Analysis Worksheet

By employee # 865 on Fri Dec 11 1987 [illegible] am using PCALC 3.13

ChemLab Number 164901 Case# 8465-CC540 EPA# MS CQE40
Matrix = Soil Level = L Compound List = [illegible] 177

Volume/Weight extracted = 30.01 g Final Extract Volume = 2.00 ml Split = 10.0 Dry Weight Factor = 1.28

Concentration = (Sample Area * Standard Conc * Dilution * Split * Final Volume * Dry Weight Factor) / (Standard Area * Volume or Weight of Sample)

File 91230 Column : MIXED Dilution Factor : 5.0 Detection Level Factor : 1.28

Gamma - BHC(Lindane)	Standard RT window - 2.52 - 2.62 Standard Area - 582499 Standard Conc(ug/ml) - 0.010	Sample RT - 2.58 Sample Area - 320094 Sample Conc(ug/Kg) - 23.44 Sample ng on col - 0.005495	Primary/Reported OADS 68.69 % Recovery	
Heptachlor	Standard RT window - 3.04 - 3.17 Standard Area - 576179 Standard Conc(ug/ml) - 0.010	Sample RT - 3.11 Sample Area - 448789 Sample Conc(ug/Kg) - 33.22 Sample ng on col - 0.007789	Primary/Reported OADS 97.36 % Recovery	
Aldrin	Standard RT window - 3.62 - 3.77 Standard Area - 595525 Standard Conc(ug/ml) - 0.010	Sample RT - 3.71 Sample Area - 731215 Sample Conc(ug/Kg) - 52.37 Sample ng on col - 0.012278	Primary/Reported OADS 153.48 % Recovery	
Dieldrin	Standard RT window - 7.56 - 7.87 Standard Area - 1120176 Standard Conc(ug/ml) - 0.020	Sample RT - 7.74 Sample Area - 712587 Sample Conc(ug/Kg) - 54.27 Sample ng on col - 0.012723	Primary/Reported OADS 63.61 % Recovery	
Endrin	Standard RT window - 8.13 - 8.51 Standard Area - 1733798 Standard Conc(ug/ml) - 0.040	Sample RT - 9.28 Sample Area - 82771 Sample Conc(ug/Kg) - 8.14 Sample ng on col - 0.001910	Primary/Reported OADS 9.55 % Recovery	
4,4' - DDT	Standard RT window - 12.39 - 12.89 Standard Area - 1779970 Standard Conc(ug/ml) - 0.060	Sample RT - 12.56 Sample Area - 1389181 Sample Conc(ug/Kg) - 200.75 Sample ng on col - 0.047066	Primary/Reported OADS 235.33 % Recovery	→ Interfered with.
Aroclor - 1260	Standard RT window - 18.52 - 19.28 Standard Area - 2162512 Standard Conc(ug/ml) - 0.300	Sample RT - 18.94 Sample Area - 1630664 Sample Conc(ug/Kg) - 964.88 Sample ng on col - 0.226218	Primary/Reported OADS	

Analyst Comments:

70

PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: _____ Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Instrument ID: 7 GC Column ID: MIXED

Dates of Analyses: 12/09/87 to 12/10/87

ORIGINAL (Red)

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	%RSD (</= 10.0%)
Aldrin	74600000	78500000	86600000	7.7
Endrin	29300000	31900000	28500000	5.9
4,4'-DDT	24300000	28300000	20100000	16.9 (1)
DBC	51200000	53300000	60100000	8.5

(1) If > 10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

		DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
	INITIAL					
01	EVAL MIX B	12/09/87	2236	3.4	0.0	
02	EVAL MIX B	12/10/87	0733	0.0	6.7	
03	EVAL MIX B	12/10/87	1249	0.0	0.0	

(2) See Form instructions.

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL (Red)

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Instrument ID: 0004 Calibration date: 11/30/87 Time: 1031

Lab File ID: HH871130A04 Init. Calib. Date(s): 11/24/87 11/24/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.684	1.776	-5.5	
2,4-Dinitrotoluene	0.342	0.401	-17.3	
Diethylphthalate	1.445	1.624	-12.4	
4-Chlorophenyl-phenylether	0.538	0.614	-14.1	
Fluorene	1.274	1.393	-9.3	
4-Nitroaniline	0.292	0.358	-22.6	
4,6-Dinitro-2-Methylphenol	0.081	0.068	16.1	
N-Nitrosodiphenylamine (1) *	0.658	0.575	12.6	*
4-Bromophenyl-phenylether	0.249	0.235	5.6	
Hexachlorobenzene	0.286	0.303	-5.9	
Pentachlorophenol *	0.071	0.055	22.5	*
Phenanthrene	1.265	1.185	6.3	
Anthracene	1.157	1.086	6.1	
Di-n-Butylphthalate	1.572	1.535	2.4	
Fluoranthene *	1.022	1.067	-4.4	*
Pyrene	2.078	1.682	19.1	
Butylbenzylphthalate	0.854	0.677	20.7	
3,3'-Dichlorobenzidine	0.316	0.305	3.5	
Benzo(a)Anthracene	1.340	1.269	5.3	
Chrysene	1.291	1.248	3.3	
bis(2-Ethylhexyl)Phthalate	1.466	1.069	27.1	
Di-n-Octyl Phthalate *	2.886	2.225	22.9	*
Benzo(b)Fluoranthene	1.146	1.119	2.4	
Benzo(k)Fluoranthene	1.502	1.404	6.5	
Benzo(a)Pyrene *	1.209	1.158	4.2	*
Indeno(1,2,3-cd)Pyrene	1.343	1.020	24.1	
Dibenz(a,h)Anthracene	1.200	0.808	32.7	J"
Benzo(g,h,i)Perylene	1.184	0.818	30.9	
Nitrobenzene-d5	0.599	0.580	3.2	
2-Fluorobiphenyl	1.443	1.563	-8.3	
Terphenyl-d14	1.068	0.970	9.2	
Phenol-d5	2.018	2.445	-21.2	
2-Fluorophenyl	1.427	1.566	-9.7	
2,4,6-Tribromophenol	0.102	0.137	-34.3	

