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ENVIRESPONSE, INC.

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ANALYSIS OF PRIORITY POLLUTANT VOLATILE ORGANICS,
METALS AND PCBS IN SOILS

U.S. SCRAP LANDFILL
CHICAGO, ILLINOIS
Project No. 36606190599

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INTRODUCTION

On October 7, 1985, five soil samples were received by the Mobile Laboratory from the U.S. Scrap Landfill. Several of the samples contained stones and wood particles. Analysis for priority pollutant metals, volatiles and PCBs was requested.

PROCEDURES

Volatile Organics Analysis

A ten gram soil sample was weighed into a 30 ml crimp top bottle and fixed with 10 ml methanol. Originally, a 100 ul aliquot of this methanol was injected into 10 ml Purity Brand bottled water for purge and trap-flame ionization-gas chromatographic analysis. However, after the first sample was analyzed, it became apparent that high concentrations of late eluting compounds were saturating the detector. It was a full forty eight hours before another sample could be analyzed. The detection limit was raised to 2 ug/g soil by injecting 5 ul of the extract into a 10 ml portion of water. The detector continued to be saturated but not to the extent as for the first sample. The results of this analysis are presented in Table 1.

A 50 ng/ml standard of Supelco Purgeable A and B was analyzed daily to assure that the detector was still operating at the same sensitivity as for the calibration range. Values of $\pm$20% were considered acceptable.

Each standard and sample was dosed with a surrogate standard, bromochloromethane, to assure the efficiency of the purge unit and to determine any matrix interferences.

PCBs

Soil samples were dried overnight at 120°C in an oven. A ten gram portion of each soil was weighed into a 30 ml crimp top bottle. Twenty milliliters of hexane were added to the bottles and they were shaker extracted for 30 minutes. A 500 ul aliquot from each sample was eluted through a silica sep-pak with 2-2.25 portions of hexane. The clean extracts were analyzed by electron capture detector gas-chromatography.

Four of the five samples contained Aroclor 1254 and Aroclor 1260. The quantification of the Aroclor 1260 was based on comparing the sum of the peak heights of three peaks unique to 1260 in a sample to the sum of the same three peaks in a standard. Quantification of 1254 was performed by calculating the ratio of the sum of two peaks unique to 1254 to a peak common to 1254 and 1260 in a standard of 1254. This ratio was multiplied by the peak height of the common peak in a sample containing 1254 and 1260 to determine the 1254 contribution to that peak. The sum of the adjusted 1254 peak height in the common peak plus the peak height of the two peaks

unique to 1254 were compared to the sum of the same three peak heights in a standard of 1254 to determine the concentration of 1254.

A mixture of Aroclor 1254 and Aroclor 1260 was prepared to test this calculation. The results are summarized below.

Aroclor	True Concentration	Recovered Conc.	% RE
	TEST MIXTURE = 250 PPB 1254 : 250 PPB 1260		
1254	250	249.2	.31
1260	250	286.5	14.6
	TEST MIXTURE = 333 PPB 1260 : 167 PPB 1254		
1254	167	192.7	15.4
1260	333	387.8	16.5

A five point calibration of Aroclor 1260 was analyzed to determine the detector linearity. A 1254 standard was also anayzed for use in quantification of the 1254 fraction in the samples. An Aroclor 1260 standard ws analyzed daily to ensure that the detector was within ±20% of the calibration values.

Metals

The soil samples were mixed thoroughly. A portion of each sample was placed in small plastic weighing dishes, partially covered, and placed into a fume hood to dry for 8-10 hrs. The samples were ground to as fine a powder as possible with the bottom of a glass vial. A 0.5 gram sample weighed to the nearest 0.01 grams, was placed in a 70 ml teflon lined digestion bomb. Five milliliters of redistilled concentrated nitric acid was added to each digestion bomb. The sealed bombs were heated for one hour at 60°C and then for 12 hrs at 120°C in an oven. The bombs were allowed to cool to room temperature. The contents of the digestion bomb were quantitatively transferred to 25 ml volumetric flasks and diluted to volume with 2% nitric acid. A system blank was obtained by placing 5 ml of redistilled nitric acid into a clean digestion bomb. The acid was treated as a sample.

The sample solutions were analyzed for 13 priority pollutant metals and interferring metals using a Spectro-Scan multi-channel DC Plasma emission spectrometer.

The concentration of the metal in micro grams per gram of sample (ppm) is calculated as follows:

$$\frac{\text{(Instrument Readout, Conc. ug/ml)}}{\text{Weight of sample, g}} \times 25\ \text{ml} = \frac{\text{ug of Metal}}{\text{g of Sample}}$$

The instrument manufacturer defines the instrument detection limit as three times the standard deviation of the blank. These detection limits and linear ranges were determined under ideal conditions as shown below.

Metal	Symbol	Wavelength (nm)	Linear Dynamic Range (ug/ml)	Detection Limit (ug/ml)
Antimony	Sb	206.833	1 - 100	0.10
Arsenic	As	193.696	0.8 - 100	0.08
Beryllium	Be	313.042	0.003 - 60	0.0003
Cadmium	Cd	226.502	0.05 - 1000	0.005
Chromium	Cr	267.716	0.1 - 1000	0.01
Copper	Cu	324.754	0.02 - 10	0.002
Lead	Pb	283.306	0.2 - 600	0.02
Mercury	Hg	253.652	0.2 - 1000	0.02
Nickel	Ni	231.604	0.5 - 100	0.05
Selenium	Se	196.026	1 - 1000	0.1
Silver	Ag	328.068	0.04 - 60	0.004
Thallium	Tl	276.787	0.3 - 1000	0.03
Zinc	Zn	202.548	0.06 - 600	0.006

The operational detection limit depends on the performance of the instrument during actual analysis. The operational detection limit is equal to three times the standard deviation of the blank determined during analysis. The operational linear range is determined by analyzing solution standards and using the instrument standardization program. Check standards were analyzed during the analysis of samples.

The results of the metals analysis are presented in Table 3.

Table 1. Results of Volatile Organics Analysis

Sample ID	Parameter	Concentration ug/g	Detection Limit ug/g
STA-01	1,1-dichloroethane	.60	.11
	1,1,1-trichloroethane	.82	.11
	1,2-dichloropropane	.21	.11
	Bromoform	1.6	.11
	1,1,2,2-tetrachloroethane and/or tetrachloroethene	1.4	.11
	Toluene	7.0	.11
	Chlorobenzene	1.8	.11
	Ethyl benzene	5.5	.11
STA-02	None detected	--	2.0
STA-02	Methylene chloride	3.8	.20
	1,1,1-trichloroethane	.17	.20
	Toluene	.72	.20
	Ethyl benzene	.47	.20
STA-03	Bromodichloromethane	9.1	2.0
	Bromoform	11.	2.0
	Toluene	3.9	2.0
STA-04	1,1,1-trichloroethane	5.9	2.0
	Carbon tetrachloride	3.0	2.0
	Bromodichloromethane	3.5	2.0
	Trichloroethylene	4.0	2.0
	Benzene	6.5	2.0
	Toluene	78.	2.0
	Ethyl benzene	68.	2.0
STA-05	None detected	--	2.0
STA-05 Dup.	None detected	--	2.0

Table 2. Results of PCB Analysis

Sample No.	Aroclor	Concentration (ug/g)
STA-01	1254	1414
	1260	890
STA-02	1254	2274
	1260	1374
STA-03	--	None detected
STA-04	1254	134
	1260	194
STA-05	1254	42.2
(Not Homogenized)	1260	27.8
STA-05 Dup.	1254	None detected
(Not Homogenized)	1260	18.6
STA-05	1254	21.9
(Homogenized)	1260	10.1
STA-05 Dup.	1254	24.2
(Homogenized)	1260	12.6

Table 3. Results of Priority Pollutant Metal Analysis
Concentration in soil reported as ug/g (ppm)

Sample #	Hg	As	Se	Zn	Sb	Cd	Ni	Cr	Cu	Pb	Be	Ag	Tl
S-1	ND	ND	ND	31.8	ND	ND	ND	184	ND	46.6	ND	<3	97.0
S-2	ND	ND	ND	341	ND	ND	ND	107	29.4	145	ND	<3	59.9
S-2 dup	ND	ND	ND	240	ND	ND	ND	117	18.9	101	ND	ND	32.9
S-3	ND	ND	ND	317	ND	16.6	136	750	217	312	ND	ND	57.5
S-4	ND	ND	ND	323	<75	ND	11.1	113	62.0	63.9	ND	<3	39.4
S-5	ND	ND	37.1	725	125	20.7	67.6	114	83.3	151	ND	5.59	82.9
System Blank	0.0	0.0	0.0	0.0	0.0	0.210	0.349	0.0	0.0	.06	.025	.018	.368
Sample D.L.	25	45	15	1.0	75	3.0	2.5	7.5	1.5	3.0	.45	3.0	3.0
Sample Linear Range	250 12,500	450 5,000	150 5,000	10 5,000	750 5,000	30 1,000	25 5,000	75 10,000	15 500	30 10,000	4.5 50	30 1,000	30 5,000

ND indicates not detected

pt/4828D:0141D

QA/QC PROCEDURES

Volatile Organic Analysis

A 100 ul portion of clean Burdick and Jackson methanol was injected into 10 ml of Purity Brank bottled water and anayzed by purge and trap-flame ionizatin-gas chromatography to determine any interferences. Results of this analysis are tabulated below.

Parameter	Concentration (ng/l)
Methylene chloride	3.3
1,1-dichloroethane	.37
1,1,1-trichloroethane	.95
Carbon tetrachloride	4.6
Bromodichloromethane	22.
Trichloroetheylene	1.7
Benzene	2.1
Tetrachloroethylene and/or tetrachloroethane	1.1
Toluene	2.4
Ethyl benzene	.34

These values were very high for a methanol blank. Several other new bottles of methanol (Burdick and Jackson, Fischer) were checked. None proved to be any better than the Burdick and Jackson that is represented above. Subsequently, the Burdick & Jackson was used to extract the samples, and the background was subtracted.

As mentioned previously, each standard and sample was dosed with a surrogate standard to establish purging efficiency and matrix interferences. Results of these spikes are presented in QA/QC Table 1.

One sample, STA-05, was analyzed in duplicate to determine percent relative standard deviation. An EMSL performance evaluation sample was analyzed to assure the accuracy of the Purgeable A and B daily standard. This sample was analyzed on the first and last days of analysis.

PCBs

As mentioned previously, a five point calibration range was analyzed and each point was compared to the center standard (500 ppb (ng/ml) to determine the percent relative error. Values ±20% were considered acceptable. All points were within these limits. The detection limit of 50 ng/ml was determined experimentally. Results are presented in QA/QC Table 4.

An EMSL Performance Evaluation Sample was analyzed to determine the quality of the calibration range and to assure extraction efficiency. Results of this analysis are summarized in QA/QC Table 5.

One sample was analyzed twice to provide precision data and to determine the uniformity of the sample matrix. The results of these analyses showed a lack of homogeneity. The soil sample was then mixed thoroughly and re-extracted and analyzed. These results are presented in QA/QC Table 6.

Sample STA-02 was spiked with 73.5 ppb Aroclor 1260 to determine any matrix interferences. Apparently this spiking level was either too low or again, lack of the sample uniformity interfered with its detection. Results are presented in QA/QC Table 7.

Metals Analysis

The analyzed metal concentration was corrected for the equivalent concentration due to the blank and interferring metals. Duplicate samples, spikes and EMSL Performance Evaluation samples were analyzed. The spikes are of two types: soil was spiked in the digestion bomb, and the sample solution was spiked after digestion.

Sample S-2 was analyzed in duplicate, as shown in QA/QC Table 8. An instrument variation of ±15-20% was not uncommon between samples or from day to day. The samples were not homogeneous. This was shown by the large differences in the concentrations of the interferring elements, QA/QC Table 9.

The recovery of a spike was effected by the relative concentration of the spike and the concentration in the original sample. The spike concentration in sample S-5, QA/QC Table 10, was low. The spike recoveries in sample S-4, Table 4, were improved.

The QA/QC Table 11 EMSL Sample results were within the 95% confidence limit except for mercury, selenium and beryllium. The mercury and selenium values were near the detection limit where the instrument errors were high. Results for this analysis are presented in QA/QC Table 12.

QA/QC Table 1. Results of Surrogate Standard Recoveries for Volatile Organics Analysis

Standard ID	Date	% Recovery
50 ppb A&B	10/8/85	104
50 ppb A&B	10/10/85	102
50 ppb A&B	10/9/85	99.
50 ppb A&B	10/11/85	100.

Sample ID	Date	% Recovery
Methanol Blank	10/8/85	107.
EMSL PES	10/8/85	91.
STA-01	10/8/85	96.
STA-02	10/10/85	90.
STA-03	10/11/85	97.
STA02	10/9/85	107.
EMSL PES	10/11/85	94.
STA-04	10/11/85	98.
STA-05	10/11/85	81.
STA-05 Dup.	10/11/85	103.

QA/QC Table 2. Results of Duplicate Analysis for Volatile Organics

Sample No.	Run 1	Run 2	% RSD
STA-05	None detected	None detected	0

QA/QC Table 3. Results of EMSL Performance Evaluation Sample for Volatile Organics

WP Conc. 1

Date	Parameter	True Concentration (ng/ml)	Recovered Conc. (ng/ml)	% RE
10/8/85	Chloroform	12.0	11.1	7.5
	1,2-dichloroethane	2.0	2.29	14.5
	1,1,1-trichloroethane	1.4	1.66	18.6
	Carbon tetrachloride	2.6	2.49	4.2
	Bromodichloromethane	2.0	1.50	25.0
	Trichloroethylene	2.9	2.8	3.4
	Bromoform	2.9	2.46	15.2
10/11/85	Chloroform	12.0	10.5	12.5
	1,2-dichloroethane	2.0	2.06	3.0
	1,1,1-trichloroethane	1.4	1.50	7.1
	Carbon tetrachloride	2.6	2.45	5.8
	Bromodichloromethane	2.0	1.77	11.5
	Trichloroethylene	2.9	3.04	4.8
	Bromoform	2.9	1.65	43.4

QA/QC Table 4.

CHROMATOGRAPHY CALIBRATION RANGE PROGRAM

*(1) Weight of calibration material A= 1000 ug
*(2) Weight of calibration material B= *standard not used*
*(3) Volume of first stock A dilution= 1 ml
*(4) Volume of first stock B dilution= *standard not used*

*(5) LL dilution sequence= (2.5E-03/ 25)
*(6) LC dilution sequence= (6.25E-03/ 25)
*(7A)CA1 dilution sequence= (.0125/ 25)
*(7B)CA2 dilution sequence= *standard not used*
*(8) CB dilution sequence= *standard not used*
*(9) UC dilution sequence= (.025/ 25)
*(10)UL dilution sequence= (.05/ 25)

*(11) LL solution response= 11+ 4.5+ 8+ 8
*(12) LC solution response= 23+ 10.05+ 20+ 20
*(13) CA1 solution response= 46+ 21+ 41+ 41
*(14) CA2 solution response= *standard not used*
*(15) CB solution response= *standard not used*
*(16) UC solution response= 40.5+ 18+ 36+ 37
*(17) UL solution response= 86+ 42+ 79+ 78

PARAMETER	Ec	CONCENTRATION	MEAN RESPONSE	ATTN
LOWER LIMIT (LL)	-5.70%	100 ng/ml	7.8750E+00	5
LOWER CENTER (LC)	1.95%	250 ng/ml	1.8263E+01	5
CENTER STANDARD (CA1)	N/A	500 ng/ml	3.7250E+01	5
CENTER STANDARD (CA2)	*standard not used*			
CENTER STANDARD (CB)	*standard not used*			
UPPER CENTER (UC)	11.74%	1000 ng/ml	3.2875E+01	6
UPPER LIMIT (UL)	4.36%	2000 ng/ml	7.1250E+01	6

**STOCK A CALIBRATION SOLUTION CONCENTRATION = 5.000E+02 ng/ml
**MEAN CORRECTED CALIBRATION SOLUTION RESPONSE= 3.725E+01 at attenuation 5

C = not calculated - only one center standard used

Circle one: CALCULATION / CALCULATION CHECK. Sign and date.

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QA/QC Table 5. Results of EMSL performance Evaluation Sample for PCBs

Aroclor ID	True Value (ug/g)	Recovered Value (ug/g)	% RE
1254	2.30	2.78	20.9

QA/QC Table 6. Duplicate Analysis for PCBs

Sample ID	Run 1 (ug/g)		Run 2 (ug/g)		RSD
STA-05 (Not Homogenized)	Aroclor 1254:	42.2	Aroclor 1254:	ND	141 %
	Aroclor 1260:	27.8	Aroclor 1260:	18.6	28 %
STA-05 (Homogenized)	Aroclor 1254:	21.9	Aroclor 1254:	24.2	7.1%
	Aroclor 1260:	10.1	Aroclor 1260:	12.6	15.6%

QA/QC Table 7. Results of Matrix Spike Analysis for PCBs

Sample No.	Aroclor ID	Spike Concentration	Recovered Conc.	% RE
STA-02	1260	73.5 ug/ml	0	100

QA/QC Table 8. Duplicate Analyses

All Concentration in ug/g (ppm)

Sample S-2

Parameter	Run 1	Run 2	Difference Run 1-Run 2	% Difference	RSD (%)
Mercury	ND	ND			
Arsenic	ND	ND			
Selenium	ND	ND			
Zinc	341	240	+101	30	24.6
Antimony	ND	ND			
Cadmium	ND	ND			
Nickel	ND	ND			
Chromium	107	117	-10	9.3	6.31
Copper	29.4	18.9	+10.5	35.4	30.7
Lead	145	101	+44	30	25.3
Beryllium	ND	ND			
Silver	3	ND			
Thallium	59.9	32.9	+27	45	41.1

QA/QC Table 9. Solution Concentration of Interfering Elements, ppm

Sample #	Fe	Al	Mg	Ca
S-1	129	20.8	7.88	15.0
S-2	168	14.3	6.71	54.2
S-2 Dup	84	11.9	3.4	25.6
S-3	1026	124	32.4	168
S-4	191	19.3	11.3	37
S-5 Spike	234	34	89.2	1678
S-5	214	28	83.6	1378

QA/QC Table 10. Sample Matrix Spike Results

All Concentration in ug/g (ppm)

Sample S-5

Parameter	Sample Conc. (ppm)	Spike Conc. (ppm)	Recovered Conc. (ppm)	% Recovered
Mercury	ND	--	--	--
Arsenic	ND	20.5	34.25	147
Selenium	37.1	9.3	29.7	319
Zinc	725	84	130	155
Antimony	123	--	--	--
Cadmium	20.7	7.4	8.55	116
Nickel	67.6	41.2	132	320
Chromium	114	51.5	85.5	166
Copper	83.8	67	108.5	162
Lead	196	86	160	186
Beryllium	2.00	64	78.5	123
Silver	5.59	--	--	--
Thallium	82.9	--	--	--

QA/QC Table 11. Sample Solution Spike Results

All Concentration in ug/g (ppm)

Sample S-4

Parameter	Sample Conc. (ppm)	Spike Conc. (ppm)	Recovered Conc. (ppm)	% Recovered
Mercury	ND	--	--	--
Arsenic	ND	250	281	112
Selenium	ND	250	295	118
Zinc	323	250	285	114
Antimony	75	250	246	98.2
Cadmium	ND	50	51.5	103
Nickel	11.1	250	260	104
Chromium	113	500	629	126
Copper	62.0	25	25.5	102
Lead	63.9	--	--	--
Beryllium	ND	5.0	5.6	112
Silver	3	--	--	--
Thallium	39.4	--	--	--

Sample S-5

Parameter	Sample Conc. (ppm)	Spike Conc. (ppm)	Recovered Conc. (ppm)	% Recovered
Mercury	ND	500.	536	107
Lead	151	500.	656	131
Silver	5.59	500.	577	115

QA/QC Table 12. EMSL PES

All Concentrations in ug/g (ppm)

Sample: Metals I, Concentration 2

Parameter	Analyses (ppm)	True Value (ppm)	95% Confidence Range (ppm)	% Relative Error
Mercury	50.0	0.87	0.59 - 1.11	--
Arsenic	18.4	23.5	18.2 - 28.6	22.
Selenium	ND	5.0	3.13 - 6.21	100.
Zinc	42.0	41.8	38.1 - 44.9	0.5
Antimony	--	--	--	--
Cadmium	4.00	3.90	3.1 - 4.28	2.6
Nickel	21.4	20.7	17.7 - 23.5	3.4
Chromium	30.1	26.1	21.0 - 30.6	15.3
Copper	31.4	33.9	30.2 - 36.8	7.4
Lead	45.6	43.5	38.9 - 49.1	4.8
Beryllium	32.0	23.5	20.7 - 25.7	36.2
Silver	--	--	--	--
Thallium	--	--	--	--

ENVIRONME[illegible]L PROTECTION AGENCY
Office of Enforcement

R[illegible]ON 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ NO.: 86CY08
PROJECT NAME: U.S. Scrap Landfill
SAMPLERS (Signature): Sally Matz

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO OF CONTAINERS	Priority Pollutants	VOLATILES					REMARKS TAG#
S 1	10 7	1040	✓	X	W & SE of RxR Clover [illegible]	2 8oz	✓						EPA TAG # 5-163865/163871
S01	10-7	1040	✓	X	13'N of line 7	1 120ml	[illegible]	X					5-163872
S02	10-7	1055	✓	X	5' S OF LINE 11	2-8oz	✓						5-163866/163304
S02	10 7	1055	✓	X	"	2-120ml		X					5-88100/5-163881
S03	10 7	1110	✓	X	9' N OF LINE 16	2 8oz	✓						5-163867/5-163882
S03		1110	✓	X	"	2 120ml		X					5-163883/5-163884
S04		1135	✓	X	11' N. OF LINE 24	2-8oz	X						5-163868/5-163888
S04		1135	✓	X	"	2-120ml		X					5-163889/5-163886
S05		1205	✓	X	23' N OF LINE 20	2 8oz	X						5-163869/5-163887
S05		1205	✓	X	"	2-120ml		X					5-163870/5-163873

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Sally Matz	10/7/85 1605	P Vecchiarelli			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		P Vecchiarelli	10/7/85 1605	ERT Midco II - Gary, INDIANA	

Distribution: White -- Accompanies Shipment; Pink -- Coordinator Field Files; Yellow -- Laboratory File

PURGEABLES - Method 624 (modification for GC/FID)

SAMPLE ID: _____ STANDARD ID: 50 ppb A+B + AS

DATE: 10/8/85 QA/QC'd: _____

PARAMETER	RT	RESPONSE	DAILY STANDARD RESPONSE	CONC (ug/L)
CHLOROMETHANE		not	analyzed	
BROMOMETHANE		not	analyzed	
VINYL CHLORIDE		not	analyzed	
CHLOROETHANE		not	analyzed	
METHYLENE CHLORIDE	4.82	23240		
TRICHLOROFLUOROMETHANE	—	not	analyzed	
1,1-DICHLOROETHENE	7.02	34300		
1,1-DICHLOROETHANE	8.26	37490		
TRANS-1,2-DICHLOROETHENE	8.89	38070		
CHLOROFORM	9.55	139160		
1,2-DICHLOROETHANE	10.21	33120		
1,1,1-TRICHLOROETHANE	11.41	27160		
CARBON TETRACHLORIDE	11.78	10380		
BROMODICHLOROMETHANE	12.41	15450		
1,2-DICHLOROPROPANE	13.63	51680		
TRANS-1,3-DICHLOROPROPENE	13.93	20070		
TRICHLOROETHENE	14.45	30630		
BENZENE	14.86	140400		
*DIBROMOCHLOROMETHANE	15.20	88720		
*1,1,2-TRICHLOROETHANE	—	—		
*CIS-1,3-DICHLOROPROPENE	—	—		
2-CHLOROETHYLVINYL ETHER	—	not	analyzed	
BROMOFORM	17.87	5176		
#1,1,2,2-TETRACHLOROETHANE	20.11	38570		
#TETRACHLOROETHENE	—			
TOLUENE	21.28	145000		
CHLOROBENZENE	22.48	109500		
ETHYL BENZENE	24.64	144800		
1,3-DICHLOROBENZENE		not	analyzed	
1,2-DICHLOROBENZENE		not	analyzed	
1,4-DICHLOROBENZENE		not	analyzed	

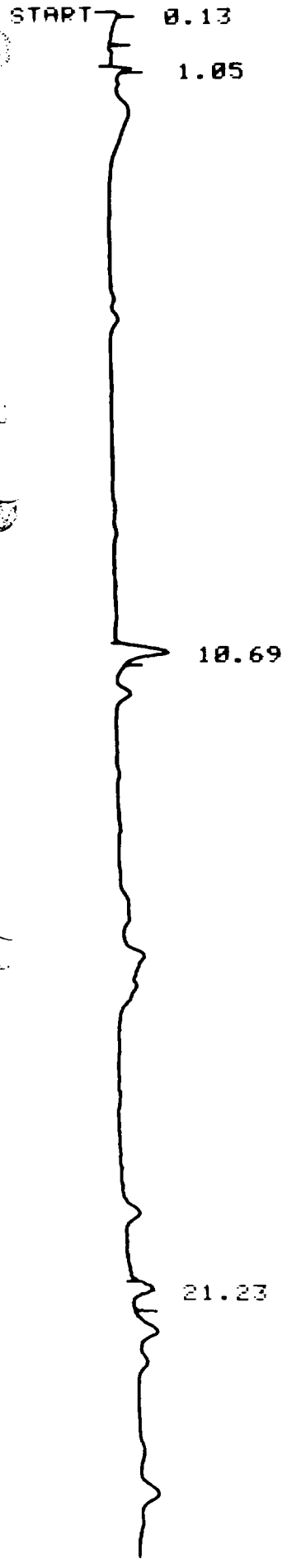
*&#: coeluting compounds

INTERNAL STANDARD RECOVERY

BROMOCHLOROMETHANE	7.62	11980	104.3 %	

Column conditions: Carbopak B (60/80 mesh) coated with 1% SP-1000 in a 6' x 2 mm ID glass column with He carrier at 30 ml/min., at 60°C for 3 min., then programmed at 8°C per min. to 220°C and held.

new bottled water



Purity Brand
"Infants and Children's Water"

© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (pad); Cat. No 2 2888 (box of 10 pads)

HP RUN # 199 OCT/08/85 TIME 12:24:15
ID:111061
STD

RT	EXP RT	AREA	CAL #	AMT
21.23	21.23	362	17	0.140

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	60	164
TIME1	3.00		
RATE	8.00		
TEMP2	400	210	
TIME2	20.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200

CHT SPD	1.00
ZERO	10.0
ATTN 2↑	4
FID SGNL	A
SLP SENS	0.15
AREA REJ	0

HP RUN # 199 OCT/08/85 TIME 12:24:15
ID:111061
AREA %

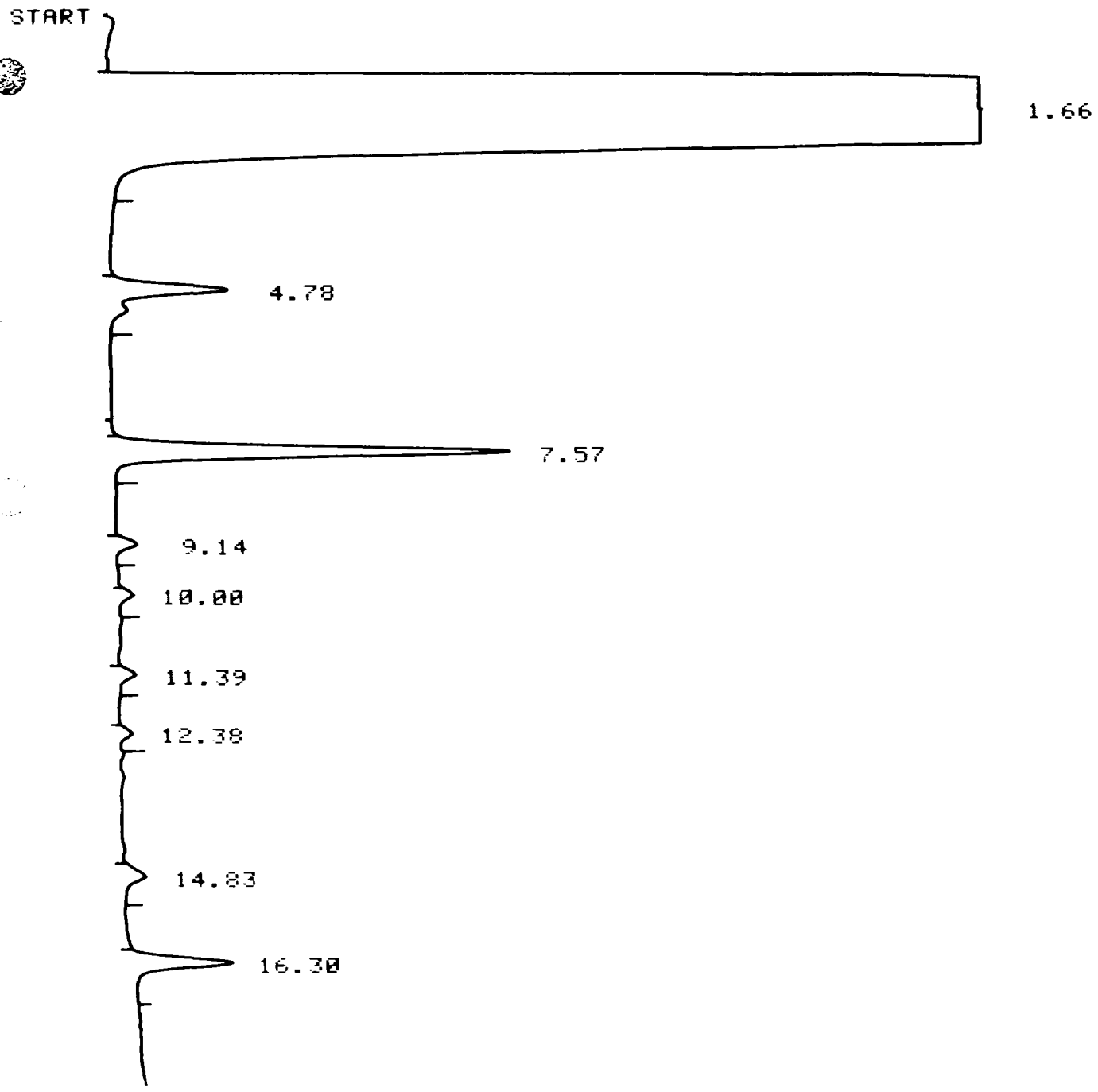
RT	AREA	AREA %
0.13	59	3.912
1.05	97	6.432
10.69	990	65.650
21.23	362	24.005

DIL FACTOR: 1.0000 E+ 0

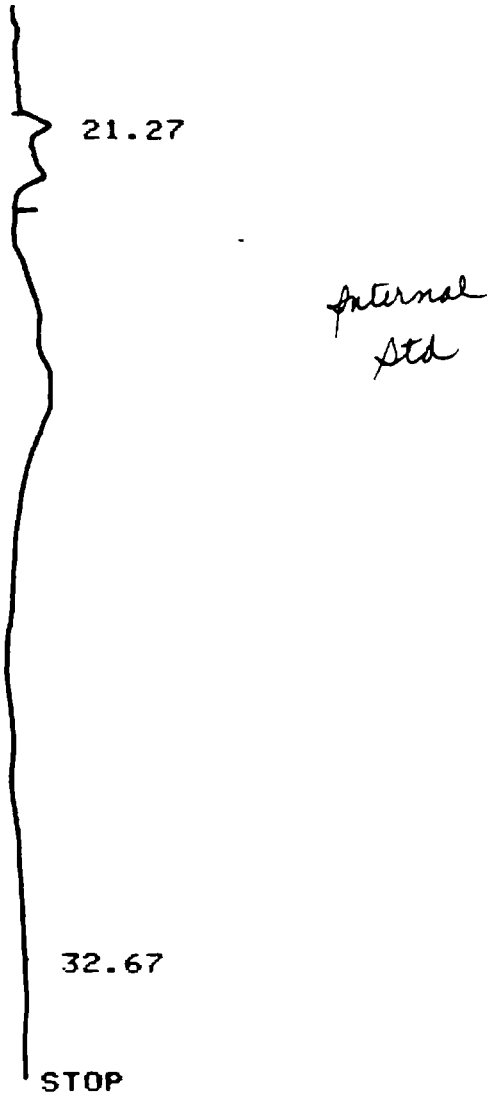
water & yes

TEMP1	400	60	60
TIME1	3.00		
RATE	8.00		
TEMP2	400	210	
TIME2	20.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200

CHT SPD	1.00	
ZERO	10.0	
ATTN 2↑	4	
FID SGNL	A	
SLP SENS	0.15	
AREA REJ		0
FLOW A	0.0	28.9
FLOW B	0.0	34.7



© SUPELCO INC. Bellefonte PA Cat No 2-2887 (cad) Cat No 2-2888 (box of 10 pads)



Internal Std

HP RUN # 195 OCT/08/85 TIME 08:44:09
D:111061
STD

RT	EXP RT	AREA	CAL #	AMT
4.78	4.77	3772	2	9.204
7.57	7.63	11490	(R) 1	108.396
10.00	10.14	368	7	0.614
11.39	11.34	354	8	0.719
12.38	12.34	270	10	1.148
14.83	14.76	738	14	0.289
21.27	21.15	2212	18	0.851

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	60	132
TIME1	3.00		
RATE	8.00		
TEMP2	400	210	
TIME2	20.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200

© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (back) Cat. No. 2-2888 (box of 10 cards)

FID SGNL M
SLP SENS 0.15
AREA REJ 0
FLOW A 0.0 28.9
FLOW B 0.0 27.4

HP RUN # 195 OCT/08/85 TIME 08:44:09
ID:111061
AREA %

RT	AREA	AREA %
1.66	502900	95.709
4.78	3772	0.718
7.57	11490	2.187
9.14	503	0.096
10.00	368	0.070
11.39	354	0.067
12.38	270	0.051
14.83	738	0.140
16.30	2838	0.540
21.27	2212	0.421

DIL FACTOR: 1.0000 E+ 0

CALIB ESTD
% RTW:
? ESCAPE
CALIB ESTD
% RTW: 5

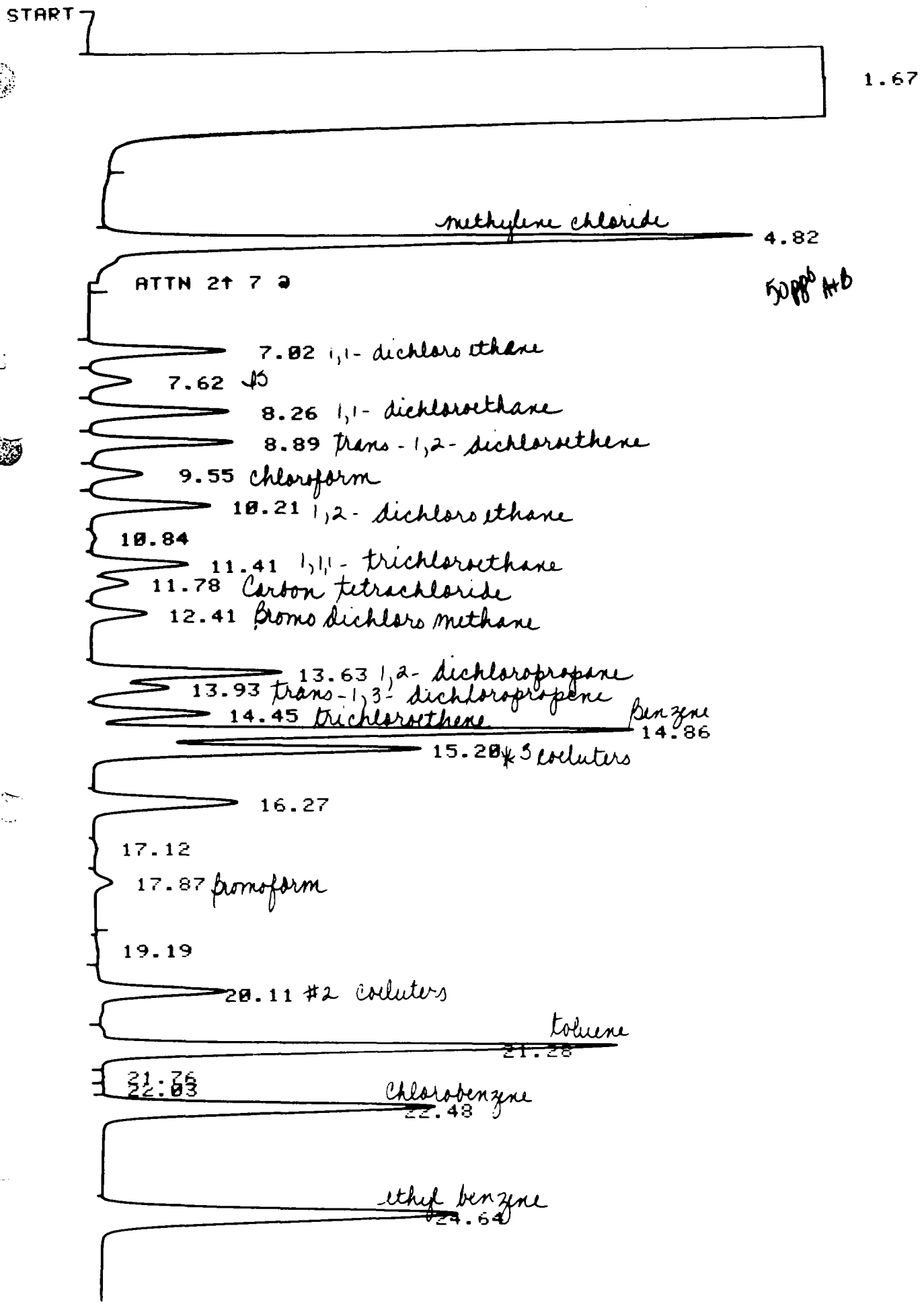
RT AMT
REF: 7 . 5 7 : 1 0 0
:
DIL FACTOR: 1

READY
ESTD
% RTW: 5.00 CALIB RUNS 1

CAL #	RT	AMT	AMT/AREA
(R) 1	7.57	1.0000 E+ 2	8.7032 E- 3

DIL FACTOR: 1.0000 E+ 0

SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (bed); Cat. No. 2 2888 (box of 10 peds)


START
1.67
methylene chloride
4.82
ATTN 2↑ 7 ↓
50ppb A+B
7.02 1,1- dichloro ethane
7.62 IS
8.26 1,1- dichloroethane
8.89 trans-1,2- dichloroethene
9.55 chloroform
10.21 1,2- dichloro ethane
10.84
11.41 1,1,1- trichloroethane
11.78 Carbon tetrachloride
12.41 Bromo dichloro methane
13.63 1,2- dichloropropane
13.93 trans-1,3- dichloropropene
14.45 trichloroethene
Benzene
14.86
15.20 *3 coeluters
16.27
17.12
17.87 bromoform
19.19
20.11 #2 coeluters
toluene
21.28
21.76
22.03
Chlorobenzene
22.48
ethyl benzene
24.64

4P RUN # 196 OCT/08/85 TIME 09:28:47
.D:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
7.62	7.57	11980	(R) 1	104.265

IL FACTOR: 1.0000 E+ 0

TEMP1	400	60	165
TIME1	3.00		
RATE	8.00		
TEMP2	400	210	
TIME2	20.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200
CHT SPD	1.00		
ZERO	10.0		
ATTN 2↑	7		
FID SGNL	A		
SLP SENS	0.15		
AREA REJ		0	
FLOW A	0.0	28.9	
FLOW B	0.0	24.9	

4P RUN # 196 OCT/08/85 TIME 09:28:47

© SUPELCO, INC. Bellefonte, PA Cat. No. 2-2887 (bag); Cat. No. 2-2888 (box of 10 pads)

RT	AREA	AREA %
1.67	1067000	49.798
4.82	23210	1.083
7.02	34300	1.601
7.62	11980	0.559
8.26	37490	1.750
8.89	38070	1.777
9.55	13960	0.652
10.21	33120	1.546
10.84	1723	0.080
11.41	27160	1.268
11.78	10380	0.484
12.41	15450	0.721
13.63	51680	2.412
13.93	20070	0.937
14.45	30630	1.430
14.86	140400	6.553
15.20	88720	4.141
16.27	48740	2.275
17.12	1064	0.050
17.87	5176	0.242
19.19	682	0.032
20.11	38570	1.800
21.28	145000	6.767
21.76	1413	0.066
22.03	1793	0.084
22.48	109500	5.111
24.64	144800	6.758
30.95	568	0.027

DIL FACTOR: 1.0000 E+ 0

CALIB ESTD
% RTW: 5

	RT	AMT
REF:	4.82	50
:	7.02	50
:	8.26	50
:	8.89	50
:	9.55	50
:	10.21	50
:	11.41	50
:	11.78	50
:	12.41	50
:	13.63	50
:	13.93	50
:	14.5500	50
:	14.86	50
:	15.20	50
:	17.78	

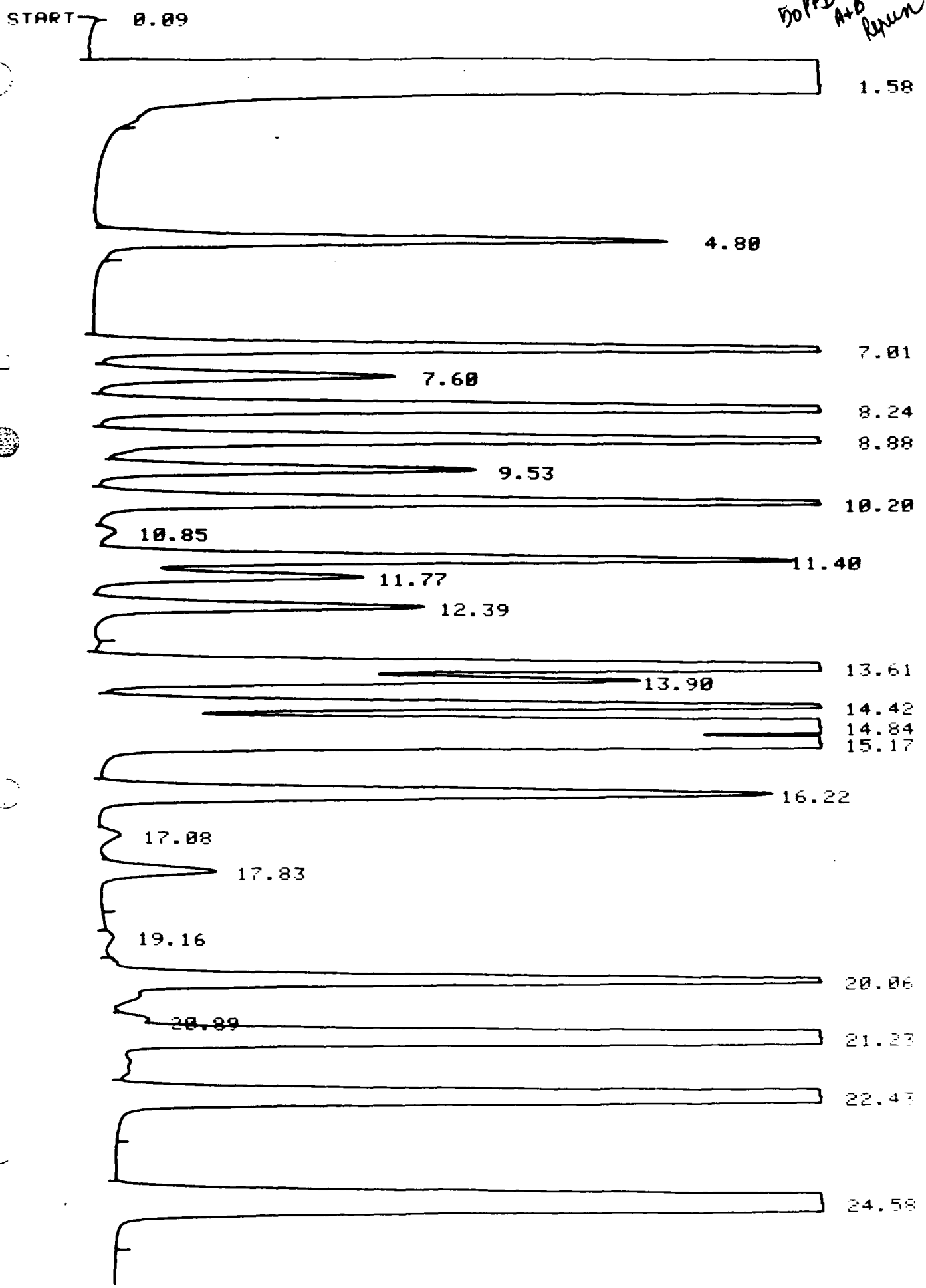
DIL FACTOR: 1

READY
CALIB ESTD
% RTW: 5

	RT	AMT
REF:	17.87	50
:	20.11	50
:	21.28	50
:	22.48	50
:	24.64	50
:		

DIL FACTOR:

© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (and) Cat. No. 2 2888 (box of 10 pads)



SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (pad); Cat. No. 2-2888 (box of 10 pads)

HP RUN # 198 OCT/08/85 TIME 11:04:23
ID:111061
FSTD

RT	EXP RT	AREA	CAL #	AMT
17.83	17.87	4413	(R) 1	42.629
20.06	20.06	32620	2	42.287
21.23	21.23	129400	3	44.621
22.43	22.42	90580	4	41.361
24.58	24.58	126500	5	43.681

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	60	143
TIME1	3.00		
RATE	8.00		
TEMP2	400	210	
TIME2	20.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200

CHT SPD	1.00
ZERO	10.0
ATTN 2↑	4
FID SGNL	A

© SUPELCO, INC., bellefonte, PA Cat. No. 2-2887 (pad) Cat. No. 2-2888 (box of 10 pads)

FLOW A 0.0 26.8
FLOW B 0.0 26.4

HP RUN # 198 OCT/08/85 TIME 11:04:23
ID:111061
AREA %

RT	AREA	AREA %
0.09	44	0.003
1.58	606700	39.761
4.80	19180	1.257
7.01	29840	1.956
7.60	10420	0.683
8.24	33520	2.197
8.88	33920	2.223
9.53	12460	0.817
10.20	28480	1.866
10.85	905	0.059
11.40	24220	1.587
11.77	9232	0.605
12.39	11050	0.724
13.61	45510	2.983
13.90	17310	1.134
14.42	27120	1.777
14.84	126700	8.303
15.17	75260	4.932
16.22	28120	1.843
17.08	893	0.059
17.83	4413	0.289
19.16	291	0.019
20.06	32620	2.138
20.89	1189	0.078
21.23	129400	8.480
22.43	90580	5.936
24.58	126500	8.290

DIL FACTOR: 1.0000 E+ 0

CALIB ESTD
% RTW: 4

	RT	AMT
REF:	7.01	50
:	7.60	100
:	8.24	50
:	8.88	50
:	9.53	50
:	10.2	50
:	11.4	50
:	11.77	50
:	12.39	50
:	13.61	50
:	13.9	50
:	14.42	50
:	14.84	50
:	15.17	50
:	17.08	50
:	17.83	50
:	20.06	50
:	20.89	50
:	21.23	50
:	22.43	50
:	24.58	50
:		

DIL FACTOR: 1

© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (pad); Cat. No. 2-2888 (box of 10)

PURGEABLES - Method 624 (modification for GC/FID)

Burdick and Jackson

SAMPLE ID: Methanol Blank 100 ul 10 ml STANDARD ID: 50 PPB A+B

DATE: 10/8/84 QA/QC'd:

PARAMETER	RT	RESPONSE	DAILY STANDARD RESPONSE	CONC (ug/L)
CHLOROMETHANE		not	analyzed	
BROMOMETHANE		not	analyzed	
VINYL CHLORIDE		not	analyzed	
CHLOROETHANE		not	analyzed	
METHYLENE CHLORIDE	4.85	1514	23210	3.26
TRICHLOROFLUOROMETHANE	—	not	analyzed	—
1,1-DICHLOROETHENE	—	—	—	—
1,1-DICHLOROETHANE	8.30	280	37490	.37
TRANS-1,2-DICHLOROETHENE		—	—	—
CHLOROFORM		—	—	—
1,2-DICHLOROETHANE		—	—	—
1,1,1-TRICHLOROETHANE	11.47	515	27160	.95
CARBON TETRACHLORIDE	11.80	953	10380	4.59
BROMODICHLOROMETHANE	12.49	6772	15450	21.9
1,2-DICHLOROPROPANE	—	—	—	—
TRANS-1,3-DICHLOROPROPENE	—	—	—	—
TRICHLOROETHENE	14.44	1031	30630	1.68
BENZENE	14.82	5823	140400	2.07
*DIBROMOCHLOROMETHANE	—	—	—	—
*1,1,2-TRICHLOROETHANE	—	—	—	—
*CIS-1,3-DICHLOROPROPENE	—	—	—	—
2-CHLOROETHYLVINYL ETHER	—	not	analyzed	—
BROMOFORM	—	—	—	—
#1,1,2,2-TETRACHLOROETHANE	—	—	—	—
#TETRACHLOROETHENE	20.02	864	38570	1.12
TOLUENE	21.34	7006	145000	2.42
CHLOROBENZENE	—	—	—	—
ETHYL BENZENE	24.75	977	144800	.34
1,3-DICHLOROBENZENE		not	analyzed	
1,2-DICHLOROBENZENE		not	analyzed	
1,4-DICHLOROBENZENE		not	analyzed	

*&#: coeluting compounds

INTERNAL STANDARD RECOVERY

BROMOCHLOROMETHANE	7.67	11110	106.6 %	

Column conditions: Carbopak B (60/80 mesh) coated with 1% SP-1000 in a 6' x 2 mm ID glass column with He carrier at 30 ml/min., at 60°C for 3 min., then programmed at 8°C per min. to 220°C and held.

STOP

Meth Hand

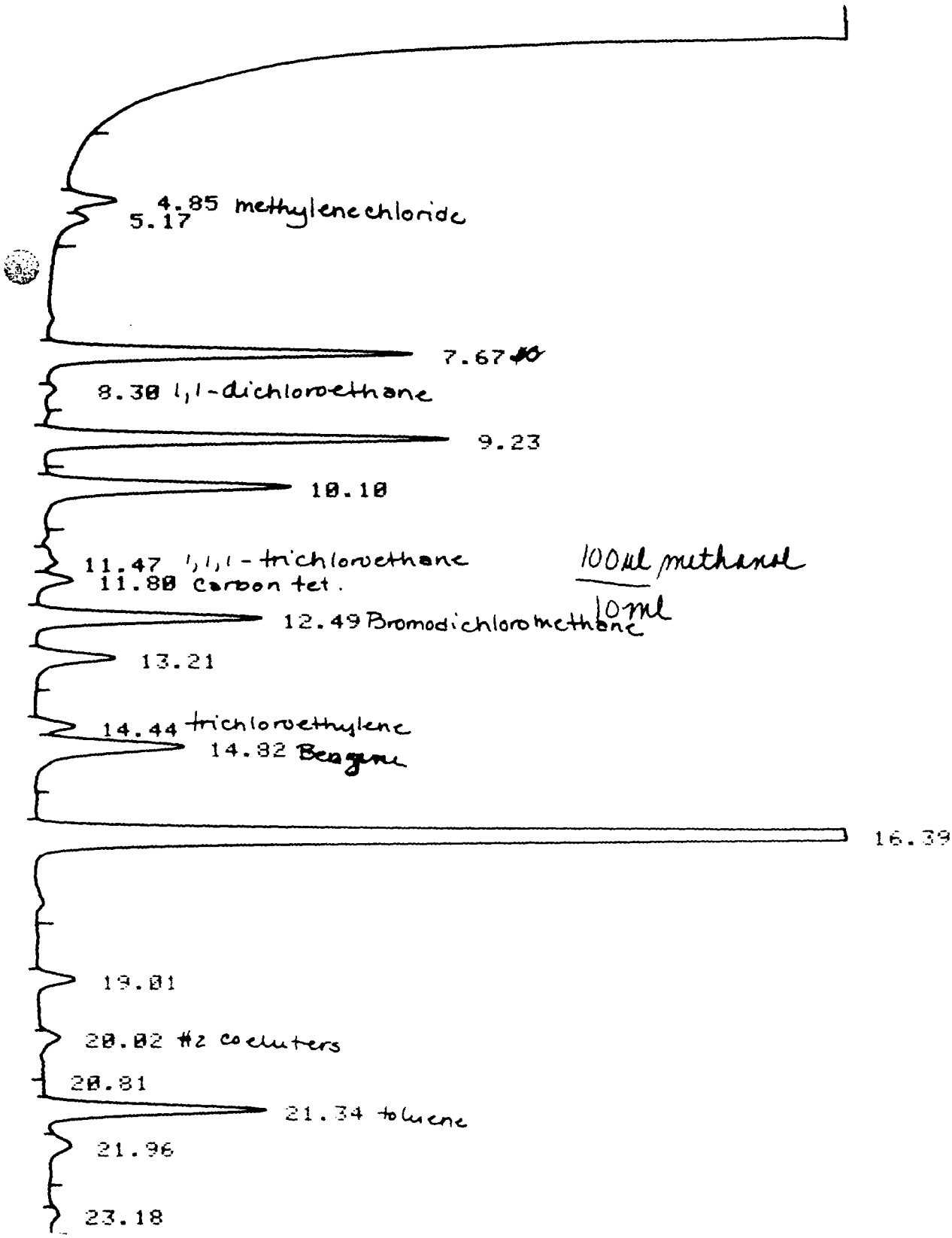
N 200 OCT/08/85 TIME 14:00:02

E

1 400 60 60

purdick and Ga

0.10



100ul methanol / 10ml

29.97

31.19

STOP

HP RUN # 201 OCT/08/85 TIME 14:12:19
ID:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
7.67	7.60	11110	2	106.622
8.30	8.24	280	3	0.418
10.10	10.20	8094	6	14.210
11.47	11.40	515	7	1.063
11.80	11.77	953	8	5.161
12.49	12.39	6772	9	30.643
14.44	14.42	1031	12	1.901
14.82	14.84	5823	13	2.298
20.02	20.06	864	16	1.324
21.34	21.23	7006	17	2.707
24.75	24.58	977	19	0.386

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	60	118
TIME1	3.00		
RATE	8.00		
TEMP2	400	210	
TIME2	20.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200
CHT SPD	1.00		
ZERO	10.0		
ATTN 2↑	4		
FID SGNL	A		
SLP SENS	0.15		
AREA REJ		0	
FLOW A	0.0	28.7	
FLOW B	0.0	28.2	

'P RUN # 201 OCT/08/85 TIME 14:12:19
D:111061
AREA %

RT	AREA	AREA %
0.10	108	0.002

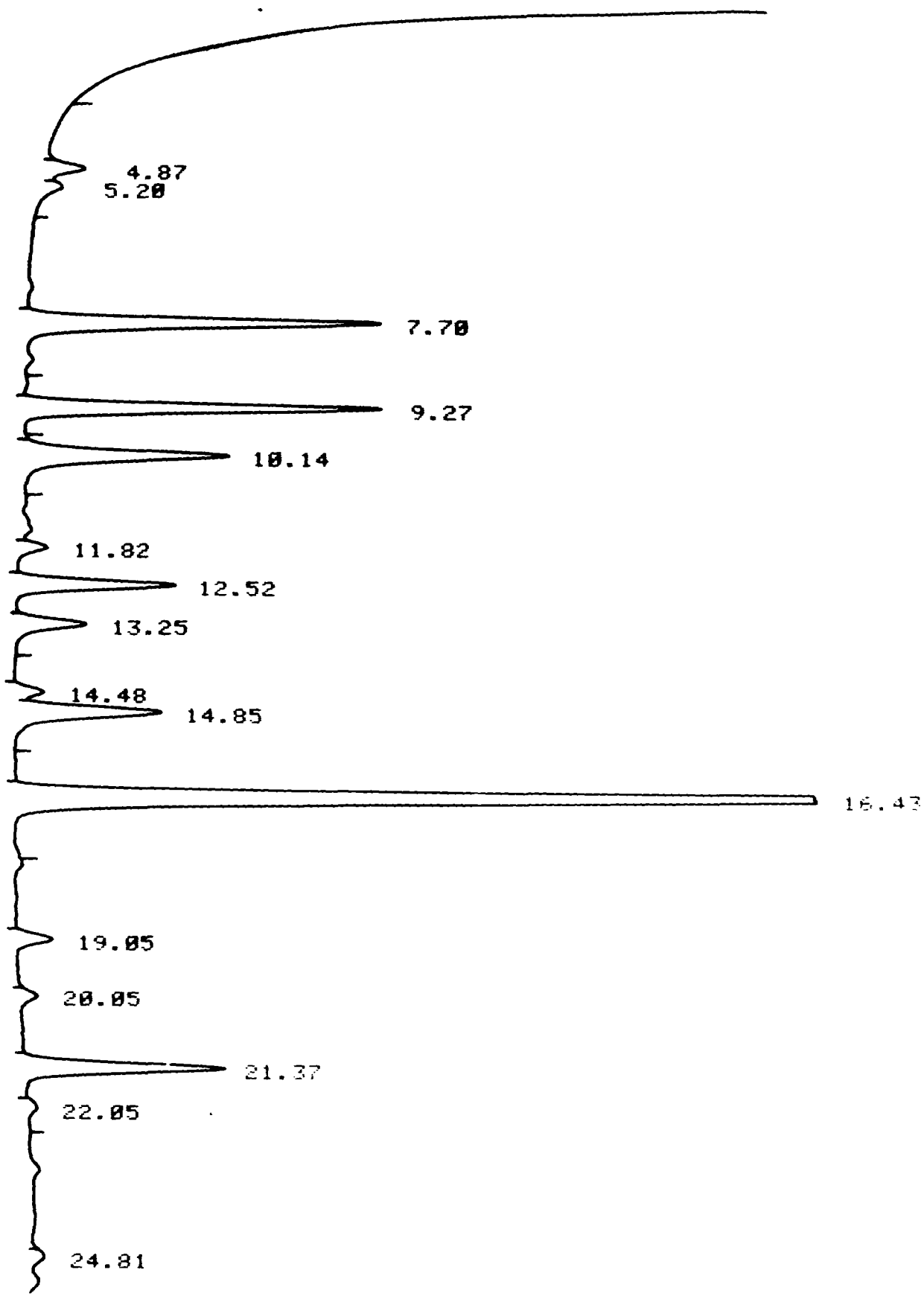
© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (bag); Cat. No. 2-2888 (box of 10 pads)

17	914	0.014
67	11110	0.165
30	280	0.004
2[illegible]	11270	0.167
[illegible]	8094	0.120
[illegible]	515	0.008
80	953	0.014
.49	6772	0.100
.21	2647	0.039
.44	1031	0.015
.82	5823	0.086
.39	54960	0.815
.01	1153	0.017
1.02	864	0.013
1.81	153	0.002
[illegible].34	7006	0.104
1.96	1305	0.019
3.18	271	0.004
4.75	977	0.014
9.97	1297	0.019
1.19	1087	0.016

