0.050
4.65	10479	BB	0.126	0.023
5.47	12206	PB	0.136	0.027
5.84	101460	BB	0.331	0.224
6.75	22274	BB	0.250	0.049
7.34	6829700	BB	0.262	15.043
9.47	8833	PB	0.267	0.020
14.09	31106	PB	0.583	0.069
17.81	246900	PB	0.731	0.544
21.73	227160	BB	0.775	0.500
24.18	5043100	BB	0.963	11.108
32.77	595420	VB	4.701	1.312

TOTAL AREA= 4.5401E+07
MUL FACTOR= 1.0000E+00

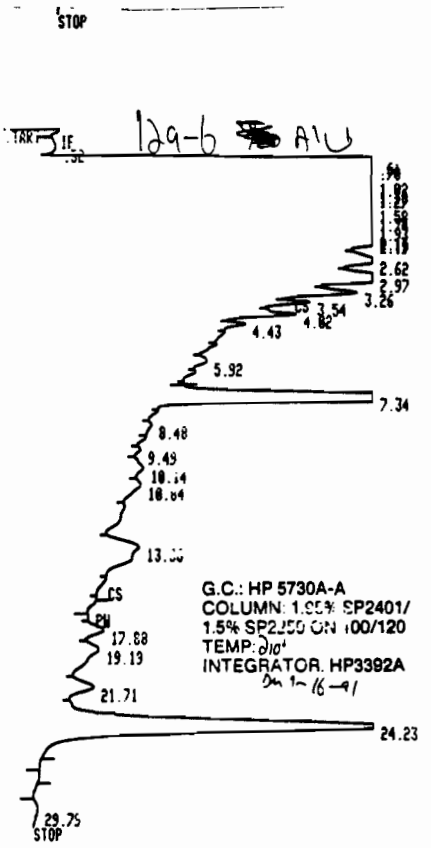


RUN # 157 JAN/16/91 14:48:36
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.61	762860	PB	0.033	0.654
0.70	1.3340E+07	SPB	0.072	11.436
1.03	487470	BB	0.060	0.418
1.19	1932800	BB	0.053	1.657
1.27	221850	BB	0.041	0.190
1.39	68689	BB	0.051	0.059
1.59	5330960	BB	0.105	4.570
1.83	8393	BB	0.033	0.007
1.94	833340	BB	0.070	0.714
2.16	1501800	BB	0.092	1.288
2.34	252620	BB	0.097	0.217
2.56	106170	BB	0.083	0.091
2.68	34573	BB	0.078	0.030
2.91	656500	BB	0.155	0.563
3.25	332370	BB	0.115	0.285
3.51	970250	BB	0.147	0.832
3.96	1742100	BB	0.242	1.494
4.67	457380	BB	0.159	0.392
4.97	387970	BB	0.161	0.333
5.49	195490	BB	0.164	0.168
5.93	391770	BB	0.262	0.336
6.24	20574	BB	0.116	0.018
6.78	307420	BB	0.286	0.264
7.34	7.1771E+07	BB	0.274	61.529
7.94	37268	BB	0.187	0.032
8.80	469760	BB	0.244	0.403
9.93	896400	BB	0.406	0.769
11.17	672570	BB	0.509	0.577
12.81	71947	BB	0.273	0.062
12.55	460600	BB	0.414	0.395
13.67	43422	BB	0.373	0.037
14.15	339100	BB	0.430	0.291
15.13	313720	BB	0.600	0.269
16.66	165120	BB	0.504	0.142
17.81	402790	BB	0.806	0.345
19.42	405840	BB	1.251	0.348
21.76	1119000	BB	0.848	0.960
24.28	4470400	BB	1.041	3.832
28.05	1067900	BB	1.840	0.916
32.54	372770	BB	1.364	0.320
35.99	156130	BB	1.632	0.134
39.33	450790	BB	1.009	0.387
41.45	2554300	BB	1.451	2.190
44.48	62071	BH	0.749	0.053

TOTAL AREA= 1.1665E+08
MUL FACTOR= 1.0000E+00



RUN # 158 JAN/16/91 15:48:55
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.32	17459	BB	0.244	0.063
0.61	1241900	BB	0.040	4.484
0.70	1.3920E+07	SPB	0.068	50.262
1.02	307200	BB	0.054	1.109
1.18	103870	BB	0.044	0.375
1.27	35725	BB	0.013	0.129
1.58	2946400	BB	0.074	10.639
1.74	40488	BB	0.076	0.146
1.93	24659	BB	0.060	0.089
2.19	27088	BB	0.084	0.098
2.62	82681	BB	0.131	0.298
2.97	288340	BB	0.139	1.041
3.26	64778	BB	0.113	0.234
3.54	56908	BB	0.151	0.206
4.02	114420	BB	0.282	0.413
4.43	37684	BB	0.169	0.136
5.92	34580	PB	0.312	0.125
7.34	3551200	BB	0.269	12.823
8.48	11685	PB	0.279	0.042
9.49	9611	PB	0.208	0.035
10.14	33209	BB	0.385	0.120
10.84	46344	BB	0.489	0.167
13.36	336210	PB	0.929	1.214
17.88	126530	VB	0.659	0.457
19.19	218950	BB	1.167	0.791
21.71	189770	BB	0.743	0.685
24.23	3772000	BB	0.969	13.620
29.79	55130	BP	1.136	0.199

TOTAL AREA= 2.7694E+07
MUL FACTOR= 1.0000E+00

CLIENT: WCC JOB#: K91/0129 METHOD: PCB 8080 EXTRACTION: 3550

SAMPLE #	INITIAL WT. OR VOL	EXTRACT. FINAL VOL	APPEARANCE	SPIKE ADDED	CONC. DATE	PRIMARY CLEAN-UP	DATE	DILUTION & SECONDARY CLU	DATE	COMMENTS	DATE ANALYZED
K91/0129						3610					
1 ✓	30.03g	10ml	Dark Brown Soil	LMS + LMSD	1/14/91	Alu STR.	1/14/91	1/10	1/14/91		1/14/91
LMS ✓	30.03g		Dark Brown Soil	1ml of PCB							
LMSD ✓	30.03g		Dark Brown Soil	1260 50ppm							
2 ✓	30.01g		Brown Soil	p194 PAH+m							
3 ✓	30.07g		Dark Brown Soil	1/14/91 @ ROH						30g Extra Na_2SO_4	
4 ✓	30.00g		Dark Brown Soil	in iso-octane							
5 ✓	30.00g		Brown Soil	Ref SPK							
6 ✓	30.04g		Dark Brown Soil	1ml of PCB						30g Extra Na_2SO_4	
7 ✓	30.00g		Dark Brown Soil	1260 2.0ppm							
BLK ✓	—		clear, colorless	in MeOH							
RefSPK ✓	—		clear, colorless	p169 PAH+m							
				9/14/90 @ ROH							

DATE EXTRACTED: 1/14/91 MISC. FEB 1/14/91

CLIENT: WCC K91/0129 ANALYSIS: PCB 8080 ANALYST: P. Hoserfeld

METHOD SUMMARY:

30.0g Sample, 60.0g Na_2SO_4, and 100ml 1:1 $MeCl_2$/Acetone Sonicated for 3mins.. 3x's more for a total of 3.

SURROGATE: 1ml Test/PCB Surrogate 1.00 ppm Tcmx and DBC in MeOH p186 PAH+m 12/14/90 ROH 5045

R90/5533

R91/0129

GC 8080

PCB

CONFIRMATORY

CHROMATOGRAMS

The jobs R90/5533, and R91/0129 were analyzed for PCB's using method 8080 from SW846. Samples R90/5533-006, -008, and -009 were confirmed on 2/7/91 using 3% SP2100 ~~71.5% SP2250~~. All other samples were confirmed on 2/1/91 using RTx-35. Positive hits were found confirming the presence of PCB's in all samples.