Samples
CQ 541
CQ 543
CQ 545
CQ 547
CQ 549
CQ 550

(1) Cannot be separated from Diphenylamine

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Instrument ID: 0004 Calibration date: 12/01/87 Time: 2315

Lab File ID: HH871201B04 Init. Calib. Date(s): 11/24/87 11/24/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.684	1.655	1.7	
2,4-Dinitrotoluene	0.342	0.284	17.0	
Diethylphthalate	1.445	1.488	-3.0	
4-Chlorophenyl-phenylether	0.538	0.597	-11.0	
Fluorene	1.274	1.233	3.2	
4-Nitroaniline	0.292	0.250	14.4	
4,6-Dinitro-2-Methylphenol	0.081	0.068	16.1	
N-Nitrosodiphenylamine (1) *	0.658	0.581	11.7 *	
4-Bromophenyl-phenylether	0.249	0.232	6.8	
Hexachlorobenzene	0.286	0.287	-0.3	
Pentachlorophenol *	0.071	0.057	19.7 *	
Phenanthrene	1.265	1.238	2.1	
Anthracene	1.157	1.140	1.5	
Di-n-Butylphthalate	1.572	1.299	17.4	
Fluoranthene *	1.022	0.995	2.6 *	
Pyrene	2.078	1.773	14.7	
Butylbenzylphthalate	0.854	0.383	55.2	N.D.
3,3'-Dichlorobenzidine	0.316	0.215	32.0	
Benzo(a)Anthracene	1.340	1.187	11.4	
Chrysene	1.291	1.347	-4.3	
bis(2-Ethylhexyl)Phthalate	1.466	0.720	50.9	"J"
Di-n-Octyl Phthalate *	2.886	2.215	23.3 *	
Benzo(b)Fluoranthene	1.146	1.306	-14.0	
Benzo(k)Fluoranthene	1.502	1.306	13.1	
Benzo(a)Pyrene *	1.209	1.189	1.7 *	
Indeno(1,2,3-cd)Pyrene	1.343	0.715	46.8	"J" CQ
Dibenz(a,h)Anthracene	1.200	0.507	57.8	"J" CQ 551 and CQ56
Benzo(g,h,i)Perylene	1.184	0.553	53.3	"J" CQ 551, CQ552
Nitrobenzene-d5	0.599	0.596	0.5	CQ 560, CQ563
2-Fluorobiphenyl	1.443	1.516	-5.1	
Terphenyl-d14	1.068	0.993	7.0	
Phenol-d5	2.018	2.150	-6.5	
2-Fluorophenyl	1.427	1.773	-24.3	
2,4,6-Tribromophenol	0.102	0.109	-6.9	

Samples

CQ 548
CQ551
CQ 552
CQ 553
CQ 554
CQ 555
CQ560
CQ 563

(1) Cannot be separated from Diphenylamine

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Instrument ID: 0004 Calibration date: 12/04/87 Time: 1903

Lab File ID: HG871204B04 Init. Calib. Date(s): 11/24/87 11/24/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

CQ544MSD

COMPOUND		RRF	RRF50	%D		
Dibenzofuran		1.684	1.855	-10.2		
2,4-Dinitrotoluene		0.342	0.350	-2.3		
Diethylphthalate		1.445	1.503	-4.0		
4-Chlorophenyl-phenylether		0.538	0.672	-24.9		
Fluorene		1.274	1.360	-6.8		
4-Nitroaniline		0.292	0.313	-7.2		
4,6-Dinitro-2-Methylphenol		0.081	0.079	2.5		
N-Nitrosodiphenylamine (1)	*	0.658	0.619	5.9	*	
4-Bromophenyl-phenylether		0.249	0.226	9.2		
Hexachlorobenzene		0.286	0.256	10.5		
Pentachlorophenol	*	0.071	0.056	21.1	*	
Phenanthrene		1.265	1.190	5.9		
Anthracene		1.157	1.063	8.1		
Di-n-Butylphthalate		1.572	1.072	31.8		"J"
Fluoranthene	*	1.022	0.814	20.4	*	
Pyrene		2.078	2.045	1.6		
Butylbenzylphthalate		0.854	0.564	34.0		
3,3'-Dichlorobenzidine		0.316	0.177	44.0		ND
Benzo(a)Anthracene		1.340	1.047	~~21.9~~		
Chrysene		1.291	0.956	26.0		
bis(2-Ethylhexyl)Phthalate		1.466	0.868	40.8		
Di-n-Octyl Phthalate	*	2.886	2.174	24.7	*	
Benzo(b)Fluoranthene		1.146	1.263	-10.2		
Benzo(k)Fluoranthene		1.502	1.263	15.9		
Benzo(a)Pyrene	*	1.209	1.098	9.2	*	
Indeno(1,2,3-cd)Pyrene		1.343	0.996	25.8		
Dibenz(a,h)Anthracene		1.200	0.783	34.8		"J"
Benzo(g,h,i)Perylene		1.184	0.784	33.8		"J"
Nitrobenzene-d5		0.599	0.566	5.5		
2-Fluorobiphenyl		1.443	1.460	-1.2		
Terphenyl-d14		1.068	0.860	19.5		
Phenol-d5		2.018	2.072	-2.7		
2-Fluorophenyl		1.427	1.352	5.3		
2,4,6-Tribromophenol		0.102	0.117	-14.7		