L[illegible]CTOR: 1.0000 E+ 0

TEMP1 400 60 64 MeOH Blank 100ml/10ml

START



S20P40

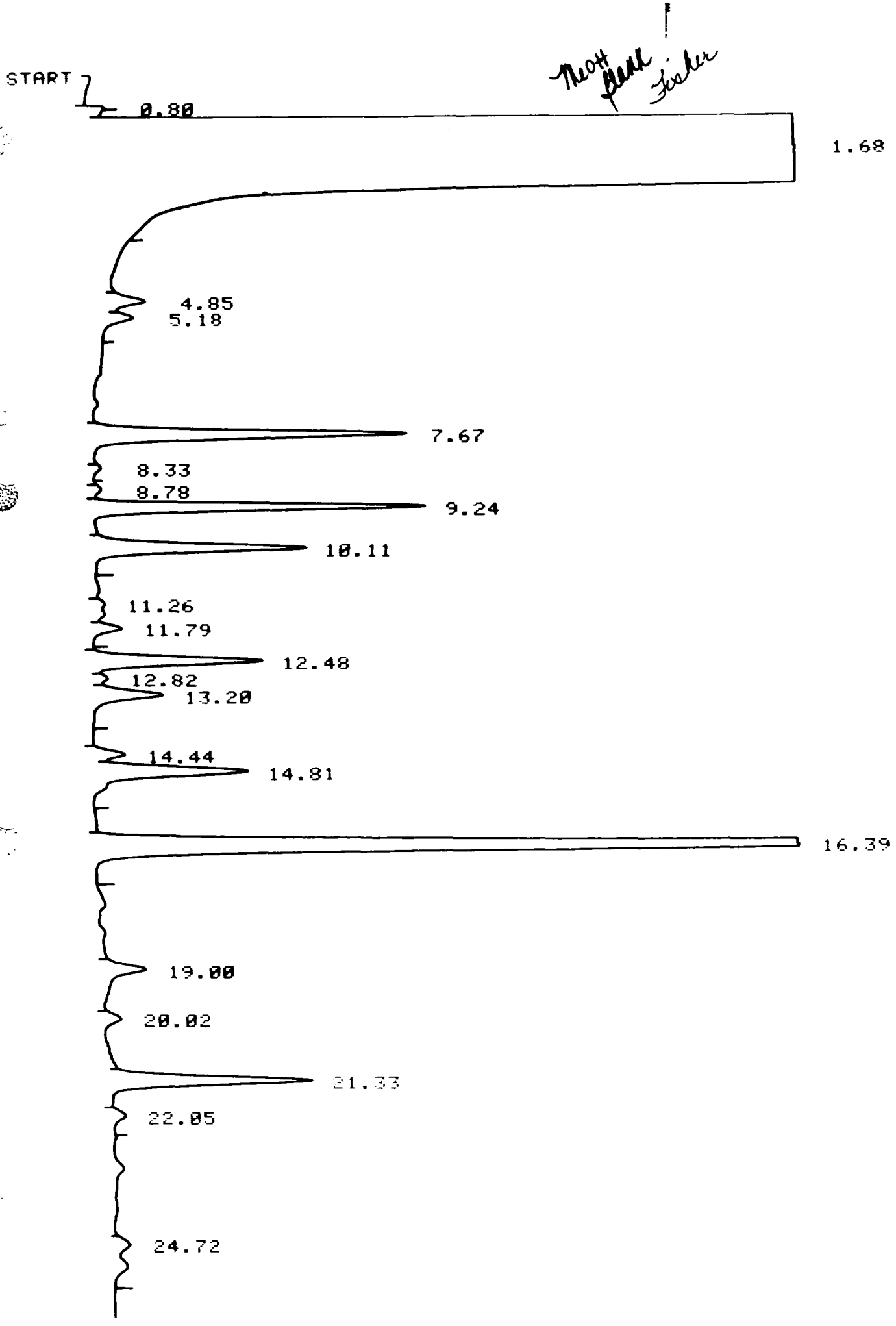
P RUN # 202 OCT/08/85 TIME 14:56:06
0:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
7.70	7.60	11090	2	106.430
10.14	10.20	7222	6	12.679
11.82	11.77	625	8	3.385
12.52	12.39	4881	9	22.086
14.48	14.42	772	12	1.423
14.85	14.84	5742	13	2.266
20.05	20.06	709	16	1.087
21.37	21.23	6456	17	2.495
22.05	22.43	348	18	0.192
24.81	24.58	828	19	0.327

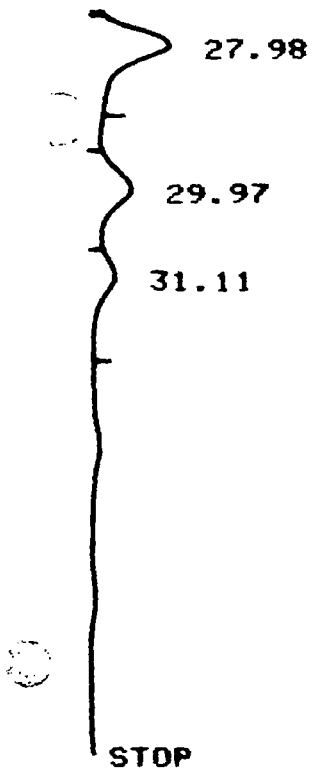
DIL FACTOR: 1.0000 E+ 0

ESCAPE

© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2807 (pad); Cat. No. 2-2808 (box of 10 pads)



© SUPELCO INC. Bellefonte PA Cat No. 2-7087 (vial) Cat No. 2-7088 (box of 10 vials)



P RUN # 203 OCT/08/85 TIME 15:35:23
D:111061
STD

RT	EXP RT	AREA	CAL #	AMT
7.67	7.60	10940	2	104.990
8.33	8.24	241	3	0.359
8.78	8.88	159	4	0.234
10.11	10.20	7666	6	13.459
11.26	11.40	438	7	0.904
11.79	11.77	832	8	4.506
[illegible]48	12.39	5809	9	26.285
[illegible].44	14.42	996	12	1.836
14.81	14.84	6722	[illegible]	2.653
20.02	20.06	691	16	1.059
21.33	21.23	8150	17	3.149
22.05	22.43	466	18	0.257
24.72	24.58	1361	19	0.538

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	60	112
TIME1	3.00		
RATE	8.00		
TEMP2	400	210	
TIME2	20.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200

CHT SPD 1.00
ZERO 10.0
ATTN 2↑ 4
FID SGNL A
[illegible] 0.15

> RUN # 203 OCT/08/85 TIME 15:35:23
D[illegible]1061
[illegible]%

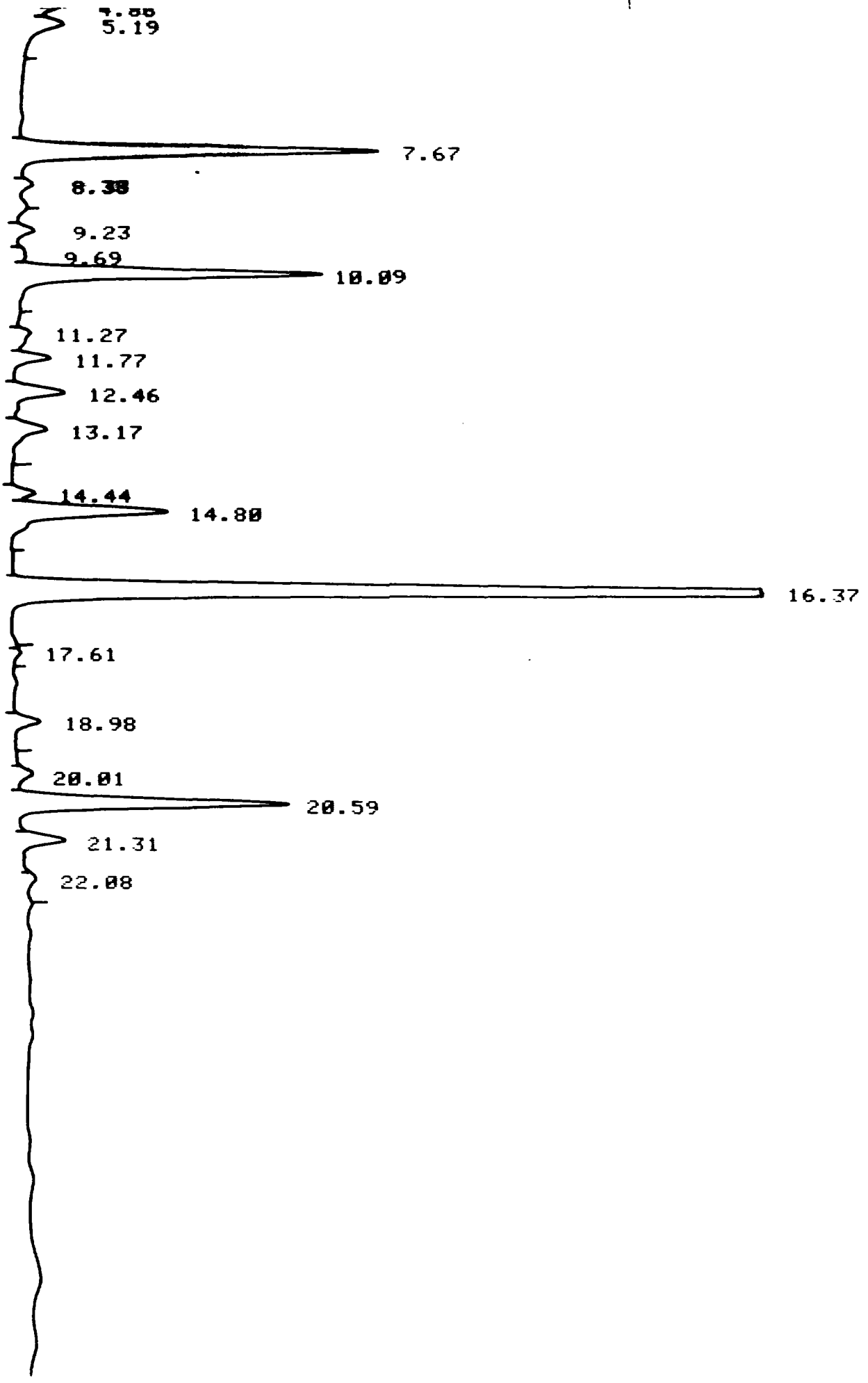
RT	AREA	AREA %
0.80	109	0.001
1.68	7710000	98.514
4.85	1257	0.016
5.18	943	0.012
7.67	10940	0.140
8.33	241	0.003
8.78	159	0.002
9.24	10740	0.137
10.11	7666	0.098
11.26	438	0.006
11.79	832	0.011
12.48	5809	0.074
12.82	408	0.005
1[illegible]20	2874	0.037
1[illegible]44	996	0.013
1[illegible]81	6722	0.086
16.39	46760	0.597
19.00	1846	0.024
20.02	691	0.009
21.33	8150	0.104
22.05	466	0.006
24.72	1361	0.017
27.98	3428	0.044
[illegible]9.97	2122	0.027
[illegible]1.11	1317	0.017

DIL FACTOR: 1.0000 E+ 0

MeOH Blank

START

1.64



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STOP

HP RUN # 204 OCT/08/85 TIME 16:24:54
D:111061
STD

RT	EXP RT	AREA	CAL #	AMT
7.67	7.60	11580	2	111.132
8.33	8.24	368	3	0.549
9.69	9.53	345	5	1.384
10.09	10.20	10240	6	17.978
11.27	11.40	591	7	1.220
11.77	11.77	1094	8	5.925
12.46	12.39	2011	9	9.100
14.44	14.42	630	12	1.162
14.80	14.84	6444	13	2.543

ESCAPE

[illegible]

PURGEABLES - Method 624 (modification for GC/FID)

5µl EMSL 483 Conc 1

SAMPLE ID: 10 ml water STANDARD ID: 5 ppb A+B

DATE: 10/8/85 QA/QC'd:

PARAMETER	RT	RESPONSE	DAILY STANDARD RESPONSE	CONC (ug/L)	% Recov
CHLOROMETHANE		not	analyzed		
BROMOMETHANE		not	analyzed		
VINYL CHLORIDE		not	analyzed		
CHLOROETHANE		not	analyzed		
METHYLENE CHLORIDE					
TRICHLOROFLUOROMETHANE		not	analyzed		
1,1-DICHLOROETHENE					
1,1-DICHLOROETHANE					
TRANS-1,2-DICHLOROETHENE					
CHLOROFORM	9.58	7740	139160	27.7 = 11.1	92.5
1,2-DICHLOROETHANE	10.25	3795	33120	5.73 = 2.29	114.5
1,1,1-TRICHLOROETHANE	11.44	2250	271160	4.14 = 1.66	118.6
CARBON TETRACHLORIDE	11.81	1293	10380	6.23 = 2.49	95.8
BROMODICHLOROMETHANE	12.44	1161	15450	3.76 = 1.50	75.0
1,2-DICHLOROPROPANE					
TRANS-1,3-DICHLOROPROPENE					
TRICHLOROETHENE	14.47	4287	30630	7.00 = 2.8	96.6
BENZENE					
*DIBROMOCHLOROMETHANE	15.19	Coeluter - Cannot quantify			
*1,1,2-TRICHLOROETHANE					
*CIS-1,3-DICHLOROPROPENE					
2-CHLOROETHYLVINYL ETHER		not	analyzed		
BROMOFORM	17.86	638	5176	6.16 = 2.46	84.8
#1,1,2,2-TETRACHLOROETHANE					
#TETRACHLOROETHENE	20.06	Coeluter - Cannot quantify			
TOLUENE	21.29	790	145000	.27 ND	ND
CHLOROBENZENE					
ETHYL BENZENE					
1,3-DICHLOROBENZENE		not	analyzed		
1,2-DICHLOROBENZENE		not	analyzed		
1,4-DICHLOROBENZENE		not	analyzed		

*&#: coeluting compounds

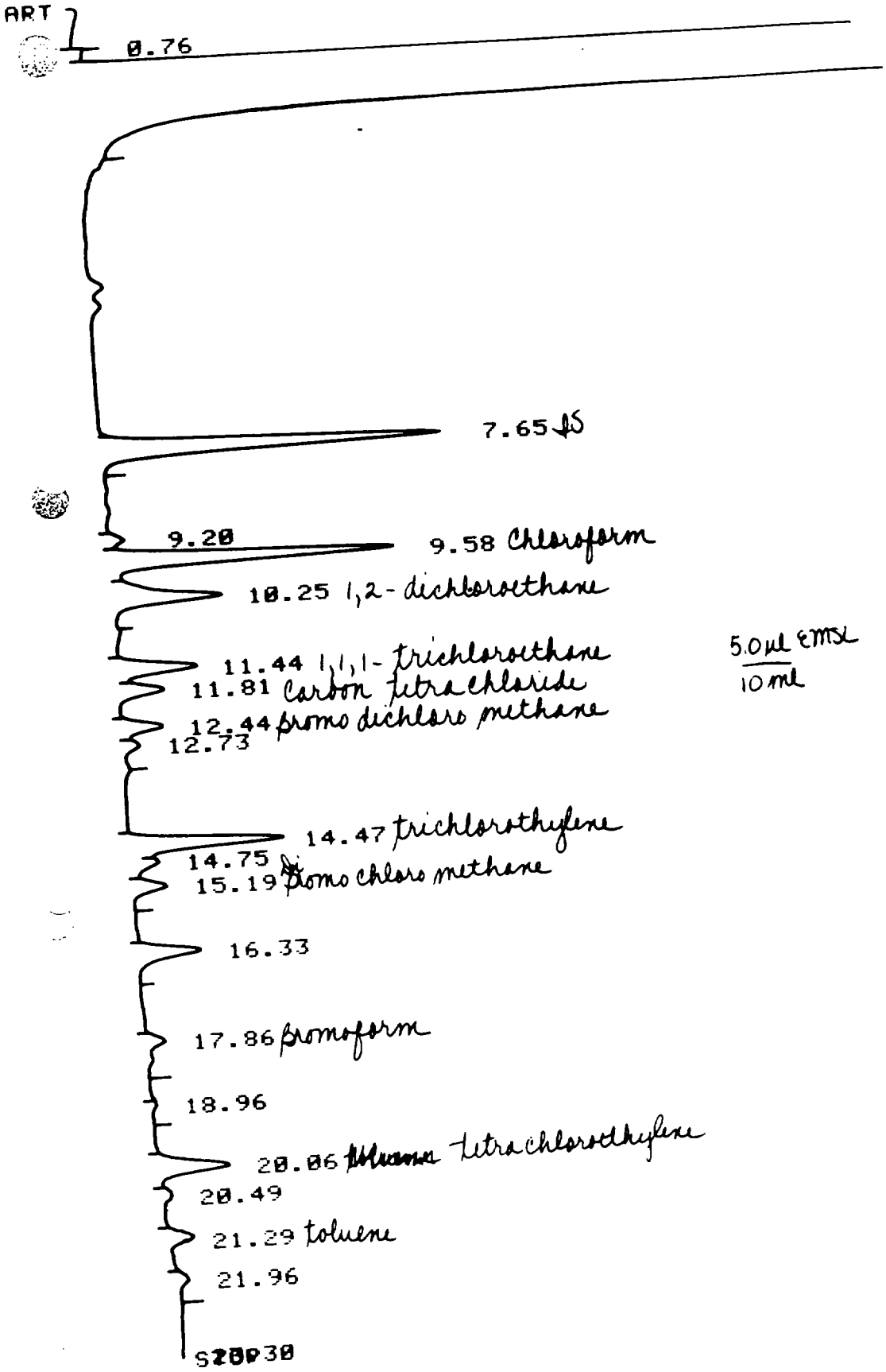
INTERNAL STANDARD RECOVERY

BROMOCHLOROMETHANE	7.65	9438	90.6 %	

Column conditions: Carbopak B (60/80 mesh) coated with 1% SP-1000 in a 6' x 2 mm ID glass column with He carrier at 30 ml/min., at 60°C for 3 min., then programmed at 8°C per min. to 220°C and held.

20ml/100ml = EMSL Dilution Our Dilution: 5ml/10ml

EMSL 483 Conc 1



5.0 µl EMSL / 10 ml

HP RUN # 205
ID:111061
ESTD

OCT/08/85

TIME 17:10:12

AREA

CAL #

AMT

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10.25	10.20	3795	6	6.663
11.44	11.40	2250	7	4.645
11.81	11.77	1293	8	7.003
12.44	12.39	1161	9	5.253
14.47	14.42	4287	12	7.904
14.75	14.84	792	13	0.313
15.19	15.17	1016	14	0.675
17.86	17.83	638	15	7.229
20.06	20.06	2135	16	3.273
21.29	21.23	790	17	0.305

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	60	109
TIME1	3.00		
RATE	8.00		
TEMP2	400	210	
TIME2	20.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200

CHT SPD	1.00	
ZERO	10.0	
ATTN 2↑	4	
FID SGNL	A	
SLP SENS	0.15	
AREA REJ		0
FLOW A	0.0	28.8
FLOW B	0.0	29.7

HP RUN # 205 OCT/08/85 TIME 17:10:12 EMSL 463 Conc 1

ID:111061

AREA %

RT	AREA	AREA %
1.62	835200	95.570
7.65	9438	1.080
9.20	303	0.035
9.58	7740	0.886
10.25	3795	0.434
11.44	2250	0.257
11.81	1293	0.148
12.44	1161	0.133
12.73	426	0.049
14.47	4287	0.491
14.75	792	0.091
15.19	1016	0.116
16.33	1816	0.208
17.86	638	0.073
18.96	63	0.007
20.06	2135	0.244
20.49	363	0.042
21.29	790	0.090
21.96	412	0.047

DIL FACTOR: 1.0000 E+ 0

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9.33g soil / 10ml MeOH Total Dilution Factor = 107.2

PURGEABLES - Method 624 (modification for GC/FID)

SAMPLE ID: US SCRAP SITE STA-01 100ul 10ml STANDARD ID: 50 ppb A+B

DATE: 10/8/85 QA/QC'd:

PARAMETER	RT	RESPONSE	DAILY STANDARD RESPONSE	CONC (ug/L) in water	ng/g in soil
CHLOROMETHANE		not	analyzed		
BROMOMETHANE		not	analyzed		
VINYL CHLORIDE		not	analyzed		
CHLOROETHANE		not	analyzed		
METHYLENE CHLORIDE	4.37	547		ND (Blank MeOH higher)	
TRICHLOROFLUOROMETHANE	—	not	analyzed		
1,1-DICHLOROETHENE	6.89	276	34300	.40 .04	.597
1,1-DICHLOROETHANE	8.21	1295-2880	37490	5.57	mg/g
TRANS-1,2-DICHLOROETHENE					
CHLOROFORM					
1,2-DICHLOROETHANE					
1,1,1-TRICHLOROETHANE	11.37	4688-515	27160	7.7	825.4 mg/l
CARBON TETRACHLORIDE					
BROMODICHLOROMETHANE	12.36	1822-6772	—	ND (Blank higher)	
1,2-DICHLOROPROPANE	12.71	20163	51680	2.0	214.4 ng/g
TRANS-1,3-DICHLOROPROPENE					
TRICHLOROETHENE	14.36	1082-1031	30630	ND	
BENZENE	14.70	4455-5823	—	ND (Blank higher)	
*DIBROMOCHLOROMETHANE					
*1,1,2-TRICHLOROETHANE	15.15	944	88720	.53 BMDL	
*CIS-1,3-DICHLOROPROPENE					
2-CHLOROETHYLVINYL ETHER	—	not	analyzed		
BROMOFORM	17.85	1522	51760	14.7	1575
#1,1,2,2-TETRACHLOROETHANE	20.02	10830-864	38570	12.9	1382
#TETRACHLOROETHENE					
TOLUENE	21.23	195700-7000	145000	65.1	9[illegible]
CHLOROBENZENE	22.48	37540	109500	17.1	1833.1
ETHYL BENZENE	24.24	[illegible]	144800	51.4	550.1
1,3-DICHLOROBENZENE		not	analyzed		
1,2-DICHLOROBENZENE		not	analyzed		
1,4-DICHLOROBENZENE		not	analyzed		

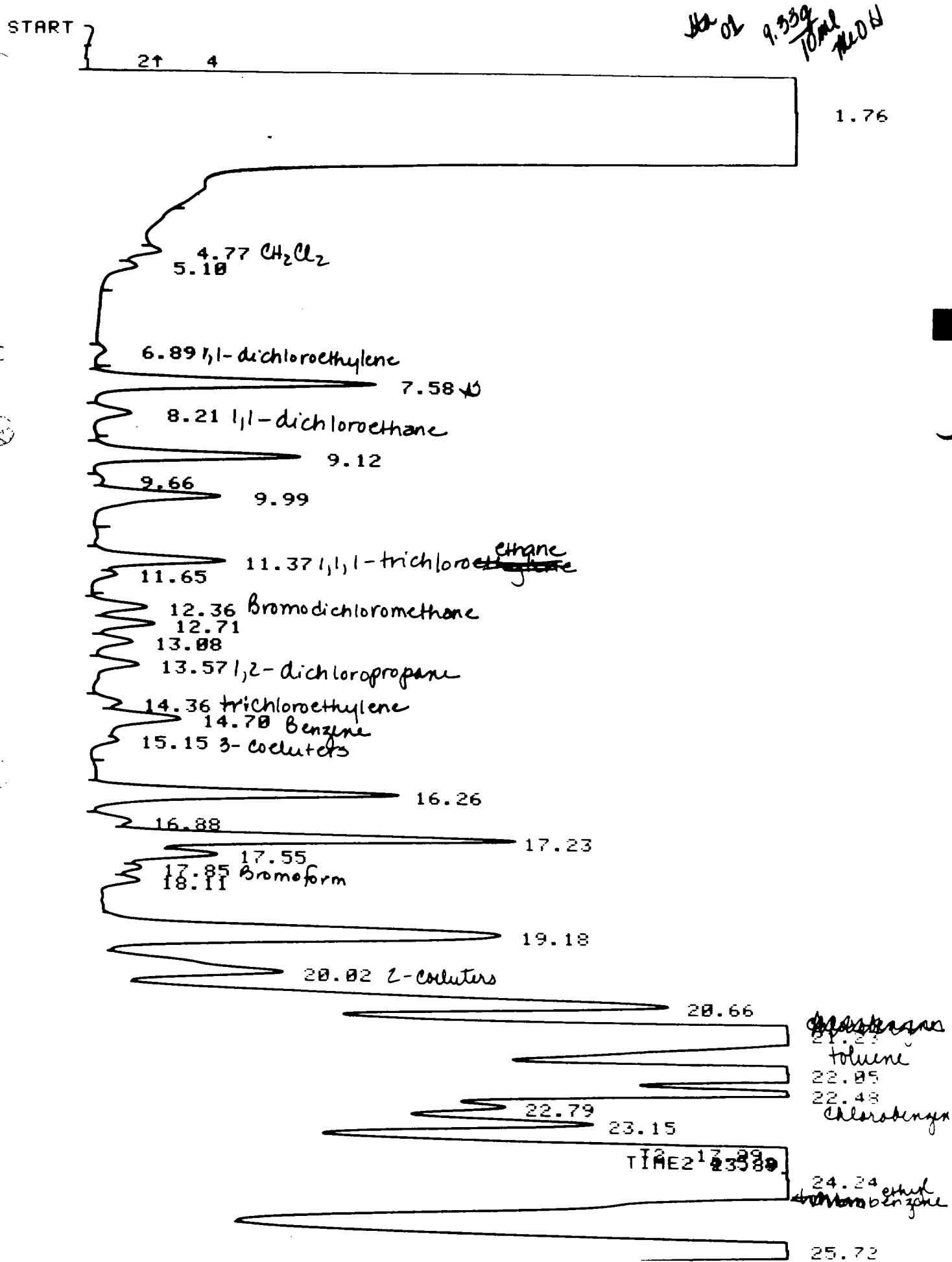
*&#: coeluting compounds

INTERNAL STANDARD RECOVERY

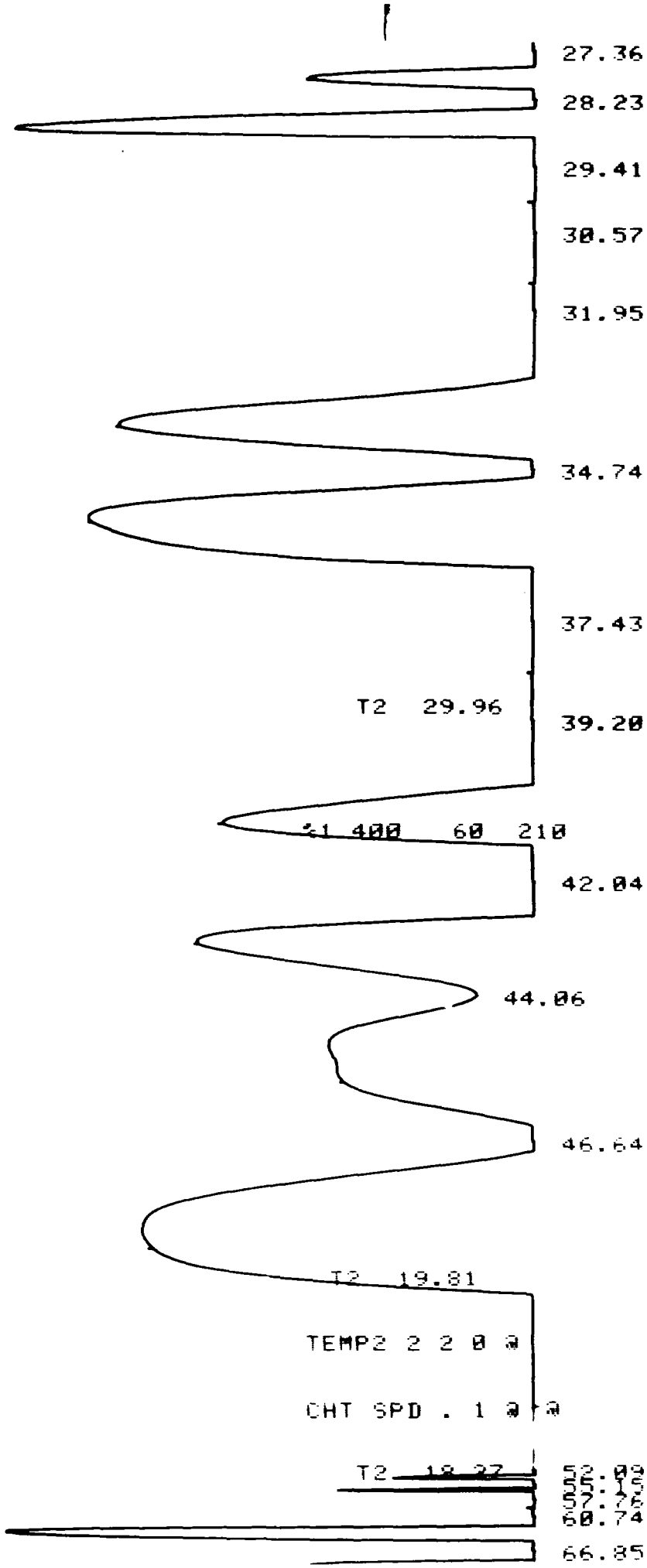
BROMOCHLOROMETHANE	7.58	10000	96.0 %	

Column conditions: Carbopak B (60/80 mesh) coated with 1% SP-1000 in a 6' x 2 mm ID glass column with He carrier at 30 ml/min., at 60°C for 3 min., then programmed at 8°C per min. to 220°C and held.

Check is [illegible]



© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (pad): Cat. No 2 2888 (box of 10 pads)



SUPELCO, INC. Bellefonte PA Cat No 2-2887 (cad) Cat No 2-2888 (box of 10 pads)

HP RUN # 206 OCT/08/85 TIME 17:45

ID:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
6.89	7.01	276	(R) 1	0.462
7.58	7.46	10000	2	95.969
8.21	8.09	1295	3	1.932
9.99	10.02	5198	6	9.126
11.37	11.20	4688	7	9.678
11.65	11.56	749	8	4.057
12.36	12.17	1822	9	8.244
13.57	13.66	1903	11	5.497
14.36	14.17	1082	12	1.995
14.70	14.58	4455	13	1.758
15.15	14.91	944	14	0.627
17.55	17.52	4733	15	53.626
20.02	19.71	10830	16	16.600
20.66	20.86	37340	17	14.428
22.05	22.04	93080	18	51.380
24.24	24.15	148900	19	58.854

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	60	106
TIME1	3.00		
RATE	8.00		
TEMP2	400	220	
TIME2	45.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200

CHT SPD	0.10	
ZERO	10.0	
ATTN 2↑	4	
FID SGNL	A	
SLP SENS	0.15	
AREA REJ		0
FLOW A	0.0	28.8
FLOW B	0.0	30.0

HP RUN # 206 OCT/08/85 TIME 17:45:28
ID:111061
AREA %

RT	AREA	AREA %
1.76	6984000	26.045
4.77	547	0.002
5.10	104	0.000
6.89	276	0.001
7.58	10000	0.037
8.21	1295	0.005
9.12	6852	0.026
9.66	353	0.001
9.99	5198	0.019
11.37	4688	0.017
11.65	749	0.003
12.36	1822	0.007
12.71	2063	0.008
13.08	1502	0.006

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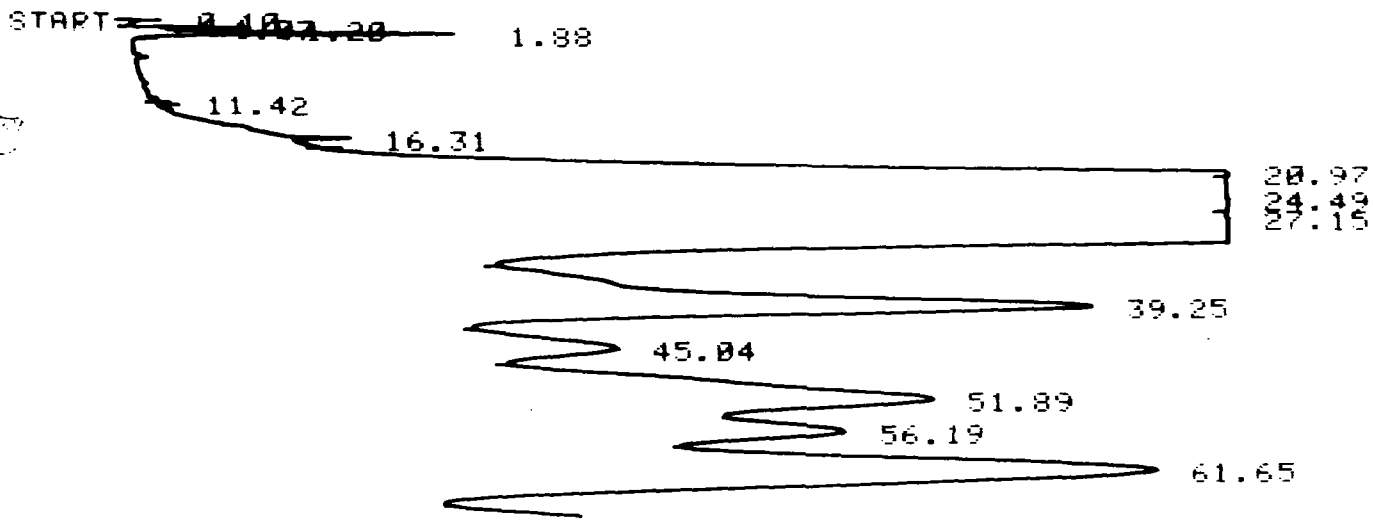
15.15	944	0.004
16.26	11180	0.042
16.88	1303	0.005
17.23	15810	0.059
17.55	4733	0.018
17.85	1522	0.006
18.11	2029	0.008
19.18	25860	0.096
20.02	10830	0.040
20.66	37340	0.139
21.23	195700	0.730
22.05	93080	0.347
22.48	37540	0.140
22.79	17570	0.066
23.15	27190	0.101
23.89	133500	0.498
24.24	148900	0.555
25.72	87820	0.327
26.70	127500	0.475
27.36	132000	0.492
28.23	92620	0.345
29.41	3717000	13.861
30.57	4389000	16.367
31.95	517100	1.928
34.74	144500	0.539
37.43	1157000	4.315
39.20	1144000	4.266
42.04	318400	1.187
44.06	172900	0.645
46.64	309200	1.153
52.09	1758000	6.556
55.15	282700	1.054
57.76	1884000	7.026
60.74	1747000	6.515
66.85	1043000	3.890

JIL FACTOR: 1.0000 E+ 0



HP RUN # 207 OCT/08/85 TIME 19:08:59
ID:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
11.42	11.40	289	7	0.597
20.97	21.23	180500	17	69.745
24.49	24.58	2675000	19	1057.31

TEMP1	400	60	158
TIME1	3.00		
RATE	8.00		
TEMP2	400	220	
TIME2	45.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200
CHT SPD	0.10		
ZERO	10.0		
ATTN 2↑	4		
FID SGNL	A		
SLP SENS	0.15		
AREA REJ		0	
FLOW A	0.0	28.8	
FLOW B	0.0	25.6	

HP RUN # 207 OCT/08/85 TIME 19:08:59

ID:111061

AREA %

RT	AREA	AREA %
0.10	50	0.001
1.07	110	0.002
1.20	487	0.008
1.88	11950	0.197
11.42	289	0.005
16.31	2101	0.035
20.97	180500	2.976
24.49	2675000	44.098
27.15	1917000	31.602
39.25	354300	5.841
45.04	104000	1.714
51.89	288400	4.754
56.19	168600	2.779
61.65	363300	5.989

DIL FACTOR: 1.0000 E+ 0

SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (pad); Cat. No. 2-2888 (box of 10 pads)

PURGEABLES - Method 624 (modification for GC/FID)

SAMPLE ID: U.S. Scrap For Samples STANDARD ID: 50 PPB A+B

DATE: 10/9/85 QA/QC'd:

PARAMETER	RT	RESPONSE	DAILY STANDARD RESPONSE	CONC (ug/L)
CHLOROMETHANE		not	analyzed	
BROMOMETHANE		not	analyzed	
VINYL CHLORIDE		not	analyzed	
CHLOROETHANE		not	analyzed	
METHYLENE CHLORIDE	4.69	19530		
TRICHLOROFLUOROMETHANE		not	analyzed	
1,1-DICHLOROETHENE	6.87	30910		
1,1-DICHLOROETHANE	8.09	34370		
TRANS-1,2-DICHLOROETHENE	8.72	34380		
CHLOROFORM	9.38	12850		
1,2-DICHLOROETHANE	10.04	29490		
1,1,1-TRICHLOROETHANE	11.23	25030		
CARBON TETRACHLORIDE	11.61	9446		
BROMODICHLOROMETHANE	12.23	11270		
1,2-DICHLOROPROPANE	13.43	46880		
TRANS-1,3-DICHLOROPROPENE	13.72	17740		
TRICHLOROETHENE	14.24	27720		
BENZENE	14.65	129600		
*DIBROMOCHLOROMETHANE				
*1,1,2-TRICHLOROETHANE	14.99	78600		
*CIS-1,3-DICHLOROPROPENE				
2-CHLOROETHYLVINYL ETHER	—	not	analyzed	
BROMOFORM	17.64	16636		
#1,1,2,2-TETRACHLOROETHANE	19.86	32430		
#TETRACHLOROETHENE				
TOLUENE	21.04	130700		
CHLOROBENZENE	22.21	92900		
ETHYL BENZENE	24.29	130500		
1,3-DICHLOROBENZENE		not	analyzed	
1,2-DICHLOROBENZENE		not	analyzed	
1,4-DICHLOROBENZENE		not	analyzed	

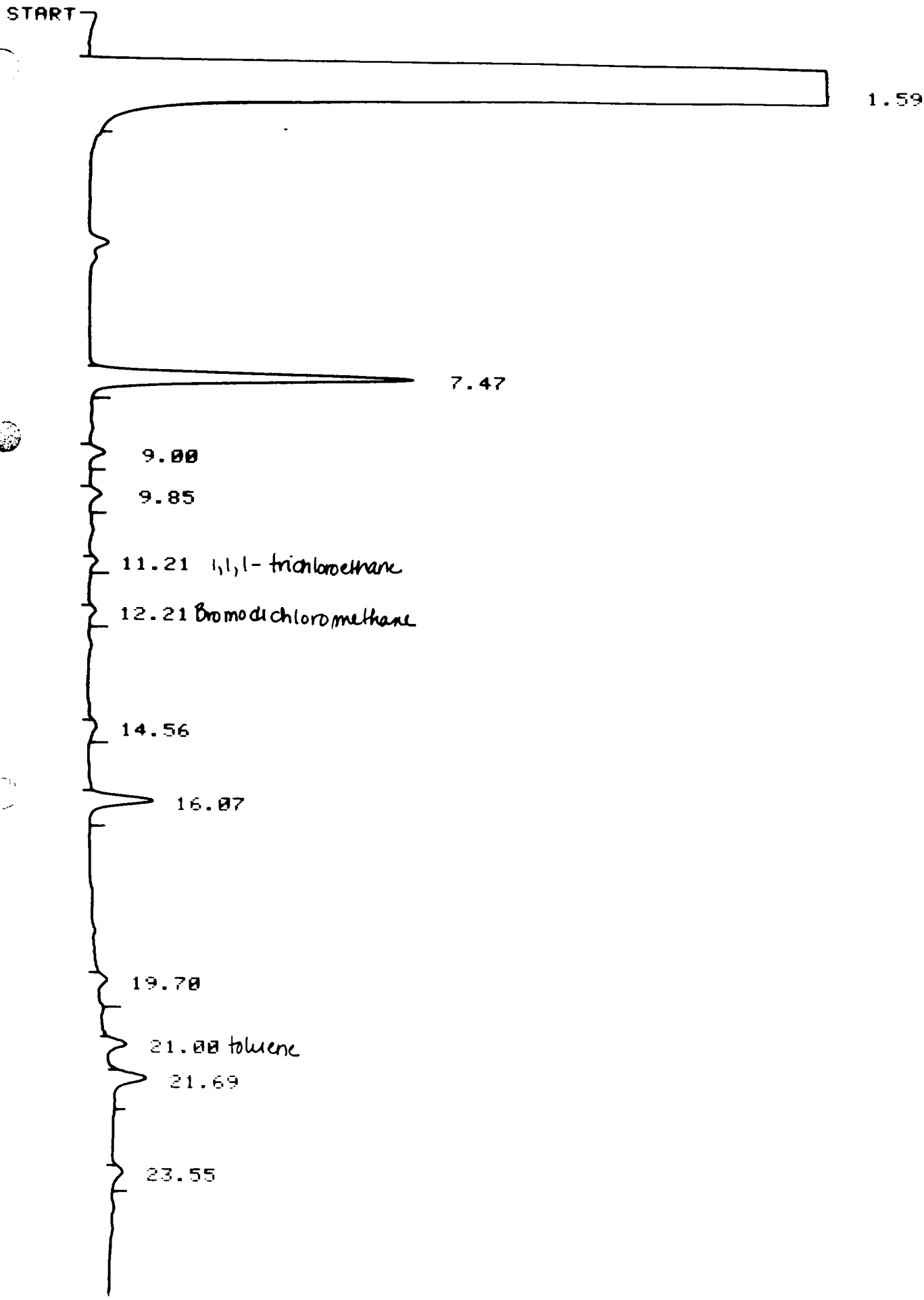
*&#: coeluting compounds

INTERNAL STANDARD RECOVERY

BROMOCHLOROMETHANE	7.46	10450	99.3 %	

Column conditions: Carbopak B (60/80 mesh) coated with 1% SP-1000 in a 6' x 2 mm ID glass column with He carrier at 30 ml/min., at 60°C for 3 min., then programmed at 8°C per min. to 220°C and held.

Checked


START
1.59
7.47
9.00
9.85
11.21 1,1,1-trichloroethane
12.21 Bromodichloromethane
14.56
16.07
19.70
21.00 toluene
21.69
23.55

STOP

HP RUN # 214 OCT/09/85 TIME 16:55:41
D:111061
STD

RT	EXP RT	AREA	CAL #	AMT
7.47	7.60	10520	2	100.960
9.00	8.88	433	4	0.638
11.21	11.40	122	7	0.252
12.21	12.39	124	9	0.561
14.56	14.42	267	12	0.492
19.70	20.06	278	16	0.426
21.00	21.23	656	17	0.253

UIL FACTOR: 1.0000 E+ 0

TEMP1	400	60	131
TIME1	3.00		
RATE	8.00		
TEMP2	400	210	
TIME2	45.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200

CHT SPD	1.00	
ZERO	10.0	
ATTN 2↑	4	
FID SGNL	A	
SLP SENS	0.15	
AREA REJ		0
FLOW A	0.0	28.9
FLOW B	0.0	27.3

P RUN # 214 OCT/09/85 TIME 16:55:41
D:111061
AREA %

RT	AREA	AREA %
1.59	396700	96.021
7.47	10520	2.546

11.21	122	0.030
12.21	124	0.030
14.56	267	0.065
16.07	2013	0.487
19.70	278	0.067
21.00	656	0.159
21.69	1376	0.333
23.55	312	0.076

DIL FACTOR: 1.0000 E+ 0

CALIB ESTD
% RTW: 5

	RT	AMT
REF:	7 . 4 7	: 1 0 0

DIL FACTOR: 1

READY

SUPELCO, INC., ...ofonte, PA Cat. No. 2-2887 (pad); Cat. No. 2-2888 (box of 10 pads)

Detection Limit = 1.98 ppm (mg/g)
Dilution factor = 1980.2

PURGEABLES - Method 624 (modification for GC/FID)

5ml/10ml x 10.1g/10ml

SAMPLE ID: US Scrap STA-02 STANDARD ID: 50 ppb A+B

DATE: 10/9/85 QA/QC'd:

PARAMETER	RT	RESPONSE	DAILY STANDARD RESPONSE	CONC (ug/L)
CHLOROMETHANE		not	analyzed	
BROMOMETHANE		not	analyzed	
VINYL CHLORIDE		not	analyzed	
CHLOROETHANE		not	analyzed	
METHYLENE CHLORIDE	4.71	2173		ND
TRICHLOROFLUOROMETHANE		not	analyzed	
1,1-DICHLOROETHENE				
1,1-DICHLOROETHANE				
TRANS-1,2-DICHLOROETHENE				
CHLOROFORM				
1,2-DICHLOROETHANE				
1,1,1-TRICHLOROETHANE	11.27	149		ND
CARBON TETRACHLORIDE				
BROMODICHLOROMETHANE	12.24	431		ND
1,2-DICHLOROPROPANE				
TRANS-1,3-DICHLOROPROPENE				
TRICHLOROETHENE				
BENZENE				
*DIBROMOCHLOROMETHANE				
*1,1,2-TRICHLOROETHANE				
*CIS-1,3-DICHLOROPROPENE				
2-CHLOROETHYL ETHER		not	analyzed	
BROMOFORM				
#1,1,2,2-TETRACHLOROETHANE				
#TETRACHLOROETHENE				
TOLUENE	21.08	1077		ND
CHLOROBENZENE				
ETHYL BENZENE	24.32	2081	130500	.80 1.58 mg/g
1,3-DICHLOROBENZENE		not	analyzed	
1,2-DICHLOROBENZENE		not	analyzed	
1,4-DICHLOROBENZENE		not	analyzed	

*&#: coeluting compounds

ND - all these hits are less than or equal to the TS Blank

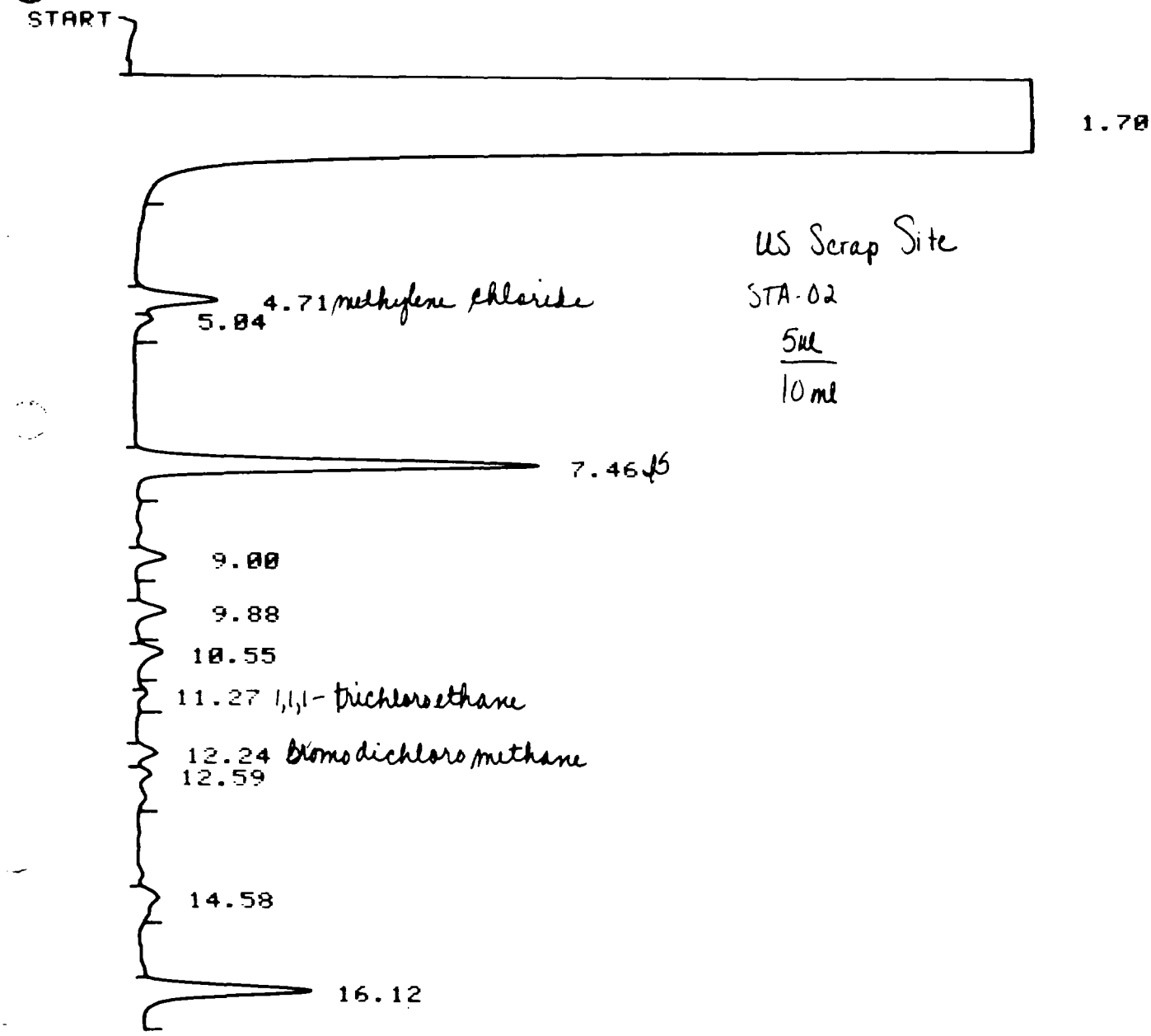
INTERNAL STANDARD RECOVERY

BROMOCHLOROMETHANE	7.46	11200	106.5 %	

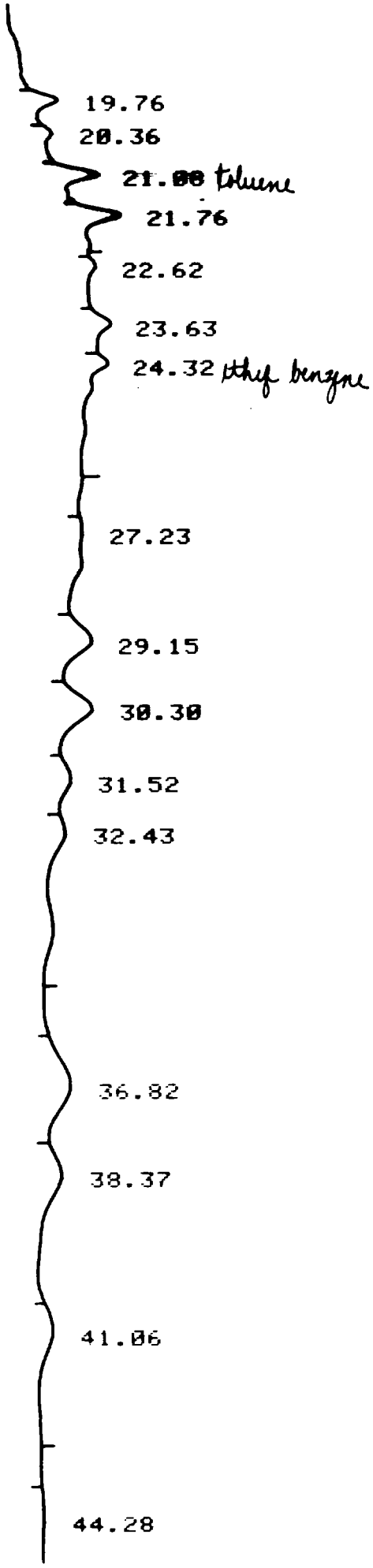
Column conditions: Carbopak B (60/80 mesh) coated with 1% SP-1000 in a 6' x 2 mm ID glass column with He carrier at 30 ml/min., at 60°C for 3 min., then programmed at 8°C per min. to 220°C and held.

12.23	11270	0.668
13.43	46880	2.781
13.72	17740	1.052
14.24	27720	1.644
14.65	129600	7.687
14.99	78600	4.662
16.03	33020	1.958
16.91	813	0.048
17.64	4636	0.275
18.98	284	0.017
19.86	32430	1.923
20.22	1068	0.063
20.71	869	0.052
21.04	130700	7.752
21.72	1821	0.108
22.21	92900	5.510
23.58	465	0.028
24.29	130500	7.740
27.51	349	0.021
29.10	2065	0.122
30.23	1672	0.099

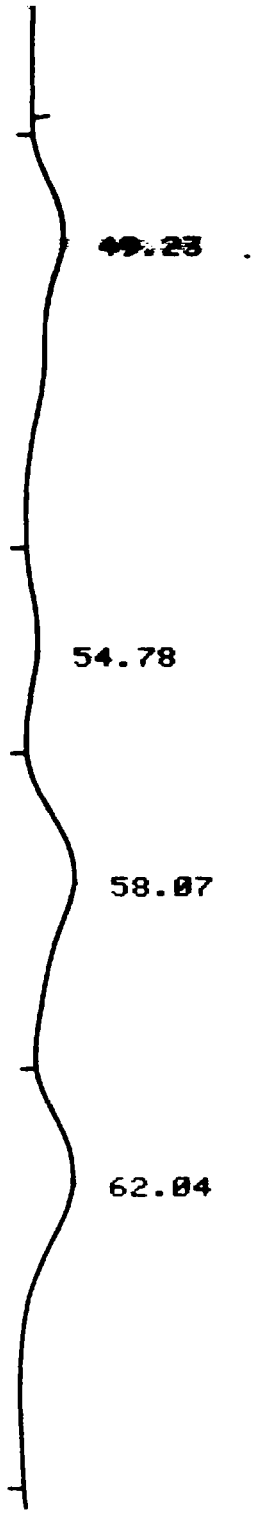
DIL FACTOR: 1.0000 E+ 0



© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2867 (pad); Cat. No. 2-2868 Box of 10 pads)



© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (end); Cat. No. 2-2888 Box of 10 (side)



HP RUN # 216 OCT/09/85 TIME 18:28:40
ID:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
7.46	7.47	11200	IRI 1	106.464

IL FACTOR: 1.0000 E+ 0

TEMP1 400 60 166
TIME1 3.00

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TIME2 [illegible]

INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200

CHT SPD	1.00
ZERO	10.0
ATTN 2↑	4
FID SGNL	A
SLP SENS	0.15
AREA REJ	0
FLOW A	0.0 28.9
FLOW B	0.0 24.6

HP RUN # 216 OCT/09/85 TIME 18:28:40
ID:111061
AREA %

RT	AREA	AREA %
1.70	901600	91.247
4.71	2173	0.220
5.04	418	0.042
7.46	11200	1.134
9.00	680	0.069
9.88	727	0.074
10.55	671	0.068
11.27	149	0.015
12.24	431	0.044
12.59	553	0.056
14.58	687	0.070
16.12	4569	0.462
19.76	812	0.082
20.36	291	0.029
21.08	1077	0.109
21.76	1473	0.149
22.62	263	0.027
23.63	1344	0.136
24.32	2081	0.211
27.23	1111	0.112
29.15	2078	0.210
30.30	2491	0.252
31.52	1299	0.131
32.43	1653	0.167
36.82	4381	0.443
38.37	3054	0.309
41.06	1990	0.201
44.28	1083	0.110
49.23	8898	0.901
54.78	2467	0.250
58.07	13580	1.374
62.04	12800	1.295

DIL FACTOR: 1.0000 E+ 0

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PURGEABLES - Method 624 (modification for GC/FID)

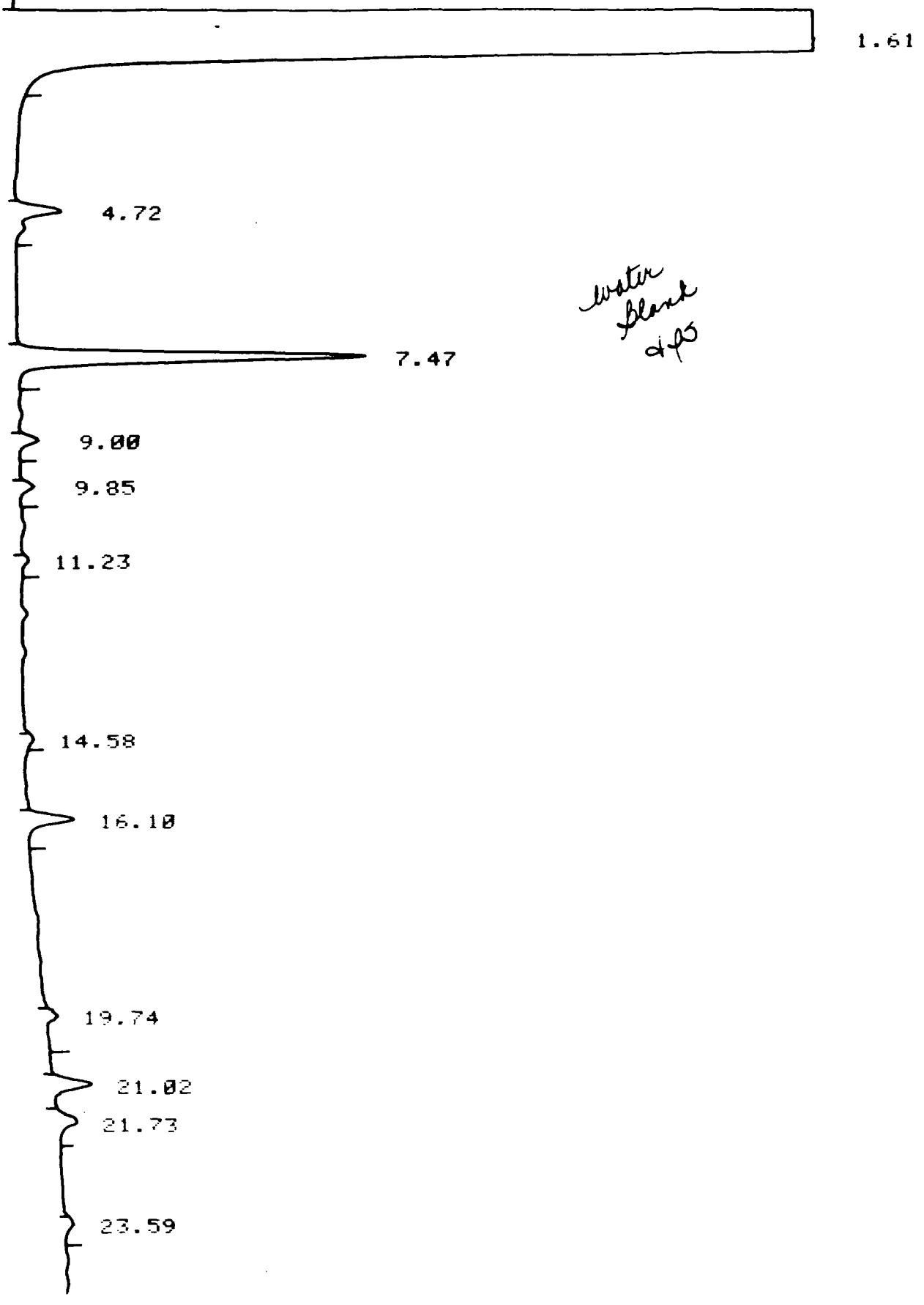
SAMPLE ID: _____ STANDARD ID: 50 PPB A+B

DATE: 10/10/85 QA/QC'd: _____

PARAMETER	RT	RESPONSE	DAILY STANDARD RESPONSE	CONC (ug/L)
CHLOROMETHANE		not	analyzed	
BROMOMETHANE		not	analyzed	
VINYL CHLORIDE		not	analyzed	
CHLOROETHANE		not	analyzed	
METHYLENE CHLORIDE	4.71	18070		
TRICHLOROFLUOROMETHANE	—	not	analyzed	
1,1-DICHLOROETHENE	6.88	28800		
1,1-DICHLOROETHANE	8.09	33310		
TRANS-1,2-DICHLOROETHENE	8.72	32960		
CHLOROFORM	9.38	12620		
1,2-DICHLOROETHANE	10.04	29830		
1,1,1-TRICHLOROETHANE	11.23	24270		
CARBON TETRACHLORIDE	11.60	9178		
BROMODICHLOROMETHANE	12.22	17100		
1,2-DICHLOROPROPANE	13.43	46920		
TRANS-1,3-DICHLOROPROPENE	13.72	18090		
TRICHLOROETHENE	14.24	27300		
BENZENE	14.65	125800		
*DIBROMOCHLOROMETHANE	14.99	80540		
*1,1,2-TRICHLOROETHANE	—	—		
*CIS-1,3-DICHLOROPROPENE	—	—		
2-CHLOROETHYLVINYL ETHER	—	not	analyzed	
BROMOFORM	17.64	4969		
#1,1,2,2-TETRACHLOROETHANE	19.86	} 34180		
#TETRACHLOROETHENE				
TOLUENE	21.03	129500		
CHLOROBENZENE	22.20	93620		
ETHYL BENZENE	24.26	129300		
1,3-DICHLOROBENZENE		not	analyzed	
1,2-DICHLOROBENZENE		not	analyzed	
1,4-DICHLOROBENZENE		not	analyzed	
*&#: coeluting compounds				
INTERNAL STANDARD RECOVERY				
BROMOCHLOROMETHANE	7.47	11020	101.6 %	

Column conditions: Carbopak B (60/80 mesh) coated with 1% SP-1000 in a 6' x 2 mm ID glass column with He carrier at 30 ml/min., at 60°C for 3 min., then programmed at 8°C per min. to 220°C and held.