2/8/91

10 - PESTICIDE/PCB IDENTIFICATION

Lab Name: General Testing Corp. Contract: _____

Lab Code: GTC Case No.: _____ SAS No.: _____ SDG No.: ___

GC Column ID: (1): 2401/2250 GC Column ID: (2): 2100

Instrument ID (1): HP5730A-A Instrument ID (2): HP5730A-A

Lab Sample ID: R90/5533-6

Lab File ID: _____ (only if confirmed by GC/MS)

	PESTICIDE/PCB	RETENTION TIME		RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)
01	PCB 1260	Column 1	12.50	11.99	12.57	Y
02		Column 2	17.70	17.43	17.79	N
03	_____	Column 1	_____	_____	_____	___
04		Column 2	_____	_____	_____	___
05	_____	Column 1	_____	_____	_____	___
06		Column 2	_____	_____	_____	___
07	_____	Column 1	_____	_____	_____	___
08		Column 2	_____	_____	_____	___
09	_____	Column 1	_____	_____	_____	___
10		Column 2	_____	_____	_____	___
11	_____	Column 1	_____	_____	_____	___
12		Column 2	_____	_____	_____	___

COMMENTS: _____

_____

10 - PESTICIDE/PCB IDENTIFICATION

Lab Name: General Testing Corp. Contract: _____

Lab Code: GTC Case No.: _____ SAS No.: _____ SDG No.: ___

GC Column ID: (1): 2401/2250 GC Column ID: (2): 2100

Instrument ID (1): HP5730A-A Instrument ID (2): HP5730A-A

Lab Sample ID: R90/5533-8 1/10

Lab File ID: _____ (only if confirmed by GC/MS)

	PESTICIDE/PCB	RETENTION TIME		RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)
01	PCB 1260	Column 1	12.52	11.99	12.57	Y
02		Column 2	17.66	17.43	17.79	N
03	_____	Column 1	_____	_____	_____	___
04		Column 2	_____	_____	_____	___
05	_____	Column 1	_____	_____	_____	___
06		Column 2	_____	_____	_____	___
07	_____	Column 1	_____	_____	_____	___
08		Column 2	_____	_____	_____	___
09	_____	Column 1	_____	_____	_____	___
10		Column 2	_____	_____	_____	___
11	_____	Column 1	_____	_____	_____	___
12		Column 2	_____	_____	_____	___

COMMENTS: _____

_____

10 - PESTICIDE/PCB IDENTIFICATION

Lab Name: General Testing Corp. Contract: _____

Lab Code: GTC Case No.: _____ SAS No.: _____ SDG No.: ___

GC Column ID: (1): 2401/2250 GC Column ID: (2): 2100

Instrument ID (1): HP5730A-A Instrument ID (2): HP5730A-A

Lab Sample ID: R90/5533-9 1/10

Lab File ID: _____ (only if confirmed by GC/MS)

	PESTICIDE/PCB	RETENTION TIME		RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)
01	PCB 1260	Column 1	12.51	11.99	12.57	Y
02		Column 2	17.67	17.43	17.79	N
03	_____	Column 1	_____	_____	_____	___
04		Column 2	_____	_____	_____	___
05	_____	Column 1	_____	_____	_____	___
06		Column 2	_____	_____	_____	___
07	_____	Column 1	_____	_____	_____	___
08		Column 2	_____	_____	_____	___
09	_____	Column 1	_____	_____	_____	___
10		Column 2	_____	_____	_____	___
11	_____	Column 1	_____	_____	_____	___
12		Column 2	_____	_____	_____	___

COMMENTS: _____

_____

10 - PESTICIDE/PCB IDENTIFICATION

Lab Name: General Testing Corp. Contract: _____

Lab Code: GTC Case No.: _____ SAS No.: _____ SDG No.: ___

GC Column ID: (1): 2401/2250 GC Column ID: (2): RTx-35

Instrument ID (1): HP5730A-A Instrument ID (2): HP5890II-F

Lab Sample ID: R91/0129-4 1/10

Lab File ID: _____ (only if confirmed by GC/MS)

	PESTICIDE/PCB	RETENTION TIME		RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)
01	PCB 1260	Column 1	12.53	11.99	12.57	Y
02		Column 2	49.48	48.96	49.94	N
03	PCB 1242	Column 1	5.78	5.13	6.27	Y
04		Column 2	17.38	17.20	17.55	N
05	_____	Column 1	_____	_____	_____	___
06		Column 2	_____	_____	_____	___
07	_____	Column 1	_____	_____	_____	___
08		Column 2	_____	_____	_____	___
09	_____	Column 1	_____	_____	_____	___
10		Column 2	_____	_____	_____	___
11	_____	Column 1	_____	_____	_____	___
12		Column 2	_____	_____	_____	___

COMMENTS: _____

_____

10 - PESTICIDE/PCB IDENTIFICATION

Lab Name: General Testing Corp. Contract: _____

Lab Code: GTC Case No.: _____ SAS No.: _____ SDG No.: ___

GC Column ID: (1): 2401/2250 GC Column ID: (2): RTx-35

Instrument ID (1): HP5730A-A Instrument ID (2): HP5890II-F

Lab Sample ID: R91/0129-5 1/10

Lab File ID: _____ (only if confirmed by GC/MS)

	PESTICIDE/PCB	RETENTION TIME		RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)
01	PCB 1260	Column 1	12.51	11.99	12.57	Y
02		Column 2	49.43	48.96	49.94	N
03	_____	Column 1	_____	_____	_____	___
04		Column 2	_____	_____	_____	___
05	_____	Column 1	_____	_____	_____	___
06		Column 2	_____	_____	_____	___
07	_____	Column 1	_____	_____	_____	___
08		Column 2	_____	_____	_____	___
09	_____	Column 1	_____	_____	_____	___
10		Column 2	_____	_____	_____	___
11	_____	Column 1	_____	_____	_____	___
12		Column 2	_____	_____	_____	___

COMMENTS: _____

10 - PESTICIDE/PCB IDENTIFICATION

Lab Name: General Testing Corp. Contract: _____

Lab Code: GTC Case No.: _____ SAS No.: _____ SDG No.: ___

GC Column ID: (1): 2401/2250 GC Column ID: (2): RTx-35

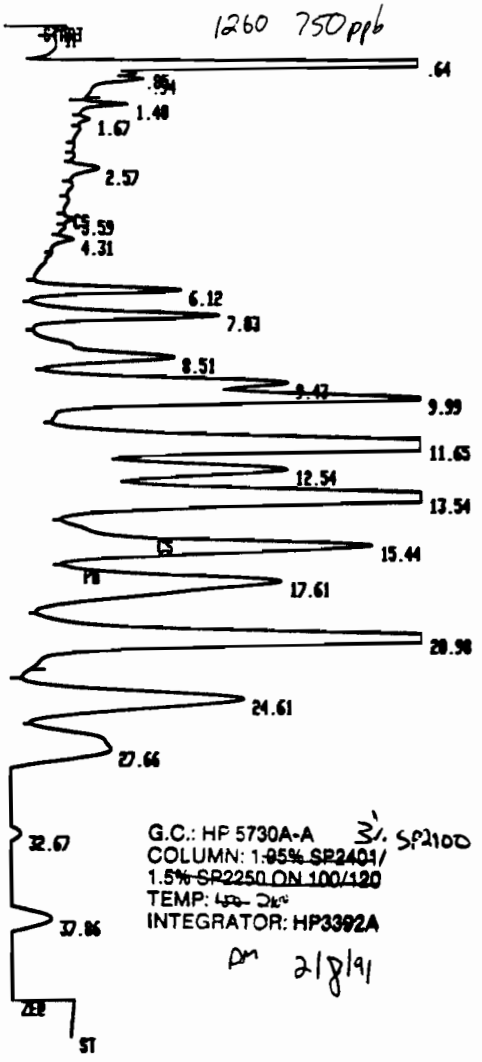
Instrument ID (1): HP5730A-A Instrument ID (2): HP5890II-F

Lab Sample ID: R90/5533-10 1/50

Lab File ID: _____ (only if confirmed by GC/MS)

	PESTICIDE/PCB	RETENTION TIME		RT WINDOW OF STANDARD FROM	TO	QUANT? (Y/N)
01	PCB 1260	Column 1	12.56	11.99	12.57	Y
02		Column 2	49.43	48.96	49.94	N
03	_____	Column 1	_____	_____	_____	___
04		Column 2	_____	_____	_____	___
05	_____	Column 1	_____	_____	_____	___
06		Column 2	_____	_____	_____	___
07	_____	Column 1	_____	_____	_____	___
08		Column 2	_____	_____	_____	___
09	_____	Column 1	_____	_____	_____	___
10		Column 2	_____	_____	_____	___
11	_____	Column 1	_____	_____	_____	___
12		Column 2	_____	_____	_____	___