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Instrument ID: 0004 Calibration date: 11/29/87 Time: 1135

Lab File ID: HG871129A04 Init. Calib. Date(s): 11/24/87 11/24/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Phenol	*	2.097	2.131	-1.6	*
bis(2-Chloroethyl)Ether		3.175	1.909	39.9	
2-Chlorophenol		1.503	1.589	-5.7	
1,3-Dichlorobenzene		1.526	1.672	-9.6	
1,4-Dichlorobenzene	*	1.632	1.745	-6.9	*
Benzyl Alcohol		1.020	1.012	0.8	
1,2-Dichlorobenzene		1.527	1.502	1.6	
2-Methylphenol		1.397	1.381	1.1	
bis(2-Chloroisopropyl)Ether		2.112	1.598	24.3	
4-Methylphenol		1.497	1.428	4.6	
N-Nitroso-Di-n-Propylamine	#	1.514	1.213	19.9	#
Hexachloroethane		0.798	0.829	-3.9	
Nitrobenzene		0.546	0.488	10.6	
Isophorone		1.040	0.938	9.8	
2-Nitrophenol	*	0.215	0.199	7.4	*
2,4-Dimethylphenol		0.421	0.396	5.9	
Benzoic Acid		0.148	0.077	48.0	
bis(2-Chloroethoxy)Methane		0.726	0.632	13.0	
2,4-Dichlorophenol	*	0.301	0.273	9.3	*
1,2,4-Trichlorobenzene		0.348	0.315	9.5	
Naphthalene		1.245	1.311	-5.3	
4-Chloroaniline		0.595	0.610	-2.5	
Hexachlorobutadiene	*	0.190	0.164	13.7	*
4-Chloro-3-Methylphenol	*	0.403	0.351	12.9	*
2-Methylnaphthalene		0.722	0.701	2.9	
Hexachlorocyclopentadiene	#	0.283	0.234	17.3	#
2,4,6-Trichlorophenol	*	0.373	0.351	5.9	*
2,4,5-Trichlorophenol		0.392	0.348	11.2	
2-Chloronaphthalene		1.294	1.267	2.1	
2-Nitroaniline		0.440	0.315	28.4	
Dimethyl Phthalate		1.414	1.410	0.3	
Acenaphthylene		1.817	1.932	-6.3	
2,6-Dinitrotoluene		0.254	0.274	-7.9	
3-Nitroaniline		0.303	0.307	-1.3	
Acenaphthene	*	1.278	1.274	0.3	*
2,4-Dinitrophenol	#	0.091	0.055	39.6	#
4-Nitrophenol	#	0.197	0.098	50.3	#

Samples
CQ 540
CQ 542
CQ 544 MS

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Instrument ID: 0004 Calibration date: 11/30/87 Time: 1031

Lab File ID: HH871130A04 Init. Calib. Date(s): 11/24/87 11/24/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Phenol	*	2.097	2.342	-11.7	*
bis(2-Chloroethyl)Ether		3.175	1.942	38.8	
2-Chlorophenol		1.503	1.689	-12.4	
1,3-Dichlorobenzene		1.526	1.617	-6.0	
1,4-Dichlorobenzene	*	1.632	1.791	-9.7	*
Benzyl Alcohol		1.020	1.012	0.8	
1,2-Dichlorobenzene		1.527	1.671	-9.4	
2-Methylphenol		1.397	1.416	-1.4	
bis(2-Chloroisopropyl)Ether		2.112	1.631	22.8	
4-Methylphenol		1.497	1.527	-2.0	
N-Nitroso-Di-n-Propylamine	#	1.514	1.453	4.0	#
Hexachloroethane		0.798	0.864	-8.3	
Nitrobenzene		0.546	0.571	-4.6	
Isophorone		1.040	1.051	-1.1	
2-Nitrophenol	*	0.215	0.181	15.8	*
2,4-Dimethylphenol		0.421	0.450	-6.9	
Benzoic Acid		0.148	0.045	69.6	
bis(2-Chloroethoxy)Methane		0.726	0.731	-0.7	
2,4-Dichlorophenol	*	0.301	0.293	2.7	*
1,2,4-Trichlorobenzene		0.348	0.323	7.2	
Naphthalene		1.245	1.345	-8.0	
4-Chloroaniline		0.595	0.628	-5.5	
Hexachlorobutadiene	*	0.190	0.195	-2.6	*
4-Chloro-3-Methylphenol	*	0.403	0.391	3.0	*
2-Methylnaphthalene		0.722	0.699	3.2	
Hexachlorocyclopentadiene	#	0.283	0.311	-9.9	#
2,4,6-Trichlorophenol	*	0.373	0.412	-10.5	*
2,4,5-Trichlorophenol		0.392	0.363	7.4	
2-Chloronaphthalene		1.294	1.389	-7.3	
2-Nitroaniline		0.440	0.328	25.5	
Dimethyl Phthalate		1.414	1.505	-6.4	
Acenaphthylene		1.817	1.947	-7.2	
2,6-Dinitrotoluene		0.254	0.246	3.2	
3-Nitroaniline		0.303	0.306	-1.0	
Acenaphthene	*	1.278	1.431	-12.0	*
2,4-Dinitrophenol	#	0.091	0.060	34.1	#
4-Nitrophenol	#	0.197	0.208	-5.6	#