TEMP1 400 60 61
SLP SENS . 1 @
SLP SENS . 1 5 @
START



water blank

STOP

HP RUN # 219 OCT/10/85 TIME 09:03:06
ID:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
7.47	7.44	10900	(R) 1	100.461

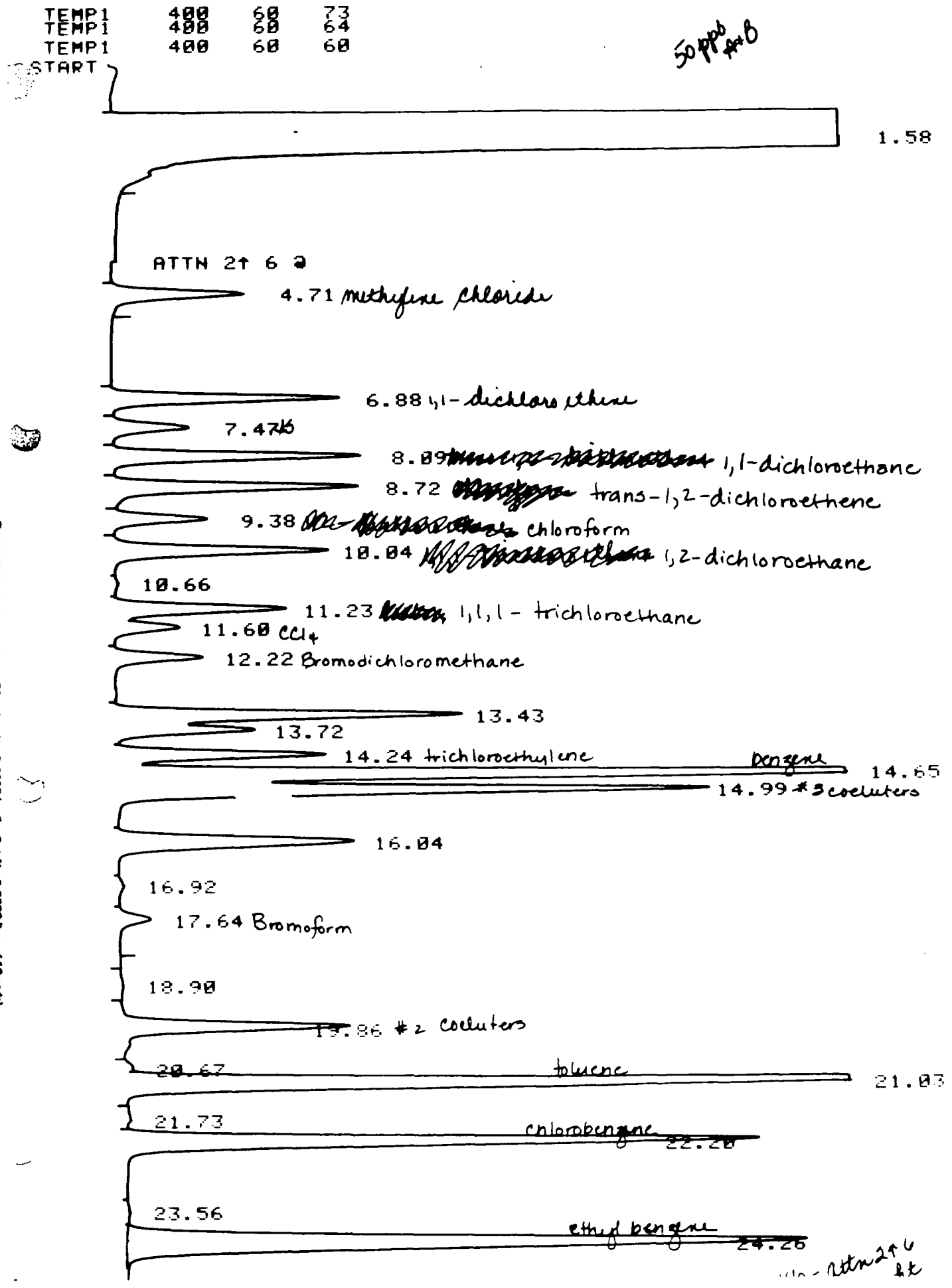
DIL FACTOR: 1.0000 E+ 0

TEMP1	400	60	164
TIME1	3.00		
RATE	8.00		
TEMP2	400	210	
TIME2	15.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200
CHT SPD	1.00		
ZERO	10.0		
ATTN 2↑	4		
FID SGNL	A		
SLP SENS	0.15		
AREA REJ		0	
FLOW A	0.0	29.0	
FLOW B	0.0	25.2	

HP RUN # 219 OCT/10/85 TIME 09:03:06
ID:111061
AREA %

RT	AREA	AREA %
0.13	75	0.017
1.61	433900	96.094
4.72	1583	0.351
7.47	10900	2.414
9.00	491	0.109
9.85	362	0.080
11.23	114	0.025
14.58	224	0.050
16.10	1342	0.297
19.74	317	0.070
21.02	1137	0.252
21.73	795	0.176
23.59	299	0.066

DIL FACTOR: 1.0000 E+ 0



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TIME 0.0

STOP T2 6.86

HP RUN # 220 OCT/10/85 TIME 09:48:18
ID:111061
STD

RT	EXP RT	AREA	CAL #	AMT
7.47	7.44	11020	(R) 1	101.567

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	60	164
TIME1	3.00		
RATE	8.00		
TEMP2	400	210	
TIME2	8.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200

CHT SPD	1.00	
ZERO	10.0	
ATTN 2↑	6	
FID SGNL	A	
SLP SENS	0.15	
AREA REJ		0
FLOW A	0.0	29.0
FLOW B	0.0	25.3

HP RUN # 220 OCT/10/85 TIME 09:48:18
ID:111061
AREA %

RT	AREA	AREA %
1.58	740200	43.788
4.71	18070	1.069
6.88	28800	1.704
7.47	11020	0.652
8.09	33310	1.971
8.72	32960	1.950
9.38	12620	0.747
10.04	29830	1.765
10.66	960	0.057
11.23	24270	1.436
11.60	9178	0.543
12.22	12100	0.716
13.43	46920	2.776
13.72	18090	1.070
14.24	27300	1.615
14.65	125800	7.442
14.99	80540	4.765
16.04	40190	2.378
16.92	1066	0.063
17.64	4969	0.294
18.90	463	0.027
19.86	34180	2.022
20.67	1421	0.084
21.03	129500	7.661

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```
 23.56          1343        0.091
 24.26        129300        7.649

DIL FACTOR: 1.0000 E+ 0


CALIB ESTD
 % RTW: 4

        RT                    AMT
 REF: 4 . 7 1              : 5 0
    : 6 . 8 8              : 5 0
    : 7 . 4 7              : 1 0 0
    : 9
?
 DIL FACTOR: 1

READY
CALIB ESTD
 % RTW: 4

        RT                    AMT
 REF: 4 . 7 1              : 5 0
    : 6 . 8 8              : 5 0
    : 7 . 4 7              : 1 0 0
    : 8 . 0 9              : 5 0
    : 8 . 7 2              : 5 0
    : 9 . 3 8              : 5 0
    : 1 0 . 0 4            : 5 0
    : 1 1 . 2 3            : 5 0
    : 1 . 6 0
? 1 1 . 6 0                : 5 0
    : 1 2 . 2 2            : 5 0
    : 1 3 . 4 3            : 5 0
    : 1 3 . 7 2            : 5 0
    : 1 4 . 2 4            : 5 0
    : 1 4 . 6 5            : 5 0
    : 1 4 . 9 9            : 5 0
    : 1 7 . 6 4            : 5 0
    : 1 9 . 8 6            : 5 0
    : 2 1 . 0 3            : 5 0
    : 2 2 . 2 0            : 5 0
    : 2 4 . 2 6            : 5 0
    :
 DIL FACTOR: 1 . 0
```

© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (cad) Cat. No. 2-2888 (box of 10 pads)

Dilution Factor = 198.0
Detection limit = 198 ng/g

US SCRAP SITE

PURGEABLES - Method 624 (modification for GC/FID)

5ul/10ml

SAMPLE ID: STA-02 STANDARD ID: 50 ppb A+B + IS

DATE: 10/10/85 QA/QC'd:

Blanks contain ~ 4.4 ppb Methylene Chloride

PARAMETER	RT	RESPONSE	DAILY STANDARD RESPONSE	CONC (ug/L)	
CHLOROMETHANE		not	analyzed		
BROMOMETHANE		not	analyzed		3.26
VINYL CHLORIDE		not	analyzed		
CHLOROETHANE		not	analyzed		
METHYLENE CHLORIDE	4.71	7544	18070	16.47	
TRICHLOROFLUOROMETHANE	—	not	analyzed		
1,1-DICHLOROETHENE	6.81	248	28800	.43	.085 ug
1,1-DICHLOROETHANE					
TRANS-1,2-DICHLOROETHENE					
CHLOROFORM					
1,2-DICHLOROETHANE					
1,1,1-TRICHLOROETHANE	11.24	655	24270	1.35	.27 ug
CARBON TETRACHLORIDE					
BROMODICHLOROMETHANE	12.24	902	12100	ND ~~3.73~~	
1,2-DICHLOROPROPANE					
TRANS-1,3-DICHLOROPROPENE					
TRICHLOROETHENE	14.21	393	27300	ND ~~.72~~	.14 ug/c
BENZENE	14.62	3343	125800	ND	.20 ug
*DIBROMOCHLOROMETHANE					
*1,1,2-TRICHLOROETHANE					
*CIS-1,3-DICHLOROPROPENE					
2-CHLOROETHYLVINYL ETHER		not	analyzed		
BROMOFORM					
#1,1,2,2-TETRACHLOROETHANE					
#TETRACHLOROETHENE					.72
TOLUENE	21.04	12530	129500	3.62	ug/c
CHLOROBENZENE					
ETHYL BENZENE	24.27	12680	129300 (pkht=	4.90 (2.5)	
1,3-DICHLOROBENZENE		not (29) pkht	analyzed 560)		.80 ug
1,2-DICHLOROBENZENE		not	analyzed		.47
1,4-DICHLOROBENZENE		not	analyzed		

pkht's normalized to attn 274 →

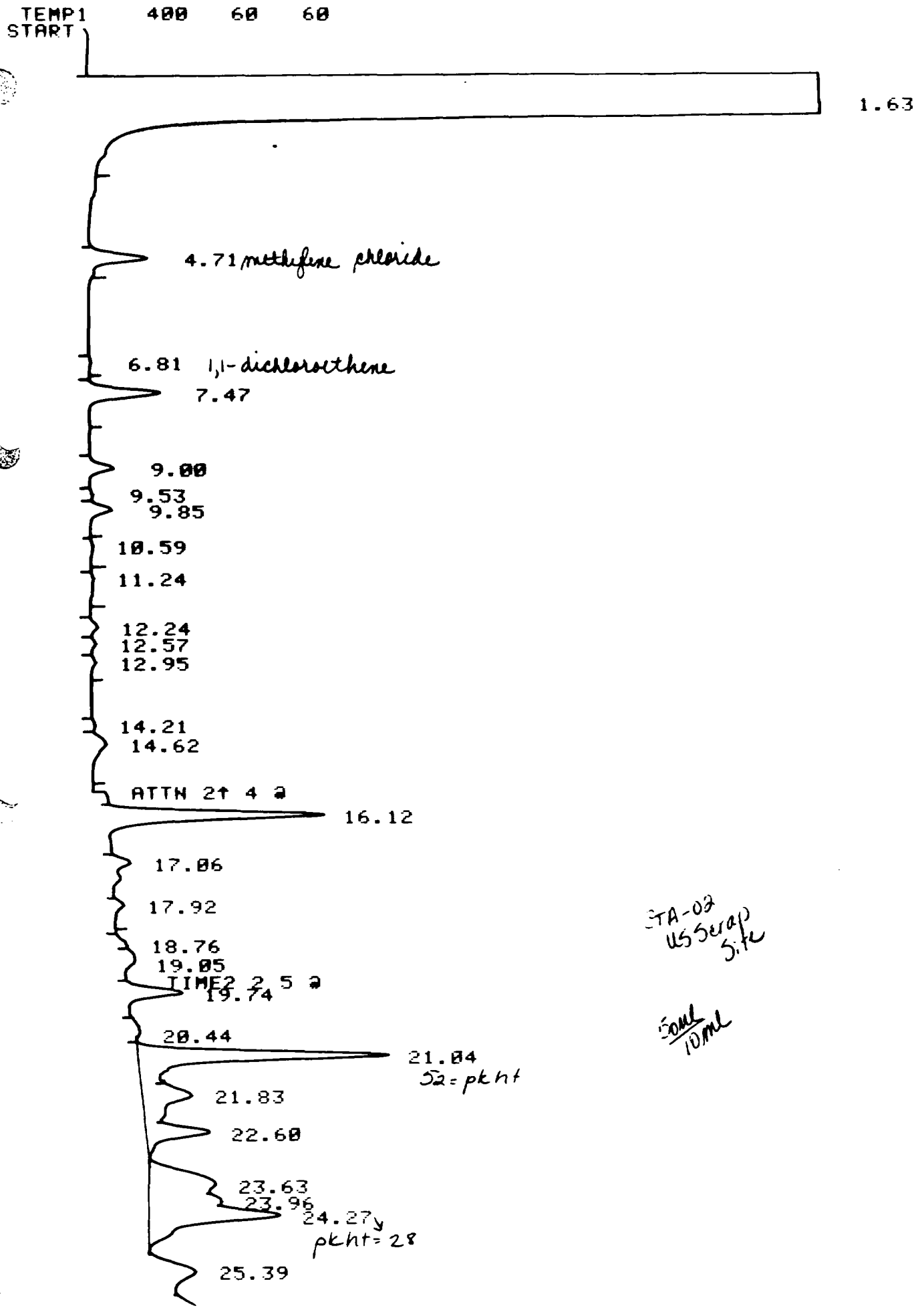
*&#: coeluting compounds

INTERNAL STANDARD RECOVERY

BROMOCHLOROMETHANE	7.47	9826	90.1 %	

Column conditions: Carbopak B (60/80 mesh) coated with 1% SP-1000 in a 6' x 2 mm ID glass column with He carrier at 30 ml/min., at 60°C for 3 min., then programmed at 8°C per min. to 220°C and held.

Check: JB



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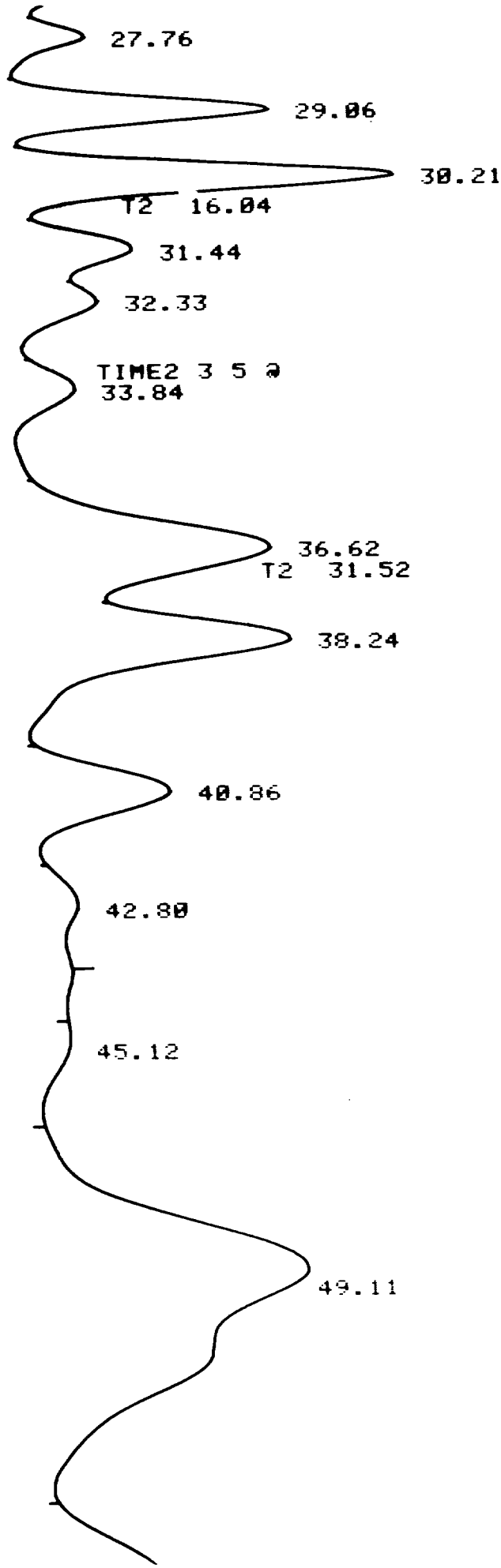

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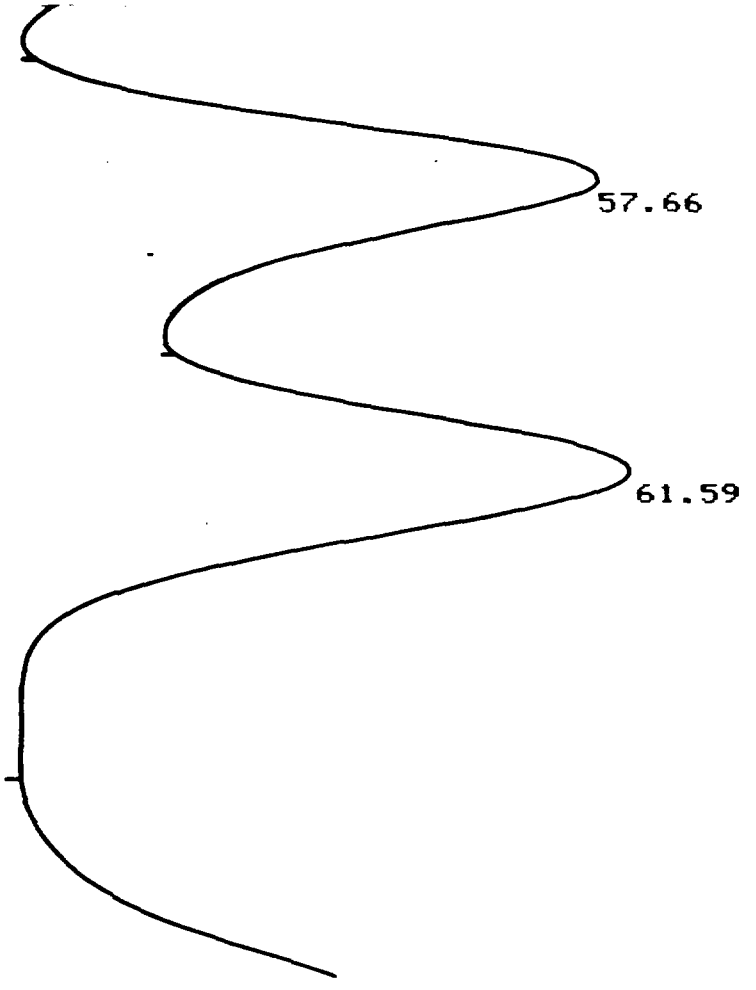

iP RUN # 221 OCT/10/85 TIME 10:25:47
ID:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
4.71	4.71	7544	(R) 1	20.874
6.81	6.88	248	2	0.431
7.47	7.47	9826	3	89.165
9.53	9.38	344	6	1.363
9.85	10.04	2985	7	5.003
11.24	11.23	655	8	1.349
12.24	12.22	902	10	3.727
14.21	14.24	393	13	0.720
14.62	14.65	3343	14	1.329
17.92	17.64	393	16	3.955
19.74	19.86	3017	17	4.413
21.04	21.03	12530	18	4.838
21.83	22.20	7994	19	4.269
24.27	24.26	12680	20	4.903

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	60	106
TIME1	3.00		
RATE	8.00		
TEMP2	400	210	
TIME2	35.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250

CHT SPD	1.00	
ZERO	10.0	
ATTN 2↑	4	
FID SGNL	A	
SLP SENS	0.15	
AREA REJ		0
FLOW A	0.0	29.0
FLOW B	0.0	30.0

HP RUN # 221 OCT/10/85 TIME 10:25:47
ID:111061
AREA %

RT	AREA	AREA %
1.63	3060000	79.655
4.71	7544	0.196
6.81	248	0.006
7.47	9826	0.256
9.00	3181	0.083
9.53	344	0.009
9.85	2985	0.078
10.59	402	0.010
11.24	655	0.017
12.24	902	0.023
12.57	626	0.016
12.95	758	0.020
14.21	393	0.010
14.62	3343	0.087
16.12	7442	0.194
17.06	1147	0.030
17.92	393	0.010
18.76	268	0.007
19.05	1257	0.033
19.74	3017	0.079
20.44	2025	0.053
21.04	12530	0.326
21.83	7994	0.208
22.60	6444	0.168
23.63	7940	0.207
23.96	4377	0.114
24.27	12680	0.330
25.39	8030	0.209
26.29	10630	0.277
27.00	11440	0.298
27.76	13340	0.347
29.06	28040	0.730
30.21	39590	1.031
31.44	20710	0.539
32.33	17820	0.464
33.84	16320	0.425
36.62	53010	1.380
38.24	41770	1.087
40.86	18060	0.470
42.80	2513	0.065
45.12	1236	0.032
49.11	100200	2.608
54.35	22140	0.576
57.66	129300	3.366
61.59	148700	3.871

DIL FACTOR: 1.0000 E+ 0

START 0.10

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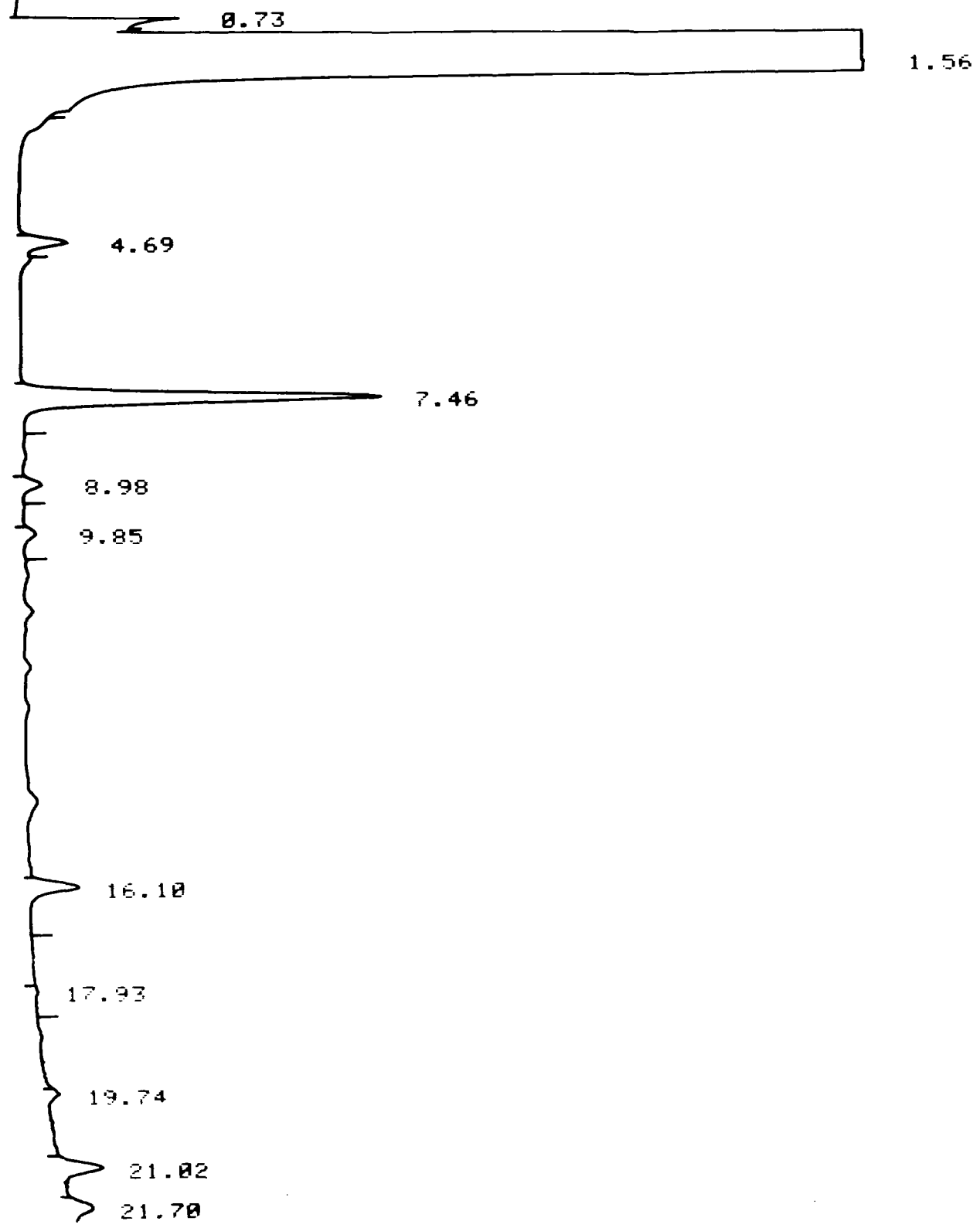
TEMP1 400 60 150
TEMP1 400 60 109
TEMP1 400 60 60
TIME2 35.00
TEMP2 400 210
START



23.55

25.83 peak time

STOP T2 28.53

HP RUN # 226 OCT/10/85 TIME 15:29:42
ID:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
4.69	4.71	957	(R) 1	2.648
7.46	7.43	10650	3	96.643
9.85	9.99	301	7	0.505
19.74	19.77	295	17	0.432
21.02	20.94	1202	18	0.464
21.70	22.10	1124	19	0.600

DIL FACTOR: 1.0000 E+ 0

TEMP1 400 60 133
ESCAPE

SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (pad); Cat. No. 2-2888 (box of 10 pads)

Dilution = 2000x

US SCRAP SITE

PURGEABLES - Method 624 (modification for GC/FID)

SAMPLE ID: Sta 03 - 5ml/10ml (10g/10ml) STANDARD ID: 50 ppb - B5

DATE: 10/11/85 QA/QC'd:

Blanks contain ~ 4.4 ppb Methylene Chloride

PARAMETER	RT	RESPONSE	DAILY STANDARD RESPONSE	CONC (ug/L)	
CHLOROMETHANE		not	analyzed		
BROMOMETHANE		not	analyzed		
VINYL CHLORIDE		not	analyzed		
CHLOROETHANE		not	analyzed		
METHYLENE CHLORIDE	4.69	954	18070	2.64 (ND)	
TRICHLOROFLUOROMETHANE		not	analyzed		
1,1-DICHLOROETHENE					
1,1-DICHLOROETHANE					
TRANS-1,2-DICHLOROETHENE					
CHLOROFORM					
1,2-DICHLOROETHANE					
1,1,1-TRICHLOROETHANE					
CARBON TETRACHLORIDE					
BROMODICHLOROMETHANE	12.30	1097	12100	4.53	9.06 ug/g
1,2-DICHLOROPROPANE					
TRANS-1,3-DICHLOROPROPENE					
TRICHLOROETHENE					
BENZENE					
*DIBROMOCHLOROMETHANE					
*1,1,2-TRICHLOROETHANE					
*CIS-1,3-DICHLOROPROPENE					
2-CHLOROETHYLVINYL ETHER		not	analyzed		
BROMOFORM	17.68	560	4969	5.63	11.3 ug/g
#1,1,2,2-TETRACHLOROETHANE					
#TETRACHLOROETHENE					
TOLUENE	21.00	5070	129500	1.96	3.9 ug/g
CHLOROBENZENE					
ETHYL BENZENE					
1,3-DICHLOROBENZENE		not	analyzed		
1,2-DICHLOROBENZENE		not	analyzed		
1,4-DICHLOROBENZENE		not	analyzed		

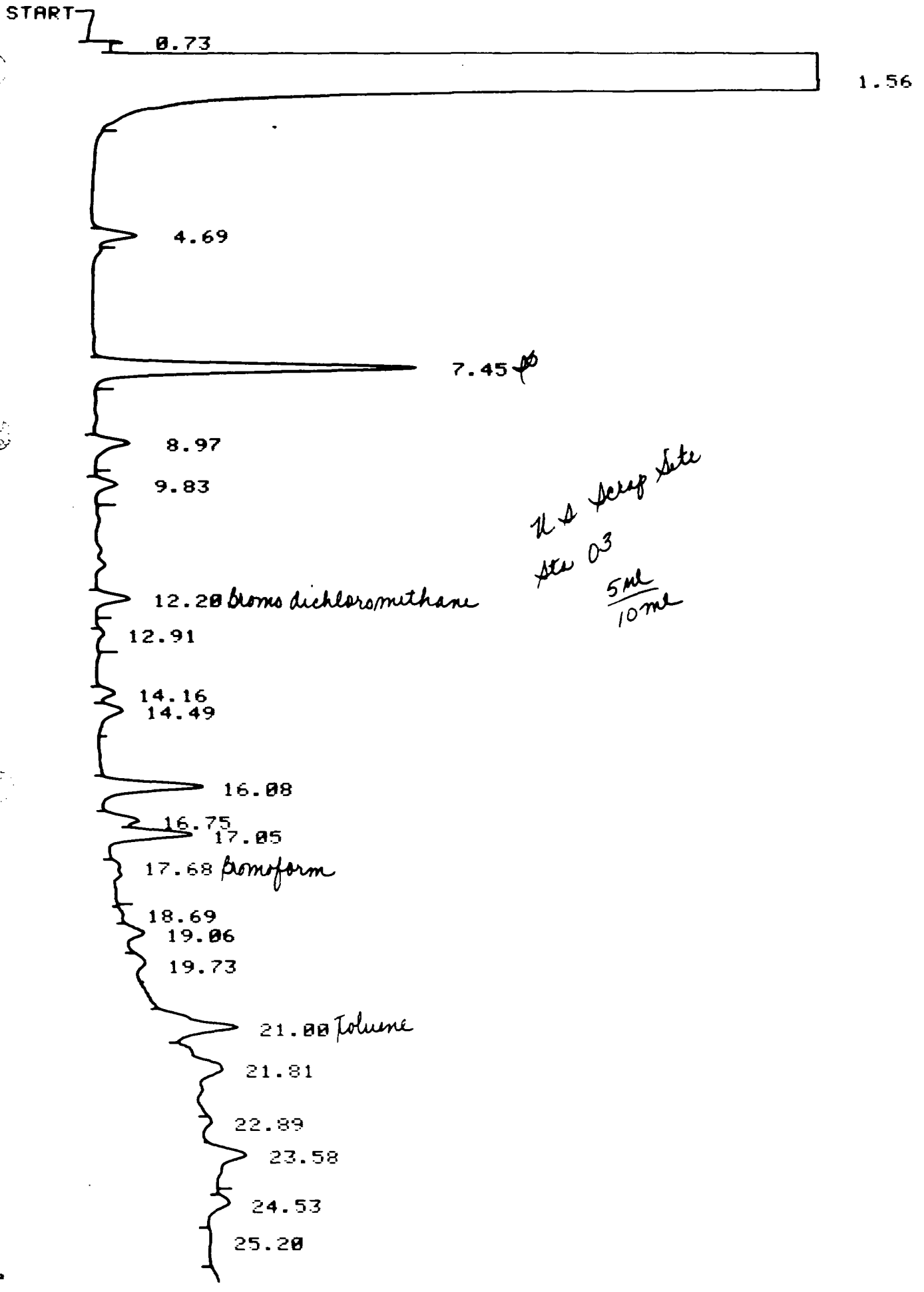
*&#: coeluting compounds

INTERNAL STANDARD RECOVERY

BROMOCHLOROMETHANE	7.45	10700	97.1 %	

Column conditions: Carbopak B (60/80 mesh) coated with 1% SP-1000 in a 6' x 2 mm ID glass column with He carrier at 30 ml/min., at 60°C for 3 min., then programmed at 8°C per min. to 220°C and held.

Checked



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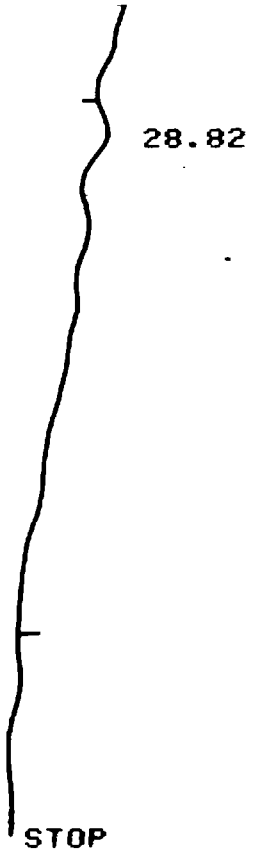


STA-03

HP RUN # 227 OCT/10/85 TIME 16:10:14
ID:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
4.69	4.71	954	(R) 1	2.640
7.45	7.43	10700	3	97.096
9.83	9.99	706	7	1.183
12.20	12.16	1097	10	4.533
14.16	14.17	512	13	0.938
14.49	14.58	1055	14	0.419
17.68	17.56	560	16	5.635
19.73	19.77	633	17	0.926
21.00	20.94	5070	18	1.958
21.81	22.10	5784	19	3.089
24.53	24.15	644	20	0.249

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	60	115
TIME1	3.00		
RATE	8.00		
TEMP2	400	210	
TIME2	35.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200

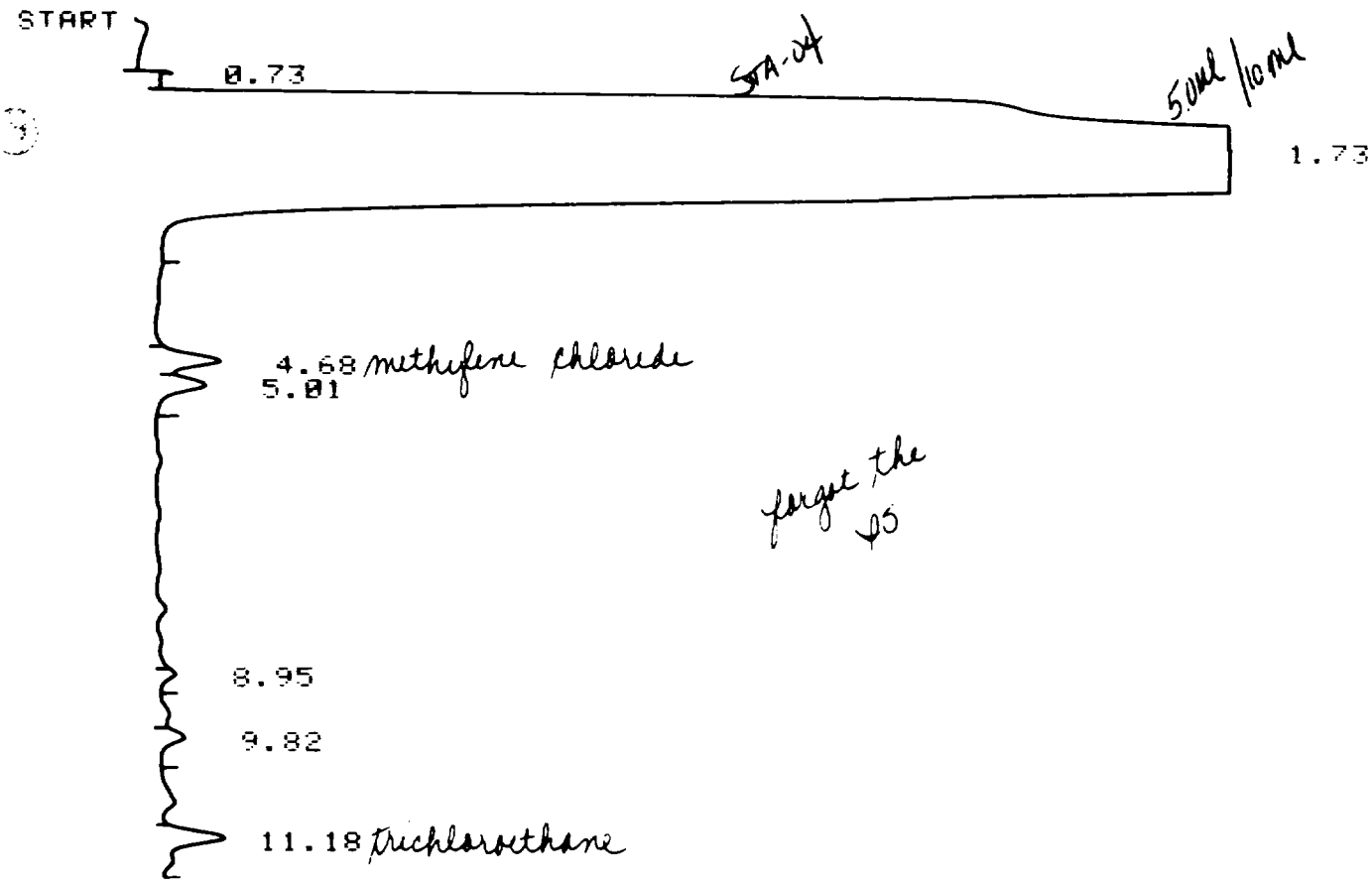
CHT SPD 1.00
ZERO 10.0
ATTN 2↑ 4
FID SGNL A
SLP SENS 0.15
AREA REJ 0

© SUPPLCO INC., Bellefonte, PA Cat. No. 2-2887 (and): Cat. No. 2-2888 (box of 10 pads)

HP RUN # 227 OCT/10/85 TIME 16:10:14
ID:111061
AREA %

RT	AREA	AREA %
0.73	45	0.005
1.56	825200	93.618
4.69	954	0.108
7.45	10700	1.214
8.97	1286	0.146
9.83	706	0.080
12.20	1097	0.124
12.91	206	0.023
14.16	512	0.058
14.49	1055	0.120
16.08	3414	0.387
16.75	1128	0.128
17.05	3092	0.351
17.68	560	0.064
18.69	116	0.013
19.06	890	0.101
19.73	633	0.072
21.00	5070	0.575
21.81	5784	0.656
22.89	1813	0.206
23.58	2766	0.314
24.53	644	0.073
25.20	355	0.040
26.42	6284	0.713
28.82	7142	0.810

OIL FACTOR: 1.0000 E+ 0



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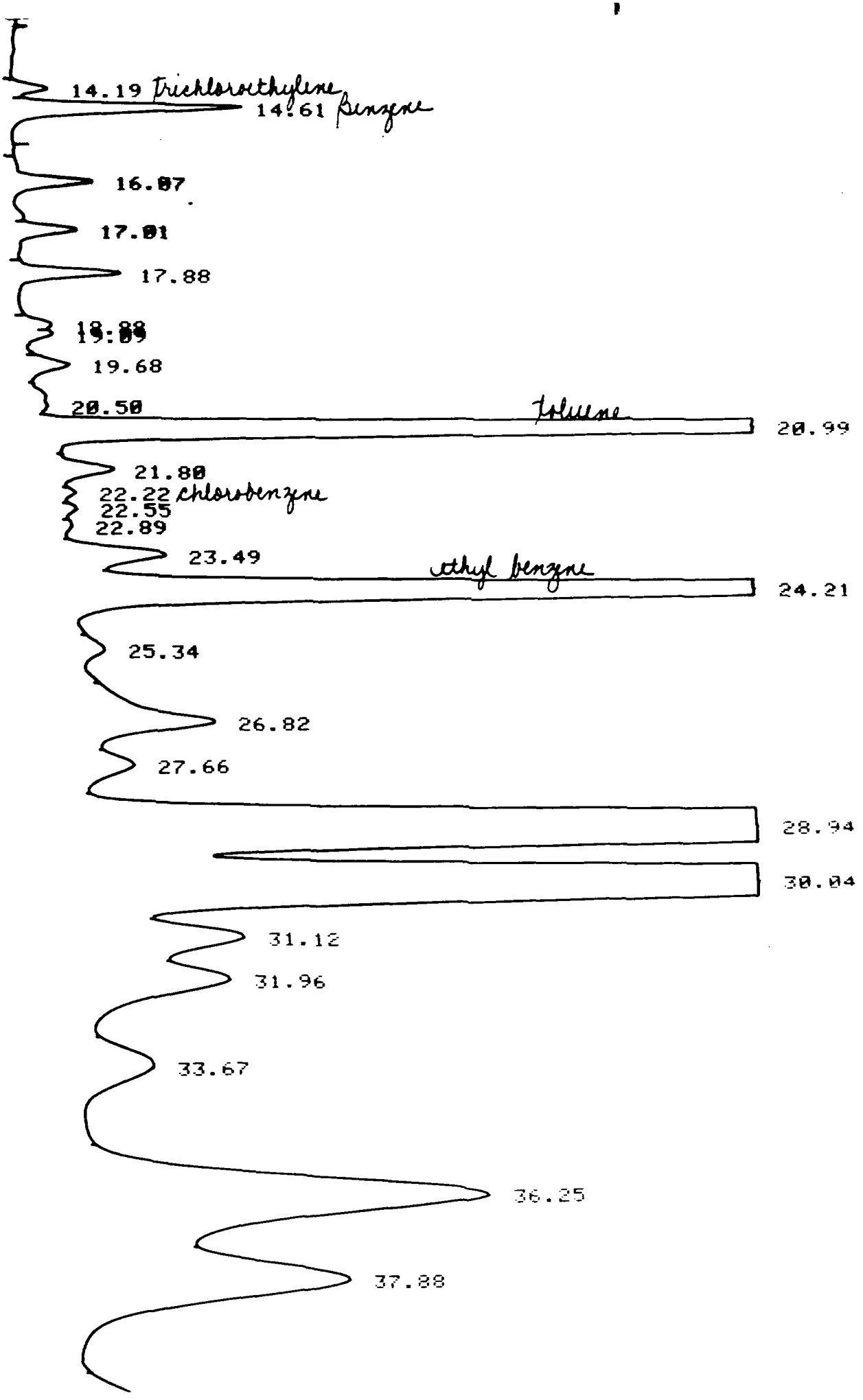
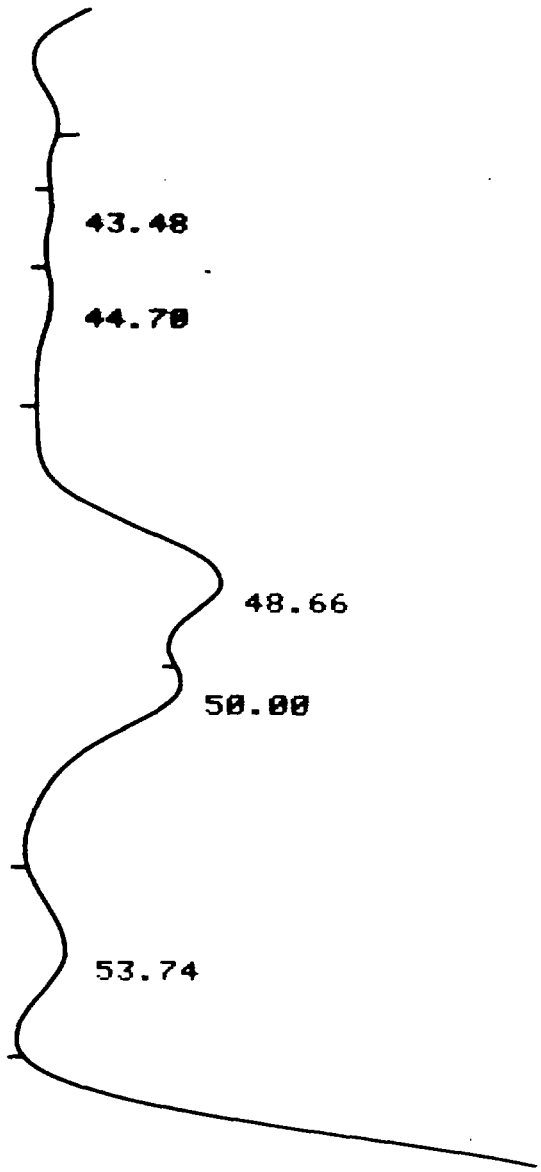


© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (pad): Cat. No. 2-2888 (box of 10 pads)



GP RUN # 228 OCT/10/85 TIME 17:00:47
ID:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
4.68	4.71	1368	(R) 1	3.785
9.82	9.97	357	7	0.598
11.18	11.15	1590	8	3.276
12.16	12.14	453	10	1.872
14.19	14.14	1111	13	2.035
14.61	14.55	8006	14	3.182
19.68	19.73	3572	17	5.225
20.99	20.89	109800	18	42.394
22.22	22.05	1990	19	1.597
24.21	24.10	97240	20	37.603

DIL FACTOR: 1.0000 E+ 0

TEMP1 400 60 118
TIME1 3.00
RATE 8.00
TEMP2 400 210
TIME2 35.00
INJ TEMP 400 215 215

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TCD TEMP	400	250	250
AUX TEMP	400	200	200

CHT SPD	1.00	
ZERO	10.0	
ATTN 2↑	4	
FID SGNL	A	
SLP SENS	0.15	
AREA REJ		0
FLOW A	0.0	29.2
FLOW B	0.0	28.9

HP RUN # 228 OCT/10/85 TIME 17:00:47
ID:111061
AREA %

RT	AREA	AREA %
0.73	24	0.002
1.73	364200	24.861
4.68	1368	0.093
5.01	1185	0.081
8.95	190	0.013
9.82	357	0.024
11.18	1590	0.109
12.16	453	0.031
12.51	1079	0.074
14.19	1111	0.076
14.61	8006	0.546
16.07	2833	0.193
17.01	2898	0.198
17.88	4109	0.280
18.88	1810	0.124
19.09	1481	0.101
19.68	3572	0.244
20.50	2973	0.203
20.99	109800	7.495
21.80	6996	0.478
22.22	2990	0.204
22.55	3157	0.215
22.89	3217	0.220
23.49	11719	0.801
24.21	97240	6.638
25.34	10690	0.730
26.82	30560	2.086

ESCAPE

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PURGEABLES - Method 624 (modification for GC/FID)

SAMPLE ID: _____ STANDARD ID: 50 ppb A+B Std

DATE: 10/11/85 QA/QC'd: _____

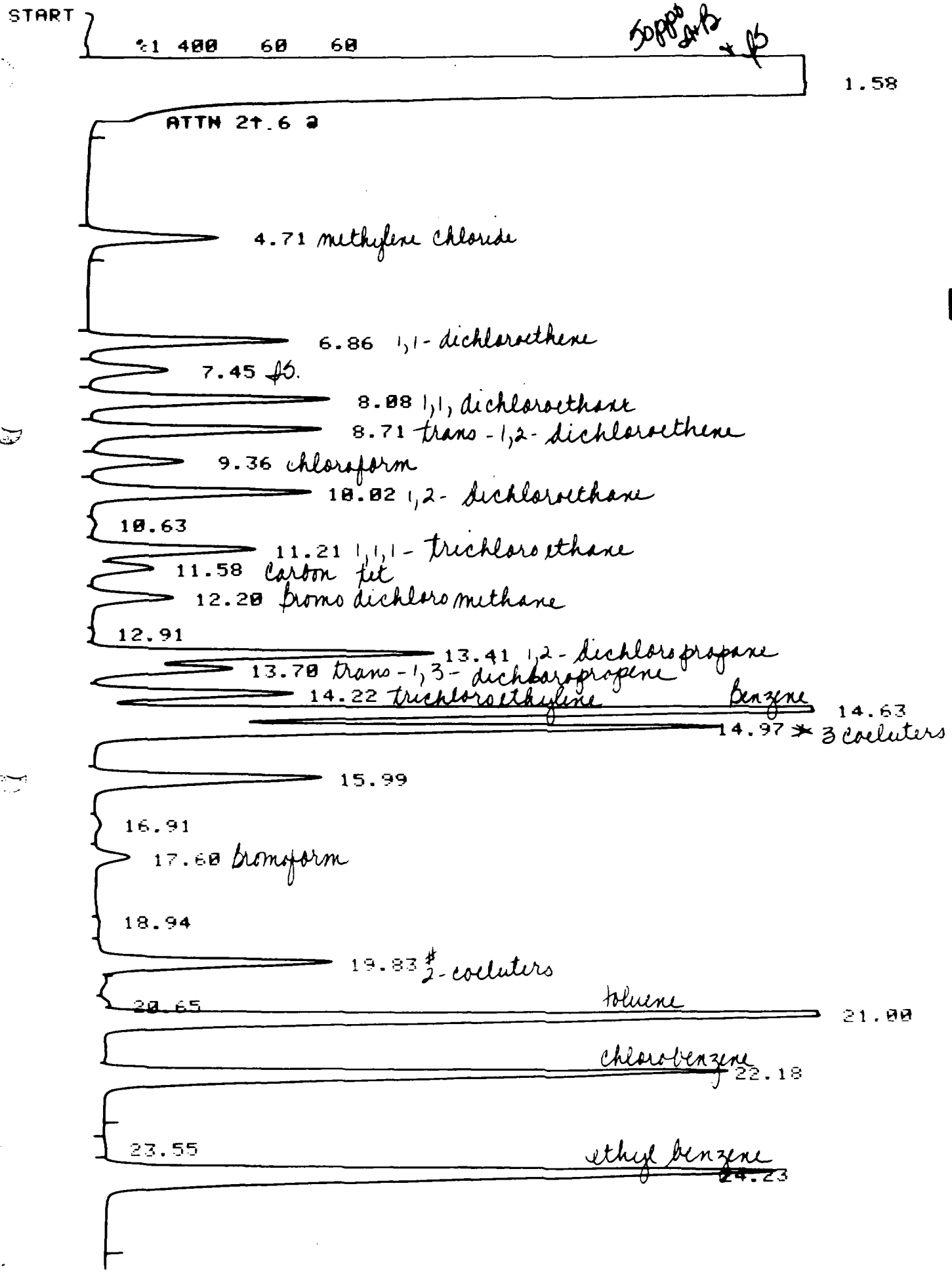
PARAMETER	RT	RESPONSE	DAILY STANDARD RESPONSE	CONC (ug/L)
CHLOROMETHANE		not	analyzed	
BROMOMETHANE		not	analyzed	
VINYL CHLORIDE		not	analyzed	
CHLOROETHANE		not	analyzed	
METHYLENE CHLORIDE	4.71	17390		50
TRICHLOROFLUOROMETHANE	—	not	analyzed	
1,1-DICHLOROETHENE	6.86	25500		
1,1-DICHLOROETHANE	8.08	32400		
TRANS-1,2-DICHLOROETHENE	8.71	31360		
CHLOROFORM	9.36	12570		
1,2-DICHLOROETHANE	10.02	31090		
1,1,1-TRICHLOROETHANE	11.21	23540		
CARBON TETRACHLORIDE	11.58	8942		
BROMODICHLOROMETHANE	12.20	11460		
1,2-DICHLOROPROPANE	13.41	46620		
TRANS-1,3-DICHLOROPROPENE	13.70	18450		
TRICHLOROETHENE	14.22	265600		
BENZENE	14.63	122900		
*DIBROMOCHLOROMETHANE	14.97	86260		
*1,1,2-TRICHLOROETHANE	—	—		
*CIS-1,3-DICHLOROPROPENE	—	—		
2-CHLOROETHYLVINYL ETHER	—	not	analyzed	
BROMOFORM	17.60	6456		
#1,1,2,2-TETRACHLOROETHANE	19.83	35150		
#TETRACHLOROETHENE	—	+		
TOLUENE	21.00	128400		
CHLOROBENZENE	22.18	91720		
ETHYL BENZENE	23.23	126900		
1,3-DICHLOROBENZENE		not	analyzed	
1,2-DICHLOROBENZENE		not	analyzed	
1,4-DICHLOROBENZENE		not	analyzed	

*&#: coeluting compounds

INTERNAL STANDARD RECOVERY

BROMOCHLOROMETHANE	7.45	11180	100 %	

Column conditions: Carbopak B (60/80 mesh) coated with 1% SP-1000 in a 6' x 2 mm ID glass column with He carrier at 30 ml/min., at 60°C for 3 min., then programmed at 8°C per min. to 220°C and held.


START
%1 400 60 60
50ppb A+B + IS
1.58
ATTN 2↑.6 a
4.71 methylene chloride
6.86 1,1-dichloroethene
7.45 IS.
8.08 1,1, dichloroethane
8.71 trans-1,2-dichloroethene
9.36 chloroform
10.02 1,2-dichloroethane
10.63
11.21 1,1,1-trichloroethane
11.58 carbon tet
12.20 bromo dichloromethane
12.91
13.41 1,2-dichloropropane
13.70 trans-1,3-dichloropropene
14.22 trichloroethylene
benzene
14.63
14.97 * 3 coeluters
15.99
16.91
17.60 bromoform
18.94
19.83 # 2-coeluters
20.65
toluene
21.00
chlorobenzene
22.18
23.55
ethyl benzene
24.23

28.98

30.10

STOP

HP RUN # 232 OCT/11/85 TIME 09:19:50
ID:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
4.71	4.71	17390	(R) 1	48.119
6.86	6.88	25500	2	44.271
7.45	7.47	11180	3	101.452
8.08	8.09	32400	4	48.634
8.71	8.72	31360	5	47.573
9.36	9.38	12570	6	49.802
10.02	10.04	31090	7	52.112
11.21	11.23	23540	8	48.496
11.58	11.60	8942	9	48.714
12.20	12.22	11460	10	47.355
13.41	13.43	46620	11	49.680
13.70	13.72	18450	12	50.995
14.22	14.24	26560	13	48.645
14.63	14.65	122900	14	48.847
14.97	14.99	86260	15	53.551
17.60	17.64	6456	16	64.963
19.83	19.86	35150	17	51.419
21.00	21.03	128400	18	49.575
22.18	22.20	91720	19	48.985
24.23	24.26	126900	20	49.072

DIL FACTOR: 1.0000 E+ 0

TEMP1 400 60 90
TIME1 3.00
RATE 8.00
ESCAPE
CALIB ESTD
% RTW: 4

	RT	AMT
REF:	4 . 7 1	: 5 0
:	6 . 8 6	: 5 0
:	7 . 4 5	: 1 0 0
:	8 . 0 8	: 5 0
:	8 . 7 1	: 5 0
:	9 . 3 6	: 5 0
:	1 0 . 0 2	: 5 0
:	1 1 . 2 1	: 5 0
:	1 1 . 5 8	: 5 0
:	1 2 . 2	: 5 0
:	1 3 . 4 1	: 5 0
:	1 3 . 7 0	: 5 0
:	1 4 . 2 2	: 5 0

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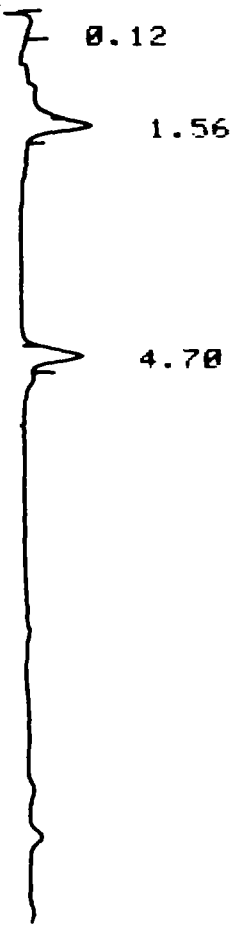
```
:  1 7 . 5 0          :  5 0
:  1 9 . 8 3          :  5 0
:  2 1 . 0 0          :  5 0
:  2 2 . 1 8          :  5 0
:  2 4 . 2 3          :  5 0
:
DIL FACTOR: 1 . 0