COMMENTS: _____

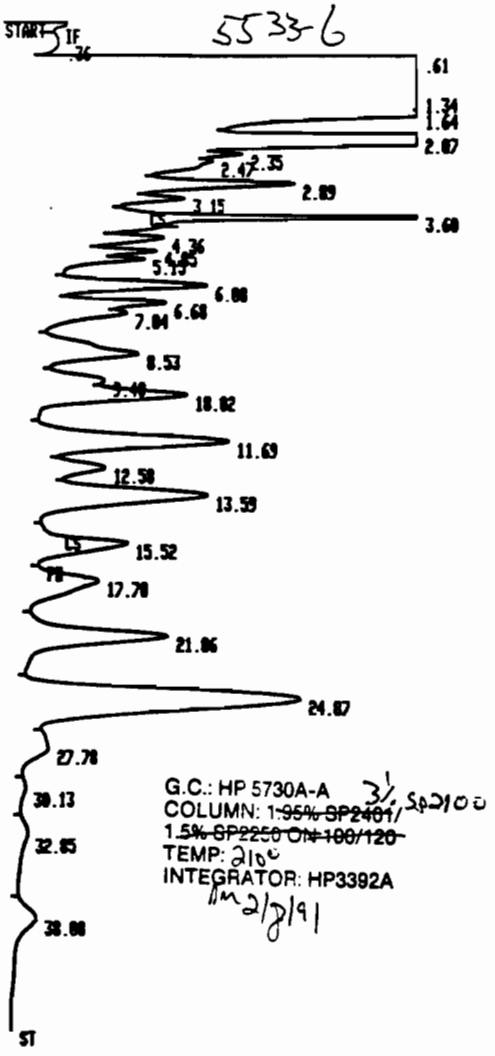


RUN # 2 FEB/07/91 13:00:01
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.64	2846300	SPB	0.059	10.325
1.48	33662	BB	0.076	0.122
1.67	8176	BB	0.079	0.030
2.57	38780	PB	0.136	0.141
3.59	13564	PB	0.150	0.049
4.31	33616	PB	0.197	0.122
6.12	394000	PB	0.266	1.430
7.83	629730	BB	0.339	2.284
8.51	640850	BB	0.470	2.325
9.43	368810	BB	0.305	1.389
9.99	677290	BB	0.274	2.457
11.65	2723000	BB	0.512	9.877
12.54	670630	BB	0.412	2.433
13.54	2380300	BB	0.560	8.634
15.44	2734000	BB	0.005	9.910
17.61	2759900	BB	1.200	10.011
20.98	4857800	BB	0.965	17.621
24.61	2574700	PB	1.187	9.340
27.66	1516200	BB	1.602	5.500
32.67	520900	BB	1.511	1.890
37.86	1153300	BB	1.602	4.104

TOTAL AREA= 2.7568E+07
MUL FACTOR= 1.0000E+00



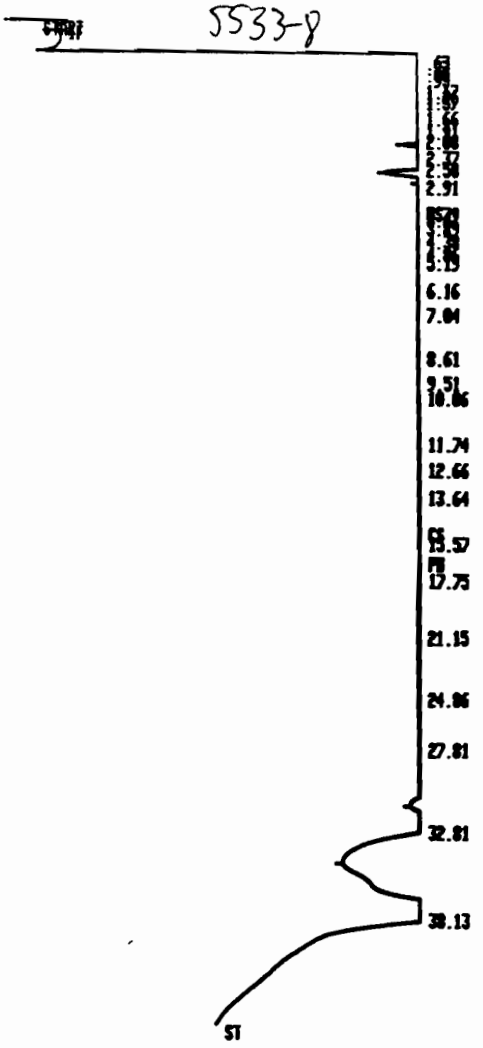
RUN # 3 FEB/07/91 14:00:19
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0.36	33358	BB	0.299	0.025
0.61	1.1586E+08	†SPB	0.242	87.958
1.34	75772	BB	0.024	0.058
1.64	73089	BB	0.061	0.055
2.07	3507400	BB	0.104	2.663
2.35	21575	BB	0.068	0.016
2.47	34183	BB	0.222	0.026
2.89	210310	BB	0.143	0.160
3.15	51167	BB	0.103	0.039
3.68	544668	BB	0.185	0.414
4.36	137350	BB	0.260	0.104
4.85	86105	BB	0.171	0.065
5.15	45259	BB	0.107	0.034
6.08	474940	BB	0.335	0.361
6.68	168500	BB	0.236	0.128
7.04	25412	BB	0.110	0.019
8.53	499640	BB	0.558	0.379
9.48	44499	BB	0.276	0.034
10.82	345500	BB	0.329	0.262
11.69	922700	BB	0.518	0.701
12.58	178500	BB	0.398	0.136
13.59	904210	BB	0.589	0.687
15.52	790640	BB	0.892	0.600
17.78	763020	BB	1.198	0.579
21.86	1378700	BB	0.992	1.047
24.87	3793900	BB	1.422	2.880
27.78	205990	BB	1.282	0.156
30.13	42584	BB	0.991	0.032
32.85	155860	BB	1.854	0.118
38.08	346630	I BP	1.731	0.263

TOTAL AREA= 1.3172E+08
MUL FACTOR= 1.0000E+00

5533-8

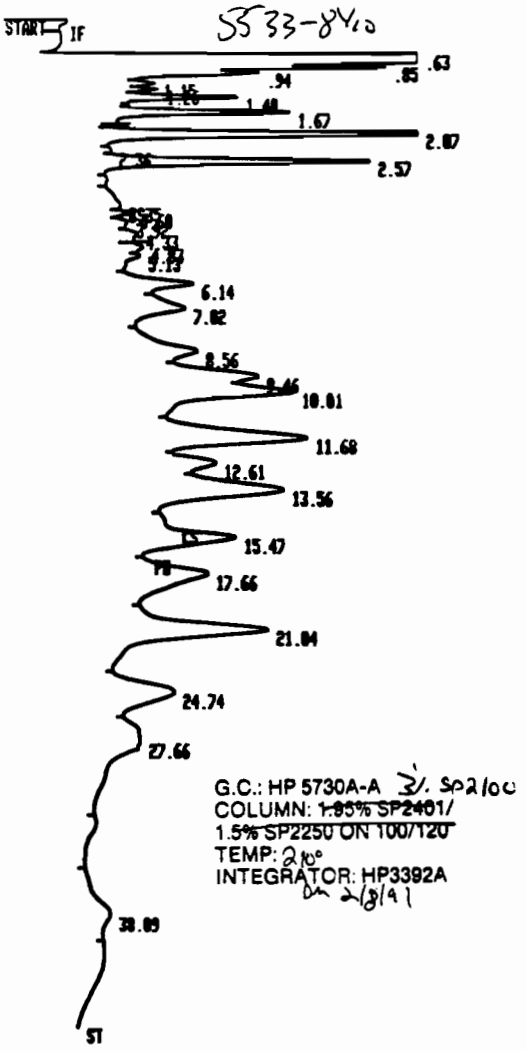


RUN # 4 FEB/07/91 15:00:36
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/WT	AREA%
0.63	3276300	SPB	0.853	4.947
0.73	952610	SPB	0.844	1.438
0.85	469190	BB	0.844	0.708
0.95	239900	BB	0.862	0.362
1.17	36911	BB	0.848	0.056
1.26	109210	BB	0.851	0.165
1.37	114670	BB	0.887	0.173
1.66	666590	BB	0.891	1.007
2.08	3610700	BB	0.186	5.452
2.37	12306	BB	0.071	0.019
2.58	2677000	BB	0.121	4.042
2.91	17855	BB	0.097	0.027
3.39	59238	BB	0.358	0.089
3.61	201100	BB	0.145	0.304
3.89	24423	BB	0.128	0.037
4.38	37103	BB	0.088	0.056
4.86	108710	BB	0.185	0.164
5.19	114480	BB	0.177	0.173
6.16	1127000	BB	0.385	1.702
7.84	1297800	BB	0.459	1.959
8.61	1824500	BB	0.417	1.547
9.51	857090	BB	0.324	1.294
10.86	1281000	BB	0.270	1.934
11.74	4929100	BB	0.536	7.442
12.66	1020600	BB	0.486	1.541
13.64	4358300	BB	0.577	6.580
15.57	5600000	BB	0.853	8.457
17.75	6114300	BB	1.230	9.232
21.15	1.1420E+07	BB	1.043	17.254
24.86	6455700	BB	1.260	9.747
27.81	3847700	BB	1.551	4.602
32.81	732070	BB	1.223	1.105
38.13	4222400	I BP	2.428	6.375