Samples

CQ541
CQ543
CQ545
CQ547
CQ549
CQ550

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Instrument ID: 0004 Calibration date: 12/04/87 Time: 1903

Lab File ID: HG871204B04 Init. Calib. Date(s): 11/24/87 11/24/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D		
Phenol	*	2.097	2.236	-6.6	*	
bis(2-Chloroethyl)Ether		3.175	1.983	37.5		No positives
2-Chlorophenol		1.503	1.391	7.5		
1,3-Dichlorobenzene		1.526	1.557	-2.0		
1,4-Dichlorobenzene	*	1.632	1.560	4.4	*	
Benzyl Alcohol		1.020	0.978	4.1		
1,2-Dichlorobenzene		1.527	1.504	1.5		
2-Methylphenol		1.397	1.346	3.7		
bis(2-Chloroisopropyl)Ether		2.112	3.176	-50.4		No positives
4-Methylphenol		1.497	1.357	9.4		
N-Nitroso-Di-n-Propylamine	#	1.514	1.732	-14.4	#	
Hexachloroethane		0.798	0.828	-3.8		
Nitrobenzene		0.546	0.652	-19.4		
Isophorone		1.040	1.055	-1.4		
2-Nitrophenol	*	0.215	0.199	7.4	*	
2,4-Dimethylphenol		0.421	0.435	-3.3		
Benzoic Acid		0.148	0.104	29.7		
bis(2-Chloroethoxy)Methane		0.726	0.707	2.6		
2,4-Dichlorophenol	*	0.301	0.292	3.0	*	
1,2,4-Trichlorobenzene		0.348	0.359	-3.2		
Naphthalene		1.245	1.306	-4.9		
4-Chloroaniline		0.595	0.446	25.0		
Hexachlorobutadiene	*	0.190	0.200	-5.3	*	
4-Chloro-3-Methylphenol	*	0.403	0.427	-6.0	*	
2-Methylnaphthalene		0.722	0.723	-0.1		
Hexachlorocyclopentadiene	#	0.283	0.329	-16.3	#	
2,4,6-Trichlorophenol	*	0.373	0.382	-2.4	*	
2,4,5-Trichlorophenol		0.392	0.396	-1.0		
2-Chloronaphthalene		1.294	1.372	-6.0		
2-Nitroaniline		0.440	0.556	-26.4		
Dimethyl Phthalate		1.414	1.464	-3.5		
Acenaphthylene		1.817	1.900	-4.6		
2,6-Dinitrotoluene		0.254	0.245	3.5		
3-Nitroaniline		0.303	0.299	1.3		
Acenaphthene	*	1.278	1.365	-6.8	*	
2,4-Dinitrophenol	#	0.091	0.083	8.8	#	
4-Nitrophenol	#	0.197	0.181	8.1	#	

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Instrument ID: 0004 Calibration date: 12/01/87 Time: 2315

Lab File ID: HH871201B04 Init. Calib. Date(s): 11/24/87 11/24/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Phenol	*	2.097	2.503	-19.4	*
bis(2-Chloroethyl)Ether		3.175	2.576	18.9	
2-Chlorophenol		1.503	1.562	-3.9	
1,3-Dichlorobenzene		1.526	1.714	-12.3	
1,4-Dichlorobenzene	*	1.632	1.773	-8.6	*
Benzyl Alcohol		1.020	1.014	0.6	
1,2-Dichlorobenzene		1.527	1.657	-8.5	
2-Methylphenol		1.397	1.406	-0.6	
bis(2-Chloroisopropyl)Ether		2.112	5.622	-99.9	
4-Methylphenol		1.497	1.500	-0.2	
N-Nitroso-Di-n-Propylamine	#	1.514	1.706	-12.7	#
Hexachloroethane		0.798	0.813	-1.9	
Nitrobenzene		0.546	0.625	-14.5	
Isophorone		1.040	1.213	-16.6	
2-Nitrophenol	*	0.215	0.181	15.8	*
2,4-Dimethylphenol		0.421	0.438	-4.0	
Benzoic Acid		0.148	0.066	55.4	"J"
bis(2-Chloroethoxy)Methane		0.726	0.815	-12.3	
2,4-Dichlorophenol	*	0.301	0.287	4.7	*
1,2,4-Trichlorobenzene		0.348	0.366	-5.2	
Naphthalene		1.245	1.333	-7.1	
4-Chloroaniline		0.595	0.653	-9.7	
Hexachlorobutadiene	*	0.190	0.193	-1.6	*
4-Chloro-3-Methylphenol	*	0.403	0.407	-1.0	*
2-Methylnaphthalene		0.722	0.696	3.6	
Hexachlorocyclopentadiene	#	0.283	0.268	5.3	#
2,4,6-Trichlorophenol	*	0.373	0.394	-5.6	*
2,4,5-Trichlorophenol		0.392	0.379	3.3	
2-Chloronaphthalene		1.294	1.384	-7.0	
2-Nitroaniline		0.440	0.481	-9.3	
Dimethyl Phthalate		1.414	1.432	-1.3	
Acenaphthylene		1.817	1.948	-7.2	
2,6-Dinitrotoluene		0.254	0.228	10.2	
3-Nitroaniline		0.303	0.283	6.6	
Acenaphthene	*	1.278	1.312	-2.7	*
2,4-Dinitrophenol	#	0.091	0.070	23.1	#
4-Nitrophenol	#	0.197	0.120	39.1	#