'EADY
```

SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (pack); Cat. No. 2-2888 (box of 10 pads)

TEMP1	400	60	60
TIME1	3.00		
RATE	8.00		
TEMP2	400	220	
TIME2	120.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200

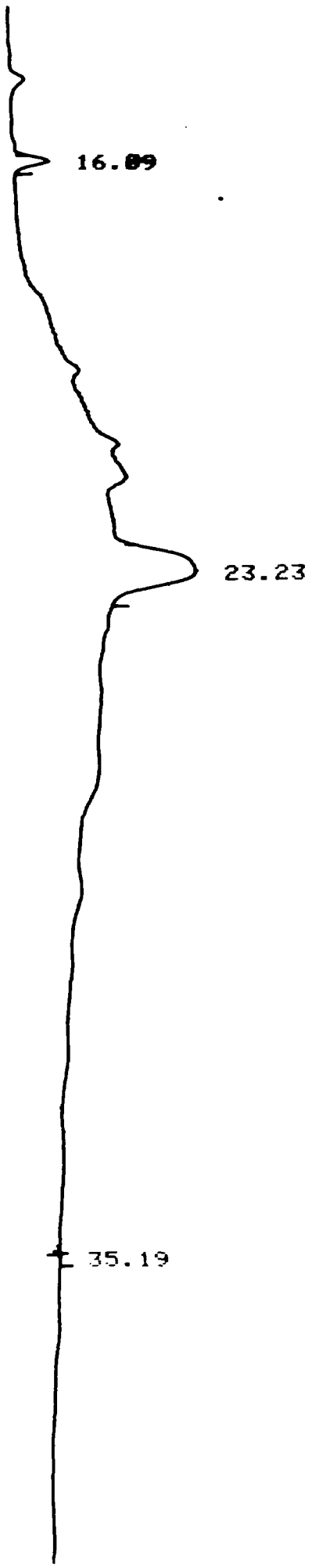
CHT SPD	1.00	
ZERO	10.0	
ATTN 2↑	4	
FID SGNL	A	
SLP SENS	0.15	
AREA REJ		0
FLOW A	0.0	29.0
FLOW B	0.0	34.7

TEMP2 2 1 0 @
IME2 2 0 @
START



water blank

© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (and); Cat. No. 2-2888 Box of 10 pads)


16.09
23.23
35.19

HP RUN # 230 OCT/11/85 TIME 07:44:42
ID:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
4.70	4.71	901	(R) 1	2.493

DIL FACTOR: 1.0000 E+ 0

ESCAPE

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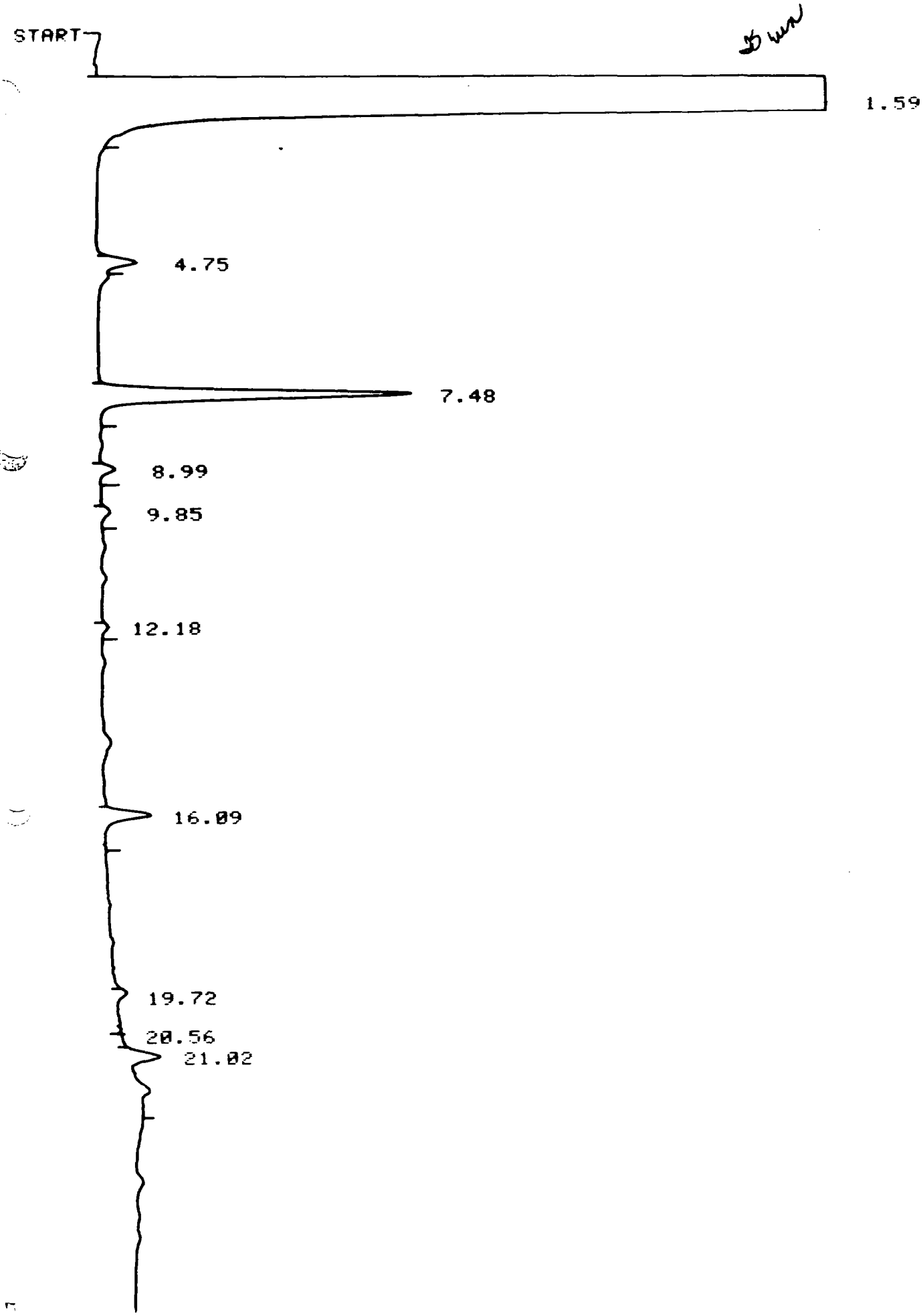

START
1.59
4.75
7.48
8.99
9.85
12.18
16.09
19.72
20.56
21.02

12 14.51

28.72

STOP

HP RUN # 231 OCT/11/85 TIME 08:39:01
ID:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
4.75	4.71	866	(R) 1	2.396
7.48	7.53	10880	3	98.730
12.18	12.32	115	10	0.475
19.72	20.02	187	17	0.274
21.02	21.20	1169	18	0.451

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	60	139
TIME1	3.00		
RATE	8.00		
TEMP2	400	210	
TIME2	20.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200
CHT SPD	1.00		
ZERO	10.0		
ATTN 2↑	4		
FID SGNL	A		
SLP SENS	0.15		
AREA REJ		0	
FLOW A	0.0	29.0	
FLOW B	0.0	26.8	

HP RUN # 231 OCT/11/85 TIME 08:39:01
ESCAPE

TEMP1	400	60	100

SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (and): Cat. No. 2-2888 Box of 10 pads

PURGEABLES - Method 624 (modification for GC/FID)

7.5 ml/10 ml

SAMPLE ID: EMSL 483 Conc 1 (QA/QC) STANDARD ID: 50 ppb A+B

DATE: 10/11/85 QA/QC'd:

PARAMETER	RT	RESPONSE	DAILY STANDARD RESPONSE	CONC (ug/L)	% Recover
CHLOROMETHANE		not	analyzed		
BROMOMETHANE		not	analyzed		
VINYL CHLORIDE		not	analyzed		
CHLOROETHANE		not	analyzed		
METHYLENE CHLORIDE	4.74	1467	7390	4.1	
TRICHLOROFLUOROMETHANE		not	analyzed		
1,1-DICHLOROETHENE					
1,1-DICHLOROETHANE					
TRANS-1,2-DICHLOROETHENE					
CHLOROFORM	9.38	9932	12570	39.51=10.51	87.6
1,2-DICHLOROETHANE	10.04	4808	31090	7.73=2.06	103.0
1,1,1-TRICHLOROETHANE	11.23	2661	23540	5.65=1.50	107.1
CARBON TETRACHLORIDE	11.60	1050	8942	9.23=2.45	44.2
BROMODICHLOROMETHANE	12.21	1523	11460	6.64=1.77	88.5
1,2-DICHLOROPROPANE					
TRANS-1,3-DICHLOROPROPENE					
TRICHLOROETHENE	14.24	6069	26560	11.42=3.04	104.8
BENZENE					
*DIBROMOCHLOROMETHANE	14.98	1391	cant do		
*1,1,2-TRICHLOROETHANE					
*CIS-1,3-DICHLOROPROPENE					
2-CHLOROETHYLVINYL ETHER		not	analyzed		
BROMOFORM	17.65	801	6456	6.20=1.65	56.9
#1,1,2,2-TETRACHLOROETHANE	19.85	2695	35150 for both		
#TETRACHLOROETHENE	↓	↓			
TOLUENE	21.01	1380	128400	.54	ND
CHLOROBENZENE					
ETHYL BENZENE					
1,3-DICHLOROBENZENE		not	analyzed		
1,2-DICHLOROBENZENE		not	analyzed		
1,4-DICHLOROBENZENE		not	analyzed		

*&#: coeluting compounds

EMSL Dilution = 5x Our Dilution = 1.33

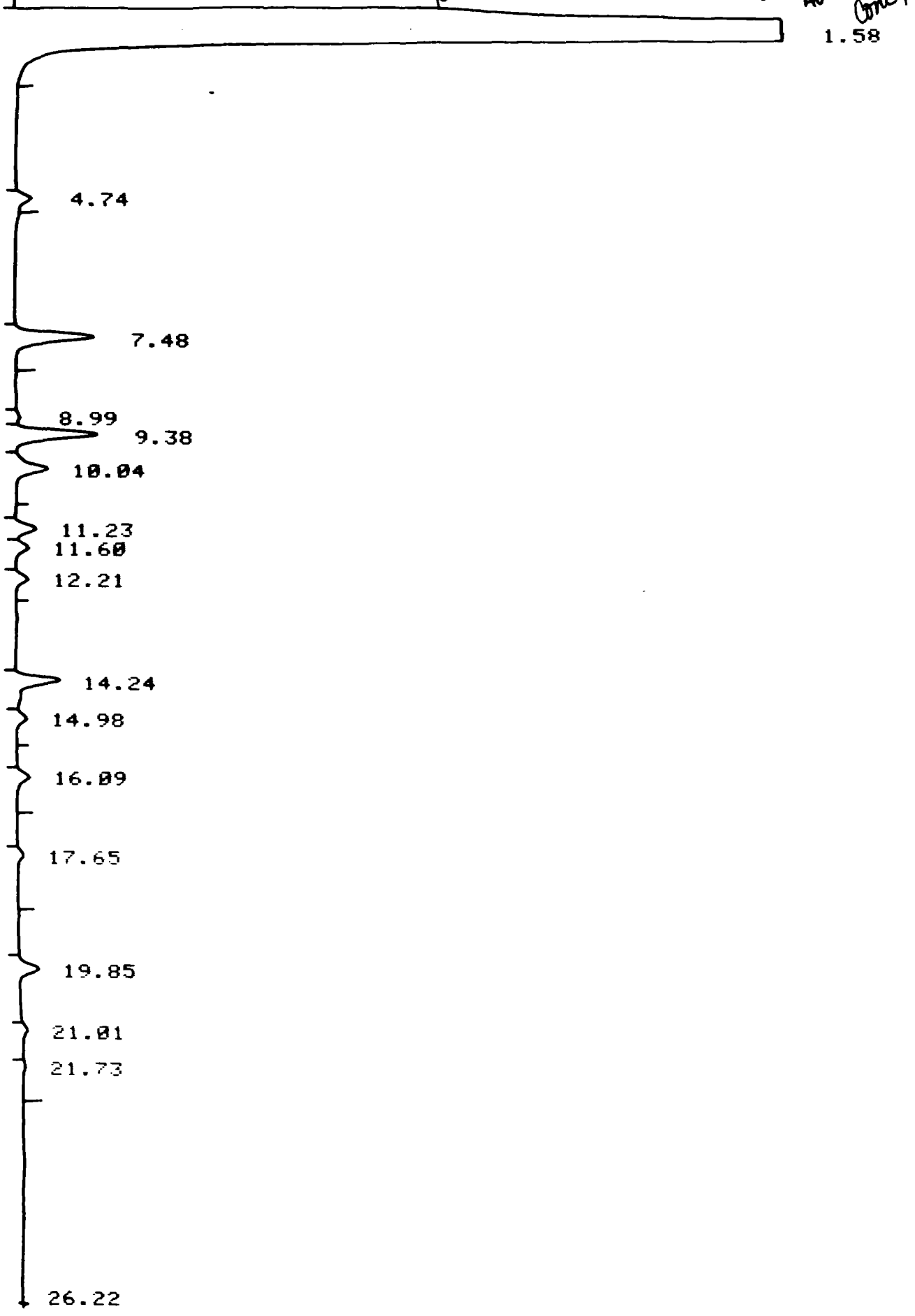
INTERNAL STANDARD RECOVERY

BROMOCHLOROMETHANE	7.48	10550	94.4 %	

Column conditions: Carbopak B (60/80 mesh) coated with 1% SP-1000 in a 6' x 2 mm ID glass column with He carrier at 30 ml/min., at 60°C for 3 min., then programmed at 8°C per min. to 220°C and held.

TEMP1 400 60 60
TEMP2

QA/QC Run 7.5ml/5ml EMSL 483 Conc 1



© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2807 (pad); Cat. No. 2-2808 Box of 10 pads)

HP RUN # 233 OCT/11/85 TIME 10:01:49
ID:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
4.[illegible]	4.71	1467	(R) 1	4.218
7.48	7.49	10550	3	94.365
9.38	9.41	9932	6	39.507
10.04	10.08	4808	7	7.732
11.23	11.28	2661	8	5.652
11.60	11.65	1650	9	9.226
12.21	12.27	1523	10	6.645
14.24	14.31	6069	13	11.425
14.98	15.06	1391	15	0.806
17.65	17.71	801	16	6.204
19.85	19.95	2695	17	3.834
21.01	21.13	1380	18	0.537

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	60	111
TIME1	3.00		
RATE	8.00		
TEMP2	400	210	
TIME2	20.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
MIX TEMP	400	200	200
CHT SPD	1.00		
ZERO	10.0		
ATTN 2↑	6		
FID SGNL	A		
SLP SENS	0.15		
AREA REJ		0	
FLOW A	0.0	29.0	
FLOW B	0.0	29.2	

HP RUN # 233 OCT/11/85 TIME 10:01:49
ID:111061
AREA %

RT	AREA	AREA %
1.58	821600	94.502
4.74	1467	0.169
7.48	10550	1.213
8.99	290	0.033
9.38	9932	1.142
10.04	4808	0.553
11.23	2661	0.306
11.60	1650	0.190
12.21	1523	0.175
14.24	6069	0.698
14.98	1391	0.160
16.09	1531	0.176
17.65	801	0.092
19.85	2695	0.310
21.01	1380	0.159
21.73	1051	0.121

DIL FACTOR: 1.0000 E+ 0

Dil. Factor: 2000x

PURGEABLES - Method 624 (modification for GC/FID)

SAMPLE ID: 10g/10 ml STA 04 5.0ml/10ml STANDARD ID: 50 PPB A+B

DATE: 10/11/85 QA/QC'd: [illegible]

PARAMETER	RT	RESPONSE	DAILY STANDARD RESPONSE	CONC (ug/L)	
CHLOROMETHANE		not	analyzed		
BROMOMETHANE		not	analyzed		
VINYL CHLORIDE		not	analyzed		
CHLOROETHANE		not	analyzed		
METHYLENE CHLORIDE	4.73	1600	17390	4.6 ND	blank is 4.4*
TRICHLOROFLUOROMETHANE	—	not	analyzed		
1,1-DICHLOROETHENE	6.76	113	25500	.22 BMDL	*
1,1-DICHLOROETHANE	8.10	228	32400	.35 BMDL	
TRANS-1,2-DICHLOROETHENE					
CHLOROFORM					
1,2-DICHLOROETHANE					
1,1,1-TRICHLOROETHANE	11.21	13.81	23540	2.9	5.9 ug/g
CARBON TETRACHLORIDE	11.52	270	8942	1.51	3.0 ug/g
BROMODICHLOROMETHANE	12.19	397	11460	1.73	3.46 ug/g
1,2-DICHLOROPROPANE	13.44	150	46020	.16 BMDL	
TRANS-1,3-DICHLOROPROPENE					
TRICHLOROETHENE	14.23	1054	26560	1.98	3.96 ug/g
BENZENE	14.65	800 2	122900	3.26	6.52 ug/g
*DIBROMOCHLOROMETHANE					
*1,1,2-TRICHLOROETHANE					
*CIS-1,3-DICHLOROPROPENE					
2-CHLOROETHYLVINYL ETHER		not	analyzed		
BROMOFORM					
#1,1,2,2-TETRACHLOROETHANE					
#TETRACHLOROETHENE					
TOLUENE	21.03	100400	128400	39.1	78.2 ug/g
CHLOROBENZENE					
ETHYL BENZENE	24.26	86240	126900	34.0	68 ug/g
1,3-DICHLOROBENZENE		not	analyzed		
1,2-DICHLOROBENZENE		not	analyzed		
1,4-DICHLOROBENZENE		not	analyzed		

*&#: coeluting compounds

INTERNAL STANDARD RECOVERY

BROMOCHLOROMETHANE	7.45	11000	98.4 %	

Column conditions: Carbopak B (60/80 mesh) coated with 1% SP-1000 in a 6' x 2 mm ID glass column with He carrier at 30 ml/min., at 60°C for 3 min., then programmed at 8°C per min. to 220°C and held.

Checked [illegible]

STA 04 repeat with IS 5.0ml samp 10ml std.

TEMP1 400 60 61

START 0.08

1.03

1.26

1.76

3.11

4.73 methylene chloride

5.04

6.10

6.76 1,1-dichloroethene

7.45 IS

8.10 1,1-dichloroethane

8.52

8.98

9.53

9.86

10.70

11.21 1,1,1-trichloroethane

11.52 Carbon tetrachloride

12.19 Bromodichloromethane

12.55

12.92

13.44 1,2-dichloropropane

14.23 trichloroethene

14.65 Benzene

15.44

15.73

16.11

17.07

17.92

18.92

19.75

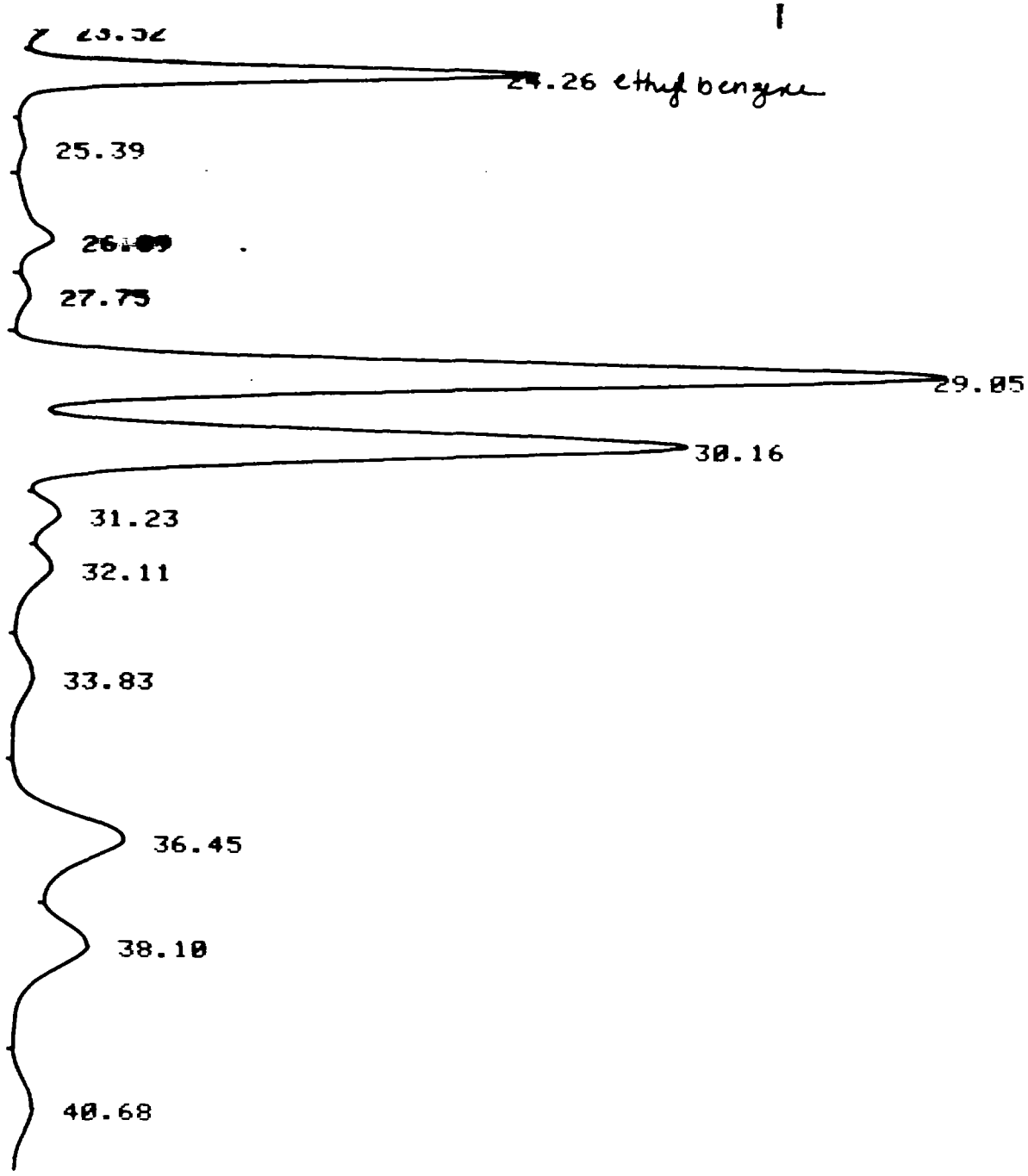
20.36

20.56

21.03 toluene

21.80

22.27



HP RUN # 234 OCT/11/85 TIME 10:43:46
ID:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
4.73	4.71	1600	(R) 1	4.600
6.76	6.88	113	2	0.222
7.45	7.48	11000	3	98.390
8.10	8.11	228	4	0.352
9.53	9.39	364	6	1.448
9.86	10.06	1300	7	2.091
11.21	11.25	1381	8	2.933
11.52	11.62	270	9	1.510
12.19	12.25	397	10	1.732
13.44	13.46	150	11	0.161
14.23	14.28	1054	13	1.984
14.65	14.69	8002	14	3.255
17.92	17.67	4550	16	35.239
19.75	19.91	3381	17	4.809
21.03	21.08	100400	18	39.097

© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (pad); Cat. No. 2-2888 Box of 10 pads)

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	60	100
TIME1	3.00		
RATE	8.00		
TEMP2	400	210	
TIME2	20.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200

CHT SPD	1.00	
ZERO	10.0	
ATTN 2↑	6	
FID SGNL	A	
SLP SENS	0.15	
AREA REJ		0
FLOW A	0.0	29.0
FLOW B	0.0	30.2

HP RUN # 234 OCT/11/85 TIME 10:43:46
ID:111061
AREA %

RT	AREA	AREA %
0.08	15	0.001
1.03	45950	2.599
1.26	29230	1.653
1.76	782400	44.250
3.11	3547	0.201
4.73	1600	0.090
5.04	555	0.031
6.10	314	0.018
6.76	113	0.006
7.45	11000	0.622
8.10	228	0.013
8.[illegible]	[illegible]	0.008
8.98	914	0.052
9.53	364	0.021
9.86	1300	0.074
10.70	887	0.050
11.21	1381	0.078
11.52	270	0.015
12.19	397	0.022
12.55	1336	0.076
12.92	423	0.024
13.44	150	0.008
14.23	1054	0.060
14.65	8002	0.453
15.44	71	0.004
15.73	242	0.014
16.11	2347	0.133
17.07	2976	0.168
17.92	4550	0.257
18.92	3313	0.187
19.75	3381	0.191
20.36	1582	0.089
20.56	1080	0.061
21.03	100400	5.678
21.80	5942	0.336
22.27	2356	0.133
[illegible]	[illegible]	[illegible]

23.92	9472	0.536
24.26	86240	4.877
25.39	7288	0.412
26.89	21830	1.235
27.75	9720	0.550
29.05	239500	13.545
30.16	192300	10.876
31.23	19890	1.125
32.11	21740	1.230
33.83	16380	0.926
36.45	65200	3.687
38.10	42620	2.410
40.68	10650	0.602

DIL FACTOR: 1.0000 E+ 0

SUPELCO, INC., Bellefonte, PA Cat. No. 2-2807 (and); Cat. No. 2-2808 (box of 10 pads)

Dilution factor = 2000
Detection limit = 2 ppm

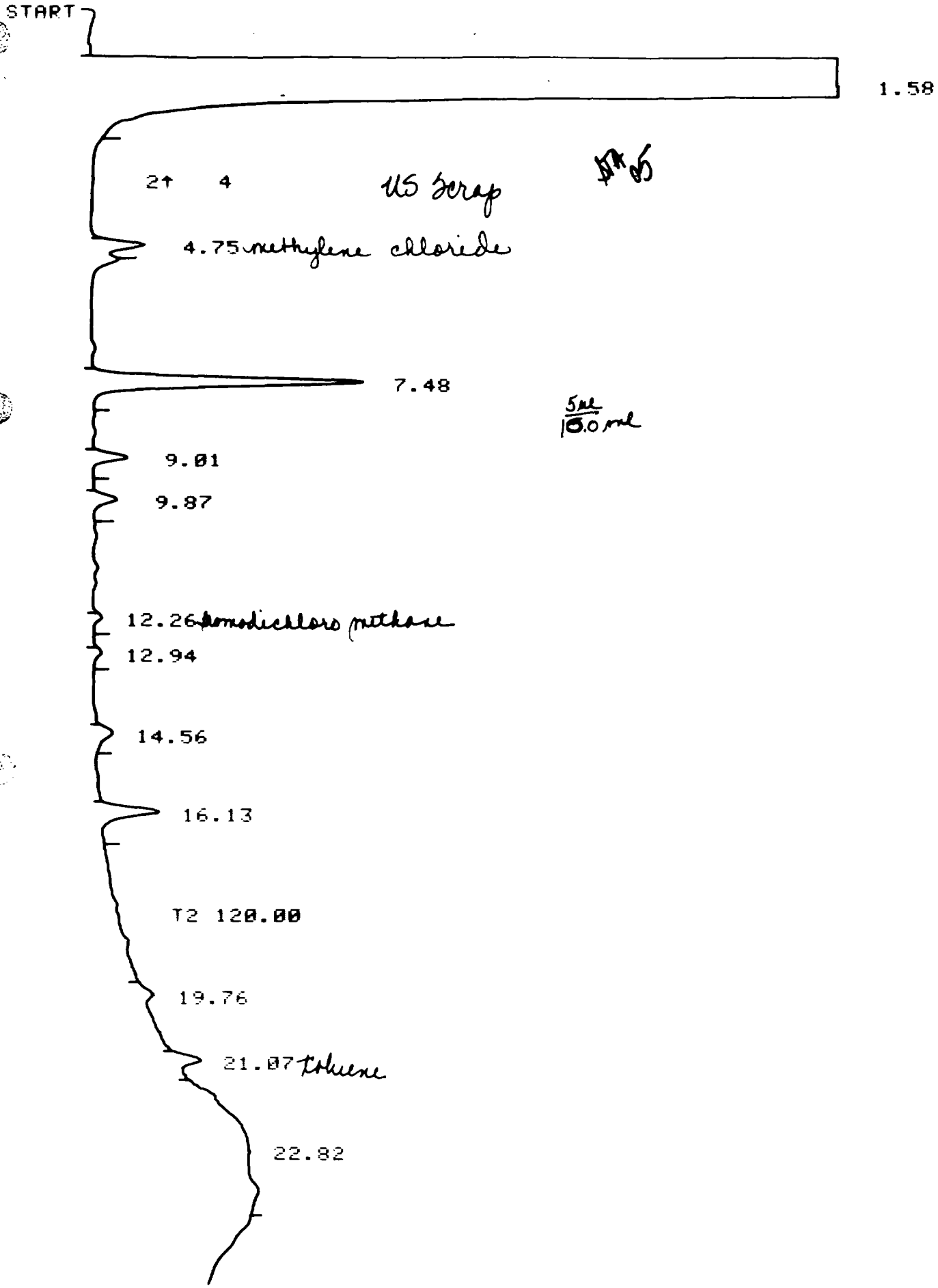
PURGEABLES - Method 624 (modification for GC/FID)

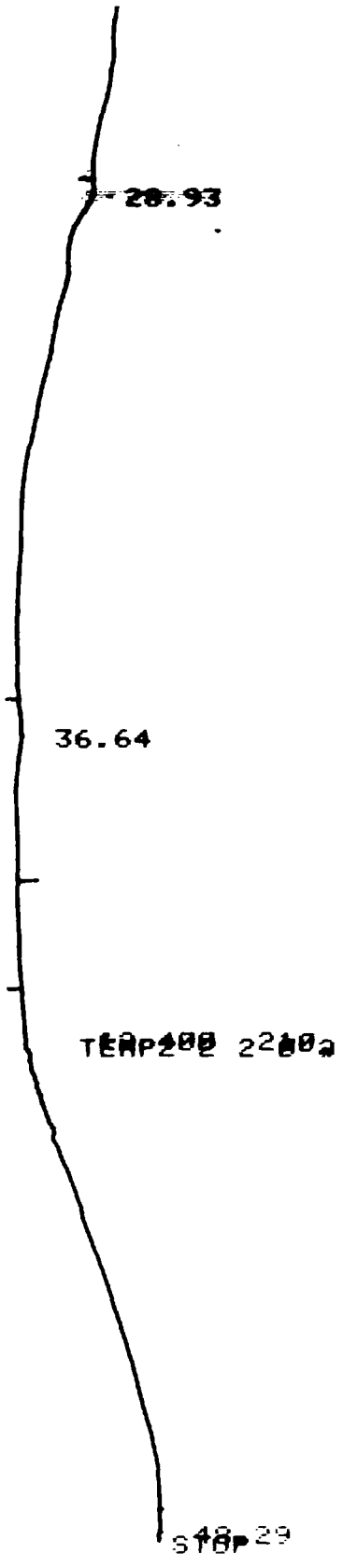
10g
10ml US SCRAP SITE
SAMPLE ID: STA 05 5ml/10ml STANDARD ID: 50ppb A+B

DATE: 10/11/85 QA/QC'd:

PARAMETER	RT	RESPONSE	DAILY STANDARD RESPONSE	CONC (ug/L)
CHLOROMETHANE		not	analyzed	
BROMOMETHANE		not	analyzed	
VINYL CHLORIDE		not	analyzed	
CHLOROETHANE		not	analyzed	
METHYLENE CHLORIDE				
TRICHLOROFLUOROMETHANE		not	analyzed	
1,1-DICHLOROETHENE				
1,1-DICHLOROETHANE				
TRANS-1,2-DICHLOROETHENE				
CHLOROFORM				
1,2-DICHLOROETHANE				
1,1,1-TRICHLOROETHANE				
CARBON TETRACHLORIDE				
BROMODICHLOROMETHANE				
1,2-DICHLOROPROPANE				
TRANS-1,3-DICHLOROPROPENE				
TRICHLOROETHENE				
BENZENE				
*DIBROMOCHLOROMETHANE				
*1,1,2-TRICHLOROETHANE				
*CIS-1,3-DICHLOROPROPENE				
2-CHLOROETHYLVINYL ETHER		not	analyzed	
BROMOFORM				
#1,1,2,2-TETRACHLOROETHANE				
#TETRACHLOROETHENE				
TOLUENE				
CHLOROBENZENE				
ETHYL BENZENE				
1,3-DICHLOROBENZENE		not	analyzed	
1,2-DICHLOROBENZENE		not	analyzed	
1,4-DICHLOROBENZENE		not	analyzed	
*&#: coeluting compounds				
INTERNAL STANDARD RECOVERY				
BROMOCHLOROMETHANE	7.48	9102	814 %	

Column conditions: Carbopak B (60/80 mesh) coated with 1% SP-1000 in a 6' x 2 mm ID glass column with He carrier at 30 ml/min., at 60°C for 3 min., then programmed at 8°C per min. to 220°C and held.


START
1.58
2↑ 4
US Scrap
4.75 methylene chloride
7.48
5ml / 10.0 ml
9.01
9.87
12.26 bromodichloro methane
12.94
14.56
16.13
T2 120.00
19.76
21.07 toluene
22.82



HP RUN # 237 OCT/11/85 TIME 17:08:55
ID:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
4.75	4.71	1048	(R) 1	3.013
7.48	7.51	9102	3	81.413
12.26	12.30	234	10	1.021

SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (pail); Cat. No. 2-2888 (box of 10 pails)

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	60	143
TIME1	3.00		
RATE	8.00		
TEMP2	400	220	
TIME2	120.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200

CHT SPD	1.00	
ZERO	10.0	
ATTN 2↑	4	
FID SGNL	A	
SLP SENS	0.15	
AREA REJ		0
FLOW A	0.0	28.8
FLOW B	0.0	26.4

HP RUN # 237 OCT/11/85 TIME 17:08:55
ID:111061
AREA %

RT	AREA	AREA %
1.58	897000	97.596
4.75	1048	0.114
7.48	9102	0.990
9.01	1026	0.112
9.87	768	0.084
12.26	234	0.025
12.94	199	0.022
14.56	711	0.077
16.13	1989	0.216
19.76	311	0.034
21.07	285	0.031
22.82	2614	0.284
36.64	701	0.076
48.29	3107	0.338

DIL FACTOR: 1.0000 E+ 0

ESCAPE

© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (and); Cat. No. 2-2888 Box of 10 pads)

Dilution factor = 2000
Det. limit = 2 ppm

10 g soil
10 ml

PURGEABLES - Method 624 (modification for GC/FID)

5 ul/10 ml Dup

SAMPLE ID: US Scrap Site DTA 05 STANDARD ID: 50 ppb A+B

DATE: 10/11/85 QA/QC'd:

PARAMETER	RT	RESPONSE	DAILY STANDARD RESPONSE	CONC (ug/L)
CHLOROMETHANE		not	analyzed	
BROMOMETHANE		not	analyzed	
VINYL CHLORIDE		not	analyzed	
CHLOROETHANE		not	analyzed	
METHYLENE CHLORIDE				
TRICHLOROFLUOROMETHANE		not	analyzed	
1,1-DICHLOROETHENE				
1,1-DICHLOROETHANE				
TRANS-1,2-DICHLOROETHENE				
CHLOROFORM				
1,2-DICHLOROETHANE				
1,1,1-TRICHLOROETHANE				
CARBON TETRACHLORIDE				
BROMODICHLOROMETHANE				
1,2-DICHLOROPROPANE				
TRANS-1,3-DICHLOROPROPENE				
TRICHLOROETHENE				
BENZENE				
*DIBROMOCHLOROMETHANE				
*1,1,2-TRICHLOROETHANE				
*CIS-1,3-DICHLOROPROPENE				
2-CHLOROETHYLVINYL ETHER		not	analyzed	
BROMOFORM				
#1,1,2,2-TETRACHLOROETHANE				
#TETRACHLOROETHENE				
TOLUENE				
CHLOROBENZENE				
ETHYL BENZENE				
1,3-DICHLOROBENZENE		not	analyzed	
1,2-DICHLOROBENZENE		not	analyzed	
1,4-DICHLOROBENZENE		not	analyzed	

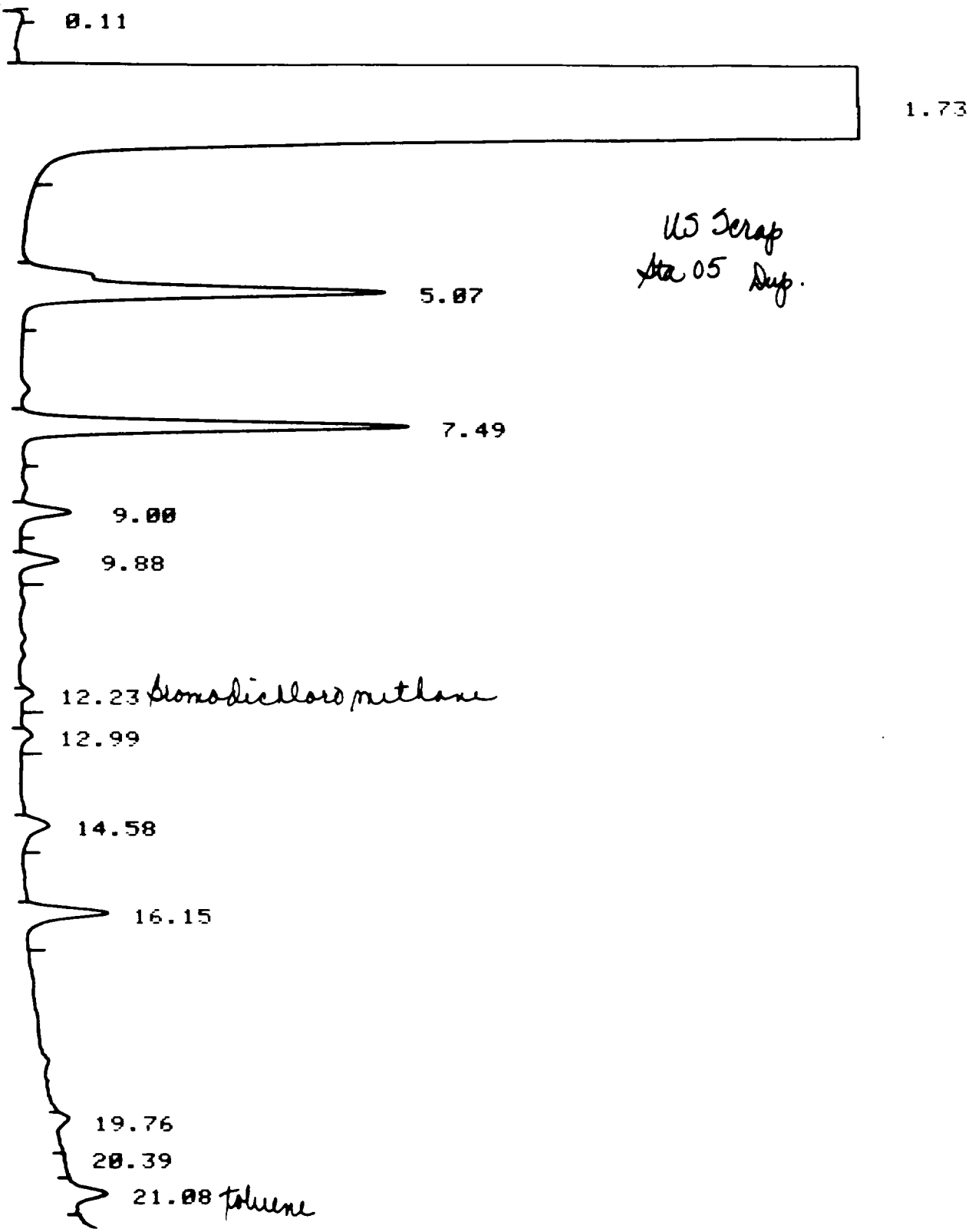
*&#: coeluting compounds

INTERNAL STANDARD RECOVERY

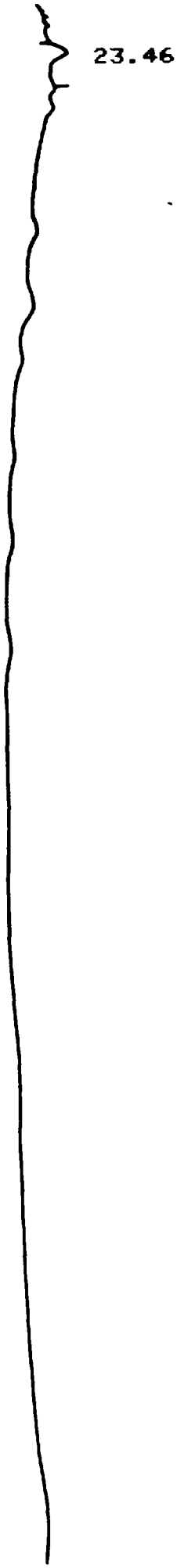
BROMOCHLOROMETHANE	7.49	11500	102.9 %	

Column conditions: Carbopak B (60/80 mesh) coated with 1% SP-1000 in a 6' x 2 mm ID glass column with He carrier at 30 ml/min., at 60°C for 3 min., then programmed at 8°C per min. to 220°C and held.

CHT SPD 0 2
CHT SPD 1 2
START



US Scrap
Sta 05 Dup.



STA-05
Duplicate

© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (and); Cat. No. 2-2889 Box of 10 pads)

© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2987 (pad); Cat. No. 2-2988 (box of 10 pads)

© SUPELCO INC. Bellefonte PA Cat No 2-2887 (card) Cat No 2-2888 (box of 10 cards)

IP RUN # 238 OCT/11/85 TIME 18:29:49
ID:111061
ESTD

RT	EXP RT	AREA	CAL #	AMT
7.49	7.45	11500	3	102.862
9.88	10.02	1016	7	1.634
12.23	12.20	264	10	1.152
14.58	14.63	982	14	0.400
19.76	19.83	372	17	0.529
21.08	21.00	1112	18	0.433
22.31	22.18	236	19	0.129

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	60	141
TIME1	3.00		
RATE	8.00		
TEMP2	400	220	
TIME2	120.00		
INJ TEMP	400	215	215
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	200	200
CHT SPD	1.00		
ZERO	10.0		
ATTN 2↑	4		
FID SGNL	A		
SLP SENS	0.15		
AREA REJ		0	
FLOW A	0.0	28.9	
FLOW B	0.0	26.5	

IP RUN # 238 OCT/11/85 TIME 18:29:49
ID:111061
AREA %

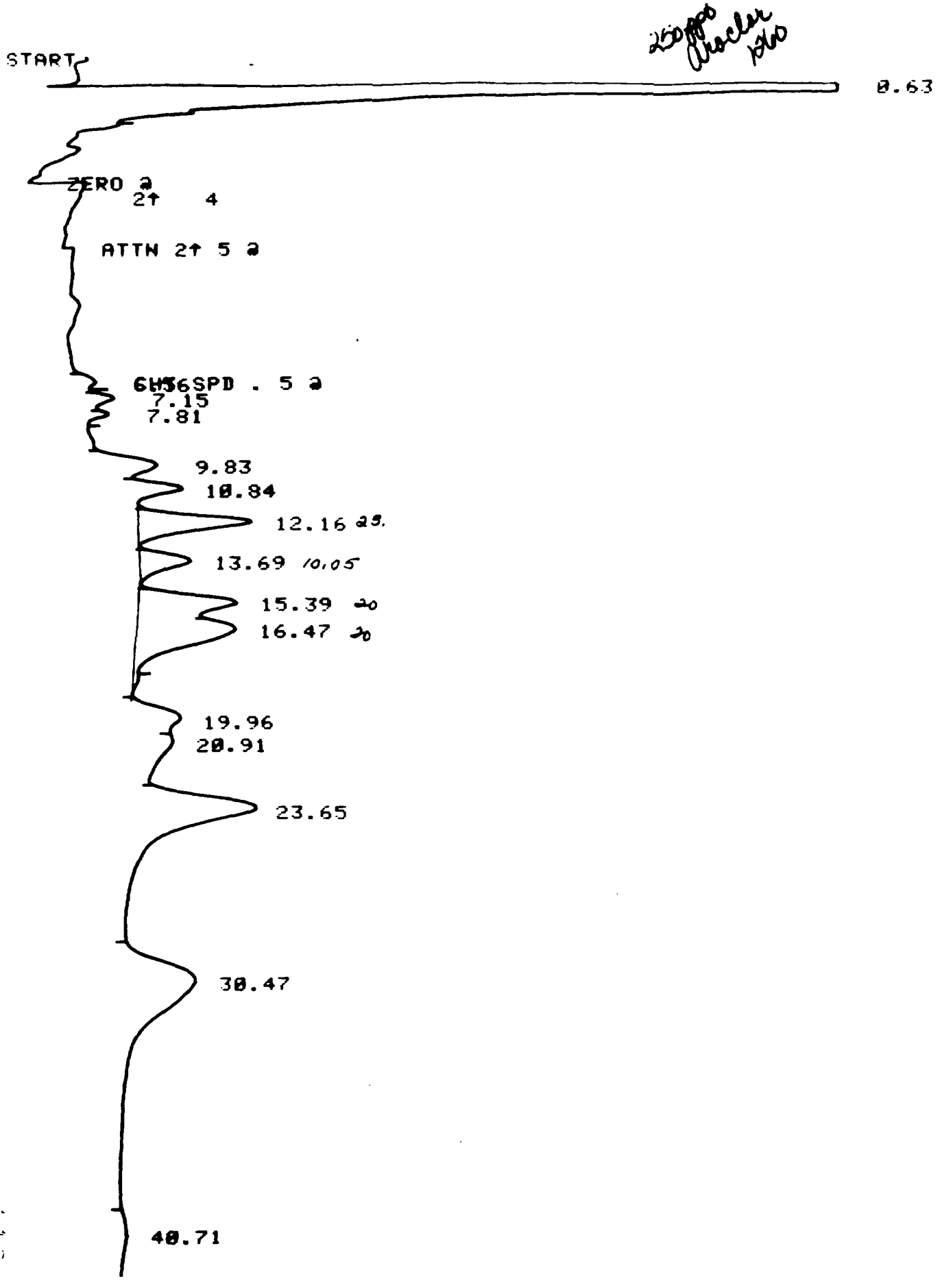
RT	AREA	AREA %

© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2987 (pad); Cat. No. 2-2988 Box of 10 pads

5.07	14200	1.091
7.49	11500	0.884
9.00	1280	0.098
9.88	1016	0.078
12.23	264	0.020
12.99	272	0.021
14.58	982	0.075
16.15	2503	0.192
19.76	372	0.029
20.39	57	0.004
21.08	1112	0.085
21.77	788	0.061
22.31	236	0.018
23.46	1919	0.147

DIL FACTOR: 1.0000 E+ 0

SUPELCO, INC., Bellefonte, PA Cat. No. 2-2987 (pad); Cat. No. 2-2988 (box of 10 pads)

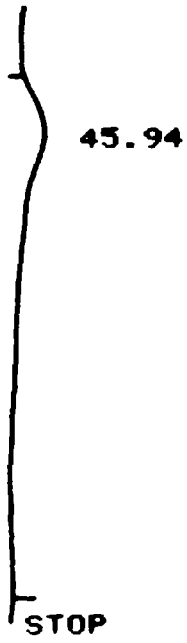

START
0.63
ZERO
2↑ 4
ATTN 2↑ 5
SPD . 5
7.15
7.81
9.83
10.84
12.16
13.69
15.39
16.47
19.96
20.91
23.65
30.47
40.71

© SUPELCO, INC.

CALIBRATION RANGE AND STANDARDS 111061 All RT adjusted to 5

	Sample #	Date	Run #	Bottle #	ATTN 2↑	RT1	H1	RT2	H2	RT3	H3	RT4	H4	Height Total	ATTN Adjustment	Extract Conc.	Dilution Factor	Sample Volume	Final Conc. PPB	% RE
	100 PPB	10/14	9	NOT PRINTED	5	12.46	11	14.02	4.5	15.81	8	16.80	8	31.5	31.5	—	—	—	100	5.7%
	PPB 250		8	"	5	12.16	23	13.69	6.05	15.39	20	16.37	20	73.05	73.05	—	—	—	250	2.0%
Aroclor 1260	500 PPB		11	97	5	12.25	46	13.80	21.	15.49	41	16.51	41	149.	149	—	—	—	500	0
CENTER STD	1000 PPB		13	88	6	12.26	40.5	13.81	18	15.54	36	16.57	37	131.5	26.	—	—	—	1000	11.7%
	2000 PPB	10/15	15	82	6	12.25	86	13.81	42	15.53	79	16.59	78	285	570				2000	4.4%
	50 PPB	10/15	3	83	5	12.19	7.5	13.71	4	15.48	6.5	16.52	6	24	24	—	—	—	50	38% LINEARITY NG
Aroclor 1260	(PPB) 250	10/14	12	NOT PRINTED	5	12.35	23.5	13.93	11	15.67	20	16.71	20	74.5	74.5	—	—	—	250	0%
	(PPB) 1000	10/14	1	87	7	12.21	20	13.76	10	15.46	19	16.51	19	68	27.	—	—	—	500	
Aroclor 1248	263 PPB	10/14	3	89	5	4.43	21	5.16	16	6.42	30	7.47	23.5	94.5	94.5	—	—	-	263	
Aroclor 1221	490 PPB	10/15	2	82	5	1.40	19.5	200	15	2.24	48	2.81	7	89.5	89.5	—	—	—	490	

Checked.
[illegible]

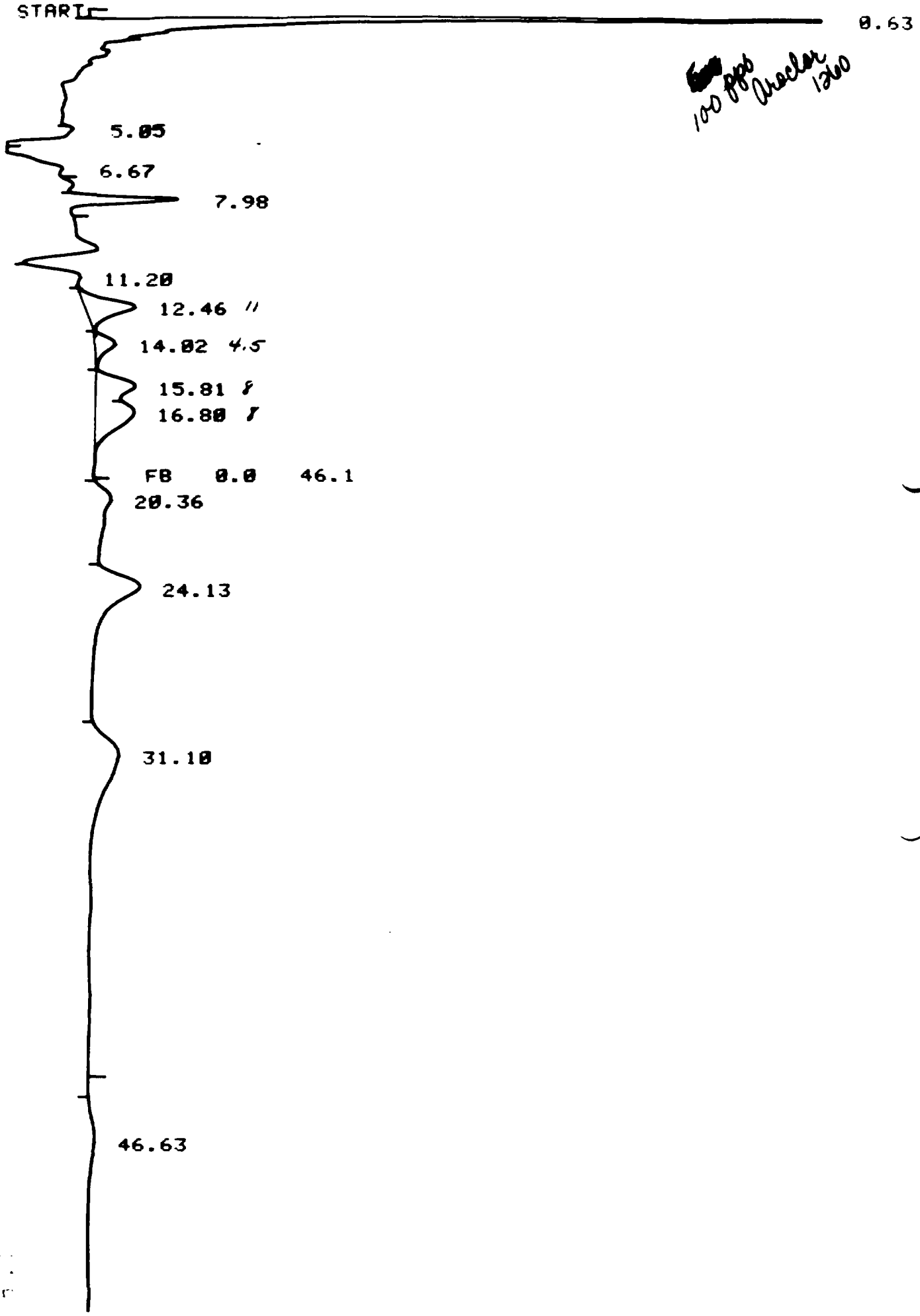


HP RUN # 8 OCT/14/85 TIME 11:33:16
AREAS?

TEMP1	400	210	210
TIME1	60.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

CHT SPD	0.50	
ZERO	10.0	
ATTN 2↑	5	
AUX SGNL	+B	
SLP SENS	0.00	0.44
AREA REJ	1000000	
FLOW A	0.0	0.0
FLOW B	0.0	46.2

© SUPELCO, INC., Br
A Cat. No. 2-2007 (pad); Cat. No. 2-2008 (box of 10 pads)



© SUPELCO, INC., F ... PA Cat. No. 2-2967 (and); Cat. No. 2-2966 Box of 10 pads

57.53

HP RUN # 9 OCT/14/85 TIME 12:40:29
AREAS?

TEMP1	400	210	210
TIME1	60.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

CHT SPD	0.50	
ZERO	10.0	
ATTN 2↑	5	
AUX SGNL	+B	
SLP SENS	0.00	0.48
AREA REJ	1000000	
FLOW A	0.0	0.0
FLOW B	0.0	46.2

START 0.63

5.00

6.62

7.92

100ppb
1260

9.90

11.05

12.32

13.90

15.61

16.65

20.21

23.89

30.71

40.67

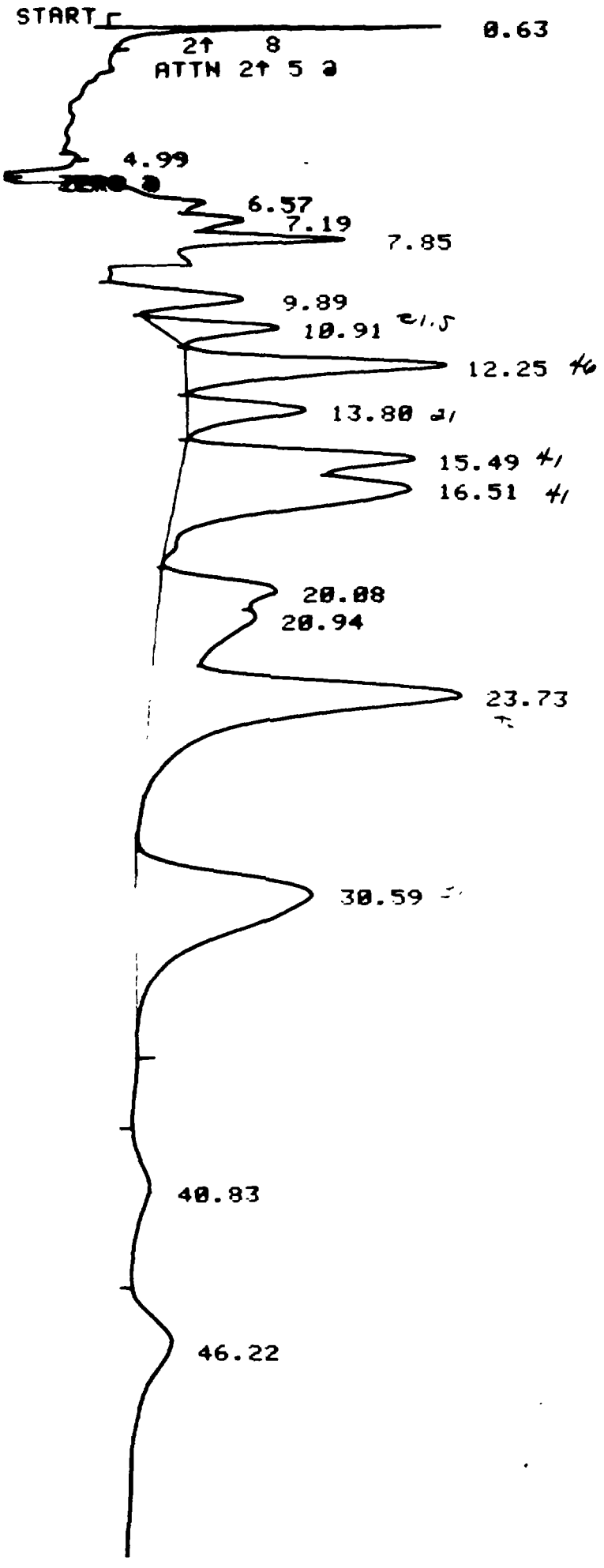
STOP

HP RUN # 10 OCT/14/85 TIME 13:42:52
AREAS?