TOTAL AREA= 6.6232E+07
MUL FACTOR= 1.0000E+00

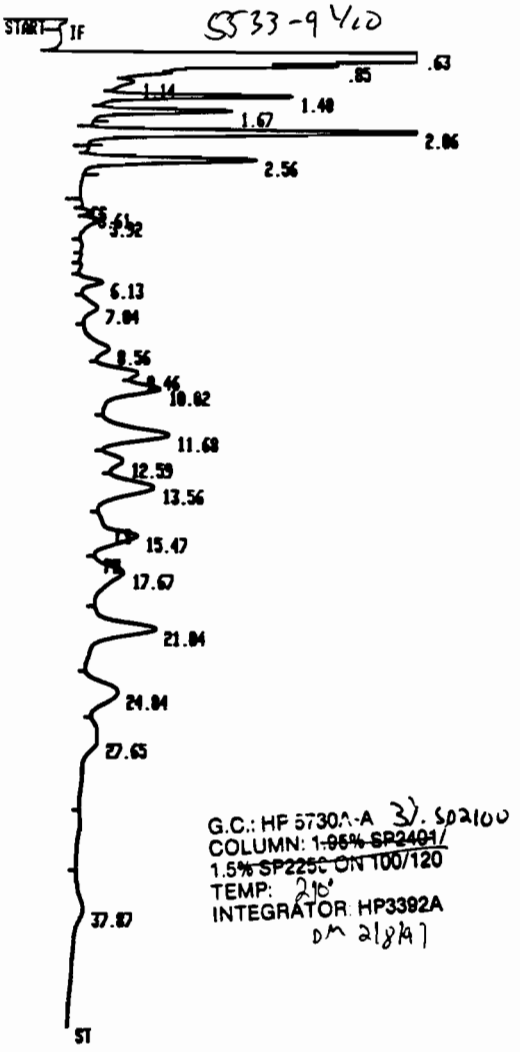


RUN # 5 FEB/07/91 16:15:38
WORKFILE ID: C
WORKFILE NAME:

AREA2

RT	AREA	TYPE	AR/HT	AREA2
0.63	2867100	PB	0.087	27.506
0.85	48647	BB	0.043	0.467
0.94	32352	BB	0.068	0.310
1.15	12177	BB	0.065	0.117
1.26	11828	BB	0.049	0.106
1.48	77292	BB	0.073	0.742
1.67	147748	VB	0.089	1.417
2.07	408200	BB	0.100	3.916
2.57	299618	BB	0.115	2.874
3.35	13233	PB	0.240	0.127
3.68	19766	BB	0.134	0.190
3.92	11103	BB	0.171	0.107
4.33	17220	BB	0.195	0.165
4.83	14643	PB	0.183	0.141
6.14	157250	BB	0.299	1.509
7.82	188510	BB	0.456	1.809
8.56	137630	BB	0.397	1.320
9.46	129388	BB	0.316	1.241
10.81	195590	BB	0.267	1.876
11.68	702720	BB	0.515	6.742
12.61	134370	BB	0.398	1.289
13.56	595648	BB	0.562	5.714
15.47	737950	BB	0.872	7.080
17.66	804230	BB	1.203	7.716
21.84	1381200	BB	0.996	13.251
24.74	705130	BB	1.242	6.765
27.66	421230	BB	1.666	4.041
38.09	152590	PB	1.183	1.464

TOTAL AREA= 1.0424E+07
MUL FACTOR= 1.0000E+00

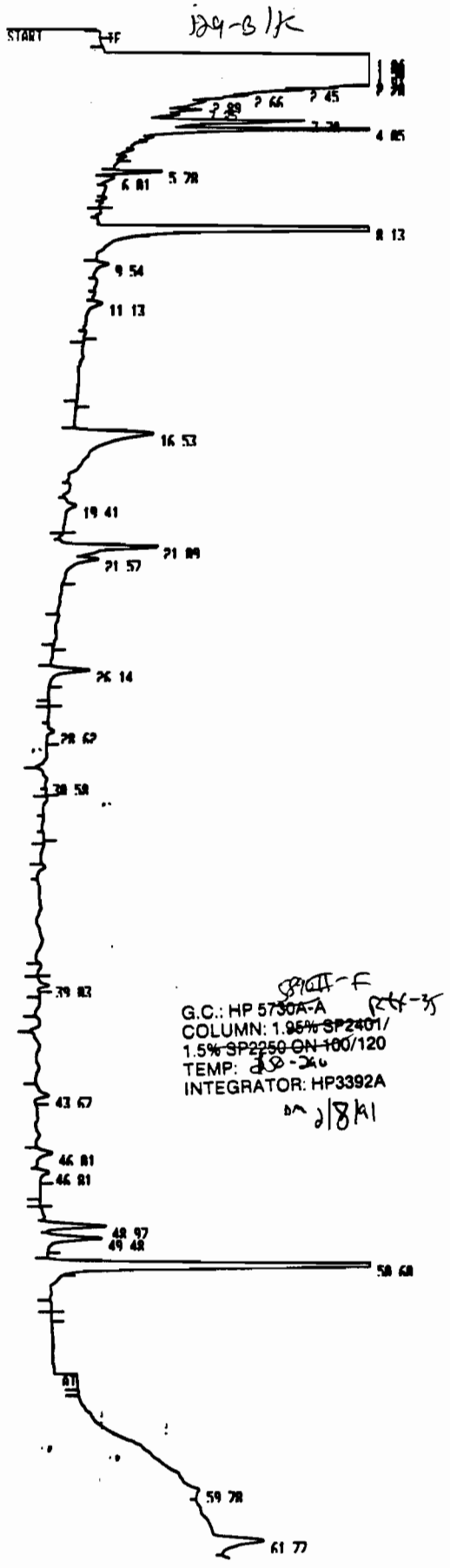


RUN # 6 FEB/07/91 17:15:56
WORKFILE ID: C
WORKFILE NAME:

AREA%

RT	AREA	TYPE	AR/MT	AREA%
0.63	4225100	PB	0.091	50.610
0.85	30227	BB	0.035	0.362
1.14	12417	PB	0.097	0.149
1.40	138690	BB	0.076	1.661
1.67	116540	BB	0.087	1.396
2.06	362400	BB	0.097	4.341
2.56	195740	PB	0.115	2.345
3.61	8795	PB	0.144	0.105
3.92	46891	BB	0.270	0.562
6.13	59225	PB	0.268	0.709
7.04	70055	BB	0.469	0.839
8.56	67882	BB	0.408	0.813
9.46	57559	BB	0.310	0.690
10.82	120040	BB	0.319	1.438
11.68	343540	BB	0.525	4.115
12.59	64919	BB	0.397	0.778
13.56	271090	BB	0.558	3.247
15.47	369910	BB	0.896	4.431
17.67	336630	BB	1.146	4.032
21.04	644790	BB	0.995	7.724
24.84	403320	BB	1.356	4.831
27.65	131030	BB	1.386	1.570
37.87	271550	I VP	2.670	3.253

TOTAL AREA= 8348300
MUL FACTOR= 1.0000E+00



G.C.: HP 5730A-A
COLUMN: 1.95% SP2401/
1.5% SP2250 ON 100/120
TEMP:
INTEGRATOR: HP3392A

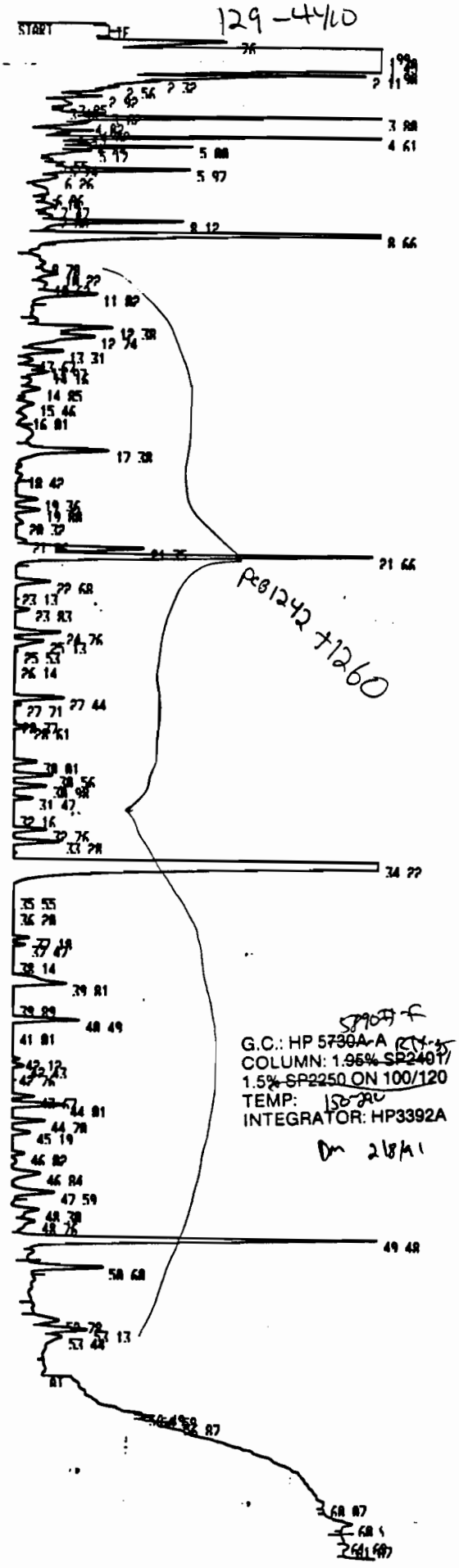
RUN # 396 FRI/02/91 01:15:38
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 6