Samples

CQ 548
CQ 551
CQ 552
CQ 553
CQ 554
CQ 555
CQ 560
CQ 563

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CO540

Instrument ID: 0011 Calibration Date(s): 11/16/87 11/16/87

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = GX871116B11 RRF50 = GT871116A11
RRF100= GW871116B11 RRF150= GV871116B11 RRF200= GU871116B11

COMPOUND		RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane	#	0.939	0.843	0.734	0.734	0.701	0.790	12.5#
Bromomethane		1.504	1.453	1.169	1.280	1.162	1.314	12.1
Vinyl Chloride	*	1.107	0.995	0.867	0.894	0.851	0.943	11.4*
Chloroethane		0.678	0.635	0.542	0.551	0.539	0.589	10.8
Methylene Chloride		2.100	3.538	1.178	1.174	1.188	1.836	56.2
Acetone		1.160	1.044	0.521	0.468	0.483	0.735	46.0
Carbon Disulfide		3.363	3.099	2.799	2.897	3.093	3.050	7.1
1,1-Dichloroethene	*	1.389	1.214	1.109	1.115	1.173	1.200	9.5*
1,1-Dichloroethane	#	2.210	1.837	1.741	1.783	1.879	1.890	9.9#
1,2-Dichloroethene (total)		1.387	1.192	1.072	1.102	1.173	1.185	10.4
Chloroform	*	3.487	2.732	2.418	2.455	2.597	2.738	16.0*
1,2-Dichloroethane		2.302	2.016	1.743	1.765	1.861	1.937	11.9
2-Butanone		0.059	0.056	0.048	0.049	0.046	0.052	10.8
1,1,1-Trichloroethane		0.744	0.635	0.564	0.588	0.613	0.629	11.1
Carbon Tetrachloride		0.705	0.624	0.540	0.563	0.596	0.606	10.6
Vinyl Acetate		0.542	0.483	0.445	0.477	0.476	0.485	7.3
Bromodichloromethane		0.687	0.588	0.539	0.584	0.592	0.598	9.1
1,2-Dichloropropane	*	0.387	0.323	0.295	0.315	0.324	0.329	10.5*
cis-1,3-Dichloropropene		0.719	0.601	0.567	0.608	0.629	0.625	9.2
Trichloroethene		0.624	0.535	0.446	0.468	0.481	0.511	14.0
Dibromochloromethane		0.647	0.573	0.518	0.549	0.554	0.568	8.5
1,1,2-Trichloroethane		0.459	0.395	0.331	0.343	0.336	0.373	14.6
Benzene		1.050	0.888	0.768	0.808	0.816	0.866	12.9
Trans-1,3-Dichloropropene		0.386	0.319	0.302	0.317	0.322	0.329	9.9
Bromoform	#	0.473	0.411	0.395	0.447	0.469	0.439	7.9#
4-Methyl-2-Pentanone		0.608	0.546	0.490	0.508	0.522	0.535	8.6
2-Hexanone		0.503	0.449	0.400	0.423	0.419	0.439	9.1
Tetrachloroethene		0.745	0.625	0.488	0.497	0.496	0.570	19.8
1,1,2,2-Tetrachloroethane	#	0.839	0.700	0.610	0.634	0.620	0.681	14.0#
Toluene	*	0.797	0.684	0.598	0.627	0.656	0.672	11.4*
Chlorobenzene	#	1.272	1.061	0.911	0.973	1.031	1.050	13.0#
Ethylbenzene	*	0.617	0.511	0.439	0.470	0.494	0.506	13.4*
Styrene		1.241	1.129	0.930	0.991	1.070	1.072	11.3
Total Xylenes		1.619	1.425	1.164	1.230	1.342	1.356	13.1
Toluene-d8		1.191	1.219	1.163	1.082	1.084	1.148	5.4
BFB		0.860	0.864	0.822	0.810	0.828	0.837	2.9
1,2-Dichloroethane-d4		1.775	1.794	1.773	1.752	1.825	1.784	1.5

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CO540

Instrument ID: 0010 Calibration Date(s): 11/19/87 11/19/87

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = GZ871119A10 RRF50 = GY871119A10
RRF100= GX871119C10 RRF150= GW871119C10 RRF200= GV871119C10