```
 TEMP1     400  210  210
 TIME1      60.00
 INJ TEMP 400  250  250
 FID TEMP 400  250  250
 TCD TEMP 400  250  250
 AUX TEMP 400  250  250

 CHT SPD     0.50
 ZERO       10.0
 ATTN 2↑     8
 AUX SGNL    +B
 SLP SENS    0.00   0.43
 AREA REJ     1000000
 FLOW  A     0.0    0.0
 FLOW  B     0.0   46.2

OPTN # 1 @
 ID: 1 1 1 0 6 1 @
OPTN # 2 @
 (M-D-Y)DATE: 1 0 - 1 4 - 8 5
 (H.M.S)TIME: 3 . 0 0 ? @
OPTN # 2 @
 (M-D-Y)DATE: 1 0 - 1 4 - 8 5
 (H.M.S)TIME: 0 3 . 0 5 . 0 @
OPTN #2
 DATE: OCT/14/85
 TIME:  03:05:04

AREA REJ 1 0 0 0 0 0 @
```

500 PPB

1260



SUPELCO, INC., Br
Cat. No. 2-2887 (pad); Cat. No. 2-2888 (box of 10 pads)

58.35

HP RUN # 11 OCT/14/85 TIME 03:06:41
ID:111061 BOTTLE 97
NO PEAKS IN WDOS

RT	AREA	AREA %
16.51	135200	31.095
23.73	173000	39.788
30.59	126600	29.117

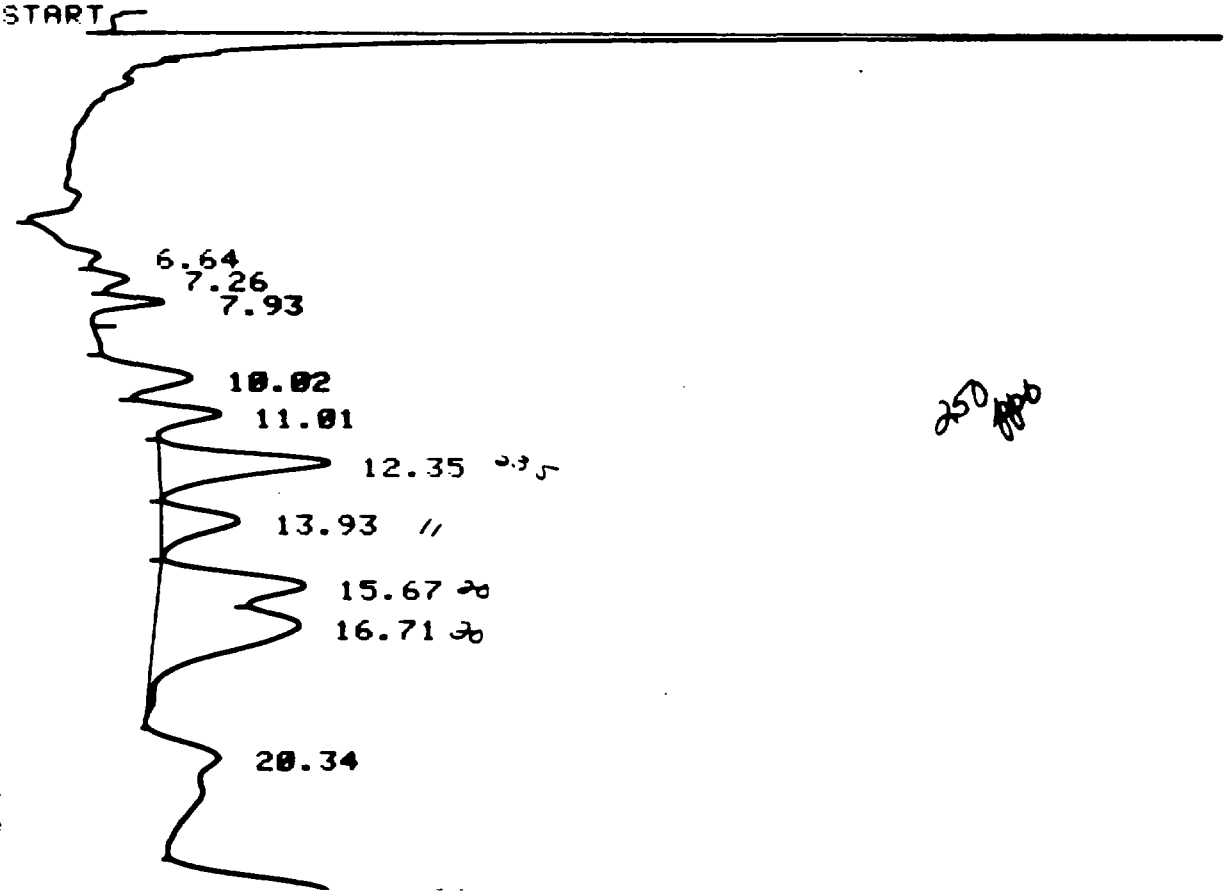
DIL FACTOR: 1.0000 E+ 0

TEMP1	400	210	210
TIME1	60.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

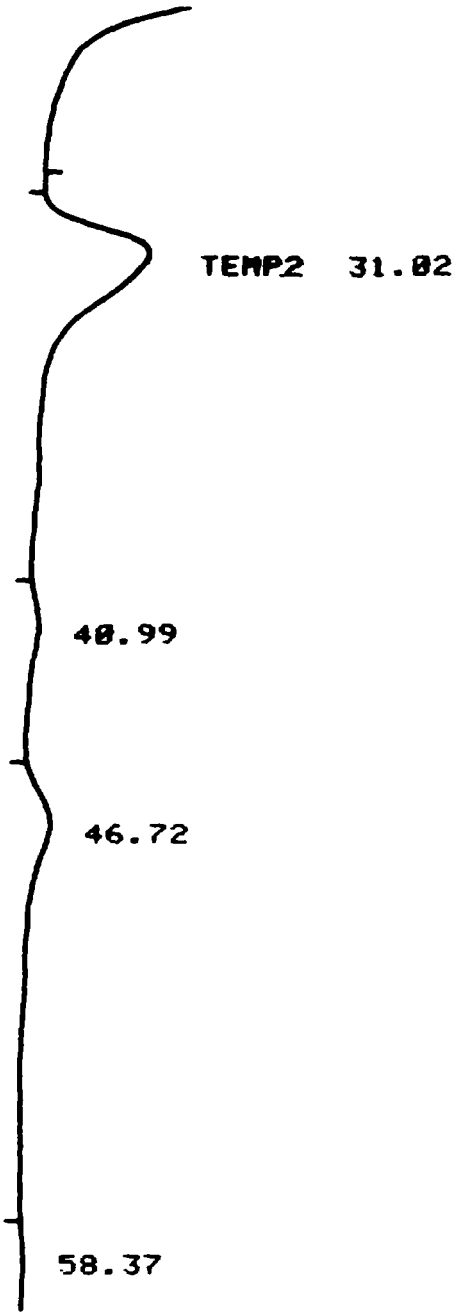
CHT SPD	0.50	
ZERO	10.0	
ATTN 2↑	5	
AUX SGNL	+B	
SLP SENS	0.00	0.55
AREA REJ	100000	
FLOW A	0.0	0.0
FLOW B	0.0	46.2

START

0.63



250 ppb

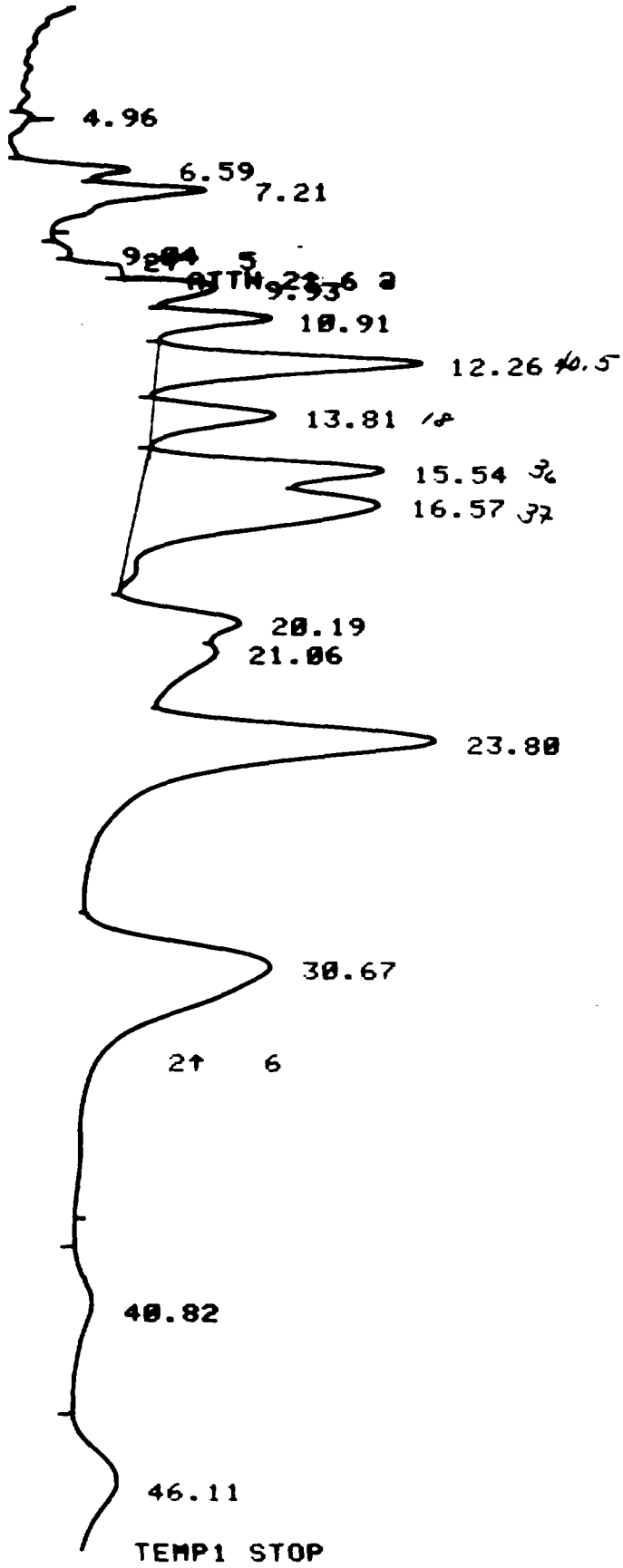


HP RUN # 12 OCT/14/85 TIME 04:09:35
AREAS?

TEMP1	400	210	210
TIME1	60.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

CHT SPD	0.50	
ZERO	10.0	
ATTN 2↑	5	
AUX SGNL	+B	
SLP SENS	0.00	0.39
AREA REJ	100000	
FLOW A	0.0	0.0
FLOW B	0.0	46.2

START

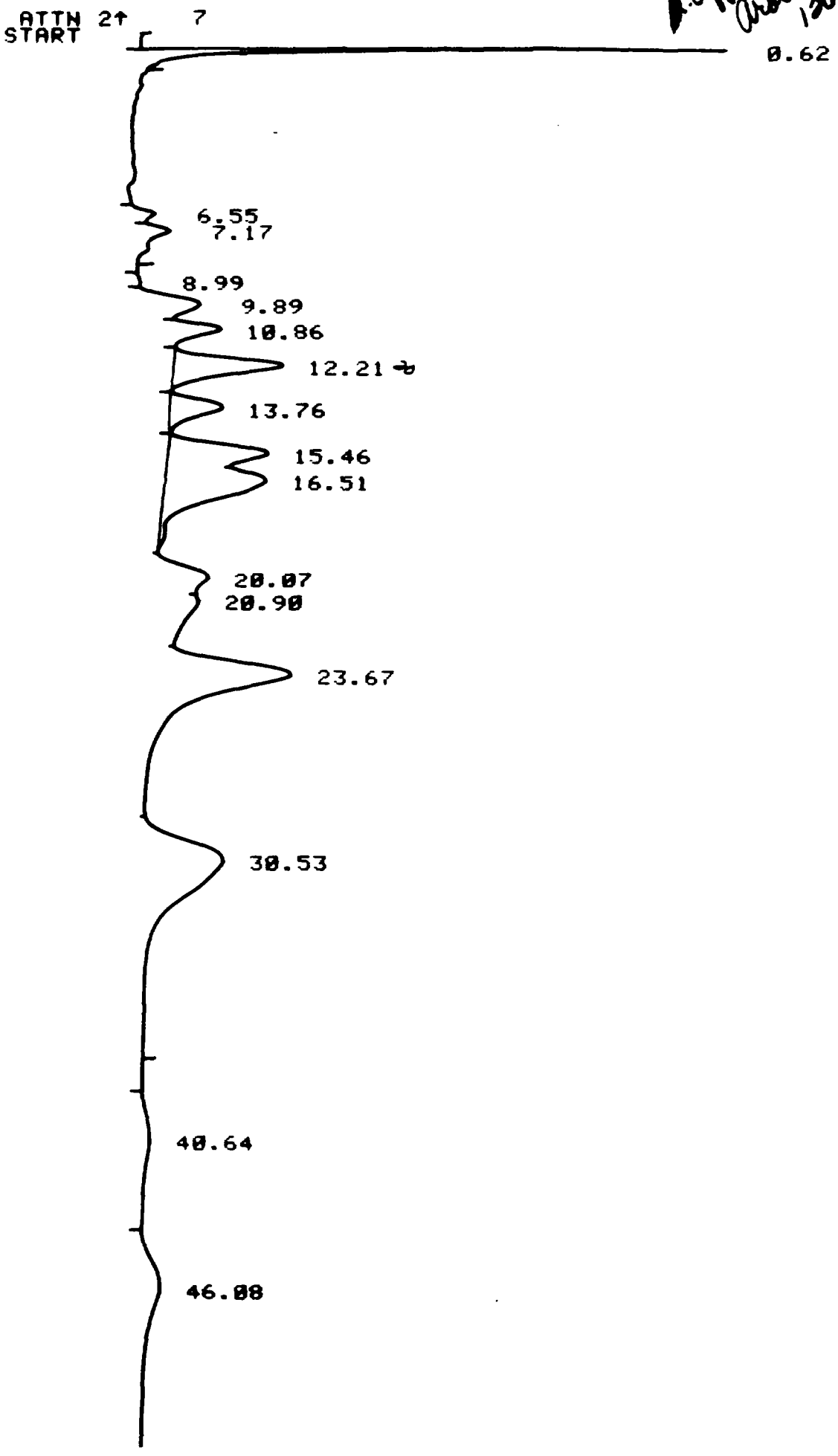


1.0 ppm 1260

P RUN # 13 OCT/14/85 TIME 05:11:58
D:111061 BOTTLE 88
NO PEAKS IN WDOS

RT	AREA	AREA %
12.26	166300	12.055
13.81	109100	7.909
ESCAPE		

```
  0  LIST LIST
  5  ATTN 2↑          7
  9  ATTN 2↑          8
ESCAPE
DELETE CHANGE RUN @

 ELETE ESTD
.HANGE RUN 0 @
CHANGE RUN 0 LIST LIST
CHANGE RUN 1 ATTN 2↑ 5 @
ATTN 2↑ 7 @

  0  LIST LIST
  1  ATTN 2↑          5

 TEMP1      400  210  210
 TIME1       60.00
 INJ TEMP   400  250  250
 FID TEMP   400  250  250
 TCD TEMP   400  250  250
 AUX TEMP   400  250  250

 CHT SPD     0.50
 ZERO       10.0
 ATTN 2↑     7
 AUX SGNL    +B
 SLP SENS    0.00   0.46
 AREA REJ      100000
 FLOW  A     0.0    0.0
 FLOW  B     0.0   46.2