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1 86	7 2358E+07	TSBB	A 281	88 118
1 38	228598A	SPB	A 825	2 284
2 28	15325	BB	A 846	A 819
2 66	19288	BB	A 128	A 823
2 89	27322	BB	A 223	A 833
3 25	28382	BB	A 878	A 825
3 78	24821A	PB	A 168	A 382
4 85	48746A	BB	A 885	A 594
5 78	77288	BB	A 124	A 894
6 81	38549	BB	A 285	A 837
8 13	2426388	PB	A 118	2 955
9 54	31348	BB	A 285	A 838
11 13	47568	VB	A 286	A 858
16 53	579828	BB	A 636	A 786
19 41	57722	PB	A 385	A 878
21 89	218848	PB	A 212	A 256
21 57	11727	BB	A 855	A 814
26 14	99869	BB	A 223	A 121
28 62	17852	VB	A 219	A 822
30 58	25988	PB	A 481	A 832
39 83	24684	BB	A 283	A 838
43 67	36828	BB	A 256	A 845
46 81	48628	BB	A 268	A 859
46 81	38994	BB	A 235	A 838
48 97	129678	PB	A 187	A 158
49 48	139148	BB	A 222	A 178
50 68	2191888	PB	A 189	2 669
59 78	93289	PB	A 346	A 114
61 77	343818	BB	A 318	A 418

TOTAL AREA= 8 2114E+87
MB FACTOR= 1 8888E+88

178



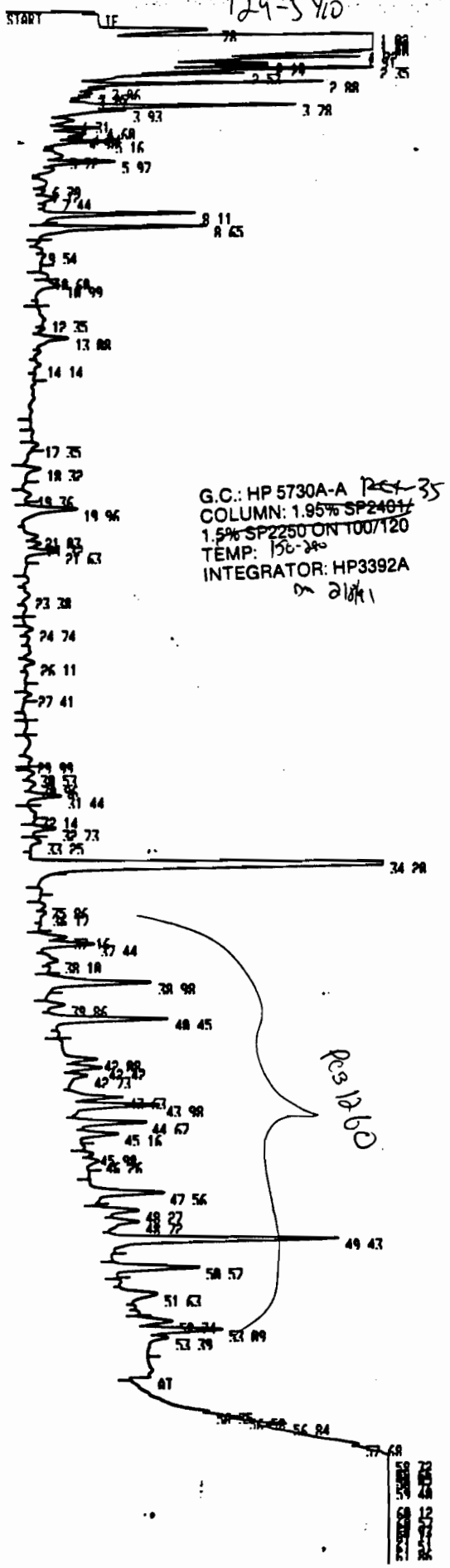
RUN # 387 FRI/02/91 02:26:25
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 7

AREA%

RT	AREA	TYPE	AR/HT	AREA%
0 26	282198	PR	A 167	A 158
0 99	R 9134E+07	MSPR	A 183	66 899
1 38	728844	SPR	A 853	5 348
1 45	97841	BR	A 889	A 072
2 11	233688	BR	A 885	A 173
2 92	51618	PR	A 184	A 038
3 25	41858	BR	A 216	A 031
3 62	23181	BR	A 865	A 017
3 88	358538	BR	A 878	A 268
4 82	29749	BR	A 122	A 022
4 39	34799	BR	A 879	A 026
4 61	386688	BR	A 878	A 283
4 84	25144	BR	A 892	A 018
5 88	113978	BR	A 883	A 085
5 17	34415	BR	A 185	A 026
5 97	178668	BR	A 112	A 127
6 26	38728	BR	A 213	A 028
6 96	44865	BR	A 334	A 033
7 47	27692	BR	A 191	A 021
8 12	189838	BR	A 124	A 141
8 66	1738188	BR	A 127	1 289
9 28	26569	PR	A 387	A 020
10 22	39576	BR	A 188	A 029
10 62	13845	BR	A 165	A 010
11 82	183528	BR	A 159	A 077
12 38	79827	PR	A 118	A 059
12 74	96196	VR	A 193	A 071
13 31	68427	BR	A 158	A 051
13 67	17848	BR	A 157	A 013
13 97	16776	BR	A 118	A 012
14 16	19935	BR	A 121	A 015
14 85	32438	VR	A 168	A 024
15 46	33342	PR	A 281	A 024
16 81	15278	BR	A 184	A 011
17 38	288188	BR	A 214	A 154
18 42	13899	PR	A 178	A 010
19 36	55415	PR	A 187	A 041
19 88	49686	BR	A 163	A 037
20 32	23529	BR	A 214	A 018
21 35	178518	BR	A 154	A 126
21 66	5649988	BR	A 155	A 419
22 68	93788	BR	A 286	A 070
23 83	62816	PR	A 213	A 046
24 26	126458	BR	A 288	A 094
25 13	85514	BR	A 211	A 063
25 53	25237	BR	A 263	A 019
26 14	22315	BR	A 189	A 017
27 44	1875988	PR	A 169	A 888
28 37	18419	BR	A 899	A 888
28 61	58725	BR	A 288	A 038
30 81	91126	PR	A 287	A 068
30 56	111488	BR	A 187	A 083
30 98	95791	BR	A 184	A 071
31 47	64188	BR	A 171	A 048
32 16	28149	BR	A 228	A 021
32 76	87742	BR	A 179	A 065
33 28	115688	BR	A 192	A 086
34 22	2 7322E+07	PR	A 174	28 961
35 55	23683	BR	A 173	A 018
36 28	38864	BR	A 161	A 023
37 18	48489	PR	A 147	A 036
37 47	45448	BR	A 155	A 034
38 14	33544	BR	A 286	A 025
39 81	313218	BR	A 369	A 232
39 89	45568	BR	A 284	A 034
40 49	181598	BR	A 193	A 135
41 81	23515	BR	A 198	A 017
42 12	24486	PR	A 134	A 018
42 43	42432	BR	A 188	A 032
42 76	15887	BR	A 134	A 011
43 67	63785	PR	A 191	A 047
44 81	119978	BR	A 182	A 089
44 78	83168	BR	A 174	A 062
45 19	49268	BR	A 181	A 037
46 82	27982	PR	A 154	A 021
46 84	85264	PR	A 255	A 063
47 59	92396	BR	A 199	A 069
48 38	54891	PR	A 281	A 040
48 76	37938	BR	A 225	A 028
49 48	839928	BR	A 195	A 623
50 68	149158	BR	A 179	A 111
52 78	49681	PR	A 288	A 037
53 13	29218	BR	A 166	A 059
53 44	26884	BR	A 192	A 020
56 59	21846	BR	A 874	A 016
56 87	36535	BR	A 878	A 027
60 87	1876188	BR	7 987	1 391
60 97	78889	PR	A 211	A 058
61 87	21844	BR	A 173	A 016