COMPOUND		RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD	
Chloromethane	#	1.417	1.539	1.136	1.085	1.102	1.256	16.6	#
Bromomethane		2.458	2.472	2.046	2.107	1.830	2.183	12.7	
Vinyl Chloride	*	1.808	1.854	1.498	1.488	1.500	1.630	11.3	*
Chloroethane		1.204	1.173	0.919	0.947	0.902	1.029	14.3	
Methylene Chloride		1.603	1.392	1.326	1.267	1.118	1.341	13.3	
Acetone		0.716	0.542	0.339	0.331	0.177	0.421	49.8	
Carbon Disulfide		2.087	2.773	2.070	2.225	2.449	2.321	12.7	
1,1-Dichloroethene	*	1.001	1.000	0.953	1.067	1.096	1.023	5.6	*
1,1-Dichloroethane	#	1.829	1.883	1.679	1.827	1.841	1.812	4.3	#
1,2-Dichloroethene (total)		1.050	1.062	0.946	1.033	1.056	1.029	4.7	
Chloroform	*	2.768	2.682	2.402	2.583	2.579	2.603	5.3	*
1,2-Dichloroethane		2.019	2.029	1.639	1.890	1.910	1.897	8.3	
2-Butanone		0.034	0.035	0.018	0.025	0.021	0.027	28.3	J
1,1,1-Trichloroethane		0.729	0.758	0.588	0.665	0.680	0.684	9.6	
Carbon Tetrachloride		0.795	0.814	0.641	0.735	0.769	0.751	9.1	
Vinyl Acetate		0.766	0.819	0.510	0.563	0.540	0.640	22.2	
Bromodichloromethane		0.780	0.783	0.593	0.664	0.672	0.698	11.7	
1,2-Dichloropropane	*	0.324	0.318	0.242	0.263	0.265	0.282	12.9	*
cis-1,3-Dichloropropene		0.647	0.648	0.491	0.548	0.564	0.580	11.7	
Trichloroethene		0.589	0.594	0.446	0.503	0.508	0.528	11.9	
Dibromochloromethane		0.918	0.911	0.661	0.754	0.770	0.803	13.7	
1,1,2-Trichloroethane		0.415	0.403	0.296	0.342	0.350	0.361	13.4	
Benzene		0.707	0.698	0.561	0.584	0.656	0.641	10.3	
Trans-1,3-Dichloropropene		0.381	0.388	0.305	0.361	0.384	0.364	9.5	
Bromoform	#	0.724	0.722	0.479	0.548	0.550	0.605	18.5	#
4-Methyl-2-Pentanone		0.515	0.532	0.284	0.343	0.312	0.397	29.6	
2-Hexanone		0.472	0.424	0.217	0.257	0.221	0.318	38.0	
Tetrachloroethene		0.730	0.702	0.549	0.594	0.592	0.633	12.4	
1,1,2,2-Tetrachloroethane	#	0.870	0.795	0.566	0.673	0.685	0.718	16.4	#
Toluene	*	0.591	0.578	0.464	0.514	0.519	0.533	9.7	*
Chlorobenzene	#	1.164	1.097	0.857	0.931	0.920	0.994	13.1	#
Ethylbenzene	*	0.490	0.458	0.359	0.384	0.377	0.414	13.8	*
Styrene		1.237	1.307	0.891	0.923	0.888	1.049	19.6	
Total Xylenes		1.424	1.511	1.055	1.109	1.073	1.234	17.5	
Toluene-d8		1.036	0.948	0.969	1.023	1.045	1.004	4.3	
BFB		0.780	0.776	0.699	0.729	0.745	0.746	4.5	
1,2-Dichloroethane-d4		1.612	1.707	1.716	1.876	2.037	1.790	9.4	

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7A

VOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL (Red)

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Instrument ID: 0010 Calibration date: 11/20/87 Time: 2258

Lab File ID: GS871120B10 Init. Calib. Date(s): 11/19/87 11/19/87

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Chloromethane	#	1.256	1.381	-10.0	#
Bromomethane		2.183	1.933	11.5	
Vinyl Chloride	*	1.630	1.531	6.1	*
Chloroethane		1.029	0.896	12.9	
Methylene Chloride		1.341	1.750	-30.5	
Acetone		0.421	0.321	23.8	
Carbon Disulfide		2.321	1.871	19.4	
1,1-Dichloroethene	*	1.023	1.144	-11.8	*
1,1-Dichloroethane	#	1.812	2.052	-13.3	#
1,2-Dichloroethene (total)		1.029	1.121	-8.9	
Chloroform	*	2.603	2.930	-12.6	*
1,2-Dichloroethane		1.897	1.956	-3.1	
2-Butanone ✓ "J"		0.027	0.018	33.3	
1,1,1-Trichloroethane		0.684	0.671	1.9	
Carbon Tetrachloride		0.751	0.610	18.8	
Vinyl Acetate		0.640	0.402	37.2 → N.D.	
Bromodichloromethane		0.698	0.608	12.9	
1,2-Dichloropropane	*	0.282	0.257	8.9	*
cis-1,3-Dichloropropene		0.580	0.510	12.1	
Trichloroethene		0.528	0.509	3.6	
Dibromochloromethane		0.803	0.584	27.3	
1,1,2-Trichloroethane		0.361	0.311	13.9	
Benzene		0.641	0.614	4.2	
Trans-1,3-Dichloropropene		0.364	0.288	20.9	
Bromoform	#	0.605	0.322	46.8	# — N.D.
4-Methyl-2-Pentanone		0.397	0.332	16.4	
2-Hexanone		0.318	0.286	10.1	
Tetrachloroethene		0.633	0.585	7.6	
1,1,2,2-Tetrachloroethane	#	0.718	0.525	26.9	#
Toluene	*	0.533	0.524	1.7	*
Chlorobenzene	#	0.994	0.991	0.3	#
Ethylbenzene	*	0.414	0.437	-5.6	*
Styrene		1.049	1.014	3.3	
Total Xylenes		1.234	1.229	0.4	
Toluene-d8		1.004	1.010	-0.6	
BFB		0.746	0.840	-12.6	
1,2-Dichloroethane-d4		1.790	1.850	-3.4	