TIME1 6 5 @
ZERO 1 5 @
```



1.0 ppm Aroclor 1260

© SUPELCO, INC.

58.31

HP RUN # 1 OCT/14/85 TIME 06:04:47
ID:111061 BOTTLE 87
AREA %

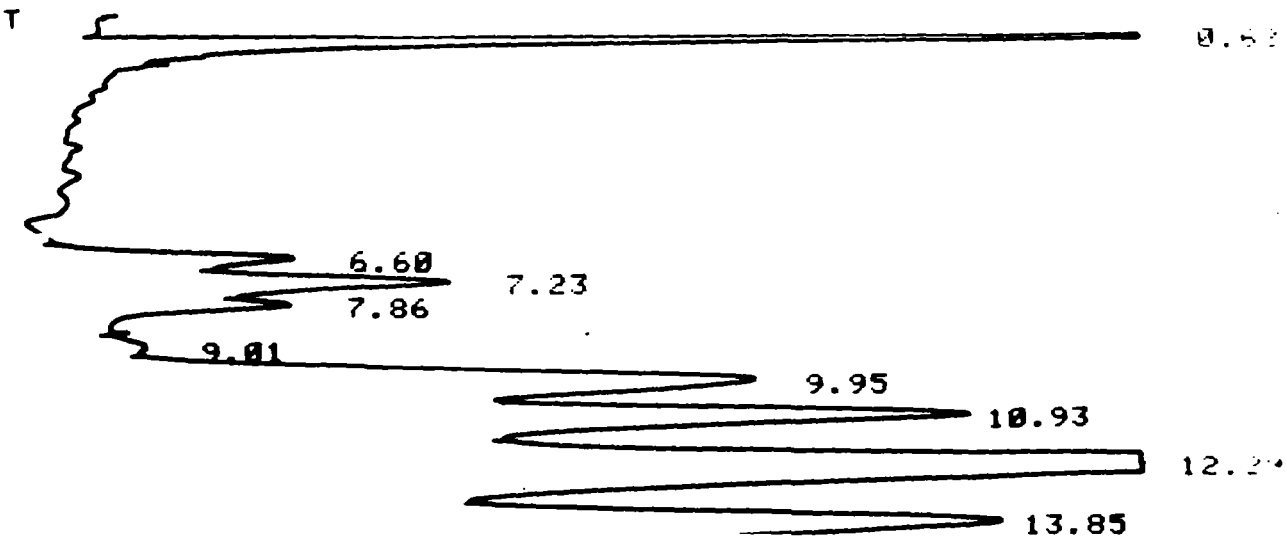
RT	AREA	AREA %
12.21	162600	11.911
13.76	106900	7.831
15.46	139800	10.241
16.51	250700	18.365
20.90	120100	8.798
23.67	328500	24.064
30.53	256500	18.790

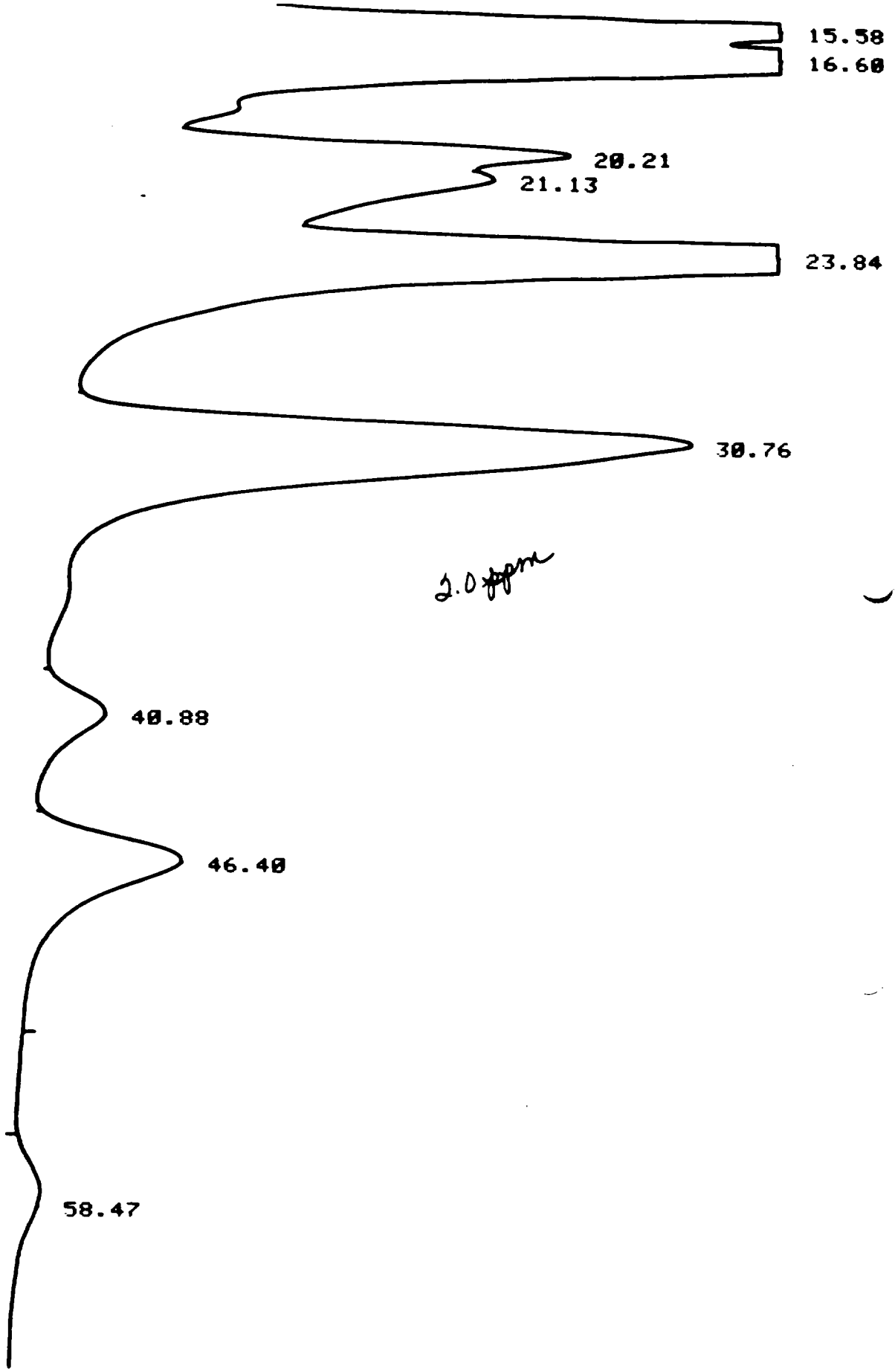
DIL FACTOR: 1.0000 E+ 0

TEMP1	400	210	210
TIME1	65.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

CHT SPD	0.50	
ZERO	15.0	
ATTN 2↑	7	
AUX SGNL	+B	
SLP SENS	0.00	0.31
AREA REJ	100000	
FLOW A	0.0	0.0
FLOW B	0.0	46.2

START





HP RUN # 2 OCT/14/85 TIME 07:12:58
ID:111061 BOTTLE 88
AREA %

© SUPELCO, INC., P .PA Cat. No. 2-2007 (pad); Cat. No. 2-2008 (box of 10 pads)

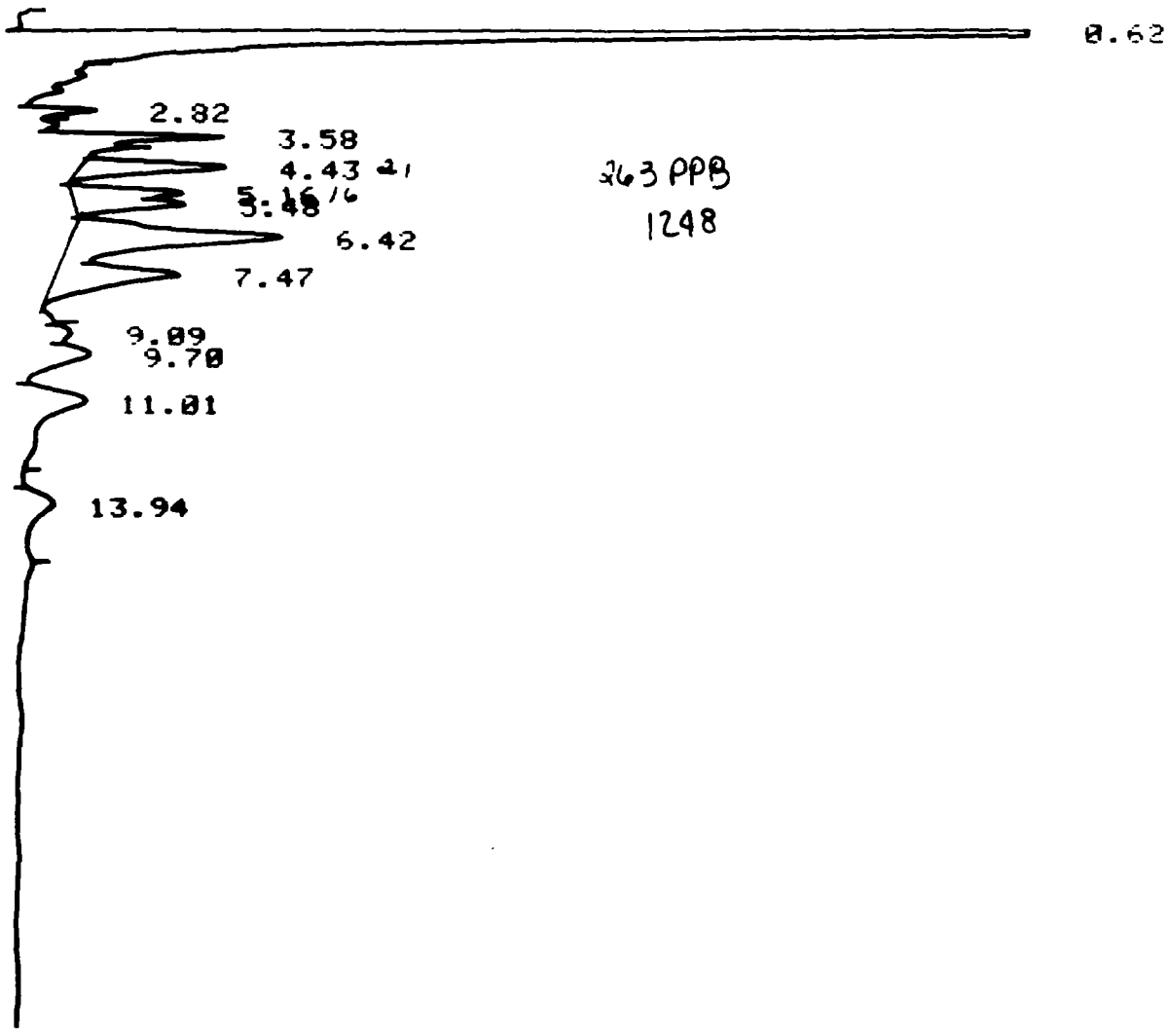
9.95	112500	3.452
10.93	139100	4.268
12.29	304400	9.340
13.85	201000	6.168
15.58	264900	8.128
16.60	476900	14.633
20.21	182100	5.588
21.13	228900	7.024
23.84	645000	19.791
30.76	571300	17.530
46.40	132900	4.078

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	210	210
TIME1	65.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

CHT SPD	0.50	
ZERO	15.0	
ATTN 2↑	5	
AUX SGNL	+B	
SLP SENS	0.00	0.42
AREA REJ	100000	
FLOW A	0.0	0.0
FLOW B	0.0	46.1

START



263 PPB
1248

NORMALIZED ATTN [illegible]

.89 = Ratio = PK 1 + PK 2 / PK 3

	Sample #	Date	Run #	Bottle #	ATTN 2↑	RT1	H1	RT2	H2	RT3	H3	RT4	H4	Height Total	ATTN Adjustment	Extract Conc. PPB	Dilution Factor	Sample ~~Volume~~ WEIGHT	Final Conc. PPM
	Aroclor 1254 250PPB	10/17	27	97	6	4.33	9	8.93	9	10.86	19	—	—	37	74				
	Aroclor 1260 500PPB	10/14	11	97	5	16.51	41	23.73	54	30.59	31	—	—	126	[illegible]				
	Aroclor 1260 500PPB	10/15	4	84	5	16.47	50	23.61	71	30.43	40	—	—	161	[illegible]				
1254 →	SCRAP STA01	10/14	6	NOT PRINTED	5	4.42	8.5	9.07	4	11.06	8	—	—	20.5	20.5	61.[illegible]	1/20,408	9.8g	1414
1260 →	SCRAP 01	10/14	6	NOT PRINT	5	16.70	4	24.01	3.5	31.04	3.5	-	-	11.	11.	4[illegible]	1/[illegible]	[illegible]	[illegible]
1254 →	SCRAP [illegible]	10/14	7	[illegible] PRINT	[illegible]	4.41	8	9.0[illegible]	8	[illegible]	[illegible]			[illegible]	[illegible]	111.1	1/[illegible]	[illegible]	[illegible]
1260 →	[illegible]	10/14	7	"	-	15.67	[illegible]	[illegible]	[illegible]	30.[illegible]	[illegible]			17.[illegible]	[illegible]	67.[illegible]	[illegible]	[illegible]	[illegible]

Checked
JB Mc[illegible]

US SCRAP SITE Instrument [illegible]

	Sample #	Date	Run #	Bottle #	ATTN 2↑	RT1	H1	RT2	H2	RT3	H3	RT4	H4	Height Total	ATTN Adjustment	Extract Conc.	Dilution Factor	Sample ~~Volume~~ WEIGHT	Final Conc.
	1260 STA 01	10/14	6	NOT PRINTED	5	16.70	4	24.01	3.5	31.04	3.5	—	—	11	11	43.6	1/[illegible]408	9.8	890
	1254 STA01	10/14	6	NOT PRINTED	5	4.42	8.5	9.07	3	11.06	8.55 9	—	—	20.5	20.5	69.[illegible]	1/20408	9.8	1414
	1254 STA 02	10/14	7	NOT PRINTED	5	4.41	8	9.05	8	11.08	18 19	—	—	34.0	34.0	115	1/19[illegible]	10.1	2274
	1260 STA02	10/14	7	NOT PRINTED	5	~16	6	23.95	4.5	30.85	7	—	—	17.5	17.5	6[illegible]	1/19[illegible]	10.1	1375
SPIKE	1254 STA02	10/14	8	NOT PRINTED	5	4.41	6	9.06	9	11.08	14.25 15	—	—	29.25	29.25	[illegible]	1/19800	10.1	1956 ~~1179~~
SPIKE	1260 STA02	10/14	8	NOT PRINTED	5	~16	5	23.95	4	30.99	6	—	—	15	15	59.[illegible]	1/19[illegible]	10.1	1178
250 PPB	1254 STD	10/17	27	97	6	4.33	9	8.93	9	10.86	19	—	—	37	74	—	—	—	—
500 PPB →	1260 STD	10/14	11	97	5	16.51	41	23.73	54	30.5[illegible]	31	—	—	126	126		—	—	—
	1260 STA04	10/14	9	95	5	~16	9	23.97	4	30.99	5	—	—	18	18	71.4	1/[illegible]	10.1	141.4
	1254 STA04	10/14	9	95	5	4.43	9	9.06	5.5	11.08	11.9 12.5	—	—	26.4	26.4	89.2	1/198[illegible]	10.1	176.6

Ratio for determining 1254 in 1254 [illegible] = $\frac{\text{Pk HI RT } 4.3[illegible] + \text{Pk HI RT } 8.9[illegible]}{\text{Pk HI RT } 11.[illegible]6}$

= [illegible] / [illegible] .95

Checked.
JB Mihura

	Sample #	Date	Run #	Bottle #	ATTN 2↑	RT1	H1	RT2	H2	RT3	H3	RT4	H4	Height Total	ATTN Adjustment	Extract Conc.	Dilution Factor	Sample ~~Volume~~ WEIGHT	Final Conc.
HOMOGENIZED SAMPLE	STA05	10/14	10	NOT PRINTED	5	←									→	ND	1/1000	10.0	ND
	DUP STA05	10/14	11	NOT PRINTED	5	←									→	ND	1/1980	10.1	ND
NOT HOMOGEN.	1254 STA05	10/14	13	80	5	4.42	20	9.07	13	11.01	29.5 31	—	—	62.45	62.45	210	1/200	10.0	42.0
	1260 STA05	10/14	13	80	5	~16	11	23.80	11	30.65	13	—	—	35	35	139	1/200	10.0	27.8
DUP	1260 STA05	10/14	14	81	5	~16	8.5	23.56	6	30.35	9	-	-	23.5	23.5	93.2	1/200	10.0	18.6
	STA03	10/15	6	86	5	←							→	—	—	—	1/20	—	ND
500 PPB	1260 STD	10/14	11	97	5	12.25	46	13.80	21.	[illegible]	41	-	—	[illegible]	54	[illegible]		-	
	[illegible]	10/14	5	91	6	12.39	5	13.87	3	15.71	7	—	—	15	15	139	1/[illegible]	10.0 g	2.78

checked
J.B. [illegible]

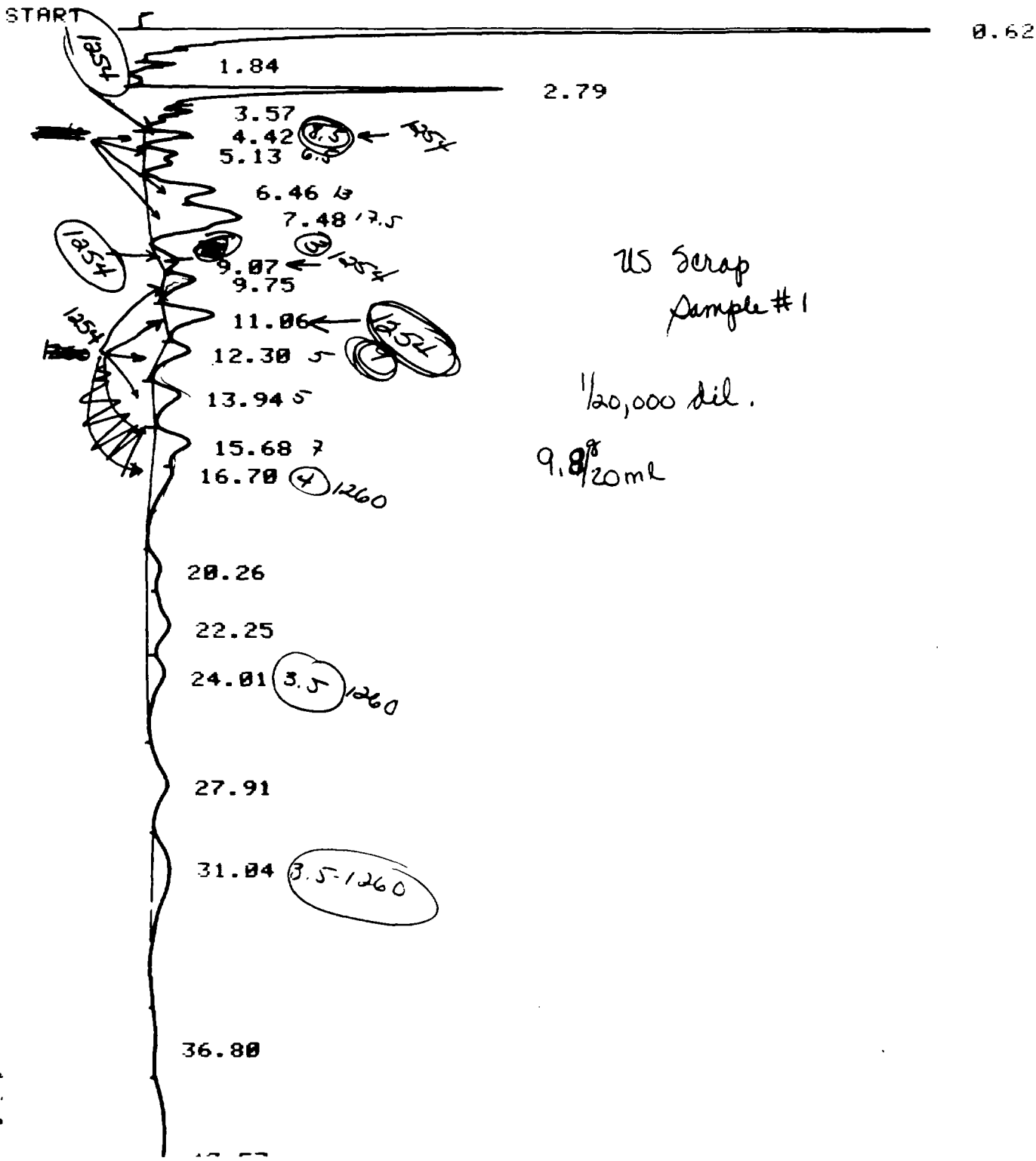
	Sample #	Date	Run #	Bottle #	ATTN 2ft	RT1	H1	RT2	H2	RT3	H3	RT4	H4	Height Total	ATTN Adjustment	Extract Conc.	Dilution Factor	Sample ~~Volume~~ WEIGHT	Final Conc.
	1254 STA 04	10/15	7	87	5	4.39	64	8.96	42	10.89	94.5 99.5	—	—	200.5	200.5	677	1/198	10.1	134.0
	1260 STA 04	10/15	7	87	5	~ 16	32	23.52	27	30.30	42.5	—	—	101.5	101.5	315	1/198	10.1	62.4 ~~[illegible]~~
250 PPB	1254 STD	10/15	27	97	6	4.33	9	8.93	9	10.86	19	—	—	37	74	—	—	—	—
500 PPB	1260 STD	10/15	4	84	5	16.47	50	23.61	71	30.43	40	—	—	161	161	—	—	—	—
1260 →	HOMOG. STA 05	10/15	8	88	5	16.33	6	23.50	4	30.31	6.5	—	—	16.5	16.5	51.2	1/198	10.1	10.1
1254	HOMOG STA 05	10/15	8	88	5	4.38	10	8.95	7	10.89	15.7 16.5	—	—	32.7	32.7	110.5	1/198	10.1	21.9
DUP 1260	HOMOG STA 05	10/15	9	89	5	~ 16	6	23.51	4.5	30.30	10	—	—	20.5	20.5	63.7	1/198	10.1	13.0
DUP 1254	HOMOG STA 05	10/15	9	89	5	4.39	11	6.43	88	10.87	17.1 18	—	—	36.1	36.1	122.0	1/198	10.1	24.2

Ratio for 1254 in 1254 : 1260 mixtures = 9:1

checked [illegible]

TEMP1	400	210	210
TIME1	65.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

CHT SPD	0.50	
ZERO	15.0	
ATTN 2↑	5	
AUX SGNL	+B	
SLP SENS	0.00	0.39
AREA REJ	100000	
FLOW A	0.0	0.0
FLOW B	0.0	46.2

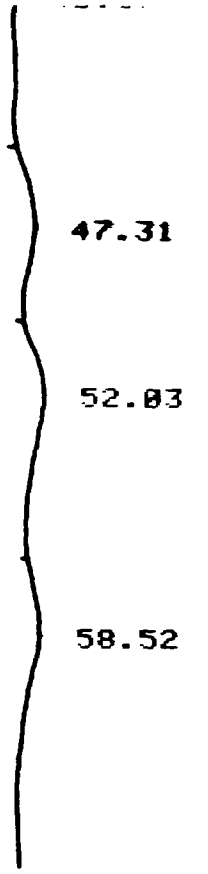


US Scrap
Sample #1

1/20,000 dil.

9.8 g/20ml

© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2987 (pad); Cat. No. 2-2988 (box of 10 pads)



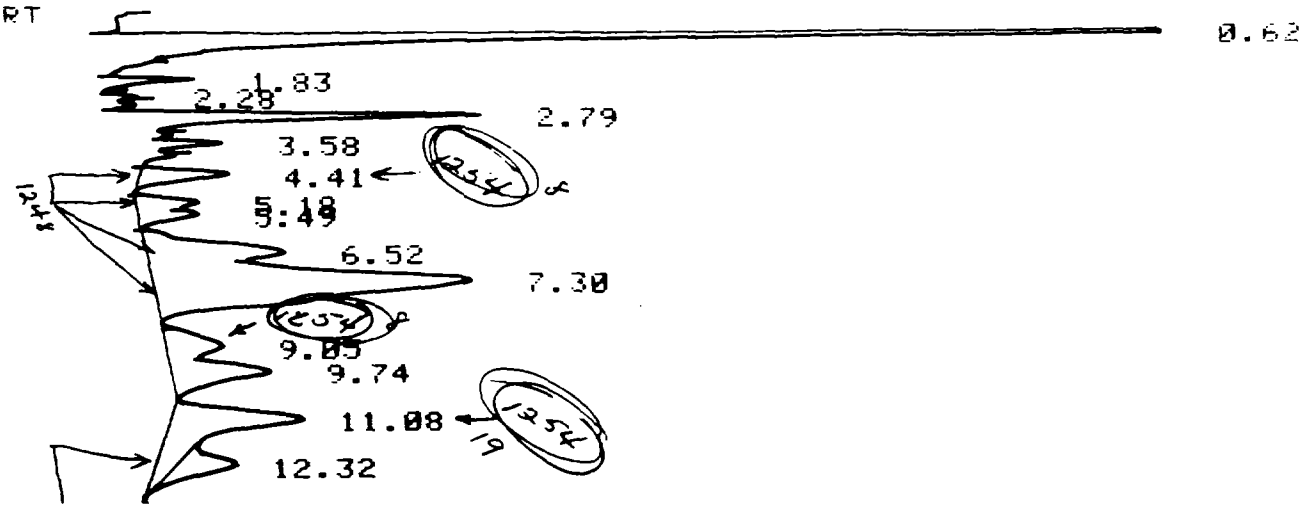
HP RUN # 6 OCT/14/85 TIME 11:44:36

AREAS?

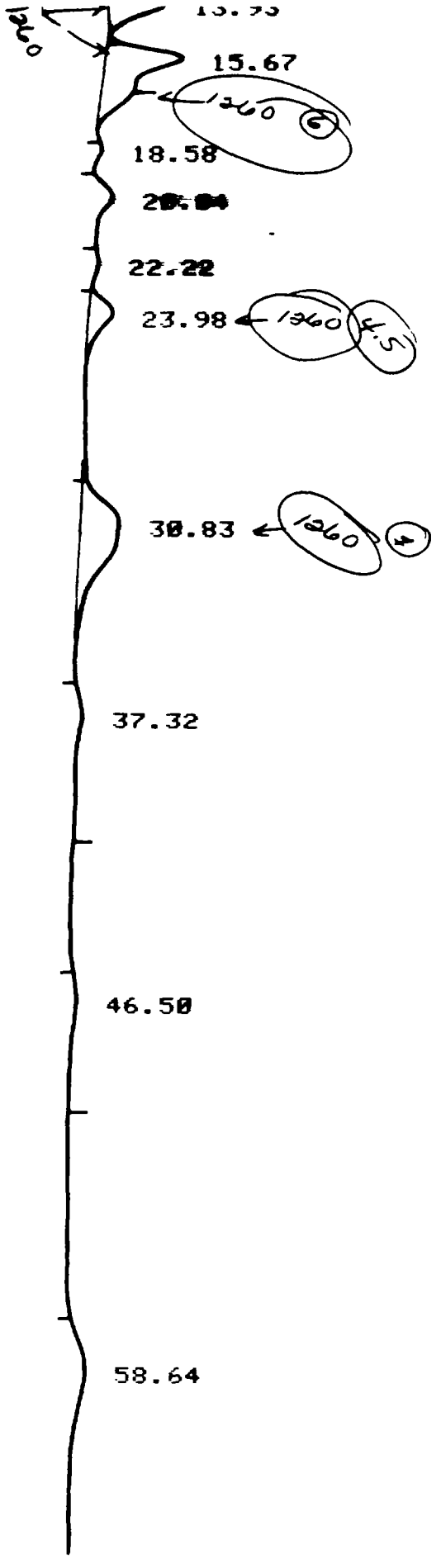
TEMP1	400	210	210
TIME1	65.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

CHT SPD	0.50	
ZERO	15.0	
ATTN 2↑	5	
AUX SGNL	+B	
SLP SENS	0.00	0.36
AREA REJ	100000	
FLOW A	0.0	0.0
FLOW B	0.0	46.1

START



© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2987 (and 2-2988 (box of 10 pads))



US Scrap #2

1/20,000 dil.

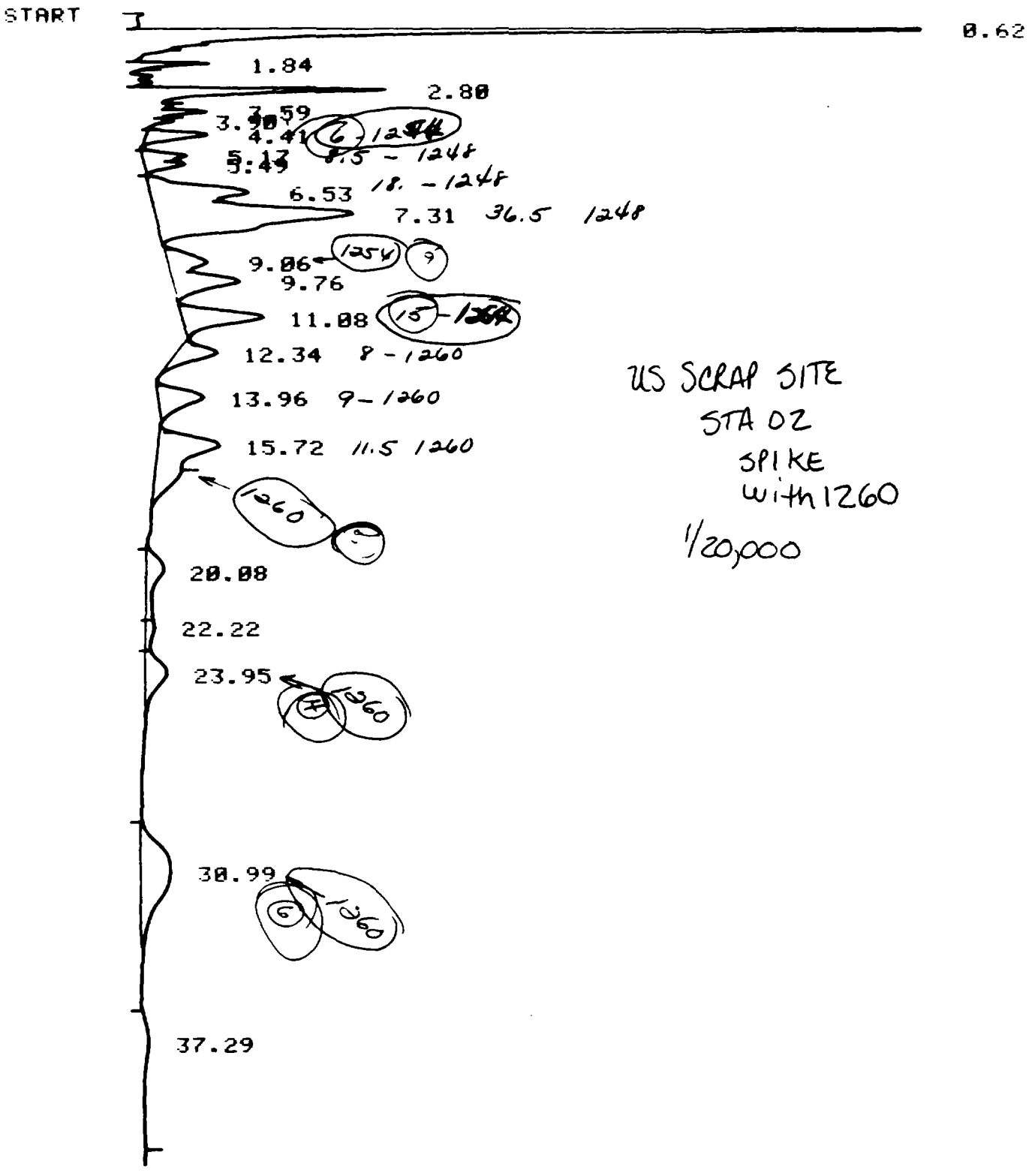
10.1g/20ml

HP RUN # 7 OCT/14/85 TIME 12:51:59
AREAS?

© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2987 (and) ... 2-2988 (box of 10 pads)

TEMP1	400	210	210
TIME1	65.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

CHT SPD	0.50	
ZERO	15.0	
ATTN 2↑	5	
AUX SGNL	+0	
SLP SENS	0.00	0.28
AREA REJ	100000	
FLOW A	0.0	0.0
FLOW B	0.0	46.1



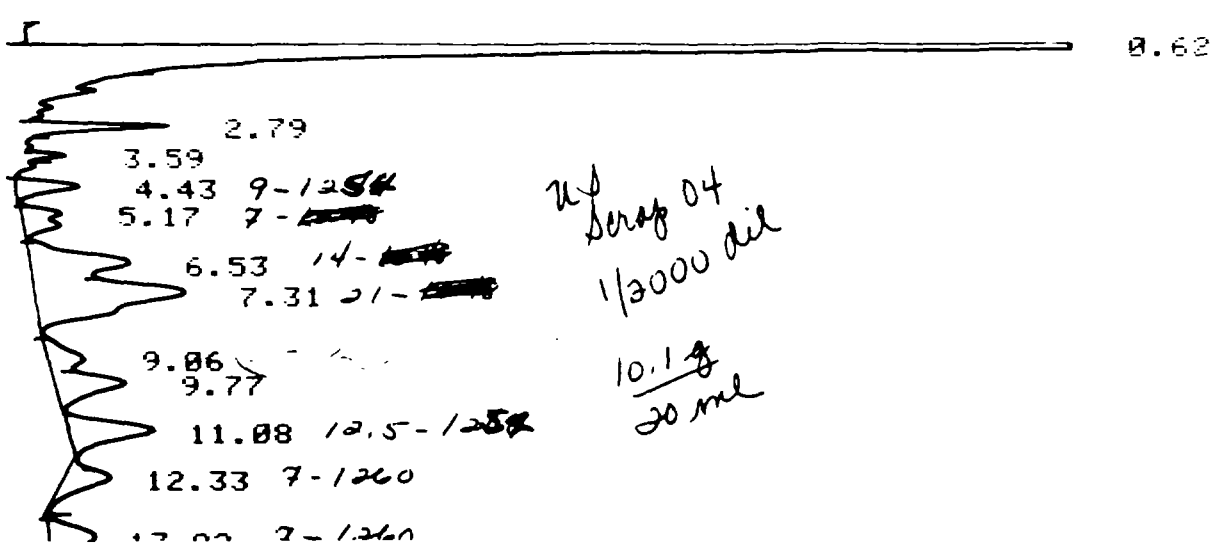
U. Scrap 2
spiked w/500 ml - 250 ppb
10.1 g/20 ml

HP RUN # 8 OCT/14/85 TIME 13:59:22
AREAS?

TEMP1	400	210	210
TIME1	65.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

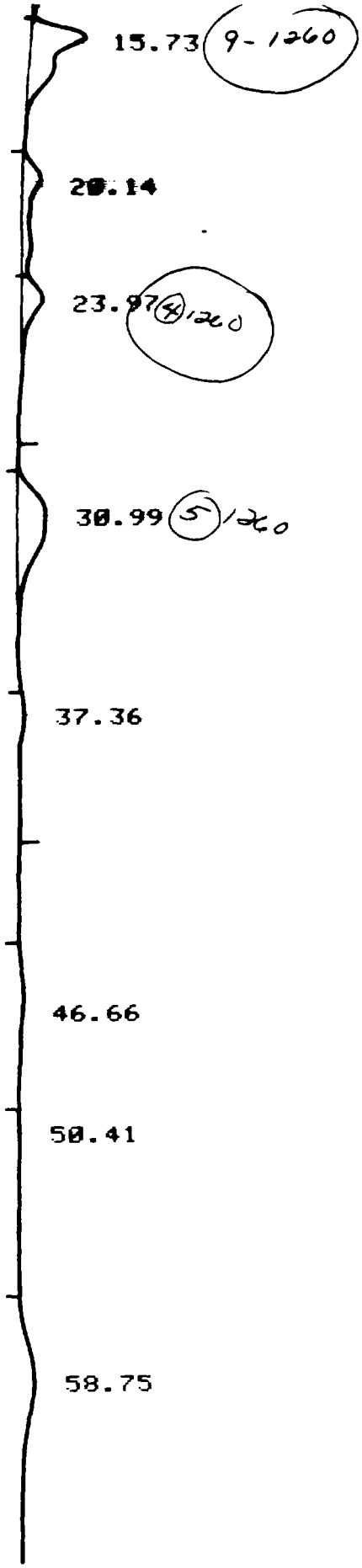
CHT SPD	0.50	
ZERO	15.0	
ATTN 2↑	5	
AUX SGNL	+B	
SLP SENS	0.00	0.40
AREA REJ	100000	
FLOW A	0.0	0.0
FLOW B	0.0	46.2

START



U Scrap 04
1/3000 dil
10.1 g
20 ml

© SUPELCO, INC., Bellevue, PA Cat. No. 2-2987 (pad); Cat. No. 2-2988 (box of 10 pads)



HP RUN # 9 OCT/14/85 TIME 15:06:45
ID:111061 BOTTLE 95
AREA %

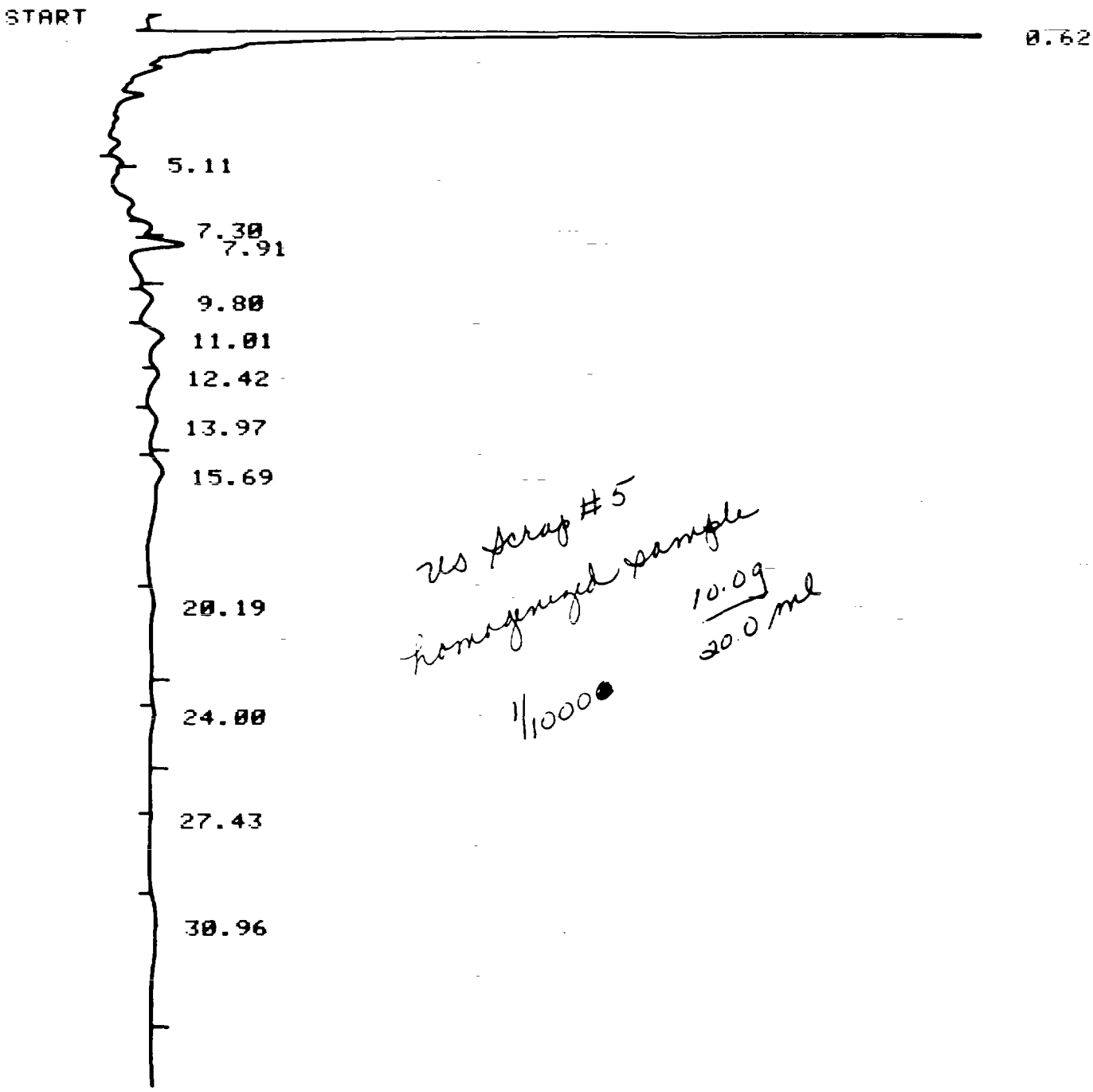
SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (pad): 1 2-2888 Box of 10 pads

0.62 154400 100.000

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	210	210
TIME1	65.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

CHT SPD	0.50	
ZERO	15.0	
ATTN 2↑	5	
AUX SGNL	+B	
SLP SENS	0.00	0.58
AREA REJ	100000	
FLOW A	0.0	0.0
FLOW B	0.0	46.1



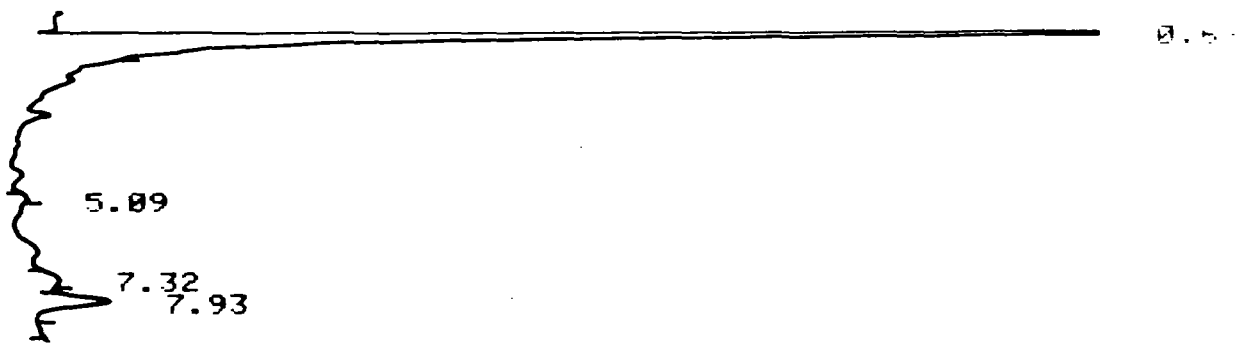
SUPELCO, INC. Bellefonte, PA Cat. No. 2-2807 (and) Cat. No. 2-2808 Box of 10 pads

HP RUN # 10 OCT/14/85 TIME 16:14:28
AREAS?

TEMP1	400	210	210
TIME1	65.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

CHT SPD	0.50	
ZERO	15.0	
ATTN 2↑	5	
AUX SGNL	+B	
SLP SENS	0.00	0.44
AREA REJ	100000	
FLOW A	0.0	0.0
FLOW B	0.0	46.1

START



SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (pad): C 2-2888 Box of 10 (pad)

9.73
11.07
12.39
13.89
15.59

US Scrap
5
Homogenized

1/1000

10.1 g
20 ml

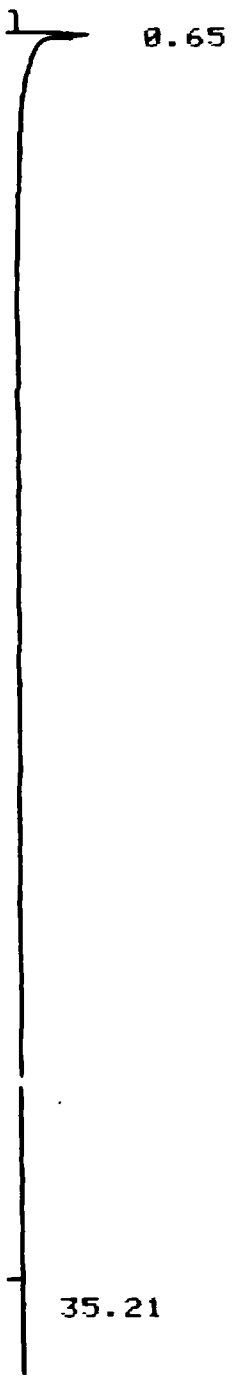
SUPELCO, INC., Bellefonte, PA Cat. No. 2-2987 (pad); Cat. No. 2-2988 (box of 10 pads)

HP RUN # 11 OCT/14/85 TIME 17:21:51
AREAS?

TEMP1	400	210	210
TIME1	65.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

CHT SPD	0.50	
ZERO	15.0	
ATTN 2↑	5	
AUX SGNL	+B	
SLP SENS	0.00	0.37
AREA REJ	100000	
FLOW A	0.0	0.0
FLOW B	0.0	46.2

START



SUPELCO, INC., Bellefonte, PA Cat. No. 2-2007 (pad); (
2-2000 Box of 10 pads)

44.58

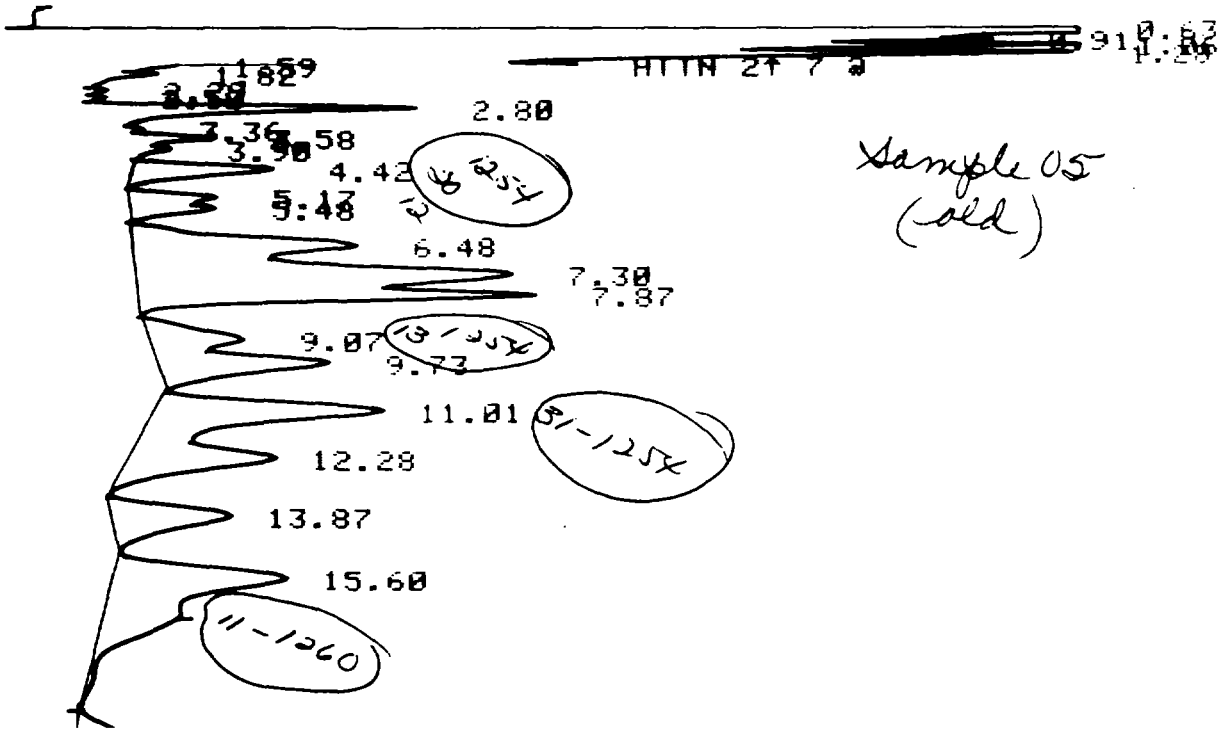
56.36

59.28

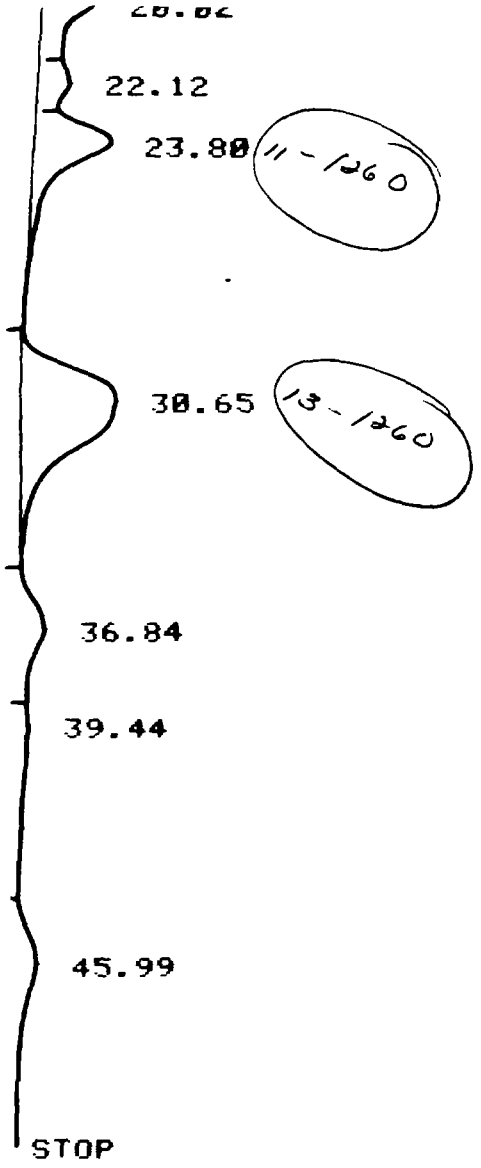
62.91

HP RUN # 12 OCT/14/85 TIME 18:29:14
AREAS?

TEMP1 400 210 210
ESCAPE
ESCAPE
START



© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (and) No. 2-2888 Box of 10 pads



1/200

Mb #5

HP RUN # 13 OCT/14/85 TIME 19:36:41
ID:111061 BOTTLE 80
AREA %

RT	AREA	AREA %
0.63	126200	7.147
4.42	105400	5.969
6.48	192000	10.873
7.30	270300	15.307
7.87	187000	10.590
9.07	134300	7.605
9.73	186500	10.561
11.01	224100	12.690
12.28	132800	7.520
30.65	207300	11.739

DIL FACTOR: 1.0000 E+ 0

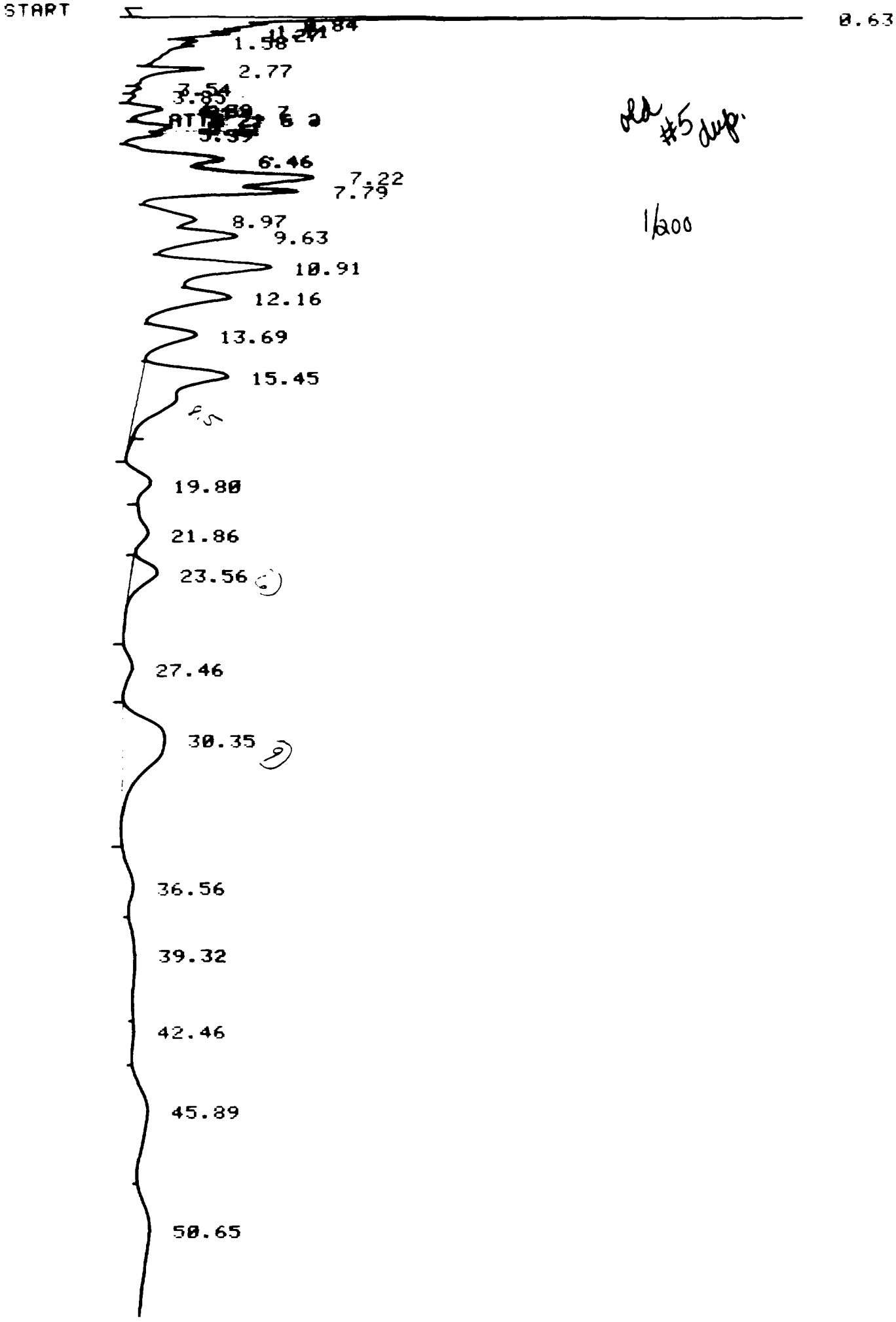
TEMP1	400	210	210
TIME1	65.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

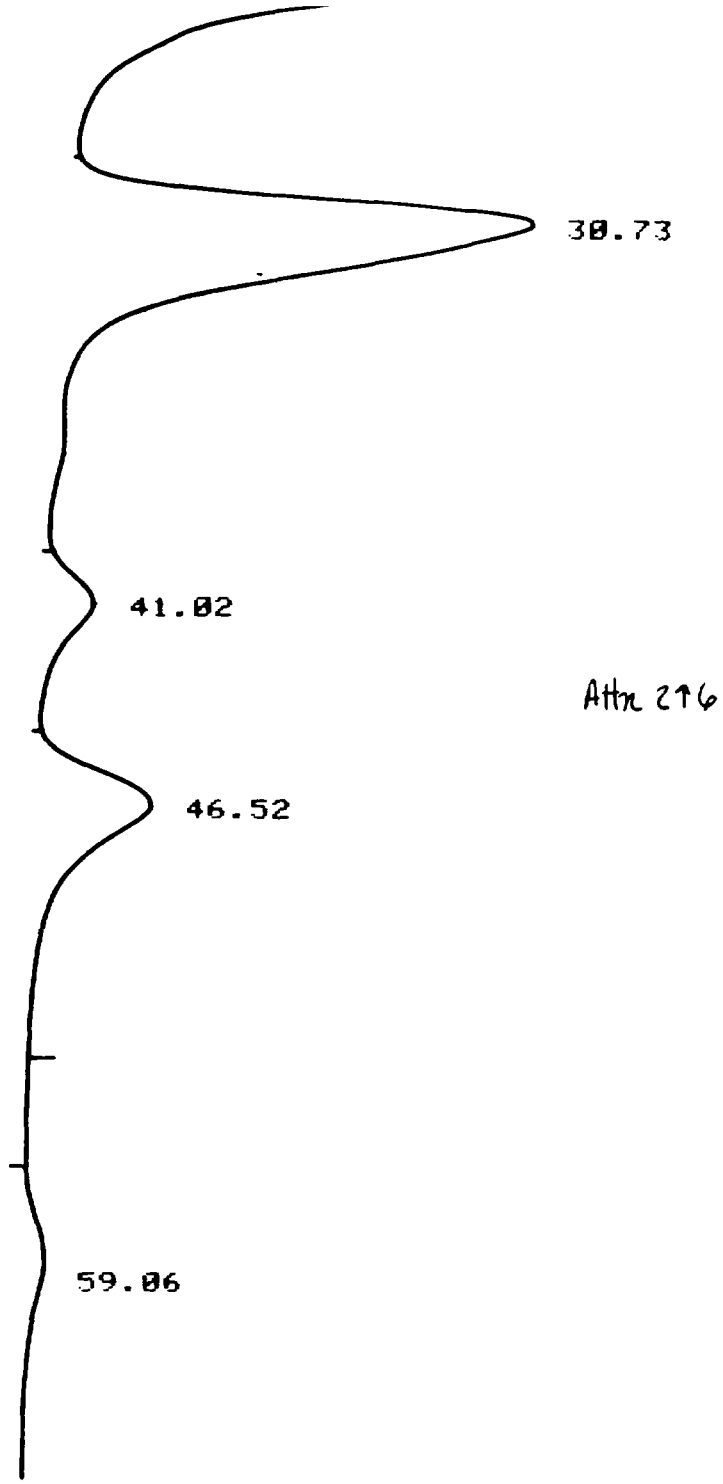
CHT SPD 0.50

© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2987 (pad); 2-2988 Box of 10 pads)

ATTN 2↑	7	
AUX SGNL	+B	
SLP SENS	0.00	0.43
AREA REJ	100000	
FLOW A	0.0	0.0
FLOW B	0.0	46.1

SUFFELCO, INC., Bellefonte, PA Cat. No. 2-2807 (pad); Cat. No. 2-2808 Box of 10 pads


START
0.63
1.58
2.77
3.54
3.85
6.46
7.22
7.79
8.97
9.63
10.91
12.16
13.69
15.45
19.80
21.86
23.56
27.46
30.35
36.56
39.32
42.46
45.89
50.65
old #5 dup.
1/200



Attn 2↑6

HP RUN # 15 OCT/14/85 TIME 21:39:05
ID:111061 BOTTLE 82
AREA %

RT	AREA	AREA %
9.92	123400	3.595
10.90	146300	4.262
12.25	328100	9.558
13.81	212700	6.196
15.53	285900	8.329
16.59	444200	12.940
20.17	192800	5.617
21.06	241700	7.041
23.82	687200	20.019
30.73	618100	18.006
46.52	152300	4.437

SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (and: C 2-2888 Box of 10 pads

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	210	210
TIME1	65.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

CHT SPD	0.50	
ZERO	15.0	
ATTN 2↑	6	
AUX SGNL	+B	
SLP SENS	0.00	0.51
AREA REJ	100000	
FLOW A	0.0	0.0
FLOW B	0.0	46.1

START 0.65

STOP

HP RUN # 16 OCT/14/85 TIME 22:47:34
AREAS?

TEMP1	400	210	210
TIME1	65.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

CHT SPD	0.50	
ZERO	15.0	
ATTN 2↑	6	
AUX SGNL	+B	
SLP SENS	0.00	0.50
AREA REJ	100000	
FLOW A	0.0	0.0
FLOW B	0.0	46.0

© SUPELCO, INC., Bellevue, PA Cat. No. 2-2987 (pad) No. 2-2988 (box of 10 pads)

56.93

64.02

HP RUN # 1 OCT/15/85 TIME 07:07:52
ID:111061 BOTTLE 81
AREA %

RT	AREA	AREA %
0.62	59050	1.399
0.83	65060	1.541
1.13	139800	3.312
1.29	63470	1.504
1.44	182600	4.326
1.83	488000	11.561
2.25	296100	7.014
3.90	66860	1.584
4.94	71220	1.687
7.39	667000	15.801
9.73	241900	5.731
10.72	121100	2.869
12.06	219900	5.209
13.55	126400	2.994
15.24	183500	4.347
16.26	239300	5.669
19.75	101700	2.409
20.68	128100	3.035
23.29	373400	8.846
30.01	303700	7.195
45.23	83100	1.969

DIL FACTOR: 1.0000 E+ 0

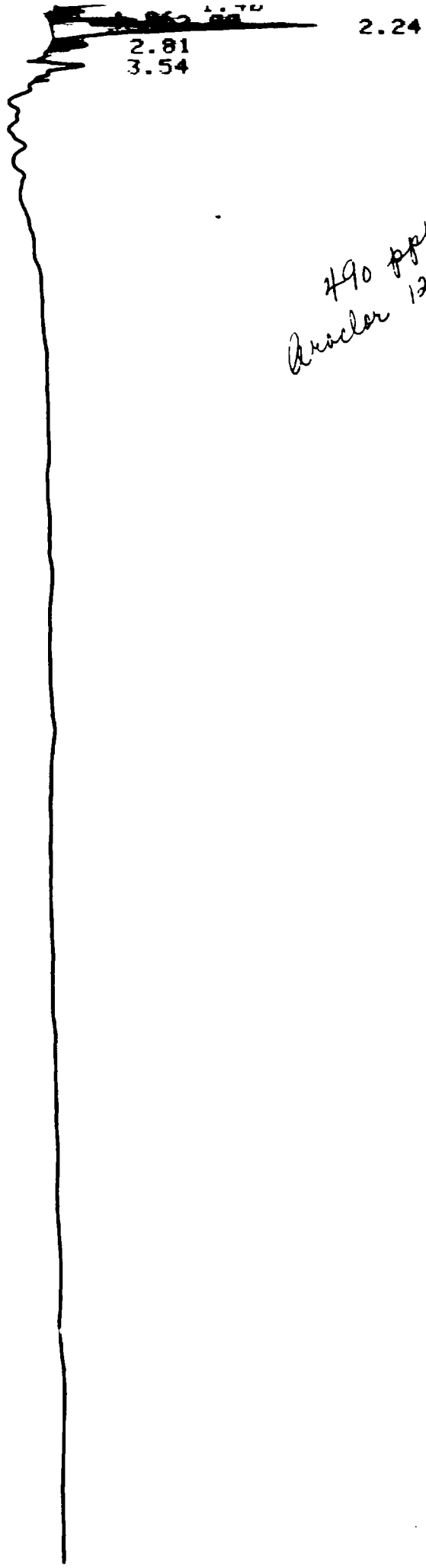
TEMP1 400 210 210
TIME1 65.00
INJ TEMP 400 250 250
FID TEMP 400 250 250
TCD TEMP 400 250 250
AUX TEMP 400 250 250

CHT SPD 0.50
ZERO 15.0
ATTN 2↑ 8
AUX SGNL +B
SLP SENS 0.00 0.55
AREA REJ 50000
FLOW A 0.0 0.0
FLOW B 0.0 46.1

START

0.62

SUPELCO, INC., Bellefonte, PA Cat. No. 2-2987 (and) Cat. No. 2-2988 Box of 10 pads)



490 ppb
Aroclor 1221

SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 Box No. 2-2888 Box of 10 pads

HP RUN # 2 OCT/15/85 TIME 08:17:07
ID:111061 BOTTLE 82
AREA %

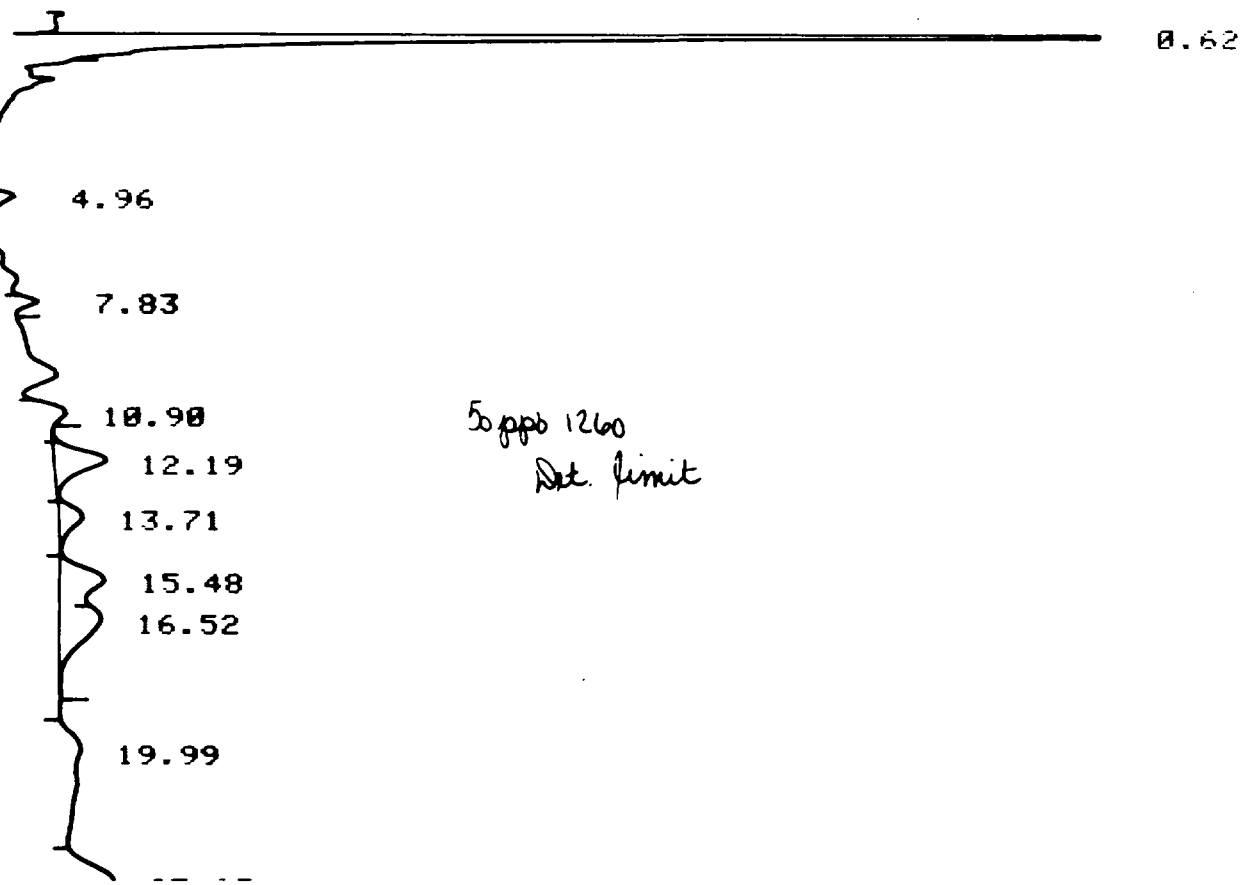
RT	AREA	AREA %
0.62	84820	100.000

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	210	210
TIME1	65.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

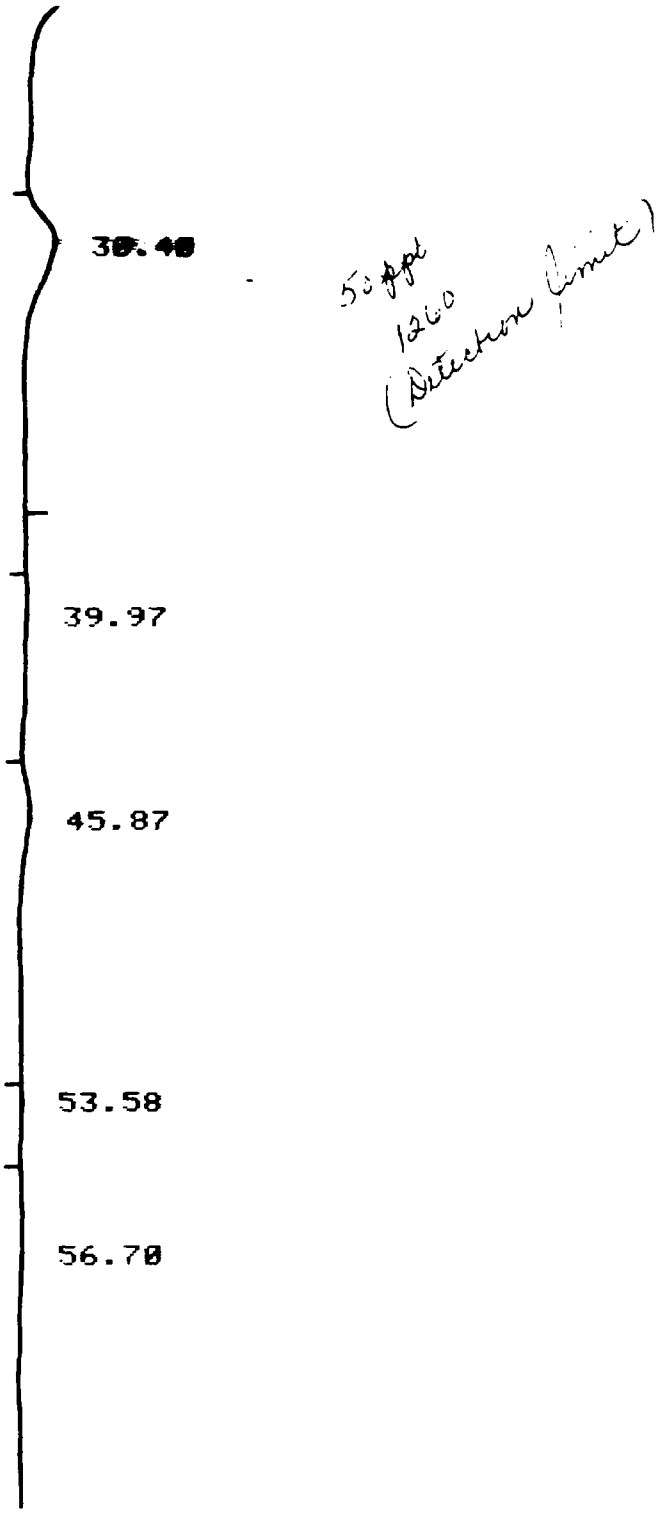
CHT SPD	0.50	
ZERO	15.0	
ATTN 2↑	5	
AUX SGNL	+B	
SLP SENS	0.00	0.54
AREA REJ	50000	
FLOW A	0.0	0.0
FLOW B	0.0	46.1

START



50 ppb 1260
Det. limit

SUPELCO, INC., Bellefonte, PA Cat. No. 2-2807 (and) Cat. No. 2-2808 Box of 10 (and)



HP RUN # 3 OCT/15/85 TIME 09:24:50
ID:111061 BOTTLE 83
AREA %

RT	AREA	AREA %
0.62	82080	100.000

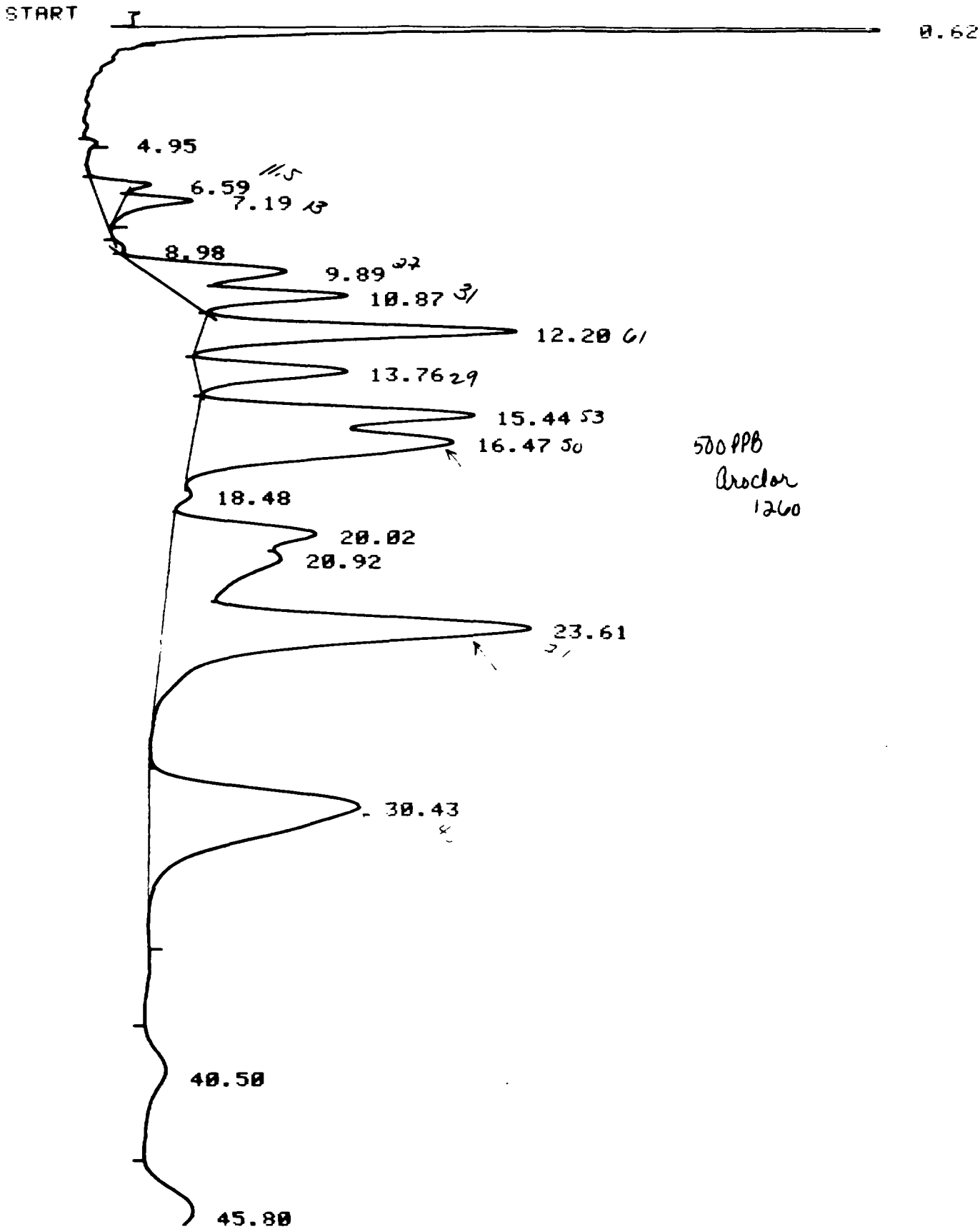
OIL FACTOR: 1.0000 E+ 0

TEMP1	400	210	210
TIME1	65.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250

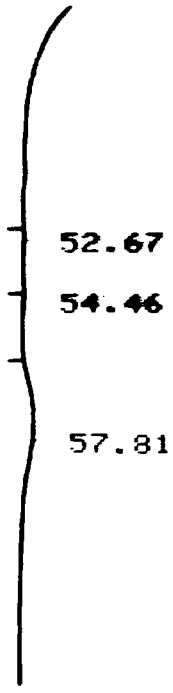
© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (pad) No. 2-2888 (box of 10 pads)

AUX TEMP 400 250 250

CHT SPD	0.50	
ZERO	15.0	
ATTN 2↑	5	
AUX SGNL	+B	
SLP SENS	0.00	0.41
AREA REJ	50000	
FLOW A	0.0	0.0
FLOW B	0.0	46.1



© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2987 (pad); Cat. No. 2-2988 (box of 10 pads)



500 ppb
Aroclor 1260

HP RUN # 4 OCT/15/85 TIME 10:32:33
ID:111061 BOTTLE 84
AREA %

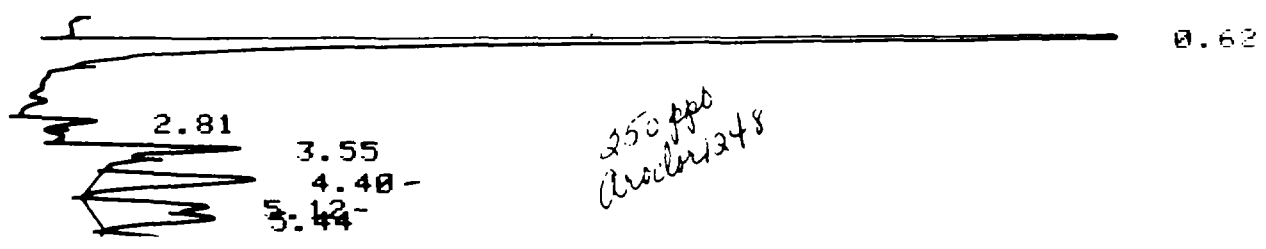
RT	AREA	AREA %
0.62	83660	7.995
10.87	50510	4.827
12.20	108000	10.321
13.76	70980	6.783
15.44	96480	9.220
16.47	140000	13.380
20.02	66920	6.395
20.92	75720	7.236
23.61	202600	19.362
30.43	151500	14.479

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	210	210
TIME1	65.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

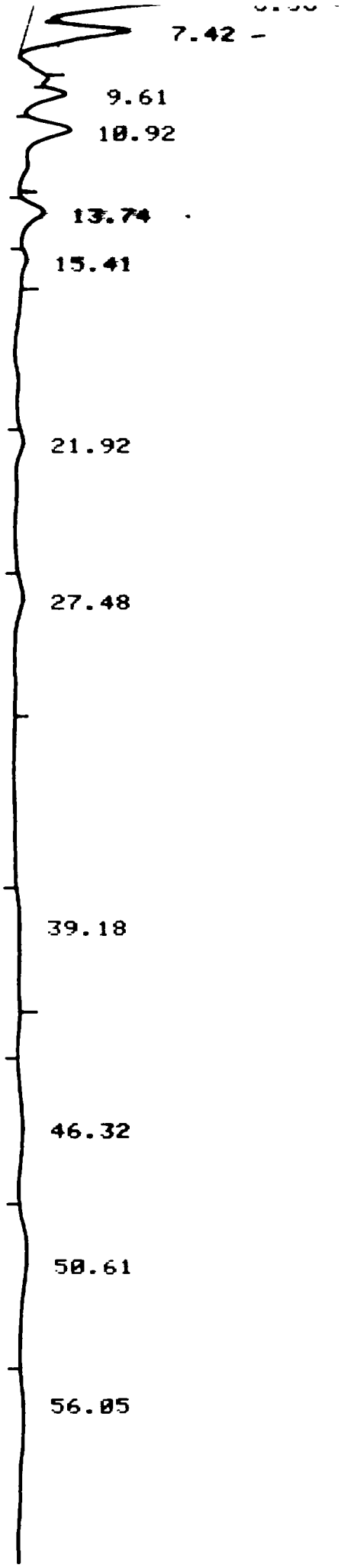
CHT SPD	0.50	
ZERO	15.0	
ATTN 2↑	5	
AUX SGNL	+B	
SLP SENS	0.00	0.42
AREA REJ	50000	
FLOW A	0.0	0.0
FLOW B	0.0	46.1

TART



250 ppb
Aroclor 1248

© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2987 (and No. 2-2988 (box of 10 pads)



© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2987 (pad); 2-2988 (box of 10 pads)

63.83

HP RUN # 5 OCT/15/85 TIME 11:40:58
ID:111061 BOTTLE 85
AREA %

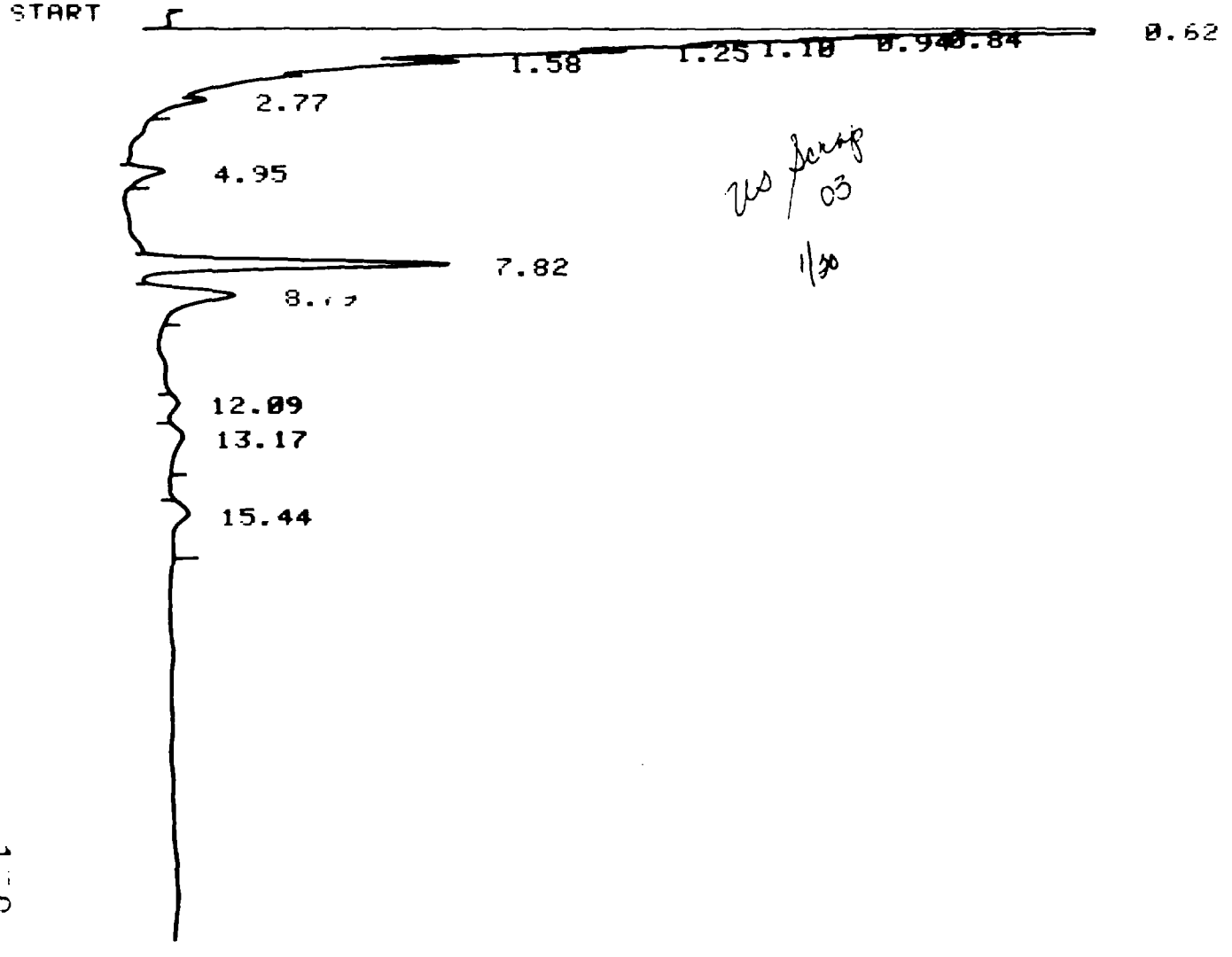
RT	AREA	AREA %
0.62	83980	100.000

DIL FACTOR: 1.0000 E+ 0

TEMP1	400	210	210
TIME1	65.00		
INJ TEMP	400	250	250
FID TEMP	400	250	250
TCD TEMP	400	250	250
AUX TEMP	400	250	250

CHT SPD	0.50	
ZERO	15.0	
ATTN 2↑	5	
AUX SGNL	+B	
SLP SENS	0.00	0.38
AREA REJ	50000	
FLOW A	0.0	0.0
FLOW B	0.0	46.1

START



US Scrap 03
1/30

© SUPELCO, INC., Bellefonte, PA Cat. No. 2-2887 (pe No. 2-2888 (box of 10 pads)

170

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

WASTE PROFILE SHEET CODE: COL
TSDR: F61874

A GENERAL INFORMATION

GENERATOR NAME: U.S. EPA
TRANSPORTER: To BE DETERMINED
FACILITY ADDRESS: U.S. SCRAP
12300 S. COTTAGE GROVE
CHICAGO, IL
TRANSPORTER PHONE:
GENERATOR USEPA I.D.: ILD980679484
GENERATOR STATE I.D.:
TECHNICAL CONTACT: BRIAND WU
TITLE: ON SCENE COORDINATOR
PHONE: 312/886-6246
NAME OF WASTE: COMPOSITE 3, 5, 13
PROCESS GENERATING WASTE: WASTE SITE CLEANUP

B PHYSICAL CHARACTERISTICS OF WASTE

COLOR: BEIGE, BROWN BLACK
ODOR: ☐ NONE ☐ MILD ☐ STRONG
DESCRIBE: NA
PHYSICAL STATE @ 70°F: ☒ SOLID ☐ SEMI-SOLID ☐ LIQUID ☐ POWDER
LAYERS: ☐ MULTILAYERED ☐ BI-LAYERED ☒ SINGLE PHASED
FREE LIQUIDS: ☐ YES ☒ NO
VOLUME: %

☐ < 2	☐ 7.1-10	☐ N/A	
☐ 2-4	☐ 10.1-12.5		
☒ 4.1-6.9	☐ > 12.5		
☐ 7	☒ EXACT 6.4		

SPECIFIC GRAVITY: ☐ < .8 ☐ 1.3-1.4 ☐ .8-1.0 ☐ 1.5-1.7 ☐ 1.1-1.2 ☐ > 1.7 ☐ EXACT NA

FLASH POINT: ☐ < 70°F ☐ > 200°F ☒ CLOSED CUP ☐ 70°F-100°F ☐ NO FLASH ☐ OPEN CUP ☐ 101°F-139°F ☒ EXACT <80°F ☐ 140°F-200°F

C CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

INORGANIC SALTS	51 %
PLASTICS	39 %
VOLATILE ORGANICS	5 %
WATER	5 %

D METALS ☐ TOTAL (PPM) ☒ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	<0.5 mg/L	SELENIUM (Se)	<0.1 mg/L
BARIUM (Ba)	<10 mg/L	SILVER (Ag)	<0.5 mg/L
CADMIUM (Cd)	0.3 mg/L	COPPER (Cu)	<0.5 mg/L
CHROMIUM (Cr)	0.5 mg/L	NICKEL (Ni)	<0.5 mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	14 mg/L
LEAD (Pb)	200 mg/L	THALLIUM (Tl)	NA
CHROMIUM-HEX (Cr + 6)	NA		

E OTHER COMPONENTS - TOTAL (PPM)

CYANIDES: FREE <5.0 ppm; TOTAL 25 ppm
SULFIDES: REACTIVE <5.0 ppm; TOTAL 5 ppm
PCB'S: NA
PHENOLICS: 1

F SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO
PROPER SHIPPING NAME: FLAMMABLE SOLID, n.o.s.
HAZARD CLASS: FLAMMABLE SOLID I.D. NO. UN1325 R.Q.
METHOD OF SHIPMENT: ☐ BULK LIQUID ☐ BULK SOLID ☒ DRUM (TYPE/SIZE) 55 gal
ANTICIPATED VOLUME: GALS. CUBIC YARDS 3 DRUMS OTHER
PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐

G HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER
OTHER HAZARDOUS CHARACTERISTICS: ☐ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☒ OTHER IGNITABLE
USEPA HAZARDOUS WASTE? ☐ YES ☐ NO
USEPA HAZARDOUS CODE(S): D008, D001
STATE HAZARDOUS WASTE? ☒ YES ☐ NO
STATE CODE(S):

H SPECIAL HANDLING INFORMATION CONTACT REGARDING INFORMATION & BILLING
IEI ASSOCIATES INC; 11499 CHESTER RD. CINCINNATI, OH 45246. ATTN: PAUL KEFAUVER 513/782-4841 ☒ ADDITIONAL PAGE(S) ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE, AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED.

AUTHORIZED SIGNATURE: [signature] TITLE: [illegible] DATE: 2-7-86

Chemical Waste Management, Inc.
Emelle Facility
PO Box 55
Emelle, Alabama 35459
205/652-9721

DATE 3/20/86

O: Ray F Weston
6666 Dundee, Suite 150-1
Northbrook, Ill 60062
Attn: Jim Gainer

WPS# COLF61872

WASTE NAME
Flam Solid

ROM: Pam Massey / Susan Stokes / Bob Hubert

The above mentioned disposal application has been received by the Emelle Sales Lab. Any deficiencies noted must be resolved before any further action will be taken toward waste stream approval at Chemical Waste Management of Alabama. This must be resolved within thirty(30) days or the waste profile will be classed as outdated.

Until this information is received and approval granted, this waste stream cannot be scheduled into the site for disposal.

( ) Need completed Waste Profile Sheet.

( ) Waste Profile Sheet must be signed.

( ) Need completed Certification of Representative Sample.

( ) Need Representative Sample of waste.

( ) Need 100% components and their percentages.

(X) Other Need explanation of the generation of these drums. Also a letter ~~stating~~ explaining the process at the generating location and how these came to be. Also a letter certifying the sample the analysis was done on was a representative sample of the waste stream.

All changes made to the Waste Profile Sheet must be signed and dated by the Generator.

LA/st

Waste Management, Inc.
GENERATOR'S WASTE MATERIAL PROFILE SHEET

COL TSDR F61872

A. GENERAL INFORMATION

GENERATOR NAME: U.S. EPA
TRANSPORTER: To Be Determined
FACILITY ADDRESS: U.S. SCRAP
12300 S. COTTAGE GROVE
CHICAGO, IL
TRANSPORTER PHONE:
GENERATOR USEPA I.D. ILD980679484
GENERATOR STATE I.D.
TECHNICAL CONTACT: BRIAND WU
TITLE: ON-SCENE COORDINATOR
PHONE: 312/886-6246
NAME OF WASTE: FLAMMABLE SOLID
PROCESS GENERATING WASTE: WASTE SITE CLEANUP

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: BLACK
ODOR: ☐ NONE ☐ MILD ☐ STRONG
DESCRIBE: NA
PHYSICAL STATE @ 70°F: ☐ SOLID ☒ SEMI-SOLID ☐ LIQUID ☐ POWDER
LAYERS: ☐ MULTILAYERED ☐ BI-LAYERED ☒ SINGLE PHASED
FREE LIQUIDS: ☐ YES ☒ NO
VOLUME: ____ %

pH: ☐ < 2 ☒ 7.1-10 ☐ N/A ☐ 2-4 ☐ 10.1-12.5 ☐ 4.1-6.9 ☐ > 12.5 ☐ 7 ☒ EXACT 7.2

SPECIFIC GRAVITY: ☐ < .8 ☐ 1.3-1.4 ☐ .8-1.0 ☐ 1.5-1.7 ☐ 1.1-1.2 ☐ > 1.7 ☐ EXACT NA

FLASH POINT: ☐ < 70°F ☐ > 200°F ☒ CLOSED CUP ☒ 70°F-100°F ☐ NO FLASH ☐ OPEN CUP ☐ 101°F-139°F ☒ EXACT 85°F ☐ 140°F-200°F

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

INORGANIC SALTS ash	6 %
PLASTICS (ash total solid heavy resins)	30 %
VARNISH	35 %
WATER	9 %
VOLATILE ORGANICS	10 %
Total sol. & H2O	%
Eff VO	%
Gulf coast Chicago Ill 312-534-5200 Don Gipple	%
	%
	%

D. METALS ☐ TOTAL (PPM) ☒ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	<0.5 mg/L	SELENIUM (Se)	<0.1 mg/L
BARIUM (Ba)	<10 mg/L	SILVER (Ag)	<0.5 mg/L
CADMIUM (Cd)	0.1 mg/L	COPPER (Cu)	0.6 mg/L
CHROMIUM (Cr)	<0.5 mg/L	NICKEL (Ni)	0.5 mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	8.8 mg/L
LEAD (Pb)	0.5 mg/L	THALLIUM (Tl)	NA
CHROMIUM-HEX (Cr + 6)	NA		

E. OTHER COMPONENTS - TOTAL (PPM)

CYANIDES	TOTAL <5 ppm REACTIVE <5 ppm	PCB'S	NA
SULFIDES	TOTAL <5 ppm REACTIVE <5 ppm	PHENOLICS	26 ppm

F. SHIPPING INFORMATION

DOT HAZARDOUS MATERIAL? ☒ YES ☐ NO
PROPER SHIPPING NAME: FLAMMABLE SOLID, n.o.s
HAZARD CLASS: FLAMMABLE SOLID I.D. NO. UN 1325 R.Q.
METHOD OF SHIPMENT: ☐ BULK LIQUID ☐ BULK SOLID ☒ DRUM (TYPE/SIZE) 55 GAL
ANTICIPATED VOLUME: ____ GALS. ____ CUBIC YARDS 1 DRUM OTHER ____
PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐ ____

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER ____
OTHER HAZARDOUS CHARACTERISTICS: ☐ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☒ OTHER IGNITABLE
USEPA HAZARDOUS WASTE? ☒ YES ☐ NO
USEPA HAZARDOUS CODE(S): D001
STATE HAZARDOUS WASTE? ☒ YES ☐ NO
STATE CODE(S): ____

H. SPECIAL HANDLING INFORMATION CONTACT REGARDING INFORMATION + BILLING
PEI ASSOCIATES 11499 CHESTER RD. CINCINNATI, OH 45246
ATTN: PAUL REFAUVER 513/782-4841
☒ ADDITIONAL PAGE(S) ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE, AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED

AUTHORIZED SIGNATURE	TITLE	DATE
Briand C. Wu	OSC	2-7-86

EXHIBIT B

Chemical Waste Management Inc.

SUPPLEMENTAL INFORMATION DOCUMENT: NUMBER 3-054-86

This Document supplements, and is part of, that certain "Waste Disposal Agreement", (hereinafter "the Agreement"), entered into by and between P.E.I. ASSOCIATES, (hereinafter "P.E.I. ASSOCIATES"), and CHEMICAL WASTE MANAGEMENT, INC., (hereinafter "the Disposer"), on May 29, 1985. The provisions of this Document shall be incorporated into the Agreement.

1. DESCRIPTION OF WASTE MATERIALS. The "Waste Materials", to which the Agreement refers, are as described in the "Generator's Waste Material Profile Sheet", Code Designation COL F61865, attached hereto and made part hereof.

Containers are to be provided by _____ according to the following specifications:

DOT approved containers to be properly labeled according to EPA Regulations.

2. TENDER OF WASTE MATERIALS. P.E.I. ASSOCIATES shall deliver the above Waste Materials to Disposer as follows:

(a) Quantity of Waste Materials to be Tendered Over Term.

(1) Estimated.
As indicated on attached Profile sheet

(2) Guaranteed (if applicable).
Not Applicable

(b) Maximum/Minimum Quantity of Waste Materials Per Tender (if tendered in installments).
Not Applicable

(c) Place of Tender.
Chemical Waste Management, Inc.
Highway 17 @ Milemarker #163
Emelle, Alabama 35459

(d) Time and Frequency of Tender.
To be mutually agreed upon between Transporter and Disposer

(e) Manner of Tender (including notification to Disposer):
To be mutually agreed upon between Generator and Transporter

3. STORAGE FACILITY. Disposer shall store the Waste Materials at the following storage facility for a period not to exceed _____ days, from which facility the Waste Materials will then be removed to the Disposal Facility:

(a) Name/Address of Storage Facility:
Not Applicable

(b) Name/Address of Facility Permittee:
Not Applicable

(c) Permit Number(s)/Initiation and Termination Date(s):
Not Applicable

(d) Permitting Authority(ies):
Not Applicable

4. DISPOSAL FACILITY. Disposer shall dispose of the above Waste Materials at the following disposal facility (or facilities):

(a) Name/Address of Disposal Facility (Facilities):
Chemical Waste Management, Inc.
Highway 17 @ Milemarker #163
Emelle, Alabama 35459

(b) Name/Address of Facility Permittee:
Same as (a) above

(c) Permit Number(s)/Initiation and Termination Date(s):
Site # 9011190001
US EPA ID # ALD000622464

(d) Permitting Authority(ies):
Division of Solid Waste & Vector Control
Dept of Public Health
State Office Building
Montgomery, AL 36130

5. DISPOSAL METHODS: Disposer shall utilize one or more of the following methods for the disposal of the Waste Materials:

Drum decanting, liquid solidification and burial in a secure chemical landfill.

6. EMERGENCY SERVICES: Disposer shall provide emergency storage or disposal services, with respect to the above Waste Materials, pursuant to the following:

Not applicable

7. RECLAMATION AND/OR SALE OF WASTE MATERIALS: Disposer is authorized to reclaim, recover and sell, distribute or use the Waste Materials, their components or residues as follows:

Not Applicable

8. COMPENSATION. The Transporter shall compensate Disposer as follows:

(a) For Storage and Disposal of Waste Materials.
Not Applicable

(b) For Disposal of Waste Materials Only.
DISPOSAL: $65.00 PER CUBIC YARD

PLUS APPLICABLE STATE, FEDERAL AND LOCAL TAXES

(c) Emergency Services.
Not Applicable

(d) Measurement of Waste Materials. Waste Materials shall be measured by Disposer for the purpose of computing fees hereunder, at the time and place, and in the matter, as follows:

Per the amount listed on the manifest. Amount is subject to physical verification and Disposer's personnel. Discrepancies will be resolved prior to final acceptance.

(e) P.E.I.'S Billing Address. Disposer shall submit its statements to:
P.E.I. ASSOCIATES
11499 Chester Road
Cincinnati, OH 45246-0100
Attn: Mike Hessling/Paul Kefauver

(f) Disposer Billing Address. Disposer will issue its billings from the following:

Chemical Waste Management, Inc.
Highway 17 @ Milemarker #163
Emelle, Alabama 35459

(g) Fees Subject to Change. Fees specified in subsections (a) - (c) above may be changed by Disposer upon thirty (30) days written notice to Transporter.

9. TERM. The term of the Agreement, with respect to the Waste Materials covered in this document, shall be as follows: (If provision is to be made for termination without cause, upon written notice, insert such provisions below the term of the Agreement).

The term of this agreement will be in effect from the date signed below to the decision expiration date of 2-19-87. May be terminated by either party with 30 day written notification.

10. LAW TO GOVERN. The Agreement and this Supplemental Information Document shall be governed and construed in accordance with the laws of Alabama.

11. MISCELLANEOUS CONDITIONS
DOT APPROVED CONTAINERS
O.K. IN BULK SOLID

By their signatures hereto, the parties agree that this Supplemental Information Document shall be considered an attachment to, and part of, that certain "Waste Disposal Agreement" identified above.

Date: _____

P.E.I. ASSOCIATES

By: _____

Title: _____

CHEMICAL WASTE MANAGEMENT, INC.

By: _____
Walter Watson

Title: Sales Manager - Northern Region

/sw/Joe Keller/Alabama

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

COL TSDR F61865

A. GENERAL INFORMATION

GENERATOR NAME: U.S. EPA
FACILITY ADDRESS: U.S. SCRAP
12300 S. COTTAGE GROVE
CHICAGO IL
TECHNICAL CONTACT: BRIAN WU TITLE: ON SCENE COORDINATOR PHONE: 312/886-6246
NAME OF WASTE: CRUSHED DRUMS
PROCESS GENERATING WASTE: WASTE SITE CLEANUP

TRANSPORTER: TO BE DETERMINED
TRANSPORTER PHONE:
GENERATOR USEPA I.D. ILD980679484
GENERATOR STATE I.D.

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: NA

ODOR: ☐ NONE ☐ MILD ☐ STRONG DESCRIBE: NA

PHYSICAL STATE @ 70°F: ☒ SOLID ☐ SEMI-SOLID ☐ LIQUID ☐ POWDER

LAYERS: ☐ MULTILAYERED ☐ BI-LAYERED ☒ SINGLE PHASED

FREE LIQUIDS: ☐ YES ☒ NO VOLUME: %

pH: ☐ < 2 ☐ 7.1-10 ☒ N/A ☐ 2-4 ☐ 10.1-12.5 ☐ 4.1-6.9 ☐ > 12.5 ☐ 7 ☐ EXACT

SPECIFIC GRAVITY: ☐ < .8 ☐ 1.3-1.4 ☐ .8-1.0 ☐ 1.5-1.7 ☐ 1.1-1.2 ☐ > 1.7 ☐ EXACT NA

FLASH POINT: ☐ < 70°F ☐ > 200°F ☐ CLOSED CUP ☐ 70°F-100°F ☐ NO FLASH ☐ OPEN CUP ☐ 101°F-139°F ☐ EXACT NA ☐ 140°F-200°F

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

CRUSHED DRUMS & DEBRIS	100 %
(liquids contained in drums & solvent B)	%
	%
	%
	%
	%
	%
	%
	%
	%
	%

D. METALS ☐ TOTAL (PPM) ☐ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	NA	SELENIUM (Se)	NA
BARIUM (Ba)	NA	SILVER (Ag)	NA
CADMIUM (Cd)	NA	COPPER (Cu)	NA
CHROMIUM (Cr)	NA	NICKEL (Ni)	NA
MERCURY (Hg)	NA	ZINC (Zn)	NA
LEAD (Pb)	NA	THALLIUM (Tl)	NA
CHROMIUM-HEX (Cr + 6)	NA		

E. OTHER COMPONENTS TOTAL (PPM)

CYANIDES	NA	PCB'S	NA
SULFIDES	NA	PHENOLICS	NA

F. SHIPPING INFORMATION

IS IT HAZARDOUS MATERIAL? ☒ YES ☐ NO
PROPER SHIPPING NAME: HAZARDOUS WASTE SOLID, n.o.s.
HAZARD CLASS: ORM-E I.D. NO.: NA 9189 R.Q.:
METHOD OF SHIPMENT: ☐ BULK LIQUID ☒ BULK SOLID ☐ DRUM (TYPE/SIZE)
ANTICIPATED VOLUME: GALS. 20 CUBIC YARDS ☐ OTHER
PER ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER

OTHER HAZARDOUS CHARACTERISTICS:
☒ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☐ OTHER

USEPA HAZARDOUS WASTE? ☐ YES ☒ NO
USEPA HAZARDOUS CODE(S):
STATE HAZARDOUS WASTE? ☐ YES ☒ NO
STATE CODE(S):

H. SPECIAL HANDLING INFORMATION CONTACT REGARDING INFORMATION & BILLING
PEI ASSOCIATES, INC.; 11499 CHESTER RD; CINCINNATI, OH 45246
ATTN: PAUL KEFAUVER 513/782-4841

☐ ADDITIONAL PAGE(S) ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE, AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED.

AUTHORIZED SIGNATURE: Brian C. Wu TITLE: ASC DATE: 2-7-86

for Stevens Service 2/19/86

SALES	CODE
COL	F61862

WASTE PROFILE SHEET CODE

CERTIFICATION OF REPRESENTATIVE SAMPLE

GENERAL DIRECTIONS: IN ORDER TO DETERMINE WHETHER WE CAN ACCEPT THE SPECIAL WASTE DESCRIBED IN THE ABOVE NUMBERED PROFILE SHEET, WE MUST OBTAIN A REPRESENTATIVE SAMPLE OF THE WASTE. WE WILL ANALYZE THE SAMPLE TO VERIFY THE INFORMATION YOU HAVE PROVIDED US, SO IT IS PARTICULARLY IMPORTANT THAT THE SAMPLE BE TRULY REPRESENTATIVE. IN MOST CIRCUMSTANCES YOU WILL BE OBTAINING THE SAMPLE. HOWEVER, IN THOSE CASES IN WHICH WE OBTAIN THE SAMPLE, WE MUST ASK THAT ONE OF YOUR EMPLOYEES BE PRESENT TO DIRECT THE PARTICULAR SOURCE TO BE SAMPLED AND TO WITNESS THE SAMPLING. IN SUCH CASE, YOUR EMPLOYEE MUST SIGN THIS CERTIFICATION AS A WITNESS.

THIS CERTIFICATION MUST BE RETURNED, WITH THE REPRESENTATIVE WASTE SAMPLE, TO:

(*) Note - a representative waste sample has not been sent to CWM because the enclosed chemical waste analysis was performed by a CWM-approved laboratory.

THE UNDERSIGNED CERTIFIES THAT HE/SHE OBTAINED A REPRESENTATIVE SAMPLE OF THE WASTE MATERIAL DESCRIBED IN THE "GENERATOR'S WASTE MATERIAL PROFILE SHEET" ABOVE REFERENCED, AND THAT THE FOLLOWING REPRESENTATIONS ARE TRUE AND CORRECT:

1. HOUR AND DATE OF SAMPLING: _____
2. SOURCE FROM WHICH SAMPLE TAKEN: _____
3. EQUIPMENT AND SAMPLING METHOD USED: _____
4. AMOUNT OF SAMPLE OBTAINED: _____
5. TYPE OF CONTAINER INTO WHICH SAMPLE WAS PLACED: _____
6. THE SAMPLING EQUIPMENT USED, AND THE CONTAINER INTO WHICH THE SAMPLE WAS PLACED, WERE THEMSELVES UNCONTAMINATED BEFORE USE.
7. AT THE TIME OF SAMPLING I AFFIXED A LABEL TO THE CONTAINER IN THE FOLLOWING FORM WITH THE FOLLOWING INFORMATION (FILL IN THIS PORTION, INCLUDING YOUR SIGNATURE, JUST AS IT APPEARS ON THE LABEL YOU PREPARED):

GENERATOR:
WASTE NAME:
SAMPLE HOUR/DATE:
PROFILE SHEET CODE:
SAMPLER SIGNATURE:

WITNESS VERIFICATION: I WAS PERSONALLY PRESENT DURING THE SAMPLING DESCRIBED; I DIRECTED THE WASTE SOURCE TO BE SAMPLED; AND I VERIFY THE INFORMATION ABOVE NOTED.

WITNESS: _____

SIGNATURE: _____

TITLE: _____

EMPLOYER: _____

DATE: _____

SAMPLER NAME: _____

SIGNATURE: _____

TITLE: _____

EMPLOYER: _____

DATE: _____

SCA CHEMICAL SERVICES, INC.
P. O. BOX 200
1550 BALMER RD.
MODEL CITY, NY 14107

FORM WMI-51 (Rev 12/84)
© 1980 WASTE MANAGEMENT, INC

PEI ASSOCIATES, INC.
(FORMERLY PEDCO ENVIRONMENTAL, INC.)

11499 CHESTER ROAD
CINCINNATI, OHIO 45246
(513) 782-4700
TELECOPIER (513) 782-4807

February 25, 1986

Dr. Briand Wu
U.S. Environmental Protection Agency
Waste Management Division
230 S. Dearborn (5-HR)
Chicago, IL 60604

Subject: EPA Contract No. 68-01-6894
Delivery Order No. 6894-05-050
U.S. Scrap - Chicago, IL

Dear Briand:

Please find enclosed a "Certification of Representative Sample" for material at the U.S. Scrap site. This blank certification was returned to me from CWM - SCA Model City for completion. Please have the individuals who originally sampled the soil in the roll off boxes complete this form. Forward the completed form to:

SCA Chemical Services, Inc.
Model City Facility
1550 Balmer Road
Model City, NY 14107
ATTN: Mr. Bill Beck

In order to assist you in the completion of this form I have also enclosed a copy of the waste profile sheets as submitted to the SCA - Model City facility.

Your assistance in this matter is greatly appreciated. If you have any questions, please contact me at 513/782-4841.

Very truly yours,

PEI ASSOCIATES, INC.

Paul C. Kefauver
Disposal Coordinator

PCK/mes

Enclosure

cc: G. Regan, U.S. EPA
B. Bowden, U.S. EPA

GULF COAST LABORATORIES, INC.
2417 Bond St., Park Forest South, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

TO: Pedco Environmental
11499 Chester Road
Cincinnati, OH 45246

ATTN: Mr. Paul Kefauver

DATE: December 30, 1985

RE: U.S. Scrap 3018-P18 Soil
From 6 ~~Vollofts~~ Rolloffs CS#1 5428532
Sample Date: 12/06/85
GCL# 75006

PARAMETERS	RESULTS	
Arsenic, E.P. Toxicity	< 0.5	mg/l
Barium, E.P. Toxicity	< 10	mg/l
Cadmium, E.P. Toxicity	< 0.1	mg/l
Chromium, E.P. Toxicity	< 0.5	mg/l
Copper, E.P. Toxicity	< 0.5	mg/l
Lead, E.P. Toxicity	< 0.5	mg/l
Mercury, E.P. Toxicity	< 0.02	mg/l
Nickel, E.P. Toxicity	< 0.5	mg/l
Selenium, E.P. Toxicity	< 0.1	mg/l
Silver, E.P. Toxicity	< 0.5	mg/l
Zinc, E.P. Toxicity	4.8	mg/l

John Boudreau

Analyst _____ Date 12/30/85

GULF COAST LABORATORIES, INC.
2417 Bond St., Park Forest South, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

TO: Pedco Environmental
11499 Chester Road
Cincinnati, OH 45246

ATTN: Mr. Paul Kefauver

DATE: December 30, 1985

RE: U.S. Scrap 3018-P18 Soil
From 6 ~~Vollofts~~ Rollofs CS#1 54285322
Sample Date: 12/06/85
GCL# 75006

PARAMETERS	RESULTS	
Alkalinity	1.5	%
Ash	70.4	%
Total Cyanides	< 5.0	mg/kg
Reactive Cyanides	< 5.0	mg/kg
Flash Point (Closed Cup) *	> 200	oF
pH	8.2	
Phenol	9.0	mg/kg
Total Sulfides	140	mg/kg
Reactive Sulfides	80	mg/kg
Total Solids	80.1	%
Reactivity Air	Passes	
Reactivity Acid	Hydrogen Sulfide Produced	
Reactivity Base	Passes	
Reactivity Water	Passes	

* Ethylene Glycol Added

John Boudreau

Analyst _____ Date 12/30/85

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

WASTE PROFILE SHEET CODE: COL TSDR F61862

A GENERAL INFORMATION

GENERATOR NAME: U.S EPA
FACILITY ADDRESS: U.S. SCRAP, 12300 S. COTTAGE GROVE, CHICAGO, IL
TECHNICAL CONTACT: BRIAND W.J. TITLE: OW SITE COORDINATOR PHONE: 312/886-6246
NAME OF WASTE: SOIL
PROCESS GENERATING WASTE: WASTE SITE CLEANUP
TRANSPORTER: TO BE DETERMINED