TOTAL AREA= 1 348E+08
MIN FACTOR= 1 888E+08

129-5410



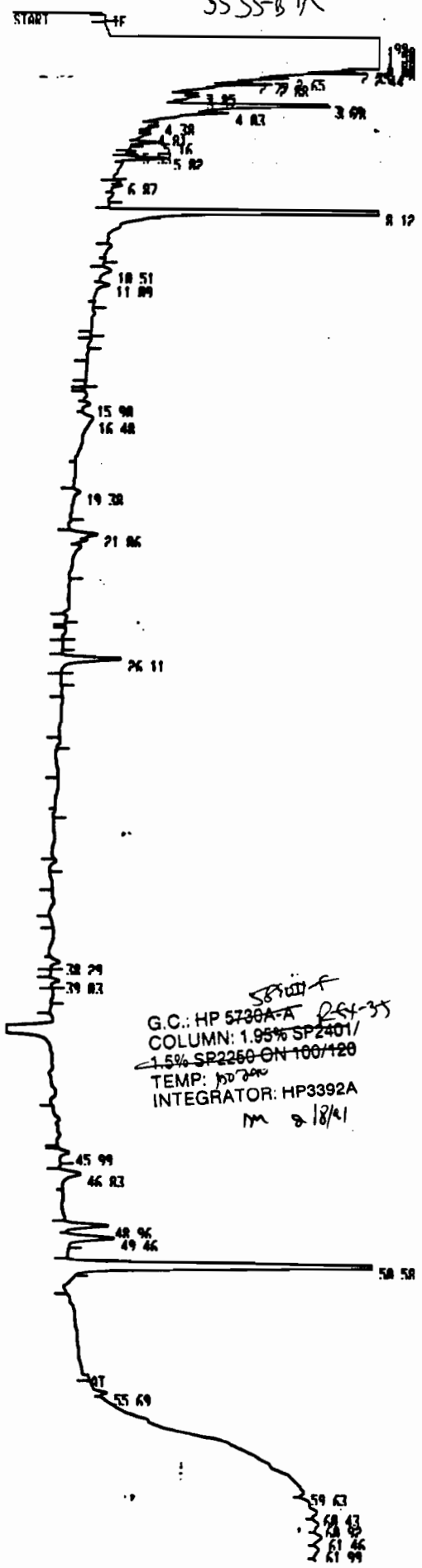
RUN # 388 FRI/02/91 03:37:05
MARKER ID: C
MARKER NAME:
SAMPLE # A

AREA%

RT	AREA	TYPE	AR/WT	AREA%
A 78	119818	BB	A 119	A 315
1 82	1 4234E+07	SPR	A 886	37 364
1 22	2996188	SPR	A 835	7 865
1 38	1 1653E+07	SPR	A 851	38 615
1 46	677288	BB	A 839	1 765
1 72	18888	BB	A 842	A 849
1 91	182768	BB	A 868	A 478
2 18	48588	BB	A 855	A 186
2 21	38282	BB	A 853	A 188
2 35	229688	BB	A 878	A 683
2 53	65138	BB	A 855	A 171
2 88	174168	BB	A 867	A 457
3 86	11396	BB	A 863	A 838
3 78	198588	PB	A 889	A 521
3 93	23293	BB	A 878	A 861
4 31	38924	BB	A 158	A 881
4 68	35884	BB	A 875	A 894
4 84	26552	BB	A 122	A 878
4 98	11984	BB	A 879	A 839
5 16	58546	BB	A 895	A 133
5 72	28612	PB	A 223	A 875
5 97	75565	BB	A 185	A 198
6 79	28831	PB	A 269	A 876
7 44	25548	BB	A 168	A 867
8 11	212798	PB	A 125	A 559
8 65	253868	PB	A 136	A 666
10 99	41884	BB	A 285	A 188
12 35	24138	PB	A 354	A 863
13 88	71818	PB	A 286	A 189
14 14	15952	PB	A 212	A 842
17 35	18946	BB	A 143	A 829
18 32	36965	BB	A 281	A 897
19 36	14519	PB	A 186	A 838
19 96	148478	BB	A 234	A 369
21 83	11447	BB	A 115	A 838
21 32	14486	BB	A 148	A 838
21 63	45963	BB	A 144	A 121
23 38	24989	PB	A 388	A 866
24 74	15782	BB	A 173	A 841
26 11	21698	PB	A 182	A 857
27 41	11288	BB	A 148	A 829
29 99	13142	PB	A 288	A 835
30 53	12751	BB	A 178	A 834
30 96	16984	BB	A 284	A 845
31 44	66873	BB	A 181	A 176
32 73	41618	BB	A 163	A 189
33 25	19378	BB	A 191	A 851
34 28	31718BB	BB	A 166	A 326
35 86	11188	BB	A 176	A 829
36 17	18642	BB	A 165	A 828
37 16	38182	PB	A 144	A 879
37 44	84883	BB	A 164	A 221
38 18	35458	BB	A 243	A 883
38 98	263818	PB	A 229	A 693
39 86	35648	BB	A 178	A 884
40 45	248458	BB	A 193	A 652
42 88	46787	BB	A 149	A 123
42 42	54788	BB	A 158	A 144
42 73	38385	BB	A 193	A 181
43 63	94498	BB	A 184	A 248
43 98	164868	BB	A 183	A 433
44 67	135598	BB	A 174	A 356
45 16	71372	BB	A 173	A 187
45 98	11878	PB	A 131	A 829
46 96	21248	BB	A 176	A 856
47 56	167148	BB	A 218	A 439
48 27	72671	PB	A 188	A 191
48 72	68268	BB	A 289	A 179
49 43	5898138	BB	A 282	1 336
50 57	178468	BB	A 188	A 469
51 63	92226	PB	A 268	A 242
52 74	65383	PB	A 196	A 171
53 89	133578	BB	A 169	A 351
56 58	22393	BB	A 888	A 859
56 84	75459	BB	A 114	A 198
58 32	42938	BB	A 552	A 113
58 65	16642	BB	A 189	A 844
60 93	13346	BB	A 175	A 835
61 11	21582	BB	A 885	A 857
61 51	27349	BB	A 199	A 872
61 86	19668	BB	A 198	A 852

TOTAL AREA= 3 8896E+07
MU FACTOR= 1 0000E+00

5533-B 1K



G.C.: HP 5730A-A Series II
COLUMN: 1.95% SP2401/
1.5% SP2250 ON 100/120
TEMP: 100-200
INTEGRATOR: HP3392A
MM 8/18/91

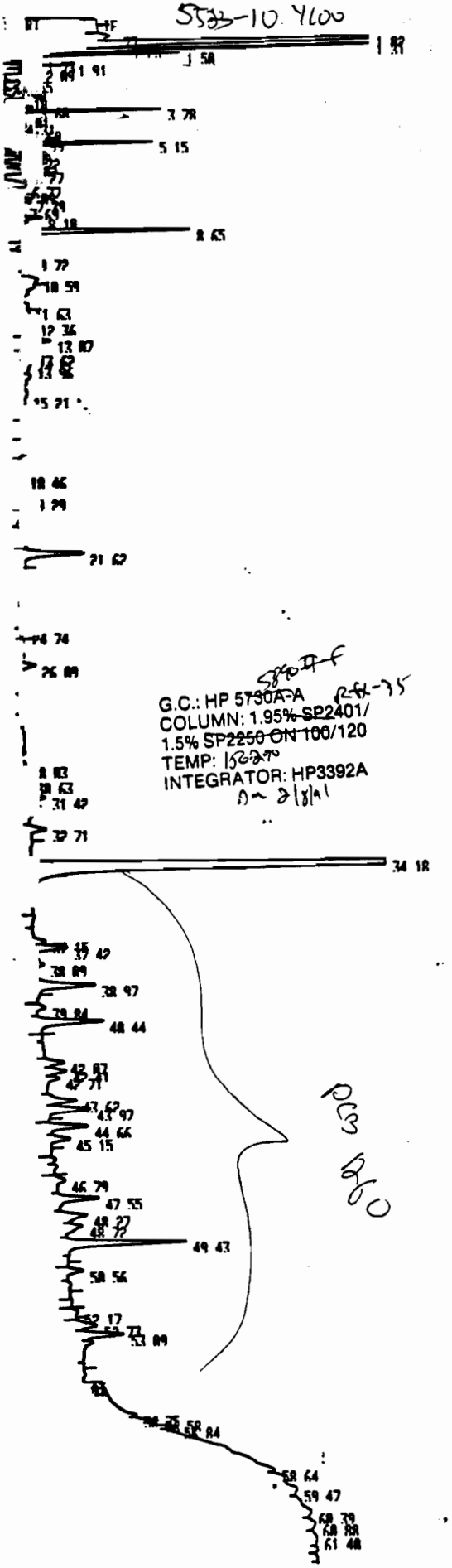
RUN # 389 FRI/AP/91 04:47:51
WORKFILE ID: C:
WORKFILE NAME:
SAMPLE # 9