FORM VII VOA 1/87 Rev.

10 P.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Instrument ID: 0011 Calibration date: 11/21/87 Time: 0741

Lab File ID: GT871121C11 Init. Calib. Date(s): 11/16/87 11/16/87

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Chloromethane	#	0.790	1.236	-56.5	#
Bromomethane		1.314	1.567	-19.3	
Vinyl Chloride	*	0.943	1.159	-22.9	*
Chloroethane		0.589	0.766	-30.1	
Methylene Chloride		1.836	1.389	24.4	
Acetone		0.735	0.621	15.5	
Carbon Disulfide		3.050	2.753	9.7	
1,1-Dichloroethene	*	1.200	1.038	13.5	*
1,1-Dichloroethane	#	1.890	2.152	-13.9	#
1,2-Dichloroethene (total)		1.185	1.131	4.6	
Chloroform	*	2.738	3.025	-10.5	*
1,2-Dichloroethane		1.937	2.428	-25.4	
2-Butanone		0.052	0.049	5.8	
1,1,1-Trichloroethane		0.629	0.638	-1.4	
Carbon Tetrachloride		0.606	0.582	4.0	
Vinyl Acetate		0.485	0.786	-62.1	
Bromodichloromethane		0.598	0.730	-22.1	
1,2-Dichloropropane	*	0.329	0.366	-11.3	*
cis-1,3-Dichloropropene		0.625	0.705	-12.8	
Trichloroethene		0.511	0.386	24.5	
Dibromochloromethane		0.568	0.610	-7.4	
1,1,2-Trichloroethane		0.373	0.378	-1.3	
Benzene		0.866	0.792	8.5	
Trans-1,3-Dichloropropene		0.329	0.362	-10.0	
Bromoform	#	0.439	0.499	-13.7	#
4-Methyl-2-Pentanone		0.535	0.606	-13.3	
2-Hexanone		0.439	0.474	-8.0	
Tetrachloroethene		0.570	0.414	27.4	
1,1,2,2-Tetrachloroethane	#	0.681	0.837	-22.9	#
Toluene	*	0.672	0.615	8.5	*
Chlorobenzene	#	1.050	0.950	9.5	#
Ethylbenzene	*	0.506	0.439	13.2	*
Styrene		1.072	1.114	-3.9	
Total Xylenes		1.356	1.376	-1.5	
Toluene-d8		1.148	1.051	8.4	
BFB		0.837	0.914	-9.2	
1,2-Dichloroethane-d4		1.784	2.287	-28.2	

Samples.
CQ 540
CQ 541
CQ 542
CQ 543
CQ 544

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SAMPLE DATA PACKAGE 374

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7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Instrument ID: 0011 Calibration date: 11/21/87 Time: 1928

Lab File ID: GS871121B11 Init. Calib. Date(s): 11/16/87 11/16/87

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Chloromethane	#	0.790	1.016	-28.6	#
Bromomethane		1.314	1.422	-8.2	
Vinyl Chloride	*	0.943	1.078	-14.3	*
Chloroethane		0.589	0.650	-10.4	
Methylene Chloride		1.836	1.225	33.3	
Acetone		0.735	0.528	28.2	
Carbon Disulfide		3.050	2.109	30.9	
1,1-Dichloroethene	*	1.200	1.066	11.2	*
1,1-Dichloroethane	#	1.890	2.062	-9.1	#
1,2-Dichloroethene (total)		1.185	1.065	10.1	
Chloroform	*	2.738	2.864	-4.6	*
1,2-Dichloroethane		1.937	2.144	-10.7	
2-Butanone		0.052	0.039	25.0	
1,1,1-Trichloroethane		0.629	0.605	3.8	
Carbon Tetrachloride		0.606	0.582	4.0	
Vinyl Acetate		0.485	0.562	-15.9	
Bromodichloromethane		0.598	0.633	-5.9	
1,2-Dichloropropane	*	0.329	0.319	3.0	*
cis-1,3-Dichloropropene		0.625	0.593	5.1	
Trichloroethene		0.511	0.378	26.0	
Dibromochloromethane		0.568	0.516	9.2	
1,1,2-Trichloroethane		0.373	0.314	15.8	
Benzene		0.866	0.730	15.7	
Trans-1,3-Dichloropropene		0.329	0.296	10.0	
Bromoform	#	0.439	0.393	10.5	#
4-Methyl-2-Pentanone		0.535	0.467	12.7	
2-Hexanone		0.439	0.368	16.2	
Tetrachloroethene		0.570	0.416	27.0	
1,1,2,2-Tetrachloroethane	#	0.681	0.673	1.2	#
Toluene	*	0.672	0.573	14.7	*
Chlorobenzene	#	1.050	0.872	17.0	#
Ethylbenzene	*	0.506	0.426	15.8	*
Styrene		1.072	0.874	18.5	
Total Xylenes		1.356	1.076	20.7	
Toluene-d8		1.148	1.148	0.0	
BFB		0.837	0.999	-19.4	
1,2-Dichloroethane-d4		1.784	2.424	-35.9	