TRANSPORTER PHONE:
GENERATOR USEPA I.D. ILD980679484
GENERATOR STATE I.D.

B PHYSICAL CHARACTERISTICS OF WASTE

COLOR: BROWN
ODOR: ☐ NONE ☐ MILD ☐ STRONG DESCRIBE
PHYSICAL STATE @ 70°F: ☒ SOLID ☐ SEMI-SOLID ☐ LIQUID ☐ POWDER
LAYERS: ☐ MULTILAYERED ☐ BI-LAYERED ☒ SINGLE PHASED
FREE LIQUIDS: ☐ YES ☒ NO VOLUME %
pH: ☐ < 2 ☒ 7.1-10 ☐ N/A ☐ 2-4 ☐ 10.1-12.5 ☐ 4.1-6.9 ☐ > 12.5 ☐ 7 ☒ EXACT 8.2
SPECIFIC GRAVITY: ☐ < .8 ☐ 1.3-1.4 ☐ .8-1.0 ☐ 1.5-1.7 ☐ 1.1-1.2 ☐ > 1.7 ☐ EXACT NA
FLASH POINT: ☐ < 70°F ☒ > 200°F ☒ CLOSED CUP ☐ 70°F-100°F ☐ NO FLASH ☐ OPEN CUP ☐ 101°F-139°F ☐ EXACT ☐ 140°F-200°F

C CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

SOIL	99-100%
SULFIDES	TRACE %

D METALS ☐ TOTAL (PPM) ☒ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	<0.5 mg/L	SELENIUM (Se)	<0.1 mg/L
BARIUM (Ba)	<10 mg/L	SILVER (Ag)	<0.5 mg/L
CADMIUM (Cd)	<0.1 mg/L	COPPER (Cu)	<0.5 mg/L
CHROMIUM (Cr)	<0.5 mg/L	NICKEL (Ni)	<0.5 mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	4.8 mg/L
LEAD (Pb)	<0.5 mg/L	THALLIUM (Tl)	NA
CHROMIUM-HEX (Cr + 6)	NA		

E OTHER COMPONENTS - TOTAL (PPM)

CYANIDES: TOTAL <5 mg/kg; REACTIVE <5 mg/kg
SULFIDES: TOTAL 140 mg/kg; REACTIVE 30 mg/kg
PCB'S: NA
PHENOLICS: 9.0 mg/kg

F SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO
PROPER SHIPPING NAME: HAZARDOUS WASTE SOLID, N.O.S.
HAZARD CLASS: ORM-E I.D. NO. NA 9189 R.Q.
METHOD OF SHIPMENT: ☐ BULK LIQUID ☒ BULK SOLID ☐ DRUM (TYPE/SIZE)
ANTICIPATED VOLUME: GALS. 80 CUBIC YARDS OTHER
PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐

G HAZARDOUS CHARACTERISTICS

REACTIVITY: ☐ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☒ OTHER ACID REACTIVE H_2S PRODUCER
OTHER HAZARDOUS CHARACTERISTICS: ☒ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☐ OTHER
USEPA HAZARDOUS WASTE? ☒ YES ☐ NO
USEPA HAZARDOUS CODE(S): D003
STATE HAZARDOUS WASTE? ☒ YES ☐ NO
STATE CODE(S):

H SPECIAL HANDLING INFORMATION CONTACT REGARDING INFORMATION + BILLING
PEI ASSOCIATES INC.; 11499 CHESTER RD.; CINCINNATI, OH 45246
ATTN: PAUL KEFAUVER 513/782-4841

☒ ADDITIONAL PAGE(S) ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE, AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED

AUTHORIZED SIGNATURE TITLE DATE

SALES	CODE
Cal	F61862

WASTE PROFILE SHEET CODE

CERTIFICATION OF REPRESENTATIVE SAMPLE

GENERAL DIRECTIONS: IN ORDER TO DETERMINE WHETHER WE CAN ACCEPT THE SPECIAL WASTE DESCRIBED IN THE ABOVE NUMBERED PROFILE SHEET, WE MUST OBTAIN A REPRESENTATIVE SAMPLE OF THE WASTE. WE WILL ANALYZE THE SAMPLE TO VERIFY THE INFORMATION YOU HAVE PROVIDED US, SO IT IS PARTICULARLY IMPORTANT THAT THE SAMPLE BE TRULY REPRESENTATIVE. IN MOST CIRCUMSTANCES YOU WILL BE OBTAINING THE SAMPLE. HOWEVER, IN THOSE CASES IN WHICH WE OBTAIN THE SAMPLE, WE MUST ASK THAT ONE OF YOUR EMPLOYEES BE PRESENT TO DIRECT THE PARTICULAR SOURCE TO BE SAMPLED AND TO WITNESS THE SAMPLING. IN SUCH CASE, YOUR EMPLOYEE MUST SIGN THIS CERTIFICATION AS A WITNESS.

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1. HOUR AND DATE OF SAMPLING: _____
2. SOURCE FROM WHICH SAMPLE TAKEN: _____
3. EQUIPMENT AND SAMPLING METHOD USED: _____
4. AMOUNT OF SAMPLE OBTAINED: _____
5. TYPE OF CONTAINER INTO WHICH SAMPLE WAS PLACED: _____
6. THE SAMPLING EQUIPMENT USED, AND THE CONTAINER INTO WHICH THE SAMPLE WAS PLACED, WERE THEMSELVES UNCONTAMINATED BEFORE USE.
7. AT THE TIME OF SAMPLING I AFFIXED A LABEL TO THE CONTAINER IN THE FOLLOWING FORM WITH THE FOLLOWING INFORMATION (FILL IN THIS PORTION, INCLUDING YOUR SIGNATURE, JUST AS IT APPEARS ON THE LABEL YOU PREPARED):

GENERATOR:
WASTE NAME:
SAMPLE HOUR/DATE:
PROFILE SHEET CODE:
SAMPLER SIGNATURE:

WITNESS VERIFICATION: I WAS PERSONALLY PRESENT DURING THE SAMPLING DESCRIBED; I DIRECTED THE WASTE SOURCE TO BE SAMPLED; AND I VERIFY THE INFORMATION ABOVE NOTED.

WITNESS: _____

SIGNATURE: _____

TITLE: _____

EMPLOYER: _____

DATE: _____

SAMPLER NAME: _____

SIGNATURE: _____

TITLE: _____

EMPLOYER: _____

DATE: _____

SCA CHEMICAL SERVICES, INC.
P. O. BOX 200
1550 BALMER RD.
MODEL CITY, NY 14107

FORM WMI-51 (Rev. 12/84)

© 1980 WASTE MANAGEMENT INC

ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

International Specialists in the Environment

January 24, 1986

Mr. Brian Wu, O.S.C.
U.S. Environmental Protection Agency
230 S. Dearborn St.
Chicago, IL 60604

Re: U.S. Scrap Air Analysis
TDD: R5-8510-08 WST: IL 0197

Dear Mr. Wu:

Thank you for forwarding to me the analysis results of the air samples collected by our firm at the U.S. Scrap site on October 11, 1985. As you are well aware, air samples were collected by two separate methods. One set of integrated samples were collected by absorption onto charcoal tubes and analyzed by Gulf Coast Laboratories, Inc. using Gas Chromatography. A second set of grab samples were collected in gas sampling bags and analyzed by ERT/TAT, using Gas Chromatography and Mass Spectrometry.

Review of the charcoal tube data indicates that all parameters analyzed for had concentrations below the detection limit of the analytical procedure, 1 mg/tube. Therefore, no evaluations can be made from this data.

The preliminary test results of the gas sampling bag analysis indicates concentrations of three target compounds (Toluene, Ethylbenzene, Xylenes) in the background sample (USS 1011-A), and two downwind samples (USS 1011-B and 1011-C), in the part per billion range. However, because the downwind samples are not significantly greater than the background sample, the assumption that the downwind concentrations detected originated from the U.S. Scrap site cannot be made. Also, the positive identification of these same compounds in the field blank hinders the usefullness of the data. I presume that any final test results for these samples will be evaluated similarly.

If you have any questions concerning this report, please give me a call at (312) 663-9415. Also, I would appreciate receiving a copy of any additional reports you may receive on the analysis of these samples.

Sincerely,

Robert K. McKinley

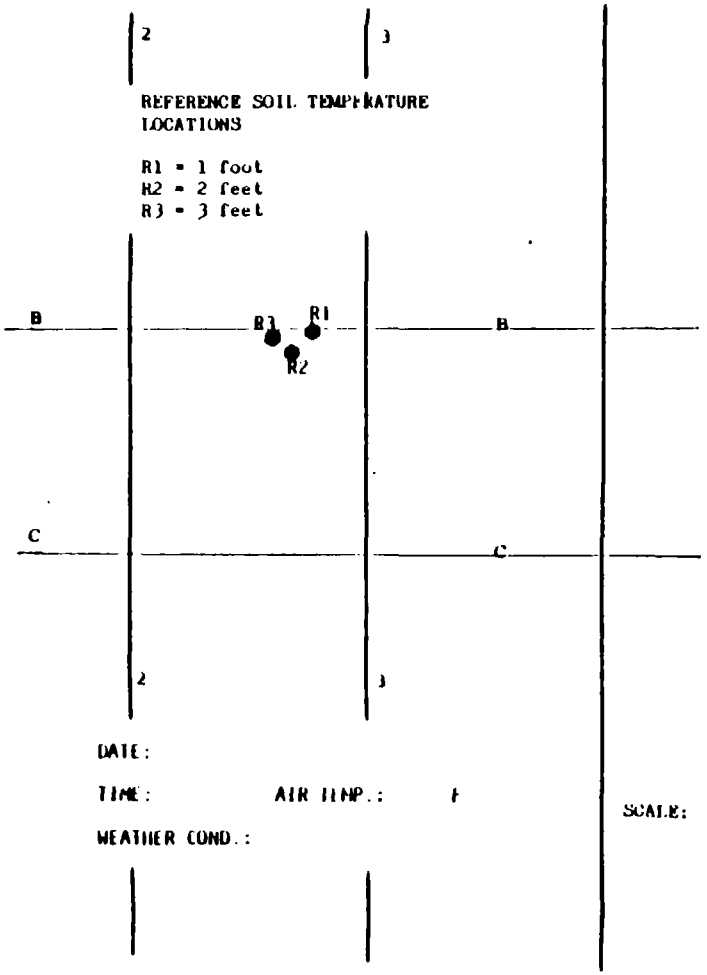
Robert K. McKinley

70S:4F

recycled paper

REFERENCE SOIL TEMPERATURE LOCATIONS

R1 = 1 foot
R2 = 2 feet
R3 = 3 feet



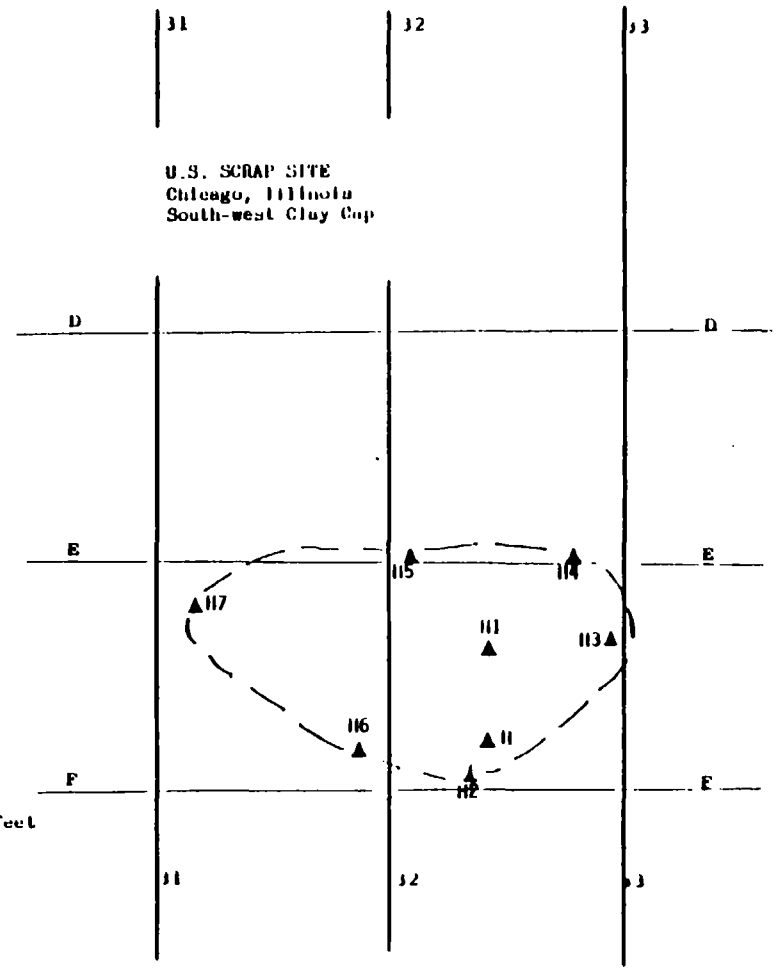
DATE:

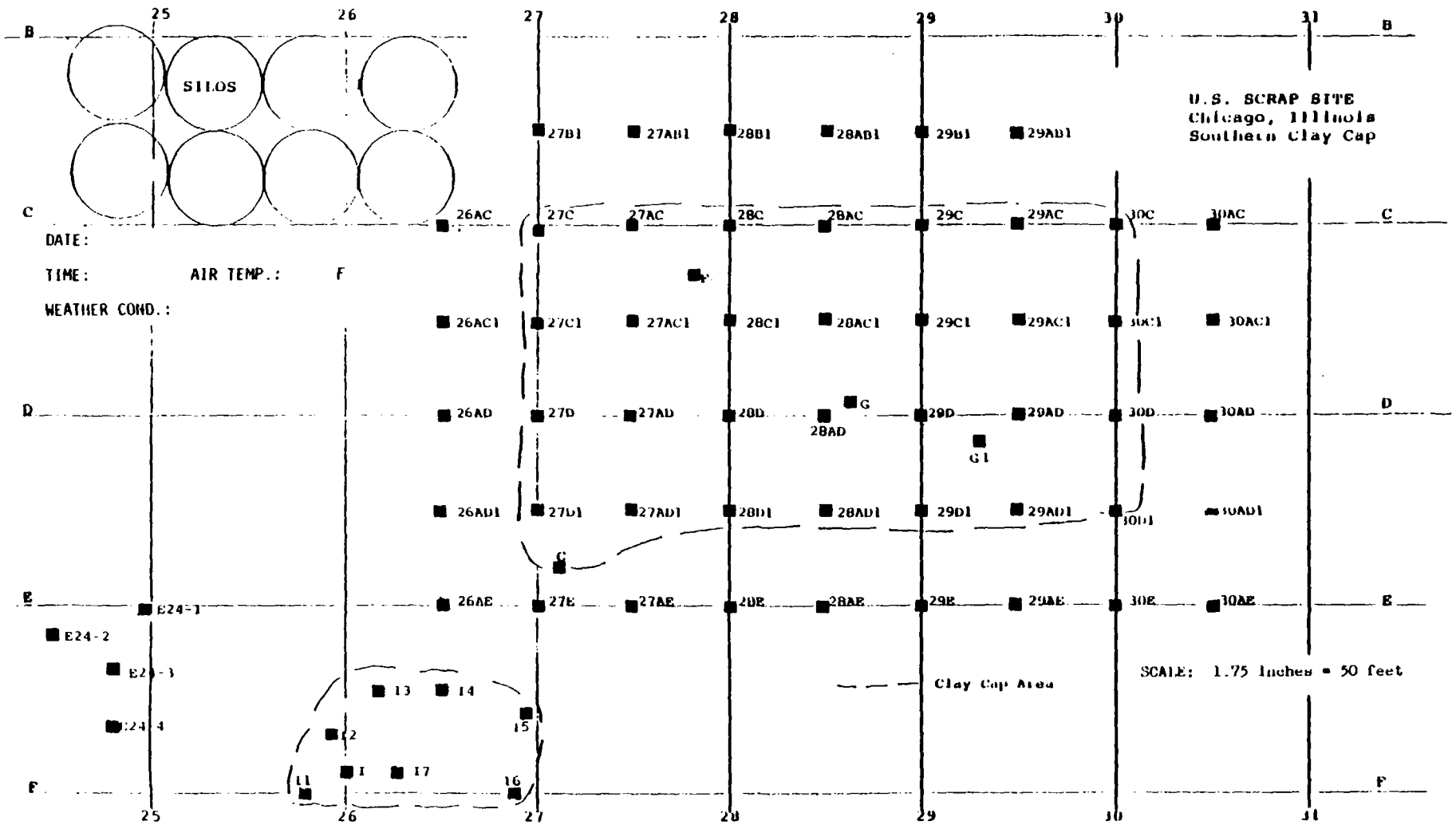
TIME: AIR TEMP.: F

WEATHER COND.:

SCALE: 1.75 inches = 50 feet

U.S. SCRAP SITE
Chicago, Illinois
South-west Clay Cap




U.S. SCRAP SITE
Chicago, Illinois
Southern Clay Cap
SILOS
DATE:
TIME:
AIR TEMP.: F
WEATHER COND.:
Clay Cap Area
SCALE: 1.75 inches = 50 feet
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27AB1
28B1
28AB1
29B1
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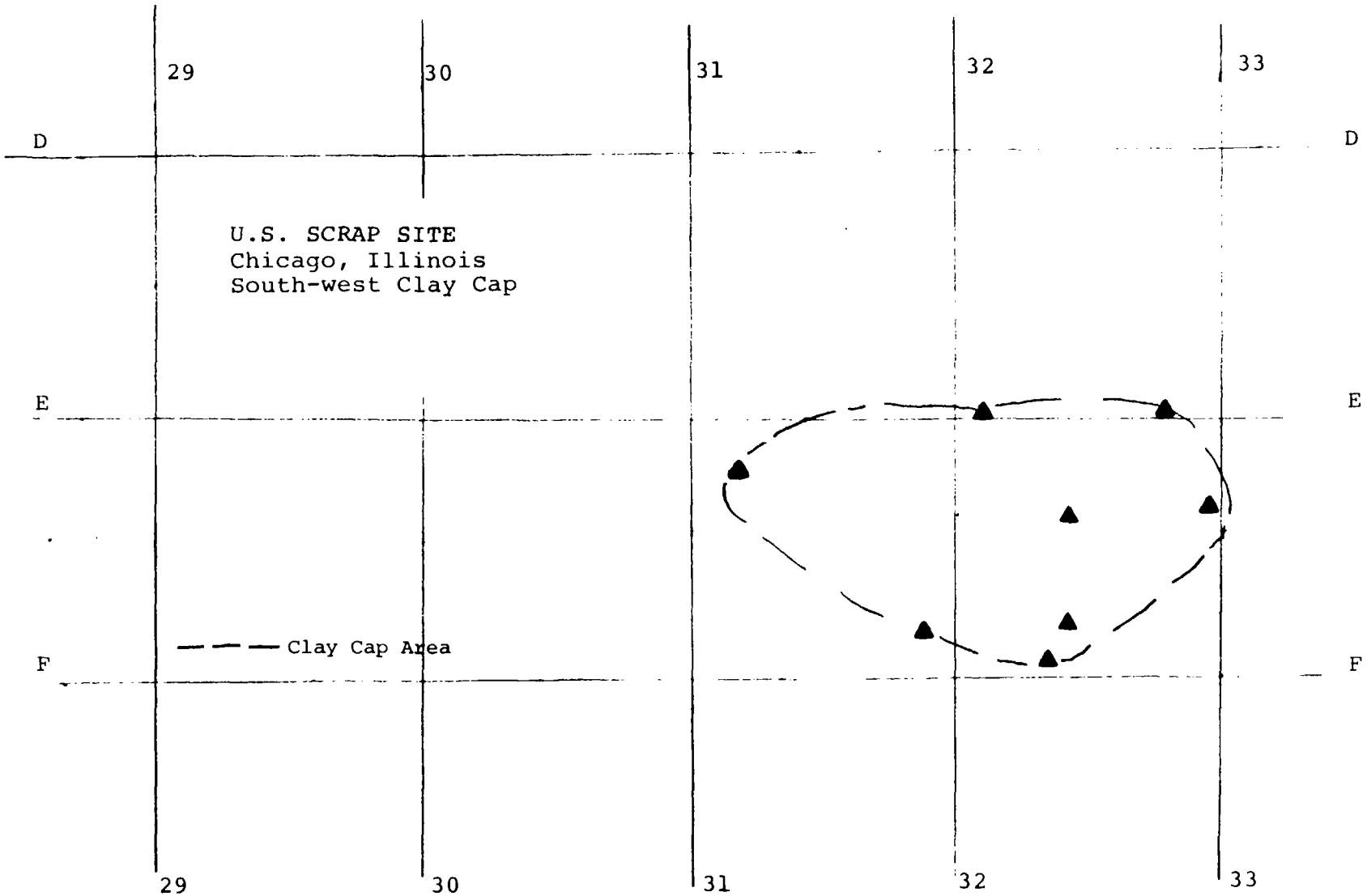
29
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33
D
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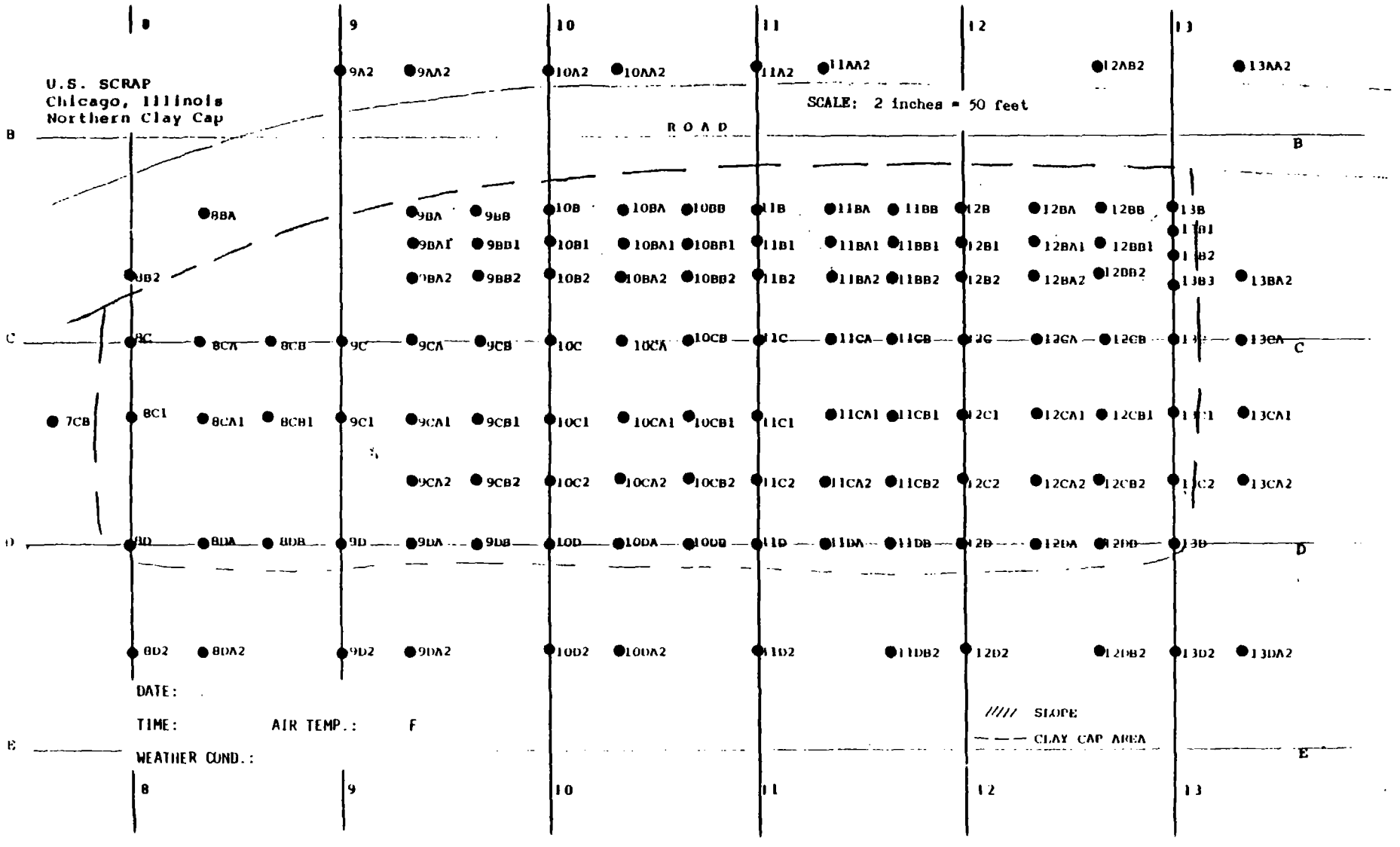
F
U.S. SCRAP SITE
Chicago, Illinois
South-west Clay Cap
Clay Cap Area

U.S. SCRAP
Chicago, Illinois
Northern Clay Cap

SCALE: 2 inches = 50 feet



PEI ASSOCIATES, INC.
(FORMERLY PEDCo ENVIRONMENTAL, INC.)
11499 CHESTER ROAD
CINCINNATI, OHIO 45246
(513) 782-4700
TELECOPIER (513) 782-4807

February 25, 1986

Dr. Briand Wu
U.S. Environmental Protection Agency
Waste Management Division
230 S. Dearborn (5-HR)
Chicago, IL 60604

Subject: EPA Contract No. 68-01-6894
Delivery Order No. 6894-05-050
U.S. Scrap - Chicago, IL

Dear Briand:

Please find enclosed a "Certification of Representative Sample" for material at the U.S. Scrap site. This blank certification was returned to me from CWM - SCA Model City for completion. Please have the individuals who originally sampled the soil in the roll off boxes complete this form. Forward the completed form to:

SCA Chemical Services, Inc.
Model City Facility
1550 Balmer Road
Model City, NY 14107
ATTN: Mr. Bill Beck

In order to assist you in the completion of this form I have also enclosed a copy of the waste profile sheets as submitted to the SCA - Model City facility.

Your assistance in this matter is greatly appreciated. If you have any questions, please contact me at 513/782-4841.

Very truly yours,

PEI ASSOCIATES, INC.

Paul C. Kefauver
Disposal Coordinator

PCK/mes

Enclosure

cc: G. Regan, U.S. EPA
B. Bowden, U.S. EPA

GULF COAST LABORATORIES, INC.
2417 Bond St., Park Forest South, Illinois 60468
Phones (312) 534-5200 (219) 885-7077 (815) 723-753

ANALYTICAL REPORT

TO: Pedco Environmental
11499 Chester Road
Cincinnati, OH 45246

ATTN: Mr. Paul Kefauver

DATE: December 30, 1985

RE: U.S. Scrap 3018-P18 Soil
From 6 ~~Volloffs~~ Kolloffs CS#1 5428532
Sample Date: 12/06/85
GCL# 75006

PARAMETERS	RESULTS	
Arsenic, E.P. Toxicity	< 0.5	mg/l
Barium, E.P. Toxicity	< 10	mg/l
Cadmium, E.P. Toxicity	< 0.1	mg/l
Chromium, E.P. Toxicity	< 0.5	mg/l
Copper, E.P. Toxicity	< 0.5	mg/l
Lead, E.P. Toxicity	< 0.5	mg/l
Mercury, E.P. Toxicity	< 0.02	mg/l
Nickel, E.P. Toxicity	< 0.5	mg/l
Selenium, E.P. Toxicity	< 0.1	mg/l
Silver, E.P. Toxicity	< 0.5	mg/l
Zinc, E.P. Toxicity	4.8	mg/l

John Boudreau

Analyst _____ Date 12/30/85

GULF COAST LABORATORIES, INC.
2417 Bond St., Park Forest South, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

TO: Pedco Environmental
11499 Chester Road
Cincinnati, OH 45246

ATTN: Mr. Paul Kefauver

DATE: December 30, 1985

RE: U.S. Scrap 3018-P18 Soil
From 6 ~~Vollofts~~ Roll-offs CS#1 5428532
Sample Date: 12/06/85
GCL# 75006

PARAMETERS	RESULTS	
Alkalinity	1.5	%
Ash	70.4	%
Total Cyanides	< 5.0	mg/kg
Reactive Cyanides	< 5.0	mg/kg
Flash Point (Closed Cup) *	> 200	oF
pH	8.2	
Phenol	9.0	mg/kg
Total Sulfides	140	mg/kg
Reactive Sulfides	80	mg/kg
Total Solids	80.1	%
Reactivity Air	Passes	
Reactivity Acid	Hydrogen Sulfide Produced	
Reactivity Base	Passes	
Reactivity Water	Passes	

* Ethylene Glycol Added

John Boudreau

Analyst _____ Date 12/30/85

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

WASTE PROFILE SHEET CODE: COL

TSDR: F61862

A GENERAL INFORMATION

GENERATOR NAME: U.S EPA

TRANSPORTER: To Be Determined

FACILITY ADDRESS: U.S. Scrap, 12300 S. Cottage Grove, Chicago, IL

TRANSPORTER PHONE:

GENERATOR USEPA I.D.: ILD980679484

GENERATOR STATE I.D.:

TECHNICAL CONTACT: Briand Wu

TITLE: On Site Coordinator

PHONE: 312/886-6246

NAME OF WASTE: Soil

PROCESS GENERATING WASTE: Waste Site Cleanup

B PHYSICAL CHARACTERISTICS OF WASTE

COLOR: Brown

ODOR: ☐ NONE ☐ MILD ☐ STRONG DESCRIBE:

PHYSICAL STATE @ 70°F: ☒ SOLID ☐ SEMI-SOLID ☐ LIQUID ☐ POWDER

LAYERS: ☐ MULTILAYERED ☐ BI-LAYERED ☒ SINGLE PHASED

FREE LIQUIDS: ☐ YES ☒ NO VOLUME: %

pH: ☐ < 2 ☒ 7.1-10 ☐ N/A ☐ 2-4 ☐ 10.1-12.5 ☐ 4.1-6.9 ☐ > 12.5 ☐ 7 ☒ EXACT 8.2

SPECIFIC GRAVITY: ☐ < .8 ☐ 1.3-1.4 ☐ .8-1.0 ☐ 1.5-1.7 ☐ 1.1-1.2 ☐ > 1.7 ☐ EXACT NA

FLASH POINT: ☐ < 70°F ☒ > 200°F ☒ CLOSED CUP ☐ 70°F-100°F ☐ NO FLASH ☐ OPEN CUP ☐ 101°F-139°F ☐ EXACT ☐ 140°F-200°F

C CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

Soil	99-100%
Sulfides	Trace %
	%
	%
	%
	%
	%
	%
	%
	%
	%

D METALS ☐ TOTAL (PPM) ☒ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	<0.5 mg/L	SELENIUM (Se)	<0.1 mg/L
BARIUM (Ba)	<10 mg/L	SILVER (Ag)	<0.5 mg/L
CADMIUM (Cd)	<0.1 mg/L	COPPER (Cu)	<0.5 mg/L
CHROMIUM (Cr)	<0.5 mg/L	NICKEL (Ni)	<0.5 mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	4.8 mg/L
LEAD (Pb)	<0.5 mg/L	THALLIUM (Tl)	NA
CHROMIUM-HEX (Cr + 6)	NA		

E OTHER COMPONENTS - TOTAL (PPM)

CYANIDES: TOTAL <5 mg/kg; REACTIVE <5 mg/kg

SULFIDES: TOTAL 140 mg/kg; REACTIVE 30 mg/kg

PCB'S: NA

PHENOLICS: 9.0 mg/kg

F SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO

PROPER SHIPPING NAME: Hazardous Waste Solid n.o.s.

HAZARD CLASS: ORM-E I.D. NO.: NA 9189 R.Q.:

METHOD OF SHIPMENT: ☐ BULK LIQUID ☒ BULK SOLID ☐ DRUM (TYPE/SIZE)

ANTICIPATED VOLUME: GALS. 80 CUBIC YARDS OTHER

PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐

G HAZARDOUS CHARACTERISTICS

REACTIVITY: ☐ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☒ OTHER Acid Reactive H_2S Produ

OTHER HAZARDOUS CHARACTERISTICS: ☒ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☐ OTHER

USEPA HAZARDOUS WASTE? ☒ YES ☐ NO

USEPA HAZARDOUS CODE(S): D003

STATE HAZARDOUS WASTE? ☒ YES ☐ NO

STATE CODE(S):

H SPECIAL HANDLING INFORMATION CONTACT REGARDING INFORMATION & BILLING

PEI Associates Inc.; 11499 Chester Rd.; Cincinnati, OH 45246

ATTN: Paul Kehauver 513/782-4841

☒ ADDITIONAL PAGE(S) ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE, AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED

AUTHORIZED SIGNATURE TITLE DATE

SALES	CODE
	F61862

WASTE PROFILE SHEET CODE

CERTIFICATION OF REPRESENTATIVE SAMPLE

GENERAL DIRECTIONS: IN ORDER TO DETERMINE WHETHER WE CAN ACCEPT THE SPECIAL WASTE DESCRIBED IN THE ABOVE NUMBERED PROFILE SHEET, WE MUST OBTAIN A REPRESENTATIVE SAMPLE OF THE WASTE. WE WILL ANALYZE THE SAMPLE TO VERIFY THE INFORMATION YOU HAVE PROVIDED US, SO IT IS PARTICULARLY IMPORTANT THAT THE SAMPLE BE TRULY REPRESENTATIVE. IN MOST CIRCUMSTANCES YOU WILL BE OBTAINING THE SAMPLE. HOWEVER, IN THOSE CASES IN WHICH WE OBTAIN THE SAMPLE, WE MUST ASK THAT ONE OF YOUR EMPLOYEES BE PRESENT TO DIRECT THE PARTICULAR SOURCE TO BE SAMPLED AND TO WITNESS THE SAMPLING. IN SUCH CASE, YOUR EMPLOYEE MUST SIGN THIS CERTIFICATION AS A WITNESS.

THIS CERTIFICATION MUST BE RETURNED, WITH THE REPRESENTATIVE WASTE SAMPLE, TO:

(*) Note - a representative waste sample has not been sent to CWM because the enclosed chemical waste analysis was performed by a CWM-approved laboratory.

THE UNDERSIGNED CERTIFIES THAT HE/SHE OBTAINED A REPRESENTATIVE SAMPLE OF THE WASTE MATERIAL DESCRIBED IN THE "GENERATOR'S WASTE MATERIAL PROFILE SHEET" ABOVE REFERENCED, AND THAT THE FOLLOWING REPRESENTATIONS ARE TRUE AND CORRECT:

1. HOUR AND DATE OF SAMPLING: _____
2. SOURCE FROM WHICH SAMPLE TAKEN: _____
3. EQUIPMENT AND SAMPLING METHOD USED: _____
4. AMOUNT OF SAMPLE OBTAINED: _____
5. TYPE OF CONTAINER INTO WHICH SAMPLE WAS PLACED: _____
6. THE SAMPLING EQUIPMENT USED, AND THE CONTAINER INTO WHICH THE SAMPLE WAS PLACED, WERE THEMSELVES UNCONTAMINATED BEFORE USE.
7. AT THE TIME OF SAMPLING I AFFIXED A LABEL TO THE CONTAINER IN THE FOLLOWING FORM WITH THE FOLLOWING INFORMATION (FILL IN THIS PORTION, INCLUDING YOUR SIGNATURE, JUST AS IT APPEARS ON THE LABEL YOU PREPARED):

GENERATOR:
WASTE NAME:
SAMPLE HOUR/DATE:
PROFILE SHEET CODE:
SAMPLER SIGNATURE:

WITNESS VERIFICATION: I WAS PERSONALLY PRESENT DURING THE SAMPLING DESCRIBED; I DIRECTED THE WASTE SOURCE TO BE SAMPLED; AND I VERIFY THE INFORMATION ABOVE NOTED.

WITNESS: _____

SIGNATURE: _____

TITLE: _____

EMPLOYER: _____

DATE: _____

SAMPLER NAME: _____

SIGNATURE: _____

TITLE: _____

EMPLOYER: _____

DATE: _____

SCA CHEMICAL SERVICES, INC.
P. O. BOX 200
1550 BALMER RD.
MODEL CITY, NY 14107

FORM WMI-51 (Rev 12/84)
© 1980 WASTE MANAGEMENT INC

PEI ASSOCIATES, INC.
(FORMERLY PEDCo ENVIRONMENTAL, INC.)

11499 CHESTER ROAD
CINCINNATI, OHIO 45246
(513) 782-4700
TELECOPIER (513) 782-4807

February 25, 1986

Dr. Briand Wu
U.S. Environmental Protection Agency
Waste Management Division
230 S. Dearborn (5-HR)
Chicago, IL 60604

Subject: EPA Contract No. 68-01-6894
Delivery Order No. 6894-05-050
U.S. Scrap - Chicago, IL

Dear Briand:

Please find enclosed a "Certification of Representative Sample" for material at the U.S. Scrap site. This blank certification was returned to me from CWM - SCA Model City for completion. Please have the individuals who originally sampled the soil in the roll off boxes complete this form. Forward the completed form to:

SCA Chemical Services, Inc.
Model City Facility
1550 Balmer Road
Model City, NY 14107
ATTN: Mr. Bill Beck

In order to assist you in the completion of this form I have also enclosed a copy of the waste profile sheets as submitted to the SCA - Model City facility.

Your assistance in this matter is greatly appreciated. If you have any questions, please contact me at 513/782-4841.

Very truly yours,

PEI ASSOCIATES, INC.

Paul C. Kefauver
Disposal Coordinator

PCK/mes

Enclosure

cc: G. Regan, U.S. EPA
B. Bowden, U.S. EPA

CHESTER TOWERS

BRANCH OFFICES

DALLAS, TEXAS
DENVER, COLORADO
COLUMBUS, OHIO
DURHAM, NORTH CAROLINA
KANSAS CITY, KANSAS

GULF COAST LABORATORIES, INC.
2417 Bond St., Park Forest South, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

TO: Pedco Environmental
11499 Chester Road
Cincinnati, OH 45246

ATTN: Mr. Paul Kefauver

DATE: December 30, 1985

RE: U.S. Scrap 3018-P18 Soil
From 6 ~~Vollofts~~ Kolloffs CS#1 54285322
Sample Date: 12/06/85
GCL# 75006

PARAMETERS	RESULTS	
Arsenic, E.P. Toxicity	< 0.5	mg/l
Barium, E.P. Toxicity	< 10	mg/l
Cadmium, E.P. Toxicity	< 0.1	mg/l
Chromium, E.P. Toxicity	< 0.5	mg/l
Copper, E.P. Toxicity	< 0.5	mg/l
Lead, E.P. Toxicity	< 0.5	mg/l
Mercury, E.P. Toxicity	< 0.02	mg/l
Nickel, E.P. Toxicity	< 0.5	mg/l
Selenium, E.P. Toxicity	< 0.1	mg/l
Silver, E.P. Toxicity	< 0.5	mg/l
Zinc, E.P. Toxicity	4.8	mg/l

John Boudreau

Analyst _____ Date 12/30/85

GULF COAST LABORATORIES, INC.
2417 Bond St., Park Forest South, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

TO: Pedco Environmental
11499 Chester Road
Cincinnati, OH 45246

ATTN: Mr. Paul Kefauver

DATE: December 30, 1985

RE: U.S. Scrap 3018-P18 Soil
From 6 ~~Vollofts~~ Rollofs CS#1 54285322
Sample Date: 12/06/85
GCL# 75006

PARAMETERS	RESULTS	
Alkalinity	1.5	%
Ash	70.4	%
Total Cyanides	< 5.0	mg/kg
Reactive Cyanides	< 5.0	mg/kg
Flash Point (Closed Cup) *	> 200	oF
pH	8.2	
Phenol	9.0	mg/kg
Total Sulfides	140	mg/kg
Reactive Sulfides	80	mg/kg
Total Solids	80.1	%
Reactivity Air	Passes	
Reactivity Acid	Hydrogen Sulfide Produced	
Reactivity Base	Passes	
Reactivity Water	Passes	

* Ethylene Glycol Added

Reviewed John Boudreau

Analyst _____ Date 12/30/85

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

WASTE PROFILE SHEET CODE: COL

TSDR: F61862

A GENERAL INFORMATION

GENERATOR NAME: U.S EPA

FACILITY ADDRESS: U.S. SCRAP
12300 S. COTTAGE GROVE
CHICAGO, IL

TRANSPORTER: TO BE DETERMINED

TRANSPORTER PHONE:

GENERATOR USEPA I.D.: ILD980679484

GENERATOR STATE I.D.:

TECHNICAL CONTACT: BRIAND WU

TITLE: OW SITE COORDINATOR

PHONE: 312/886-6246

NAME OF WASTE: SOIL

PROCESS GENERATING WASTE: WASTE SITE CLEANUP

B PHYSICAL CHARACTERISTICS OF WASTE

COLOR: BROWN

ODOR: ☐ NONE ☐ MILD ☐ STRONG — DESCRIBE:

PHYSICAL STATE @ 70°F: ☒ SOLID ☐ SEMI-SOLID ☐ LIQUID ☐ POWDER

LAYERS: ☐ MULTILAYERED ☐ BI-LAYERED ☒ SINGLE PHASED

FREE LIQUIDS: ☐ YES ☒ NO — VOLUME: %

pH: ☐ < 2 ☒ 7.1-10 ☐ N/A ☐ 2-4 ☐ 10.1-12.5 ☐ 4.1-6.9 ☐ > 12.5 ☐ 7 ☒ EXACT 8.2

SPECIFIC GRAVITY: ☐ < .8 ☐ 1.3-1.4 ☐ .8-1.0 ☐ 1.5-1.7 ☐ 1.1-1.2 ☐ > 1.7 ☐ EXACT NA

FLASH POINT: ☐ < 70°F ☒ > 200°F ☒ CLOSED CUP ☐ 70°F-100°F ☐ NO FLASH ☐ OPEN CUP ☐ 101°F-139°F ☐ EXACT ☐ 140°F-200°F

C CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

SOIL	99-100%
SULFIDES	TRACE %
	%
	%
	%
	%
	%
	%
	%
	%

D METALS ☐ TOTAL (PPM) ☒ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	<0.5 mg/L	SELENIUM (Se)	<0.1 mg/L
BARIUM (Ba)	<10 mg/L	SILVER (Ag)	<0.5 mg/L
CADMIUM (Cd)	<0.1 mg/L	COPPER (Cu)	<0.5 mg/L
CHROMIUM (Cr)	<0.5 mg/L	NICKEL (Ni)	<0.5 mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	4.8 mg/L
LEAD (Pb)	<0.5 mg/L	THALLIUM (Tl)	NA
CHROMIUM-HEX (Cr + 6)	NA		

E OTHER COMPONENTS - TOTAL (PPM)

CYANIDES: TOTAL <5 mg/Kg; REACTIVE <5 mg/Kg

SULFIDES: TOTAL 140 mg/Kg; REACTIVE 80 mg/Kg

PCB'S: NA

PHENOLICS: 9.0 mg/Kg

F SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO

PROPER SHIPPING NAME: HAZARDOUS WASTE SOLID, N.O.S.

HAZARD CLASS: ORM-E I.D. NO.: NA9189 R.Q.:

METHOD OF SHIPMENT: ☐ BULK LIQUID ☒ BULK SOLID ☐ DRUM (TYPE/SIZE)

ANTICIPATED VOLUME: GALS 80 CUBIC YARDS OTHER

PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐

G HAZARDOUS CHARACTERISTICS

REACTIVITY: ☐ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☒ OTHER ACID REACTIVE H_2S PRODUCE

OTHER HAZARDOUS CHARACTERISTICS: ☒ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☐ OTHER

USEPA HAZARDOUS WASTE? ☒ YES ☐ NO

USEPA HAZARDOUS CODE(S): D003

STATE HAZARDOUS WASTE? ☒ YES ☐ NO

STATE CODE(S):

H SPECIAL HANDLING INFORMATION CONTACT REGARDING INFORMATION + BILLING
PEI ASSOCIATES INC; 11499 CHESTER RD.; CINCINNATI, OH 45246
ATTN: PAUL KEFAUVER 513/782-4841

☒ ADDITIONAL PAGE(S) ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE, AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED

AUTHORIZED SIGNATURE | TITLE | DATE

WESTON • SPER
Suite 1501, Northbrook Office Court
666 West Dundee Road, Northbrook, IL 60062 • (312) 498-9094

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-01-6669

Mr. Don Haugen
Wayne Disposal, Inc.
P.O. Box 5187
Dearborn, Michigan 48128

January 30, 1986

TAT-05-F-00821

Dear Mr. Haugen:

Please find enclosed copies of waste profile sheets for waste materials at the U.S. Scrap site in Chicago, IL. As discussed with Mr. J. Fore, representative waste samples have not been sent to Wayne Disposal because the enclosed chemical waste analyses are sufficient.

If you have any questions, please contact me at 312/498-9090.

Very truly yours,

ROY F. WESTON, INC.

Tom Gainer

Tom Gainer
Environmental Engineer

Scott D. Springer

Scott D. Springer
Technical Assistance Team
Leader, Region V

TG:ap

Enclosure

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

WASTE PROFILE SHEET CODE: COL

TSDR: F61873

A. GENERAL INFORMATION

GENERATOR NAME: U.S. EPA

TRANSPORTER: TO BE DETERMINED

FACILITY ADDRESS: U.S. SCRAP
12300 S. COTTAGE GROVE
CHICAGO, IL

TRANSPORTER PHONE:

GENERATOR USEPA I.D.: ILD980679784

GENERATOR STATE I.D.:

TECHNICAL CONTACT: BRIAND WU

TITLE: ON-SCENE COORDINATOR

PHONE: 312/886-6246

NAME OF WASTE: BASE/NEUTRAL DRUMS

PROCESS GENERATING WASTE: WASTE SITE CLEANUP

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: BROWN

ODOR: ☐ NONE ☐ MILD ☐ STRONG

DESCRIBE: NA

PHYSICAL STATE @ 70°F: ☒ SOLID ☐ SEMI-SOLID ☐ LIQUID ☐ POWDER

LAYERS: ☐ MULTILAYERED ☐ BI-LAYERED ☒ SINGLE PHASED

FREE LIQUIDS: ☐ YES ☒ NO

VOLUME: %

pH: ☐ < 2 ☐ 2-4 ☒ 4.1-6.9 ☐ 7 ☐ 7.1-10 ☐ 10.1-12.5 ☐ > 12.5 ☒ EXACT 5.2 ☐ N/A

SPECIFIC GRAVITY: ☐ < 8 ☐ 8-1.0 ☐ 1.1-1.2 ☐ EXACT NA ☐ 1.3-1.4 ☐ 1.5-1.7 ☐ > 1.7

FLASH POINT: ☐ < 70°F ☐ 70°F-100°F ☒ 101°F-139°F ☐ 140°F-200°F ☐ > 200°F ☐ NO FLASH ☒ EXACT 120°F ☒ CLOSED CUP ☐ OPEN CUP

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

INORGANIC SALTS	6 %
PLASTICS	67 %
VOLATILE ORGANICS	13 %
WATER	14 %
	%
	%
	%
	%
	%
	%

D. METALS ☐ TOTAL (PPM) ☒ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	<0.5 mg/L	SELENIUM (Se)	<0.1 mg/L
BARIUM (Ba)	<10 mg/L	SILVER (Ag)	<0.5 mg/L
CADMIUM (Cd)	<0.1 mg/L	COPPER (Cu)	<0.5 mg/L
CHROMIUM (Cr)	0.7 mg/L	NICKEL (Ni)	<0.5 mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	1.5 mg/L
LEAD (Pb)	<0.5 mg/L	THALLIUM (Tl)	N/A
CHROMIUM-HEX (Cr + 6)	N/A		

E. OTHER COMPONENTS - TOTAL (PPM)

CYANIDES: TOTAL <5 ppm, REACTIVE <5 ppm

SULFIDES: TOTAL <5 ppm, REACTIVE <5 ppm

PCB'S: NA

PHENOLICS: 75 ppm

F. SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO

PROPER SHIPPING NAME: HAZARDOUS WASTE SOLID, n.o.s.

HAZARD CLASS: CRM-E I.D. NO. NA9189 R.Q.:

METHOD OF SHIPMENT: ☐ BULK LIQUID ☒ BULK SOLID or ☒ DRUM (TYPE/SIZE) 55 gal or 35 gal

ANTICIPATED VOLUME: GALS. 20.6 CUBIC YARDS

OTHER 57 or 55 gal / 19 - 35 gal

PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER

OTHER HAZARDOUS CHARACTERISTICS: ☐ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☒ OTHER IGNITABLE

USEPA HAZARDOUS WASTE? ☒ YES ☐ NO

USEPA HAZARDOUS CODE(S): D001

STATE HAZARDOUS WASTE? ☐ YES ☐ NO

STATE CODE(S):

H. SPECIAL HANDLING INFORMATION CONTACT REGARDING INFORMATION BILLING
PEI ASSOCIATES, INC.; 11499 CHESTER RD., CINCINNATI, OH 45246 ATTN: PAUL KEFAUVER 513/782-4841

☒ ADDITIONAL PAGE(S) ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE, AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED

AUTHORIZED SIGNATURE	TITLE	DATE
Briand C. Wu	OSC	2-7-26

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

WASTE PROFILE SHEET CODE: COL F61865

TSDR

A GENERAL INFORMATION

GENERATOR NAME: U.S. EPA

TRANSPORTER: TO BE DETERMINED

FACILITY ADDRESS: U.S. SCRAP
12300 S. COTTAGE GROVE
CHICAGO IL

TRANSPORTER PHONE:

GENERATOR USEPA I.D.: ILD 98067 9784

GENERATOR STATE I.D.:

TECHNICAL CONTACT: BRIAND WU

TITLE: ON SCENE COORDINATOR

PHONE: 312/886-6246

NAME OF WASTE: CRUSHED DRUMS

PROCESS GENERATING WASTE: WASTE SITE CLEANUP

B PHYSICAL CHARACTERISTICS OF WASTE

COLOR: NA

ODOR: ☐ NONE ☐ MILD ☐ STRONG

DESCRIBE: NA

PHYSICAL STATE @ 70°F: ☒ SOLID ☐ SEMI-SOLID ☐ LIQUID ☐ POWDER

LAYERS: ☐ MULTI-LAYERED ☐ BI-LAYERED ☒ SINGLE PHASED

FREE LIQUIDS: ☐ YES ☒ NO

VOLUME:

pH: ☐ < 2 ☐ 2-4 ☐ 4.1-6.9 ☐ 7 ☐ 7.1-10 ☐ 10.1-12.5 ☐ > 12.5 ☐ EXACT ☒ N/A

SPECIFIC GRAVITY: ☐ < .8 ☐ .8-1.0 ☐ 1.1-1.2 ☐ EXACT NA ☐ 1.3-1.4 ☐ 1.5-1.7 ☐ > 1.7

FLASH POINT: ☐ < 70°F ☐ 70°F-100°F ☐ 101°F-139°F ☐ 140°F-200°F ☐ > 200°F ☐ NO FLASH ☐ EXACT NA ☐ CLOSED CUP ☐ OPEN CUP

C CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

CRUSHED DRUMS + DEBRIS 100

D METALS ☐ TOTAL (PPM) ☐ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	NA	SELENIUM (Se)	NA
BARIUM (Ba)	NA	SILVER (Ag)	NA
CADMIUM (Cd)	NA	COPPER (Cu)	NA
CHROMIUM (Cr)	NA	NICKEL (Ni)	NA
MERCURY (Hg)	NA	ZINC (Zn)	NA
LEAD (Pb)	NA	THALLIUM (Tl)	NA
CHROMIUM-HEX (Cr + 6)	NA		

E OTHER COMPONENTS ☐ TOTAL (PPM)

CYANIDES	NA	PCB'S	NA
SULFIDES	NA	PHENOLICS	NA

F SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO

PROPER SHIPPING NAME: HAZARDOUS WASTE SOLID N.O.S.

HAZARD CLASS: ORM-E I.D. NO: NA 9189 R.Q.:

METHOD OF SHIPMENT: ☐ BULK LIQUID ☒ BULK SOLID ☐ DRUM (TYPE/SIZE):

ANTICIPATED VOLUME: GALS 20 CUBIC YARDS OTHER:

PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐

G HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER

OTHER HAZARDOUS CHARACTERISTICS: ☒ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☐ OTHER

USEPA HAZARDOUS WASTE? ☐ YES ☒ NO

USEPA HAZARDOUS CODE(S):

STATE HAZARDOUS WASTE? ☐ YES ☒ NO

STATE CODE(S):

H SPECIAL HANDLING INFORMATION CONTACT REGARDING INFORMATION & BILLING
PEI ASSOCIATES, INC.; 11499 CHESTER RD; CINCINNATI, OH 45246
ATTN: PAUL REFAUVER 513/782-4841

☐ ADDITIONAL PAGE(S) ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED

AUTHORIZED SIGNATURE	TITLE	DATE
[signature]	OSC	2-7-86

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

WASTE PROFILE SHEET CODE: CCL
TSDF: F61872

A GENERAL INFORMATION

GENERATOR NAME: U.S. EPA
FACILITY ADDRESS: U.S. SUPER 120 S. STATE STREET
CHICAGO, IL
TRANSPORTER: TRI DETERMINED
TRANSPORTER PHONE:
GENERATOR USEPA ID: ILD980617954
GENERATOR STATE ID:
TECHNICAL CONTACT: DAVID LIU
TITLE: ON-SCENE COORDINATOR
PHONE: 312/886-7541
NAME OF WASTE: FLAMMABLE SOLID
PROCESS GENERATING WASTE: WASTE SITE CLEANUP

B PHYSICAL CHARACTERISTICS OF WASTE

COLOR: DARK
ODOR: ☐ NONE ☐ MILD ☐ STRONG
DESCRIBE: NA
PHYSICAL STATE @ 70°F: ☐ SOLID ☒ SEMI-SOLID ☐ LIQUID ☐ POWDER
LAYERS: ☐ MULTI-LAYERED ☐ BI-LAYERED ☒ SINGLE PHASED
FREE LIQUIDS: ☐ YES ☒ NO
VOLUME:

pH: ☐ < 2 ☒ 7.1 - 10 ☐ N/A ☐ 2-4 ☐ 10.1 - 12.5 ☐ 4.1 - 6.9 ☐ > 12.5 ☐ 7 ☒ EXACT 2.2
SPECIFIC GRAVITY: ☐ < .8 ☐ 1.3 - 1.4 ☐ .8 - 1.0 ☐ 1.5 - 1.7 ☐ 1.1 - 1.2 ☐ > 1.7 ☐ EXACT NA
FLASH POINT: ☐ < 70°F ☐ > 200°F ☒ CLOSED CUP ☒ 70°F - 100°F ☐ NO FLASH ☐ OPEN CUP ☐ 101°F - 139°F ☒ EXACT <59°F ☐ 140°F - 200°F

C CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

[illegible]	1 %
PLASTICS	50 %
RUBBISH	35 %
WATER	4 %
VOLATILE ORGANICS	10 %

D METALS ☐ TOTAL PPM ☒ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	<0.5 mg/L	SELENIUM (Se)	<0.1 mg/L
BARIUM (Ba)	<10 mg/L	SILVER (Ag)	<0.5 mg/L
CADMIUM (Cd)	0.1 mg/L	COPPER (Cu)	0.6 mg/L
CHROMIUM (Cr)	<0.5 mg/L	NICKEL (Ni)	0.5 mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	8.3 mg/L
LEAD (Pb)	0.5 mg/L	THALLIUM (Tl)	NA
CHROMIUM-HEX (Cr+6)	NA		

E OTHER COMPONENTS TOTAL (PPM)

CYANIDES	TOTAL <5 ppm; REACTIVE <5 ppm	PCB'S	NA
SULFIDES	TOTAL <5 ppm; REACTIVE <5 ppm	PHENOLICS	26 ppm

F SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO
PROPER SHIPPING NAME: FLAMMABLE SOLID N.O.S.
HAZARD CLASS: FLAMMABLE SOLID ID NO: UN 1325 PG:
METHOD OF SHIPMENT: ☐ BULK LIQUID ☐ BULK SOLID ☒ DRUM (TYPE/SIZE) 55 GAL
ANTICIPATED VOLUME: GALS: CUBIC YARDS: 1 DRUM OTHER:
PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐

G HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER
OTHER HAZARDOUS CHARACTERISTICS: ☐ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☒ OTHER IGNITABLE
USEPA HAZARDOUS WASTE? ☒ YES ☐ NO
USEPA HAZARDOUS CODE(S): D001
STATE HAZARDOUS WASTE? ☒ YES ☐ NO
STATE CODE(S):

H SPECIAL HANDLING INFORMATION AND/OR REGARDING INFORMATION FURNISHED
FEI ASSOCIATES 11499 CHESTER RD. CINCINNATI, OH 45246
ATTN: PAUL KEFAUVER 513/782-4341
☒ ADDITIONAL PAGES ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED.

AUTHORIZED SIGNATURE: [illegible] TITLE: OSC DATE: 2-7-86

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

LOI
TSDF

A GENERAL INFORMATION

GENERATOR NAME: U.S. EPA
TRANSPORTER: To Be Determined
FACILITY ADDRESS: U.S. Scrap, 2200 Southside Drive, Dalmacia, IL
TRANSPORTER PHONE:
GENERATOR USEPA ID: ILD985187557
GENERATOR STATE ID:
TECHNICAL CONTACT: Brian Wo
TITLE: On Scene Coordinator
PHONE: 312 886-1241
NAME OF WASTE: Concrete 2-13
PROCESS GENERATING WASTE: Waste Site Cleanup

B PHYSICAL CHARACTERISTICS OF WASTE

COLOR: Red Brown Black
ODOR: ☐ NONE ☐ MILD ☐ STRONG — DESCRIBE: NA
PHYSICAL STATE: ☒ SOLID ☐ SEMI SOLID ☐ LIQUID ☐ POWDER
LAYERS: ☐ MULTI LAYERED ☐ BI LAYERED ☒ SINGLE PHASED
FREE LIQUIDS: ☐ YES ☒ NO — VOLUME:

pH: ☐ < 2 ☐ 2.1-10 ☐ N/A ☐ 2-4 ☐ 10.1-12.5 ☒ 4.1-6.9 ☐ > 12.5 ☐ EXACT 6.4
SPECIFIC GRAVITY: ☐ < 1 ☐ 1.1-1.4 ☐ 1.5-1.9 ☐ 2.0-2.2 ☐ > 2.2 ☐ EXACT NA
FLASH POINT: ☐ < 70°F ☐ > 200°F ☒ CLOSED CUP ☐ 70°F-100°F ☐ NO FLASH ☐ OPEN CUP ☐ 101°F-139°F ☒ EXACT <80°F ☐ 140°F-200°F

C CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

Organic Salts	51
Plastics	30
Volatile Organics	4
Water	15

D METALS (TOTAL PPM) ☒ EPA EXTRACTION PROCEDURE (TCLP)

ARSENIC (As)	<0.5 mg/L	SELENIUM (Se)	<0.5 mg/L
BARIUM (Ba)	<0.5 mg/L	SILVER (Ag)	<0.5 mg/L
CADMIUM (Cd)	0.3 mg/L	COPPER (Cu)	<0.5 mg/L
CHROMIUM (Cr)	0.5 mg/L	NICKEL (Ni)	<0.5 mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	14 mg/L
LEAD (Pb)	200 mg/L	THALLIUM (Tl)	NA
CHROMIUM-HEX (Cr+6)	NA		

E OTHER COMPONENTS (TOTAL PPM)

CYANIDES	Free <5.0 ppm, Total <25 ppm	PCBS	NA
SULFIDES	Reactive <2.0 ppm, Total <5 ppm	PHENOLICS	11

F SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO
PROPER SHIPPING NAME: Flammable Solid, n.o.s.
HAZARD CLASS: Flammable Solid — ID NO: UN1325 — RQ:
METHOD OF SHIPMENT: ☐ BULK LIQUID ☐ BULK SOLID ☒ DRUM (TYPE/SIZE) 55 gal
ANTICIPATED VOLUME: GALS: CUBIC YARDS: 3 Drums OTHER:
PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR

G HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER
OTHER HAZARDOUS CHARACTERISTICS: ☐ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☒ OTHER: Ignitable
USEPA HAZARDOUS WASTE? ☐ YES ☐ NO
USEPA HAZARDOUS CODE(S): D003 D001
STATE HAZARDOUS WASTE? ☒ YES ☐ NO
STATE CODE(S):

H SPECIAL HANDLING INFORMATION Original Referring Information Filed
HCI Associates, Inc., 11499 Chester Rd. Cincinnati, OH 45241. Attn: Paul Reefer 513/782-4841 ☒ ADDITIONAL PAGES ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED.

AUTHORIZED SIGNATURE: Brian C. Wo
TITLE: OSC
DATE: 2-7-86

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

WASTE PROFILE SHEET CODE: [illegible] F81381

TSDR

A. GENERAL INFORMATION

GENERATOR NAME: [illegible]

TRANSPORTER: [illegible]

FACILITY ADDRESS: [illegible] SCRAP
[illegible] S [illegible] GROVE
[illegible] IL

TRANSPORTER PHONE:

GENERATOR USEPA ID: [illegible]

GENERATOR STATE ID:

TECHNICAL CONTACT: [illegible]

TITLE: ON-SCENE COORDINATOR

PHONE: 312/[illegible]

NAME OF WASTE:

PROCESS GENERATING WASTE: WASTE SITE CLEANUP

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: [illegible]

ODOR: ☐ NONE ☐ MILD ☐ STRONG — DESCRIBE: [illegible]

PHYSICAL STATE: ☒ SOLID ☐ SEMI-SOLID ☐ LIQUID ☐ POWDER

LAYERS: ☐ MULTI-LAYERED ☐ BI-LAYERED ☒ SINGLE PHASED

FREE LIQUIDS: ☐ YES ☒ NO — VOLUME:

pH: ☐ < 2 ☒ 7.1-10 ☐ N/A ☐ 2-4 ☐ 10.1-12.5 ☐ 4.1-6.9 ☐ > 12.5 ☐ 7 ☒ EXACT 7.2

SPECIFIC GRAVITY: ☐ < .8 ☐ 1.3-1.4 ☐ .8-1.0 ☐ 1.5-1.7 ☐ 1.1-1.2 ☐ > 1.7 ☐ EXACT NA

FLASH POINT: ☐ < 70°F ☒ > 200°F ☒ CLOSED CUP ☐ 70°F-100°F ☐ NO FLASH ☐ OPEN CUP ☐ 101°F-139°F ☐ EXACT ☐ 140°F-200°F

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100)

[illegible]

D. METALS ☐ TOTAL (PPM) ☒ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	[illegible]	SELENIUM (Se)	[illegible]
BARIUM (Ba)	[illegible]	SILVER (Ag)	[illegible]
CADMIUM (Cd)	1.1 mg/L	COPPER (Cu)	1.10 mg/L
CHROMIUM (Cr)	<0.5 mg/L	NICKEL (Ni)	<0.5 mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	20 mg/L
LEAD (Pb)	1.1 mg/L	THALLIUM (Tl)	NA
CHROMIUM HEX (Cr+6)	NA		

E. OTHER COMPONENTS (TOTAL PPM)

CYANIDES	TOTAL <5 PPM / REACTIVE <5 PPM	PCB'S	[illegible] PPM
SULFIDES	TOTAL <5 PPM / REACTIVE <5 PPM	PHENOLICS	<5 PPM

F. SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO

PROPER SHIPPING NAME: POLYCHLORINATED BIPHENYLS

HAZARD CLASS: CRM-LE — I.D. NO: UN2315 — R.Q.:

METHOD OF SHIPMENT: ☐ BULK LIQUID ☐ BULK SOLID ☒ DRUM (TYPE/SIZE): 55 GAL

ANTICIPATED VOLUME: ____ GALS ____ CUBIC YARDS 1 DRUM OTHER ____

PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐ ____

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER ____

OTHER HAZARDOUS CHARACTERISTICS: ☐ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☒ OTHER PCB

USEPA HAZARDOUS WASTE? ☐ YES ☒ NO

USEPA HAZARDOUS CODE(S):

STATE HAZARDOUS WASTE? ☐ YES ☒ NO

STATE CODE(S):

H. SPECIAL HANDLING INFORMATION [illegible] REGARDING INFORMATION & BILLING
PEI ASSOCIATES INC, 11499 CHESTER RD, CINCINNATI, OH 45246
[illegible] 513/782-4941

☒ ADDITIONAL PAGE(S) ATTACHED

[illegible] SUSPECTED HAZARDS HAVE BEEN DISCLOSED

AUTHORIZED SIGNATURE: [signature] — TITLE: CSC — DATE: 2-7-86

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

DATE: [illegible]
SUP: [illegible]

A GENERAL INFORMATION

GENERATOR NAME: U.S. EPA
FACILITY ADDRESS: S. SARGO 2300 S. [illegible] GROVE ULMAGO IL
TRANSPORTER: TBD DETERMINED
TRANSPORTER PHONE:
GENERATOR USEPA ID: [illegible]
GENERATOR STATE ID:
TECHNICAL CONTACT: CRAIG [illegible]
TITLE: SR. SITE COORDINATOR
PHONE: [illegible]
NAME OF WASTE: SOIL
PROCESS GENERATING WASTE: WASTE SITE CLEANUP

B PHYSICAL CHARACTERISTICS OF WASTE

COLOR: BROWN
ODOR: [ ] NONE [ ] MILD [ ] STRONG — DESCRIBE:
PHYSICAL STATE: [X] SOLID [ ] SEMI SOLID [ ] LIQUID [ ] POWDER
LAYERS: [ ] MULTI LAYERED [ ] BILAYERED [X] SINGLE PHASED
FREE LIQUID: [ ] YES [X] NO — VOLUME:

pH: [ ] < 2 [X] 2.1-10 [ ] N/A [ ] 2-4 [ ] 10.1-12.5 [ ] 4.1-6.9 [ ] > 12.5 [X] EXACT 4.2
SPECIFIC GRAVITY: [ ] < .8 [ ] .8-1.0 [ ] 1.1-1.2 [ ] 1.3-1.4 [ ] 1.5-1.7 [ ] > 1.7 [ ] EXACT NP
FLASH POINT: [ ] < 70°F [X] > 200°F [X] CLOSED CUP [ ] 70°F-100°F [ ] NO FLASH [ ] OPEN CUP [ ] 101°F-139°F [ ] EXACT [ ] 140°F-200°F

C CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100)

[illegible]	[illegible]
[illegible]	[illegible]

D METALS [ ] TOTAL PPM [X] EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC As	<0.5 mg/L	SELENIUM Se	<0.5 mg/L
BARIUM Ba	<0.5 mg/L	SILVER Ag	<0.5 mg/L
CADMIUM Cd	<0.5 mg/L	COPPER Cu	<0.5 mg/L
CHROMIUM Cr	<0.5 mg/L	NICKEL Ni	<0.5 mg/L
MERCURY Hg	<0.02 mg/L	ZINC Zn	<3 mg/L
LEAD Pb	<0.5 mg/L	THALLIUM Tl	NP
CHROMIUM VI Cr+6	NP		

E OTHER COMPONENTS (TOTAL PPM)

CYANIDES: TOTAL <5 mg/kg; REACTIVE <5 mg/L; TOTAL 140 mg/kg
SULFIDES: ~~REACTIVE [illegible]~~
PCBS: NP
PHENOLICS: 9.0 mg/L

F SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? [X] YES [ ] NO
PROPER SHIPPING NAME: HAZARDOUS WASTE SOLID, N.O.S.
HAZARD CLASS: ORM-E ID NO: NA9189 PG:
METHOD OF SHIPMENT: [ ] BULK LIQUID [X] BULK SOLID [ ] DRUM (TYPE/SIZE)
ANTICIPATED VOLUME: GALS 80 CUBIC YARDS [ ] OTHER
PER: [X] ONE TIME [ ] WEEK [ ] MONTH [ ] QUARTER [ ] YEAR

G HAZARDOUS CHARACTERISTICS

REACTIVITY: [ ] NONE [ ] PYROPHORIC [ ] SHOCK SENSITIVE [ ] EXPLOSIVE [ ] WATER REACTIVE [X] OTHER: ACID REACTIVE AS PRODUCED
OTHER HAZARDOUS CHARACTERISTICS: [X] NONE [ ] RADIOACTIVE [ ] ETIOLOGICAL [ ] PESTICIDE MANUFACTURING WASTE [ ] OTHER
USEPA HAZARDOUS WASTE? [X] YES [ ] NO
USEPA HAZARDOUS CODE(S): D003
STATE HAZARDOUS WASTE? [X] YES [ ] NO
STATE CODE(S):

H SPECIAL HANDLING INFORMATION (WITH REGARDING INFORMATION FILLING)

MET ASSOCIATES INC; 11499 LESTER RD.; CINCINNATI, OH 45246
ATTN: PAUL KEPALVER 513/782-4820

[X] ADDITIONAL PAGES ATTACHED

[illegible] HAS BEEN PROVIDED

[signature] DSC 2-7-96

WESTON • SPER
Suite 1501, Northbrook Office Court
666 West Dundee Road, Northbrook, IL 60062 • (312) 498-9094

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-01-6669

Ms. Susan Stokes
Chemical Waste Management of Alabama, Inc.
P.O. Box 55
Emelle, Alabama 35459

January 30, 1986

TAT-05-F-00820

Dear Ms. Stokes:

Please find enclosed completed waste profile sheets for waste submitted for disposal consideration at CWM - Emelle, AL. As discussed with Mr. Tim Welch at CWM's Model City facility, representative waste samples have not been sent to CWM because the enclosed chemical waste analyses were performed by a CWM-approved laboratory.

If you have any questions, please contact me at 312/498-9090.

Very truly yours,

ROY F. WESTON, INC.

Tom Gainer

Tom Gainer
Environmental Engineer

Scott D. Springer

Scott D. Springer
Technical Assistance Team
Leader, Region V

TG:ap

Enclosure

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

WASTE PROFILE SHEET CODE: COL F61873

TSDR

A. GENERAL INFORMATION

GENERATOR NAME: U.S. EPA

FACILITY ADDRESS: U.S. SCRAP, 2300 S. COTTAGE GROVE, CHICAGO, IL

TRANSPORTER: TO BE DETERMINED

TRANSPORTER PHONE:

GENERATOR USEPA I.D.: IL 093 067 9784

GENERATOR STATE I.D.:

TECHNICAL CONTACT: BRIAND WU

TITLE: ON-SCENE COORDINATOR

PHONE: 312/886-6246

NAME OF WASTE: BASE/NEUTRAL DRUMS

PROCESS GENERATING WASTE: WASTE SITE CLEANUP

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: BROWN

ODOR: ☐ NONE ☐ MILD ☐ STRONG — DESCRIBE: NA

PHYSICAL STATE @ 70°F: ☒ SOLID ☐ SEMI-SOLID ☐ LIQUID ☐ POWDER

LAYERS: ☐ MULTILAYERED ☐ BI-LAYERED ☒ SINGLE PHASED

FREE LIQUIDS: ☐ YES ☒ NO — VOLUME

pH: ☐ < 2 ☐ 2-4 ☒ 4.1-6.9 ☐ 7 ☐ 7.1-10 ☐ 10.1-12.5 ☐ > 12.5 ☒ EXACT 5.2 ☐ N/A

SPECIFIC GRAVITY: ☐ < 8 ☐ 8-1.0 ☐ 1.1-1.2 ☐ EXACT NA ☐ 1.3-1.4 ☐ 1.5-1.7 ☐ > 1.7

FLASH POINT: ☐ < 70°F ☐ 70°F-100°F ☒ 101°F-139°F ☐ 140°F-200°F ☐ > 200°F ☐ NO FLASH ☒ EXACT 150°F ☒ CLOSED CUP ☐ OPEN CUP

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

INORGANIC SALTS	6 %
PLASTICS	67 %
VOLATILE ORGANICS	13 %
WATER	14 %

D. METALS ☐ TOTAL (PPM) ☒ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	<0.5 mg/L	SELENIUM (Se)	<0.1 mg/L
BARIUM (Ba)	<10 mg/L	SILVER (Ag)	<0.5 mg/L
CADMIUM (Cd)	<0.1 mg/L	COPPER (Cu)	<0.5 mg/L
CHROMIUM (Cr)	0.7 mg/L	NICKEL (Ni)	<0.5 mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	1.5 mg/L
LEAD (Pb)	<0.5 mg/L	THALLIUM (Tl)	N/A
CHROMIUM-HEX (Cr + 6)	N/A		

E. OTHER COMPONENTS - TOTAL (PPM)

CYANIDES: TOTAL <5 ppm, REACTIVE <5 ppm

SULFIDES: TOTAL <5 ppm, REACTIVE <5 ppm

PCB'S: NA

PHENOLICS: 75 ppm

F. SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO

PROPER SHIPPING NAME: HAZARDOUS WASTE SOLID, n.o.s.

HAZARD CLASS: ORM-E — I.D. NO.: NA9189 — R.Q.:

METHOD OF SHIPMENT: ☐ BULK LIQUID ☒ BULK SOLID or ☒ DRUM (TYPE/SIZE) 55 gal + 35 gal

ANTICIPATED VOLUME: GALS. 20.6 CUBIC YARDS or OTHER 57 - 55 gal / 17 - 35 gal

PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER

OTHER HAZARDOUS CHARACTERISTICS: ☐ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☒ OTHER IGNITABLE

USEPA HAZARDOUS WASTE? ☒ YES ☐ NO

USEPA HAZARDOUS CODE(S): D001

STATE HAZARDOUS WASTE? ☐ YES ☐ NO

STATE CODE(S):

H. SPECIAL HANDLING INFORMATION SN: ACT REGARDING INFORMATION DRILLING PEI ASSOCIATES, INC.; 11499 CHESTER RD., CINCINNATI, OH 45246 ATTN: PAUL REFAUVER 513/782-4541 ☒ ADDITIONAL PAGE(S) ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED

AUTHORIZED SIGNATURE	TITLE	DATE
Briand C. Wu	OSC	2-7-86

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

WASTE PROFILE SHEET CODE: COL F61865

TSDR

A. GENERAL INFORMATION

GENERATOR NAME: U.S. EPA

TRANSPORTER: TO BE DETERMINED

FACILITY ADDRESS: U.S. SCRAP
12300 S COTTAGE GROVE
CHICAGO IL

TRANSPORTER PHONE:

GENERATOR USEPA I.D.: ILD 980679484

GENERATOR STATE I.D.:

TECHNICAL CONTACT: BRIAND WU

TITLE: ON SCENE COORDINATOR

PHONE: 312/886-6246

NAME OF WASTE: CRUSHED DRUMS

PROCESS GENERATING WASTE: WASTE SITE CLEANUP

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: NA

ODOR: ☐ NONE ☐ MILD ☐ STRONG

DESCRIBE: NA

PHYSICAL STATE @ 70°F: ☒ SOLID ☐ SEMI-SOLID ☐ LIQUID ☐ POWDER

LAYERS: ☐ MULT LAYERED ☐ BI-LAYERED ☒ SINGLE PHASED

FREE LIQUIDS: ☐ YES ☒ NO

VOLUME: %

pH: ☐ < 2 ☐ 2-4 ☐ 4.1-6.9 ☐ 7 ☐ 7.1-10 ☐ 10.1-12.5 ☐ > 12.5 ☐ EXACT ☒ N/A

SPECIFIC GRAVITY: ☐ < .8 ☐ .8-1.0 ☐ 1.1-1.2 ☐ EXACT NA ☐ 1.3-1.4 ☐ 1.5-1.7 ☐ > 1.7

FLASH POINT: ☐ < 70°F ☐ 70°F-100°F ☐ 101°F-139°F ☐ 140°F-200°F ☐ > 200°F ☐ NO FLASH ☐ EXACT NA ☐ CLOSED CUP ☐ OPEN CUP

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

CRUSHED DRUMS - DEBRIS 100 %

D. METALS ☐ TOTAL (PPM) ☐ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	NA	SELENIUM (Se)	NA
BARIUM (Ba)	NA	SILVER (Ag)	NA
CADMIUM (Cd)	NA	COPPER (Cu)	NA
CHROMIUM (Cr)	NA	NICKEL (Ni)	NA
MERCURY (Hg)	NA	ZINC (Zn)	NA
LEAD (Pb)	NA	THALLIUM (Tl)	NA
CHROMIUM-HEX (Cr + 6)	NA		

E. OTHER COMPONENTS (TOTAL (PPM))

CYANIDES	NA	PCB'S	NA
SULFIDES	NA	PHENOLICS	NA

F. SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO

PROPER SHIPPING NAME: HAZARDOUS WASTE SOLID NOS

HAZARD CLASS: ORM-E I.D. NO: NA 9189 R.Q.:

METHOD OF SHIPMENT: ☐ BULK LIQUID ☒ BULK SOLID ☐ DRUM (TYPE/SIZE):

ANTICIPATED VOLUME: GALS 20 CUBIC YARDS

OTHER:

PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER

OTHER HAZARDOUS CHARACTERISTICS: ☒ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☐ OTHER

USEPA HAZARDOUS WASTE? ☐ YES ☒ NO

USEPA HAZARDOUS CODE(S):

STATE HAZARDOUS WASTE? ☐ YES ☒ NO

STATE CODE(S):

H. SPECIAL HANDLING INFORMATION CONTACT REGARDING INFORMATION & BILLING
PEI ASSOCIATES, INC.; 11499 CHESTER RD; CINCINNATI, OH 45246
ATTN: PAUL REFAUVER 513/782-4841

☐ ADDITIONAL PAGE(S) ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED

AUTHORIZED SIGNATURE	TITLE	DATE
[signature]	OSC	2-7-86

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

WASTE PROFILE SHEET CODE: COL

SDH: F81372

A. GENERAL INFORMATION

GENERATOR NAME: U.S. EPA

FACILITY ADDRESS: U.S. SCRAP, 12300 S. COTTAGE GROVE, CHICAGO, IL

TRANSPORTER: TO BE DETERMINED

TRANSPORTER PHONE:

GENERATOR USEPA ID: ILD9806[illegible]

GENERATOR STATE ID:

TECHNICAL CONTACT: BRIAND WU

TITLE: ON-SCENE COORDINATOR

PHONE: 312 1886 [illegible]

NAME OF WASTE: FLAMMABLE SOLID

PROCESS GENERATING WASTE: WASTE SITE CLEANUP

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: BLACK

ODOR: ☐ NONE ☐ MILD ☐ STRONG

DESCRIBE: N/A

PHYSICAL STATE (70°F): ☐ SOLID ☒ SEMI SOLID ☐ LIQUID ☐ POWDER

LAYERS: ☐ MULTI LAYERED ☐ BI-LAYERED ☒ SINGLE PHASED

FREE LIQUIDS: ☐ YES ☒ NO

VOLUME:

pH: ☐ < 2 ☒ 7.1-10 ☐ N/A ☐ 2-4 ☐ 10.1-12.5 ☐ 4.1-6.9 ☐ > 12.5 ☐ [illegible] ☒ EXACT 2.2

SPECIFIC GRAVITY: ☐ < 3 ☐ 1.3-1.4 ☐ 8-1.0 ☐ 1.5-1.7 ☐ 1.1-1.2 ☐ > 1.7 ☐ EXACT N/A

FLASH POINT: ☐ < 70°F ☐ > 200°F ☒ CLOSED CUP ☒ 70°F-100°F ☐ NO FLASH ☐ OPEN CUP ☐ 101°F-139°F ☒ EXACT 55°F ☐ 140°F-200°F

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

INORGANIC SALTS	1 %
PLASTICS	30 %
VARNISH	35 %
WATER	9 %
VOLATILE ORGANICS	10 %

D. METALS ☐ TOTAL (PPM) ☒ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	<0.5 mg/L	SELENIUM (Se)	<0.1 mg/L
BARIUM (Ba)	<10 mg/L	SILVER (Ag)	<0.5 mg/L
CADMIUM (Cd)	0.1 mg/L	COPPER (Cu)	0.6 mg/L
CHROMIUM (Cr)	<0.5 mg/L	NICKEL (Ni)	0.5 mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	8.8 mg/L
LEAD (Pb)	0.5 mg/L	THALLIUM (Tl)	N/A
CHROMIUM-HEX (Cr+6)	N/A		

E. OTHER COMPONENTS (TOTAL PPM)

CYANIDES: TOTAL <5 ppm; REACTIVE <5 ppm

SULFIDES: TOTAL <5 ppm; REACTIVE <5 ppm

PCB'S: N/A

PHENOLICS: 26 ppm

F. SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO

PROPER SHIPPING NAME: FLAMMABLE SOLID N.O.S.

HAZARD CLASS: FLAMMABLE SOLID I.D. NO: UN 1325 R.Q.:

METHOD OF SHIPMENT: ☐ BULK LIQUID ☐ BULK SOLID ☒ DRUM (TYPE/SIZE): 55 GAL

ANTICIPATED VOLUME: GALS: CUBIC YARDS: 1 DRUM OTHER:

PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER

OTHER HAZARDOUS CHARACTERISTICS: ☐ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☒ OTHER IGNITABLE

USEPA HAZARDOUS WASTE? ☒ YES ☐ NO

USEPA HAZARDOUS CODE(S): D001

STATE HAZARDOUS WASTE? ☒ YES ☐ NO

STATE CODE(S):

H. SPECIAL HANDLING INFORMATION: [illegible] REGARDING INFORMATION & BILLING

PEI ASSOCIATES 11499 CHESTER RD. CINCINNATI, OH 45246

ATTN: PAUL REFAUVER 513/782-4341

☒ ADDITIONAL PAGE(S) ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED

AUTHORIZED SIGNATURE: [signature] TITLE: OSC DATE: 2-7-86

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

CCL

A GENERAL INFORMATION

GENERATOR NAME: U.S. EPA

PROJECT ADDRESS: U.S. SCRAP, 1200 SLUTTER DRIVE, TEMPLETON, IL

TRANSPORTER: TO BE DETERMINED

TRANSPORTER PHONE:

GENERATOR USEPA ID: ILD985813690

GENERATOR STATE ID:

TECHNICAL CONTACT: DRAND WILL TITLE: RESPONSE COORDINATOR PHONE: 312/886-6241

NAME OF WASTE: CONCRETE SAFE

PROCESS GENERATING WASTE: WASTE SITE CLEANUP

B PHYSICAL CHARACTERISTICS OF WASTE

COLOR: BEIGE BROWN, BLACK

ODOR: ☐ NONE ☐ MILD ☐ STRONG — DESCRIBE: NP

CHEMICAL STATE: ☒ SOLID ☐ SEMI SOLID ☐ LIQUID ☐ POWDER

LAYERS: ☐ MULTI LAYERED ☐ BI LAYERED ☒ SINGLE PHASED

FREE LIQUIDS: ☐ YES ☒ NO — VOLUME:

pH: ☐ < 2 ☐ 2-4 ☐ 4.1-6.9 ☒ > 12.5 ☐ EXACT 6.4

SPECIFIC GRAVITY: ☐ < 1 ☐ 1.1-1.2 ☐ > 1.2 ☐ EXACT NP

FLASH POINT: ☐ < 70°F ☐ 70°F-100°F ☐ 101°F-139°F ☐ 140°F-200°F ☐ > 200°F ☐ NO FLASH ☒ EXACT <50°F ☒ CLOSED CUP ☐ OPEN CUP

C CHEMICAL COMPOSITION

[illegible]	[illegible]
[illegible]	[illegible]
VOLATILE ORGANICS	[illegible]
WATER	[illegible]

D METALS — TOTAL (PPM) ☒ EPA EXTRACTION PROCEDURE (PPM)

ARSENIC (As)	<0.5mg/L	SELENIUM (Se)	<0.5mg/L
BARIUM (Ba)	[illegible]	SILVER (Ag)	<0.5mg/L
CADMIUM (Cd)	<0.5mg/L	COPPER (Cu)	<0.5mg/L
CHROMIUM (Cr)	<0.5mg/L	NICKEL (Ni)	<0.5mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	14 mg/L
LEAD (Pb)	200 mg/L	THALLIUM (Tl)	NP
CHROMIUM HEXAVALENT	NP		

E OTHER COMPONENTS (TOTAL PPM)

CYANIDES	FREE <5.0 PPM; TOTAL <5.0 PPM	PCB'S	NP
SULFIDES	REACTIVE <5.0 PPM; TOTAL <5.0 PPM	PHENOLICS	NP

F SHIPPING INFORMATION

DOT HAZARDOUS MATERIAL? ☒ YES ☐ NO

PROPER SHIPPING NAME: FLAMMABLE SOLID, n.o.s.

HAZARD CLASS: FLAMMABLE SOLID — ID NO: UN1325 — P.G.:

METHOD OF SHIPMENT: ☐ BULK LIQUID ☐ BULK SOLID ☒ DRUM (TYPE/SIZE): 55 gal

ANTICIPATED VOLUME: GALS: CUBIC YARDS: 3 DRUMS OTHER:

PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR

G HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER

OTHER HAZARDOUS CHARACTERISTICS: ☐ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☒ OTHER: IGNITABLE

USEPA HAZARDOUS WASTE? ☐ YES ☐ NO

USEPA HAZARDOUS CODE(S): D003 D001

STATE HAZARDOUS WASTE? ☒ YES ☐ NO

STATE CODE(S):

H SPECIAL HANDLING INFORMATION WITH RELEVANT INFORMATION TO: HCI ASSOCIATES, INC., 11499 CHESTER RD. CINCINNATI, OH 45246. ATTN: PAUL REFALVER 513/782-8841 ☒ ADDITIONAL PAGES ATTACHED

[illegible] HAZARDS HAVE BEEN [illegible] AUTHORIZED SIGNATURE

Bruce Carlson CSC 2-7-86

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

[illegible]

A. GENERAL INFORMATION

GENERATOR NAME: [illegible]

TRANSPORTER: [illegible]

FACILITY ADDRESS: [illegible]

TRANSPORTER PHONE: [illegible]

GENERATOR USEPA ID: [illegible]

GENERATOR STATE ID: [illegible]

TECHNICAL CONTACT: [illegible] TITLE: [illegible] PHONE: [illegible]

NAME OF WASTE: [illegible]

PROCESS GENERATING WASTE: WASTE [illegible]

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: [illegible]

ODOR: ☐ NONE ☐ MILD ☐ STRONG DESCRIBE: [illegible]

PHYSICAL STATE: ☒ SOLID ☐ SEMI SOLID ☐ LIQUID ☐ POWDER

LAYERS: ☐ MULTI LAYERED ☐ BILAYERED ☒ SINGLE PHASED

FREE LIQUID: ☐ YES ☒ NO VOLUME: [illegible]

pH: ☐ < 2 ☒ 2.1-10 ☐ N/A ☐ 2-4 ☐ [illegible] ☐ 4.1-6.9 ☐ > 12.5 ☐ [illegible] ☒ EXACT 7.2

SPECIFIC GRAVITY: ☐ < 8 ☐ 10-14 ☐ 8-10 ☐ [illegible] ☐ 11-12 ☐ > [illegible] ☐ EXACT 1.4

FLASH POINT: ☐ < 70°F ☒ 200°F ☒ CLOSED CUP ☐ 70°F-100°F ☐ NO FLASH ☐ OPEN CUP ☐ 101°F-139°F ☐ EXACT ☐ 140°F-200°F

C. CHEMICAL COMPOSITION (TOTAL MG/L ACCORDING TO [illegible])

[illegible]

D. METALS — ☐ TOTAL PPM ☒ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	[illegible]	SELENIUM (Se)	[illegible]
BARIUM (Ba)	[illegible]	SILVER (Ag)	[illegible]
CADMIUM (Cd)	1.1 mg/L	COPPER (Cu)	[illegible] mg/L
CHROMIUM (Cr)	< 0.5 mg/L	NICKEL (Ni)	< 0.5 mg/L
MERCURY (Hg)	< 0.02 mg/L	ZINC (Zn)	[illegible] mg/L
LEAD (Pb)	[illegible] mg/L	THALLIUM (Tl)	[illegible]
CHROMIUM (Cr) [illegible]	[illegible]		

E. OTHER COMPONENTS (TOTAL PPM)

CYANIDES	TOTAL < 5 PPM / REACTIVE < 5 PPM	PCB'S	[illegible] PPM
SULFIDES	TOTAL < 5 PPM / REACTIVE [illegible]	PHENOLICS	< 5 PPM

F. SHIPPING INFORMATION

NOT HAZARDOUS MATERIAL? ☒ YES ☐ NO

PROPER SHIPPING NAME: NON-HAZ WATER BIRNEYLS

HAZARD CLASS: CRM-LC ID NO: UN2315 RQ: [illegible]

METHOD OF SHIPMENT: ☐ BULK LIQUID ☐ BULK SOLID ☒ DRUM (TYPE/SIZE) 55 GAL

ANTICIPATED VOLUME: [illegible] GALS [illegible] CUBIC YARDS 1 DRUM OTHER [illegible]

PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐ [illegible]

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER [illegible]

OTHER HAZARDOUS CHARACTERISTICS: ☐ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☒ OTHER [illegible]

USEPA HAZARDOUS WASTE? ☐ YES ☒ NO

USEPA HAZARDOUS CODE(S): [illegible]

STATE HAZARDOUS WASTE? ☐ YES ☒ NO

STATE CODE(S): [illegible]

H. SPECIAL HANDLING INFORMATION [illegible]

MEI ASSOCIATES INC, 11499 CHESTER RD, CINCINNATI, OH 45246

[illegible] 513/782-2941 ☒ [illegible]

[illegible] HAZARDOUS [illegible]

[illegible]

[illegible] 2-7-96

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

[illegible]

A. GENERAL INFORMATION

GENERATOR NAME: U.S. EPA
TRANSPORTER: [illegible]
FACILITY ADDRESS: S. Scrap
2300 S. Cottage Grove
Chicago, IL
TRANSPORTER PHONE:
GENERATOR USEPA ID: [illegible]
GENERATOR STATE ID:
TECHNICAL CONTACT: [illegible]
TITLE: [illegible] Science Coordinator
PHONE: [illegible]
NAME OF WASTE: Soil
PROCESS GENERATING WASTE: Waste Site Cleanup

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: Brown
ODOR: ☐ NONE ☐ MILD ☐ STRONG
DESCRIBE:
PHYSICAL STATE: ☒ SOLID ☐ SEMI-SOLID ☐ LIQUID ☐ POWDER
LAYERS: ☐ MULTI-LAYERED ☐ BI-LAYERED ☒ SINGLE PHASED
FREE LIQUID: ☐ YES ☒ NO
VOLUME:

pH: ☐ <2 ☒ 7-10 ☐ N/A ☐ 2-4 ☐ 10-12.5 ☐ 4-6.9 ☐ >12.5 ☐ EXACT 4.2

SPECIFIC GRAVITY: ☐ <1.5 ☐ 1.3-1.4 ☐ 1.5-1.7 ☐ 1.1-1.2 ☐ >1.7 ☐ EXACT N/A

FLASH POINT: ☐ <70°F ☒ >200°F ☒ CLOSED CUP ☐ 70°F-100°F ☐ NO FLASH ☐ OPEN CUP ☐ 101°F-139°F ☐ EXACT ☐ 140°F-200°F

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO [illegible])

[illegible]	[illegible]
[illegible]	[illegible]

D. METALS ☐ TOTAL (PPM) ☒ EPA EXTRACTION PROCEDURE (mg/L)

ARGON (Ar)	<0.5 mg/L	SELENIUM (Se)	<0.5 mg/L
BARIUM (Ba)	<0.5 mg/L	SILVER (Ag)	<0.5 mg/L
CADMIUM (Cd)	<0.5 mg/L	COPPER (Cu)	<0.5 mg/L
CHROMIUM (Cr)	<0.5 mg/L	NICKEL (Ni)	<0.5 mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	4.3 mg/L
LEAD (Pb)	<0.5 mg/L	THALLIUM (Tl)	N/A
CHROMIUM HEX (Cr)	N/A		

E. OTHER COMPONENTS (TOTAL PPM)

CYANIDES: NIAL <5 mg/kg; REACTIVE <5 mg/kg
SULFIDES: TOTAL 140 mg/kg; REACTIVE [illegible]
PCB'S: N/A
PHENOLICS: 9.0 mg/kg

F. [illegible]G INFORMATION

U.S.C. HAZARDOUS MATERIAL: ☒ YES ☐ NO
PROPER SHIPPING NAME: Hazardous Waste Solid [illegible]
HAZARD CLASS: [illegible] I.D. NO: NA 9189 R.Q.:
METHOD OF SHIPMENT: ☐ BULK LIQUID ☒ BULK SOLID ☐ DRUM (TYPE/SIZE):
ANTICIPATED VOLUME: GALS: 80 CUBIC YARDS: OTHER:
PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: ☐ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☒ OTHER: Acid Reactive H2S Produce
OTHER HAZARDOUS CHARACTERISTICS: ☒ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☐ OTHER:
USEPA HAZARDOUS WASTE? ☒ YES ☐ NO
USEPA HAZARDOUS CODE(S): [illegible]
STATE HAZARDOUS WASTE? ☒ YES ☐ NO
STATE CODE(S):

H. SPECIAL HANDLING INFORMATION Contact regarding information following
PEI Associates Inc., 11499 Chester Rd., Cincinnati, OH 45246
Attn: [illegible] Reagler [illegible] ☒ [illegible]

[illegible]

[illegible] OSC 2-7-96

WESTON • SPER
Suite 1501, Northbrook Office Court
666 West Dundee Road, Northbrook, IL 60062 • (312) 498-9094

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-01-6669

CWM - SCA Chemical Services, Inc.
Profile Evaluation
1550 Balmer Road
Model City, New York 14107

January 30, 1986

TAT-05-F-00819

Gentlemen:

Please find enclosed completed waste profile sheets for waste submitted for disposal consideration at SCA - Model City. As discussed with Mr. Tim Welch, representative waste samples have not been sent to CWM because the enclosed chemical waste analyses were performed by a CWM-approved laboratory.

If you have any questions, please contact me at 312/498-9090.

Very truly yours,

ROY F. WESTON, INC.

Tom Gainer

Tom Gainer
Environmental Engineer

Scott D. Springer

Scott D. Springer
Technical Assistance Team
Leader, Region V

TG:ap

Enclosure

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

WASTE PROFILE SHEET CODE: COL F61873

TSDR

A. GENERAL INFORMATION

GENERATOR NAME: U.S. EPA

TRANSPORTER: To Be Determined

FACILITY ADDRESS: U.S. SCRAP, 12300 S. COTTAGE GROVE, CHICAGO, IL

TRANSPORTER PHONE:

GENERATOR USEPA I.D.: ILD980679784

GENERATOR STATE I.D.:

TECHNICAL CONTACT: BRIAND WU

TITLE: ON-SCENE COORDINATOR

PHONE: 312/886-6246

NAME OF WASTE: BASE/NEUTRAL DRUMS

PROCESS GENERATING WASTE: WASTE SITE CLEANUP

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: BROWN

ODOR: ☐ NONE ☐ MILD ☐ STRONG

DESCRIBE: NA

PHYSICAL STATE @ 70°F: ☒ SOLID ☐ SEMI-SOLID ☐ LIQUID ☐ POWDER

LAYERS: ☐ MULTILAYERED ☐ BI-LAYERED ☒ SINGLE PHASED

FREE LIQUIDS: ☐ YES ☒ NO

VOLUME: %

pH: ☐ < 2 ☐ 2-4 ☒ 4.1-6.9 ☐ 7 ☐ 7.1-10 ☐ 10.1-12.5 ☐ > 12.5 ☒ EXACT 5.2 ☐ N/A

SPECIFIC GRAVITY: ☐ < .8 ☐ .8-1.0 ☐ 1.1-1.2 ☐ EXACT NA ☐ 1.3-1.4 ☐ 1.5-1.7 ☐ > 1.7

FLASH POINT: ☐ < 70°F ☐ 70°F-100°F ☒ 101°F-139°F ☐ 140°F-200°F ☐ > 200°F ☐ NO FLASH ☒ EXACT 60°F ☒ CLOSED CUP ☐ OPEN CUP

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

INORGANIC SALTS	6 %
PLASTICS	67 %
VOLATILE ORGANICS	13 %
WATER	14 %

D. METALS ☐ TOTAL (PPM) ☒ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	<0.5 mg/L	SELENIUM (Se)	<0.1 mg/L
BARIUM (Ba)	<10 mg/L	SILVER (Ag)	<0.5 mg/L
CADMIUM (Cd)	<0.1 mg/L	COPPER (Cu)	<0.5 mg/L
CHROMIUM (Cr)	0.7 mg/L	NICKEL (Ni)	<0.5 mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	1.5 mg/L
LEAD (Pb)	<0.5 mg/L	THALLIUM (Tl)	N/A
CHROMIUM-HEX (Cr + 6)	N/A		

E. OTHER COMPONENTS - TOTAL (PPM)

CYANIDES	TOTAL <5 ppm, REACTIVE <5 ppm	PCB'S	NA
SULFIDES	TOTAL <5 ppm, REACTIVE <5 ppm	PHENOLICS	75 ppm

F. SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO

PROPER SHIPPING NAME: HAZARDOUS WASTE SOLID, n.o.s.

HAZARD CLASS: CRM-E I.D. NO. NA9189 R.Q.

METHOD OF SHIPMENT: ☐ BULK LIQUID ☒ BULK SOLID or ☒ DRUM (TYPE/SIZE) 55 gal + 35 gal

ANTICIPATED VOLUME: GALS. 20.6 CUBIC YARDS or OTHER 57 - 55 gal / 17 - 35 gal

PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER

OTHER HAZARDOUS CHARACTERISTICS: ☐ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☒ OTHER IGNITABLE

USEPA HAZARDOUS WASTE? ☒ YES ☐ NO

USEPA HAZARDOUS CODE(S): D001

STATE HAZARDOUS WASTE? ☐ YES ☐ NO

STATE CODE(S):

H. SPECIAL HANDLING INFORMATION CONTACT REGARDING INFORMATION DRILLING PEI ASSOCIATES, INC.; 11499 CHESTER RD., CINCINNATI, OH 45246 ATTN: PAUL REFAUVER 513/782-4841

☒ ADDITIONAL PAGE(S) ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE, AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED

AUTHORIZED SIGNATURE	TITLE	DATE
Briand C. Wu	OSC	2-7-26

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

WASTE PROFILE SHEET CODE: COL
SDR: F61865

A GENERAL INFORMATION

GENERATOR NAME: U.S. EPA
FACILITY ADDRESS: U.S. SCRAP
4600 S. COTTAGE GROVE
CHICAGO IL
TRANSPORTER: TO BE DETERMINED
TRANSPORTER PHONE:
GENERATOR USEPA I.D.: ILD985677434
GENERATOR STATE I.D.:
TECHNICAL CONTACT: BRIAN WU
TITLE: ON SCENE COORDINATOR
PHONE: 353/886-6246
NAME OF WASTE: CRUSHED DRUMS
PROCESS GENERATING WASTE: WASTE SITE CLEANUP

B PHYSICAL CHARACTERISTICS OF WASTE

COLOR: NA
ODOR: ☐ NONE ☐ MILD ☐ STRONG
DESCRIBE: NA
PHYSICAL STATE @ 70°F: ☒ SOLID ☐ SEMI-SOLID ☐ LIQUID ☐ POWDER
LAYERS: ☐ MULTI-LAYERED ☐ BI-LAYERED ☒ SINGLE PHASED
FREE LIQUIDS: ☐ YES ☒ NO
VOLUME:

pH: ☐ < 2 ☐ 2-4 ☐ 4.1-6.9 ☐ 7 ☐ 7.1-10 ☐ 10.1-12.5 ☐ > 12.5 ☐ EXACT ☒ N/A
SPECIFIC GRAVITY: ☐ < 8 ☐ 8-1.0 ☐ 1.1-1.2 ☐ EXACT NA ☐ 1.3-1.4 ☐ 1.5-1.7 ☐ > 1.7
FLASH POINT: ☐ < 70°F ☐ 70°F-100°F ☐ 101°F-139°F ☐ 140°F-200°F ☐ > 200°F ☐ NO FLASH ☐ EXACT NA ☐ CLOSED CUP ☐ OPEN CUP

C CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

CRUSHED DRUMS + DEBRIS 100%

D METALS ☐ TOTAL (PPM) ☐ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	NA	SELENIUM (Se)	NA
BARIUM (Ba)	NA	SILVER (Ag)	NA
CADMIUM (Cd)	NA	COPPER (Cu)	NA
CHROMIUM (Cr)	NA	NICKEL (Ni)	NA
MERCURY (Hg)	NA	ZINC (Zn)	NA
LEAD (Pb)	NA	THALLIUM (Tl)	NA
CHROMIUM-HEX (Cr + 6)	NA		

E OTHER COMPONENTS (TOTAL (PPM))

CYANIDES	NA	PCB'S	NA
SULFIDES	NA	PHENOLICS	NA

F SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO
PROPER SHIPPING NAME: HAZARDOUS WASTE SOLID N.O.S.
HAZARD CLASS: ORM-E ID NO: NA 9189 R.Q.:
METHOD OF SHIPMENT: ☐ BULK LIQUID ☒ BULK SOLID ☐ DRUM (TYPE/SIZE)
ANTICIPATED VOLUME: GALS: 20 CUBIC YARDS: OTHER:
PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐

G HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER
OTHER HAZARDOUS CHARACTERISTICS: ☒ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☐ OTHER
USEPA HAZARDOUS WASTE? ☐ YES ☒ NO
USEPA HAZARDOUS CODE(S):
STATE HAZARDOUS WASTE? ☐ YES ☒ NO
STATE CODE(S):

H SPECIAL HANDLING INFORMATION CONTACT SCHEDULING INFORMATION & BILLING
PEI ASSOCIATES, INC.; 11499 CHESTER RD; CINCINNATI, OH 45246
ATTN: PAUL KEFALVER 513/782-4941
☐ ADDITIONAL PAGE(S) ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED

AUTHORIZED SIGNATURE	TITLE	DATE
[signature]	OSC	2-7-86

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

WASTE PROFILE SHEET CODE: COL F61872

TSDR

A GENERAL INFORMATION

GENERATOR NAME: U.S. EPA
FACILITY ADDRESS: U.S. SCRAP
12300 S. COTTAGE GROVE
CHICAGO, IL
TECHNICAL CONTACT: BRIAND WU
TITLE: ON-SCENE COORDINATOR
PHONE: 312 1886 [illegible]
NAME OF WASTE: FLAMMABLE SOLID
PROCESS GENERATING WASTE: WASTE SITE CLEANUP

TRANSPORTER: TO BE DETERMINED
TRANSPORTER PHONE:
GENERATOR USEPA I.D.: ILD9[illegible]
GENERATOR STATE I.D.:

B PHYSICAL CHARACTERISTICS OF WASTE

COLOR: BLACK
ODOR: ☐ NONE ☐ MILD ☐ STRONG
DESCRIBE: N/A
PHYSICAL STATE @ 70°F: ☐ SOLID ☒ SEMI-SOLID ☐ LIQUID ☐ POWDER
LAYERS: ☐ MULTI-LAYERED ☐ BI-LAYERED ☒ SINGLE PHASED
FREE LIQUIDS: ☐ YES ☒ NO
VOLUME:

pH: ☐ < 2 ☒ 7.1-10 ☐ N/A ☐ 2-4 ☐ 10.1-12.5 ☐ 4.1-6.9 ☐ > 12.5 ☐ 7 ☒ EXACT 7.2

SPECIFIC GRAVITY: ☐ < 8 ☐ 1.3-1.4 ☐ 8-1.0 ☐ 1.5-1.7 ☐ 1.1-1.2 ☐ > 1.7 ☐ EXACT N/A

FLASH POINT: ☐ < 70°F ☐ > 200°F ☒ CLOSED CUP ☒ 70°F-100°F ☐ NO FLASH ☐ OPEN CUP ☐ 101°F-139°F ☒ EXACT 55°F ☐ 140°F-200°F

C CHEMICAL COMPOSITION TOTALS MUST ADD TO 100%

INORGANIC SALTS	6 %
PLASTICS	30 %
VARNISH	35 %
WATER	9 %
VOLATILE ORGANICS	10 %

D METALS TOTAL (PPM) / EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	<0.5 mg/L	SELENIUM (Se)	<0.1 mg/L
BARIUM (Ba)	<10 mg/L	SILVER (Ag)	<0.5 mg/L
CADMIUM (Cd)	0.1 mg/L	COPPER (Cu)	0.6 mg/L
CHROMIUM (Cr)	<0.5 mg/L	NICKEL (Ni)	0.5 mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	8.3 mg/L
LEAD (Pb)	0.5 mg/L	THALLIUM (Tl)	N/A
CHROMIUM-HEX (Cr+6)	N/A		

E OTHER COMPONENTS TOTAL (PPM)

CYANIDES	TOTAL <5 ppm / REACTIVE <5 ppm	PCB'S	N/A
SULFIDES	TOTAL <5 ppm / REACTIVE <5 ppm	PHENOLICS	76 ppm

F SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO
PROPER SHIPPING NAME: FLAMMABLE SOLID n.o.s
HAZARD CLASS: FLAMMABLE SOLID I.D. NO. UN 1325 R.Q.
METHOD OF SHIPMENT: ☐ BULK LIQUID ☐ BULK SOLID ☒ DRUM (TYPE/SIZE) 55 GAL
ANTICIPATED VOLUME: GALS. CUBIC YARDS 1 DRUM OTHER
PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐

G HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER
OTHER HAZARDOUS CHARACTERISTICS: ☐ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☒ OTHER IGNITABLE
USEPA HAZARDOUS WASTE? ☒ YES ☐ NO
USEPA HAZARDOUS CODE(S): D001
STATE HAZARDOUS WASTE? ☒ YES ☐ NO
STATE CODE(S):

H SPECIAL HANDLING INFORMATION CONTACT REGARDING INFORMATION & BILLING
PEI ASSOCIATES 11499 CHESTER RD. CINCINNATI, OH 45246
ATTN: PAUL REFAUVER 513/782-4341
☒ ADDITIONAL PAGE(S) ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED.

AUTHORIZED SIGNATURE: [signature] TITLE: OSC DATE: 2-7-86

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

DATE PROFILE SHEET ISSUED: LCL SOR F6137-1

A GENERAL INFORMATION

GENERATOR NAME: U.S. EPA
FACILITY ADDRESS: U.S. SCRAP 1220 S. WOLF ROAD CHICAGO IL
TRANSPORTER: TO BE DETERMINED
TRANSPORTER PHONE:
GENERATOR USEPA ID: ILD 980 614 551
GENERATOR STATE ID:
TECHNICAL CONTACT: BRIAN WU
TITLE: REMEDIAL PROJECT MANAGER
PHONE: 312 886-6241
NAME OF WASTE: CONCRETE 3 of 3
PROCESS GENERATING WASTE: WASTE SITE CLEANUP

B PHYSICAL CHARACTERISTICS OF WASTE

COLOR: BEIGE, GREY, BLACK
ODOR: ☐ NONE ☐ MILD ☐ STRONG
DESCRIBE: NA
PHYSICAL STATE @ 70°F: ☒ SOLID ☐ SEMI-SOLID ☐ LIQUID ☐ POWDER
LAYERS: ☐ MULTI-LAYERED ☐ 2 LAYERED ☒ SINGLE PHASED
FREE LIQUIDS: ☐ YES ☒ NO
VOLUME:

pH: ☐ < 2 ☐ 7.1-10 ☐ N/A ☐ 2-4 ☐ 10.1-12.5 ☒ 4.1-6.9 ☐ > 12.5 ☐ EXACT 6.4
SPECIFIC GRAVITY: ☐ < .8 ☐ 1.3-1.4 ☐ .8-1.0 ☐ 1.5-1.7 ☐ 1.1-1.2 ☐ > 1.7 ☐ EXACT NA
FLASH POINT: ☐ < 70°F ☐ > 200°F ☒ CLOSED CUP ☐ 70°F-100°F ☐ NO FLASH ☐ OPEN CUP ☐ 101°F-139°F ☒ EXACT <80°F ☐ 140°F-200°F

C CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

CONCRETE CHUNKS	97 %
PLASTICS	2 %
VOLATILE ORGANICS	1 %
WATER	1 %

D METALS ☐ TOTAL (PPM) ☒ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	<0.5 mg/L	SELENIUM (Se)	<0.5 mg/L
BARIUM (Ba)	<0.5 mg/L	SILVER (Ag)	<0.5 mg/L
CADMIUM (Cd)	0.3 mg/L	COPPER (Cu)	<0.5 mg/L
CHROMIUM (Cr)	0.5 mg/L	NICKEL (Ni)	<0.5 mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	14 mg/L
LEAD (Pb)	200 mg/L	THALLIUM (Tl)	NA
CHROMIUM HEX (Cr+6)	NA		

E OTHER COMPONENTS (TOTAL (PPM))

CYANIDES: ICE <5.0 PPM; TOTAL <5 PPM
SULFIDES: REACTIVE <5.0 PPM; TOTAL <5 PPM
PCBS: NA
PHENOLICS: 11

F SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO
PROPER SHIPPING NAME: FLAMMABLE SOLID, n.o.s.
HAZARD CLASS: FLAMMABLE SOLID, ID NO: UN1325, R.Q.:
METHOD OF SHIPMENT: ☐ BULK LIQUID ☐ BULK SOLID ☒ DRUM (TYPE/SIZE): 55 gal
ANTICIPATED VOLUME: GALS. CUBIC YARDS: 3 DRUMS OTHER:
PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR

G HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER
OTHER HAZARDOUS CHARACTERISTICS: ☐ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☒ OTHER: IGNITABLE
USEPA HAZARDOUS WASTE? ☐ YES ☐ NO
USEPA HAZARDOUS CODE(S): D003, D001
STATE HAZARDOUS WASTE? ☒ YES ☐ NO
STATE CODE(S):

H SPECIAL HANDLING INFORMATION ORIGINAL REPORTING INFORMATION: HCI ASSOCIATES, INC., 11499 CHESTER RD. CINCINNATI, OH 45241, ATTN: PAUL REFALLER 513/782-4841 ☒ ADDITIONAL PAGES ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED ON THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED.

AUTHORIZED SIGNATURE	TITLE	DATE
Brian C. Wu	OSC	2-7-96

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

[illegible] F[illegible]

TSDR

A. GENERAL INFORMATION

GENERATOR NAME: [illegible] EPA
TRANSPORTER: [illegible]
FACILITY ADDRESS: S SCRAP
[illegible] S COTTAGE GROVE
[illegible] IL
TRANSPORTER PHONE:
GENERATOR USEPA ID: [illegible]
GENERATOR STATE ID:
TECHNICAL CONTACT: ORLAND [illegible]
TITLE: ON-SCENE COORDINATOR
PHONE: 312/[illegible]
NAME OF WASTE:
PROCESS GENERATING WASTE: WASTE SITE CLEANUP

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: [illegible]
ODOR: ☐ NONE ☐ MILD ☐ STRONG
DESCRIBE: [illegible]
PHYSICAL STATE (70°F): ☒ SOLID ☐ SEMI SOLID ☐ LIQUID ☐ POWDER
LAYERS: ☐ MULTILAYERED ☐ BI LAYERED ☒ SINGLE PHASED
FREE LIQUIDS: ☐ YES ☒ NO
VOLUME:

pH: ☐ < 2 ☒ 7.1-10 ☐ N/A ☐ 2-4 ☐ 10.1-12.5 ☐ 4.1-6.9 ☐ > 12.5 ☐ [illegible] ☒ EXACT 7.2

SPECIFIC GRAVITY: ☐ < 8 ☐ 1.3-1.4 ☐ 8-1.0 ☐ 1.5-1.7 ☐ 1.1-1.2 ☐ > 1.7 ☐ EXACT N/A

FLASH POINT: ☐ < 70°F ☒ > 200°F ☒ CLOSED CUP ☐ 70°F-100°F ☐ NO FLASH ☐ OPEN CUP ☐ 101°F-139°F ☐ EXACT ☐ 140°F-200°F

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

[illegible]

D. METALS ☐ TOTAL (PPM) ☒ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	<0.5 mg/L	SELENIUM (Se)	<0.1 mg/L
BARIUM (Ba)	[illegible] mg/L	SILVER (Ag)	<0.5 mg/L
CADMIUM (Cd)	1.1 mg/L	COPPER (Cu)	110 mg/L
CHROMIUM (Cr)	<0.5 mg/L	NICKEL (Ni)	<0.5 mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	20 mg/L
LEAD (Pb)	1.1 mg/L	THALLIUM (Tl)	NA
CHROMIUM-HEX (Cr+6)	NA		

E. OTHER COMPONENTS TOTAL (PPM)

CYANIDES: TOTAL <5 PPM; REACTIVE <5 PPM
SULFIDES: TOTAL <5 PPM; REACTIVE <5 PPM
PCB'S: [illegible] PPM
PHENOLICS: <5 PPM

F. SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO
PROPER SHIPPING NAME: POLYCHLORINATED BIPHENYLS
HAZARD CLASS: CRM-E
I.D. NO: UN2315
R.Q.:
METHOD OF SHIPMENT: ☐ BULK LIQUID ☐ BULK SOLID ☒ DRUM (TYPE/SIZE) 55 GAL
ANTICIPATED VOLUME: GALS: CUBIC YARDS: 1 DRUM OTHER:
PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR ☐

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER
OTHER HAZARDOUS CHARACTERISTICS: ☐ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☒ OTHER PCB
USEPA HAZARDOUS WASTE? ☐ YES ☒ NO
USEPA HAZARDOUS CODE(S):
STATE HAZARDOUS WASTE? ☐ YES ☒ NO
STATE CODE(S):

H. SPECIAL HANDLING INFORMATION CONTACT REGARDING INFORMATION & BILLING
PEI ASSOCIATES INC., 11499 CHESTER RD., CINCINNATI, OH 45246
ATTN: PAUL REFAUVER 513/782-4941
☒ ADDITIONAL PAGE(S) ATTACHED

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AUTHORIZED SIGNATURE: [signature] TITLE: OSC DATE: 2-7-86

Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

WASTE PROFILE SHEET CODE: 7001 FOR: FC1382

A GENERAL INFORMATION

GENERATOR NAME: U.S. EPA
FACILITY ADDRESS: S. SARDO
2300 S. MATTHEW DRIVE
HAMMOND, IL
TRANSPORTER: TBD DETERMINED
TRANSPORTER PHONE:
GENERATOR USEPA ID: ILD1980[illegible]
GENERATOR STATE ID:
TECHNICAL CONTACT: CHARLIE WIN TITLE: SITE COORDINATOR PHONE: 312/886-[illegible]
NAME OF WASTE: SOIL
PROCESS GENERATING WASTE: WASTE SITE CLEANUP

B PHYSICAL CHARACTERISTICS OF WASTE

COLOR: BROWN
ODOR: ☐ NONE ☐ MILD ☐ STRONG DESCRIBE:
CHEMICAL STATE: ☒ SOLID ☐ SEMI-SOLID ☐ LIQUID ☐ POWDER
LAYERS: ☐ MULTI LAYERED ☐ 2 LAYERED ☒ SINGLE PHASED
FREE LIQUIDS: ☐ YES ☒ NO VOLUME:

pH: ☐ < 2 ☒ 7-10 ☐ N/A ☐ 2-4 ☐ 10-12.5 ☐ 4-6.9 ☐ > 12.5 ☐ EXACT 4.2
SPECIFIC GRAVITY: ☐ < 8 ☐ 13-14 ☐ 8-10 ☐ 14-17 ☐ 11-12 ☐ > 17 ☐ EXACT N/A
FLASH POINT: ☐ < 70°F ☒ > 200°F ☒ CLOSED CUP ☐ 70°F-100°F ☐ NO FLASH ☐ OPEN CUP ☐ 101°F-139°F ☐ EXACT ☐ 140°F-200°F

C CHEMICAL COMPOSITION

D METALS ☐ TOTAL (PPM) ☒ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	<0.5 mg/L	SELENIUM (Se)	<0.5 mg/L
BARIUM (Ba)	<0.5 mg/L	SILVER (Ag)	<0.5 mg/L
CADMIUM (Cd)	<0.1 mg/L	COPPER (Cu)	<0.5 mg/L
CHROMIUM (Cr)	<0.5 mg/L	NICKEL (Ni)	<0.5 mg/L
MERCURY (Hg)	<0.02 mg/L	ZINC (Zn)	4.3 mg/L
LEAD (Pb)	<0.5 mg/L	THALLIUM (Tl)	N/A
CHROMIUM HEXAVALENT	N/A		

E OTHER COMPONENTS TOTAL (PPM)

CYANIDES: TOTAL <5 mg/kg; REACTIVE <5 mg/L
SULFIDES: TOTAL 140 mg/kg; REACTIVE 96 mg/L
PCB'S: N/A
PHENOLICS: 7.0 mg/L

F SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO
PROPER SHIPPING NAME: HAZARDOUS WASTE SOLID, N.O.S.
HAZARD CLASS: DOT-E ID NO: NA9189 PG:
METHOD OF SHIPMENT: ☐ BULK LIQUID ☒ BULK SOLID ☐ DRUM (TYPE/SIZE)
ANTICIPATED VOLUME: GALS. 80 CUBIC YARDS ☐ OTHER
PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR

G HAZARDOUS CHARACTERISTICS

REACTIVITY: ☐ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☒ OTHER: FLUID REACTIVE H2S PRODUCER
OTHER HAZARDOUS CHARACTERISTICS: ☒ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☐ OTHER
USEPA HAZARDOUS WASTE? ☒ YES ☐ NO
USEPA HAZARDOUS CODE(S): D003
STATE HAZARDOUS WASTE? ☒ YES ☐ NO
STATE CODE(S):

H SPECIAL HANDLING INFORMATION CONTACT REGULATORY INFORMATION FOR LISTING
MET ASSOCIATES INC. 11479 LESTER RD., CINCINNATI, OH 45246
ATTN: GAIL KEFALIER 513/782-[illegible]
☒ ADDITIONAL PAGE(S) ATTACHED

SUSPECTED HAZARDS HAVE BEEN INCLUDED

SIGNATURE: [illegible] TITLE: OSC DATE: 2-7-96

O.H. Materials Co.
P.O. Box 551
Findlay, Oh 45840
419-423-3526

CHAIN-OF—CUSTODY RECORD

№ 8332

PROJECT LOCATION	NAME OF CLIENT	PROJECT TELEPHONE NO	PROJECT NUMBER
US Scrap, Ch, IL	USEPA/PEI	312/926-8232	3019-P18

ITEM NUMBER	SAMPLE NUMBER	NUMBER & SIZE OF CONTAINERS	DESCRIPTION	TRANSFER NUMBER & CHECK 1	2	3	4	5	6	7
1	CS #1 (64285372)	One (1) 12 oz Glass Jar	Soil sample - U.S. Scrap material placed in six (6) vollights on 12/6/85							

Person Responsible for sample	Affiliation	Date	Time
John Renkes	OHM	12/6	1305

Purpose of analysis (use back of front sheet if necessary)
Basic Compatibility
Illinois Green Sheet for chemical decision

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1	1	John Renkes	[illegible]	12/6	13[illegible]
2					
3					
4					
5					
6					