AREAS

RT	AREA	TYPE	AR/HT	AREA%
0 99	3 1318E+07	PSBB	0 898	79 825
1 38	5461688	SPR	0 837	12 562
2 87	186981	BB	0 856	0 895
2 98	29148	BB	0 875	0 865
3 35	14926	BB	0 868	0 834
3 44	37239	BB	0 852	0 886
3 65	16686	VB	0 858	0 838
3 77	18693	BB	0 856	0 895
3 88	39875	BB	0 855	0 876
4 37	15633	BB	0 188	0 836
4 69	19934	BB	0 838	0 846
4 83	36537	BB	0 892	0 884
4 81	18529	PB	0 111	0 824
5 16	24717	BB	0 893	0 857
5 89	51167	BB	0 185	0 118
8 12	2364588	PB	0 117	5 439
10 51	25418	BB	0 236	0 859
11 89	21223	BB	0 165	0 849
15 98	13354	VB	0 158	0 831
16 48	114858	BB	0 833	0 264
19 38	16554	BB	0 283	0 838
21 86	29991	PB	0 146	0 869
26 11	137868	BB	0 284	0 315
38 29	23948	PB	0 213	0 855
39 83	15888	BB	0 159	0 836
45 99	28197	BB	0 175	0 847
46 83	64284	BB	0 284	0 148
48 96	98551	PB	0 186	0 288
49 46	187788	BB	0 283	0 248
58 58	1636388	PB	0 186	3 764
55 69	12418	PB	0 863	0 829
59 63	1493788	BB	5 868	3 436
68 43	96363	BB	0 515	0 222
68 92	29529	BB	0 235	0 868
61 46	44622	BB	0 273	0 183
61 99	28878	BB	0 255	0 866

TOTAL AREA= 4 3477E+07
MB FACTOR= 1 0000E+00

5533-10 4100



G.C.: HP 5730A-A
COLUMN: 1.95% SP2401/
1.5% SP2250 ON 100/120
TEMP: 150-270
INTEGRATOR: HP3392A

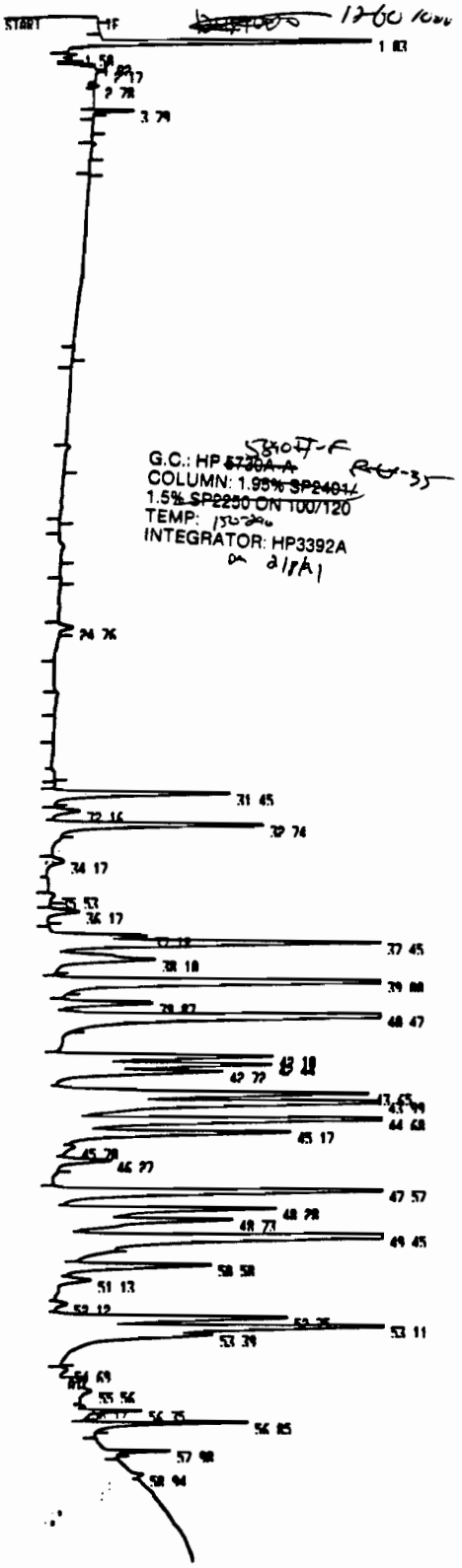
PCB 260

RUN # 318 FRI/02/91 05:58:36
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 10

AREA2

RT	AREA	TYPE	AREA%	AREA2
0 77	13613	PR	0 149	0 894
1 89	4343298	BB	0 882	29 958
1 31	288878	BB	0 861	1 937
1 58	64832	BB	0 841	0 442
1 73	28892	VB	0 869	0 144
1 91	44818	BB	0 863	0 304
2 89	11392	BB	0 853	0 079
2 55	1442B	BB	0 876	0 188
2 98	23454	PR	0 134	0 162
3 68	33984	PR	0 895	0 234
3 78	1221BB	BB	0 869	0 849
4 81	21841	BB	0 125	0 151
4 31	49769	BB	0 156	0 343
4 68	13962	BB	0 876	0 096
4 88	15317	BB	0 113	0 106
5 15	139918	BB	0 891	0 965
5 79	47869	BB	0 167	0 328
6 82	23285	BB	0 185	0 160
6 27	51177	BB	0 288	0 353
6 77	79258	BB	0 387	0 547
7 39	32844	BB	0 197	0 227
8 18	17719	PR	0 889	0 122
8 65	258818	PR	0 138	1 788
9 72	25162	PR	0 316	0 174
10 59	11224	PR	0 158	0 077
12 36	14717	PR	0 181	0 102
13 87	68758	BB	0 283	0 419
13 62	18241	BB	0 193	0 126
13 96	15522	BB	0 259	0 107
15 21	15921	PR	0 389	0 110
18 46	18851	PR	0 225	0 125
19 29	13897	PR	0 278	0 096
21 62	124428	BB	0 187	0 858
26 89	34177	BB	0 287	0 236
38 83	14544	PR	0 241	0 188
31 42	31361	PR	0 177	0 216
39 71	33818	PR	0 185	0 233
34 18	6443688	PR	0 171	44 434
37 42	56513	BB	0 172	0 390
38 89	38277	BB	0 385	0 264
38 97	143758	BB	0 218	0 991
39 84	18261	BB	0 198	0 126
48 44	144438	BB	0 196	0 996
42 87	29776	PR	0 161	0 205
42 41	29871	BB	0 159	0 201
42 71	14615	BB	0 134	0 101
43 62	55988	BB	0 188	0 386
43 97	78846	BB	0 175	0 538
44 66	77589	BB	0 177	0 535
45 15	38211	BB	0 179	0 264
46 79	28112	PR	0 258	0 194
47 55	98763	BB	0 212	0 681
48 27	56639	BB	0 217	0 391
48 72	48116	BB	0 242	0 277
49 43	259278	BB	0 194	1 788
58 56	33768	BB	0 188	0 233
52 73	48829	BB	0 285	0 336
53 89	73963	BB	0 169	0 518
56 58	26423	BB	0 888	0 182
56 84	29894	BB	0 888	0 281
58 64	388988	BB	1 993	2 825
59 47	98821	BB	0 579	0 626
60 39	52868	BB	0 337	0 365
60 88	32461	BB	0 253	0 224
61 48	22988	BB	0 315	0 159

TOTAL AREA= 1 4581E+07

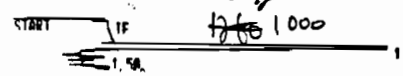


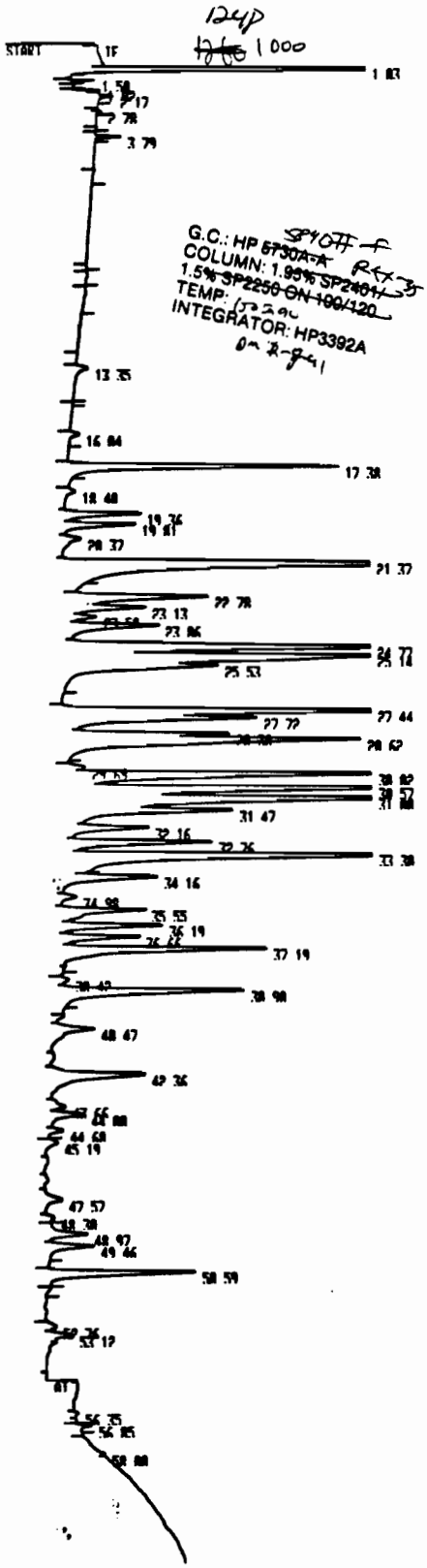
RUN # 388 FRI/01/91 10:11:05
UNKNOWN ID: C
UNKNOWN NAME:
SAMPLE #10A

AREA%

RT	AREA	TYPE	AMT	AREA%
1 83	3983188	BB	A 883	17 393
2 17	44136	BB	A 214	A 255
3 79	31735	PB	A 871	A 183
24 76	29762	PB	A 198	A 172
31 45	375468	PB	A 191	2 166
32 16	57521	BB	A 192	A 332
32 74	463968	BB	A 288	2 676
34 17	38184	BB	A 238	A 220
35 53	12883	BB	A 188	A 869
36 17	59248	BB	A 175	A 342
37 45	595918	BB	A 172	3 437
38 18	291818	BB	A 224	1 679
39 88	1327888	PB	A 288	7 654
39 87	183988	PB	A 184	1 861
40 47	1595788	BB	A 221	9 285
42 18	334878	PB	A 166	1 927
42 44	247448	BB	A 151	1 427
42 77	133578	BB	A 118	A 771
43 65	488228	BB	A 179	2 778
43 99	841728	BB	A 195	4 855
44 68	868248	BB	A 187	5 888
45 17	436588	BB	A 191	2 518
45 78	16984	BB	A 281	A 898
46 27	183768	BB	A 183	A 599
47 57	1817488	PB	A 211	5 869
48 78	394428	BB	A 189	2 275
48 73	284288	BB	A 282	1 639
49 45	1941888	BB	A 218	11 281
50 58	382238	BB	A 196	1 243
51 13	49581	BB	A 167	A 286
52 12	26512	BB	A 198	A 153
52 75	384318	BB	A 185	2 217
53 11	624888	BB	A 178	3 685
54 69	18968	BB	A 224	A 189
55 56	31487	BB	A 149	A 181
56 35	162498	BB	A 124	A 937
56 85	448998	PB	A 188	2 544
57 98	85829	PB	A 865	A 495

TOTAL AREA= 1.733E+07
MU FACTOR= 1.0000E+00





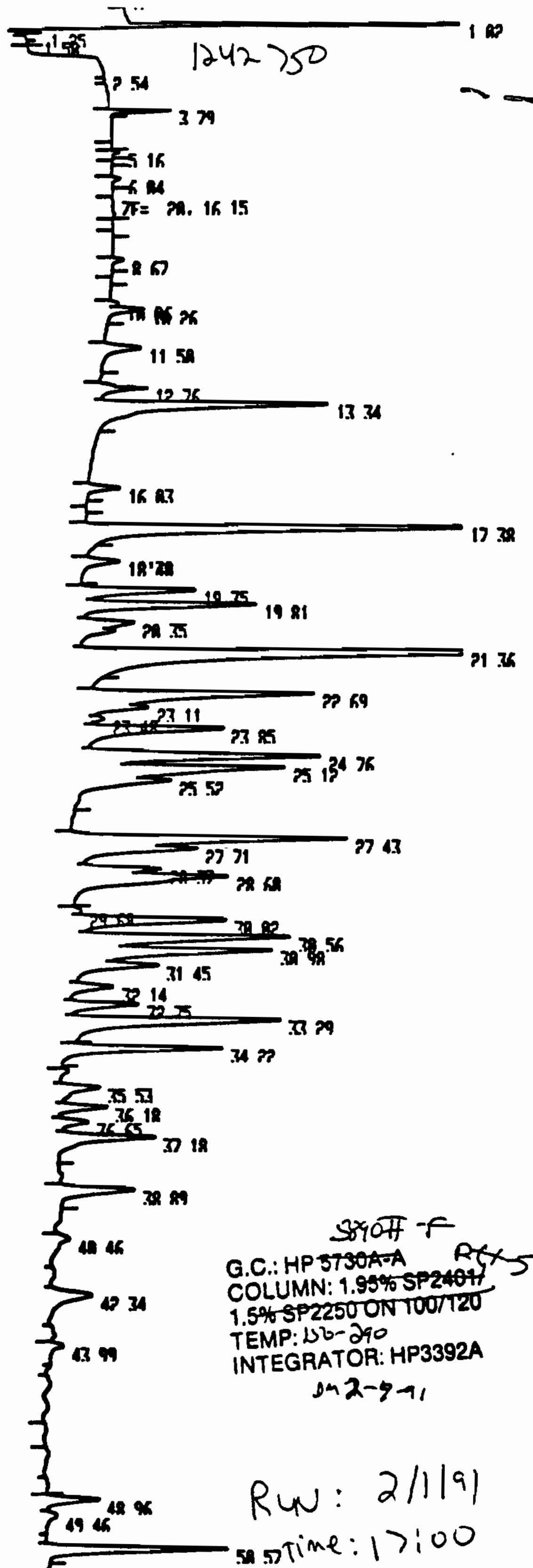
RUN # 381 FRI/01/91 19:21:51
WORKFILE ID: C
WORKFILE NAME:
SAMPLE # 1

AREA2

RT	AREA	TYPE	AR/HT	AREA2
1 83	2929988	BB	A 883	1A 874
1 58	13826	BB	A 846	A 885
2 17	38398	BB	A 145	A 188
3 79	19787	PB	A 869	A 199
13 35	36717	BB	A 255	A 227
16 84	28487	BB	A 179	A 196
17 38	584228	BB	A 198	3 685
18 48	16558	BB	A 175	A 182
19 36	151168	BB	A 178	A 933
19 81	138388	BB	A 178	A 853
28 37	49667	BB	A 256	A 387
21 37	1658488	BB	A 256	1A 233
22 78	268628	PB	A 193	1 658
23 13	183578	BB	A 168	A 639
23 58	32548	BB	A 147	A 281
23 86	219588	BB	A 224	1 355
24 77	799518	BB	A 195	4 933
25 14	681818	BB	A 226	4 287
27 44	674218	PB	A 157	4 168
27 72	84298	BB	A 881	A 528
28 38	88781	BB	A 185	A 547
28 62	389168	BB	A 148	1 988
29 69	11475	PB	A 133	A 871
38 82	757178	BB	A 228	4 672
38 57	828388	BB	A 191	5 861
31 88	711498	BB	A 288	4 398
31 47	166888	BB	A 141	1 824
32 16	155368	BB	A 193	A 959
32 76	384718	BB	A 195	1 888
33 38	1191188	BB	A 229	7 358
34 16	166138	BB	A 189	1 825
34 98	33771	BB	A 288	A 288
35 55	216288	BB	A 227	1 334
36 19	283278	BB	A 184	1 254
36 66	159418	BB	A 187	A 984
37 19	5242688	BB	A 238	3 235
38 42	12862	BB	A 168	A 879
38 98	516568	BB	A 251	3 187
48 47	141218	PB	A 311	A 871
42 36	3557688	PB	A 329	2 195
43 66	27976	BB	A 218	A 173
44 88	69548	BB	A 283	A 429
44 68	24878	BB	A 168	A 154
45 19	34514	BB	A 272	A 213
47 57	588488	PB	A 298	A 363
48 38	18333	BB	A 155	A 864
48 97	88822	BB	A 288	A 548
49 46	1184888	BB	A 216	A 682
58 59	3223688	PB	A 199	2 851
52 76	199887	BB	A 212	A 123
53 12	39297	BB	A 177	A 243
56 85	32868	PB	A 186	A 198

TOTAL AREA= 1 62875+87
MIN FACTOR= 1 88888+88

RUN # 381 FRI/01/91 19:21:51
WORKFILE ID: C



S8OH-F

G.C.: HP ~~5730A-A~~ RTX-5

COLUMN: ~~1.95% SP2401/~~

~~1.5% SP2250 ON 100/120~~

TEMP: 130-290

INTEGRATOR: HP3392A

DM 2-7-91

RUN: 2/1/91

Time: 17:00

Original Chromatogram used as continuing calibration and is with filed calibration.

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