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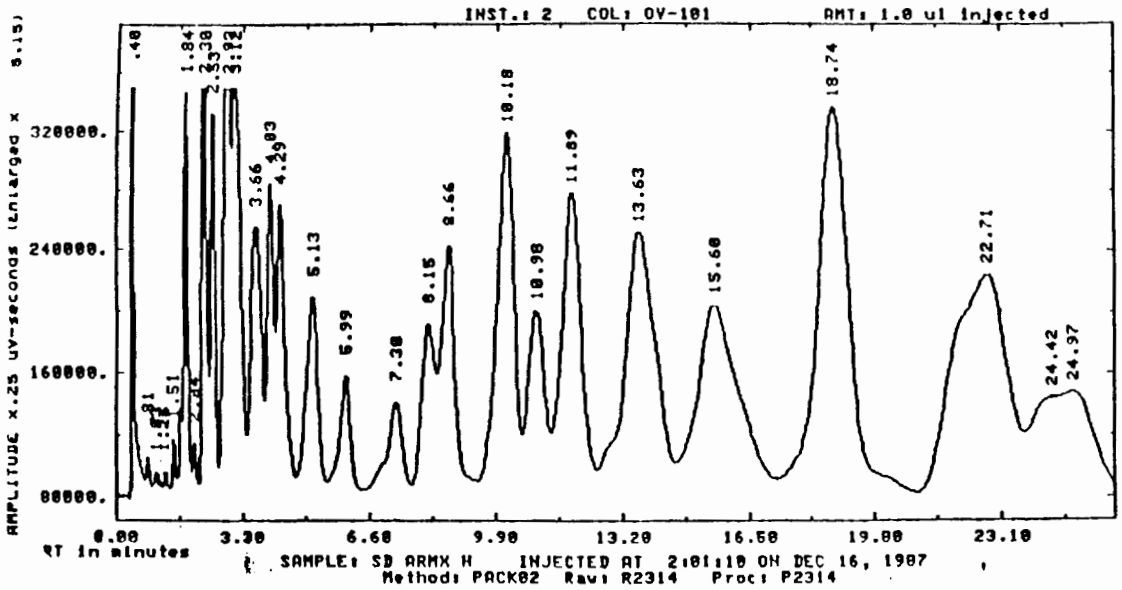
(DE)

Aroclor 1016/1260 High



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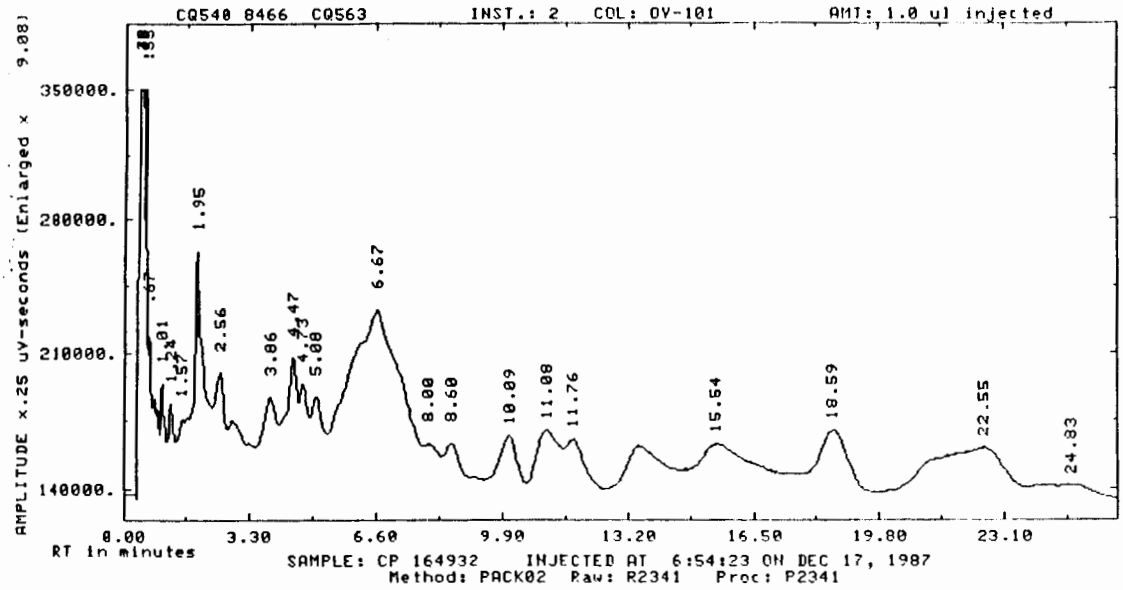

SAMPLE DATA PACKAGE

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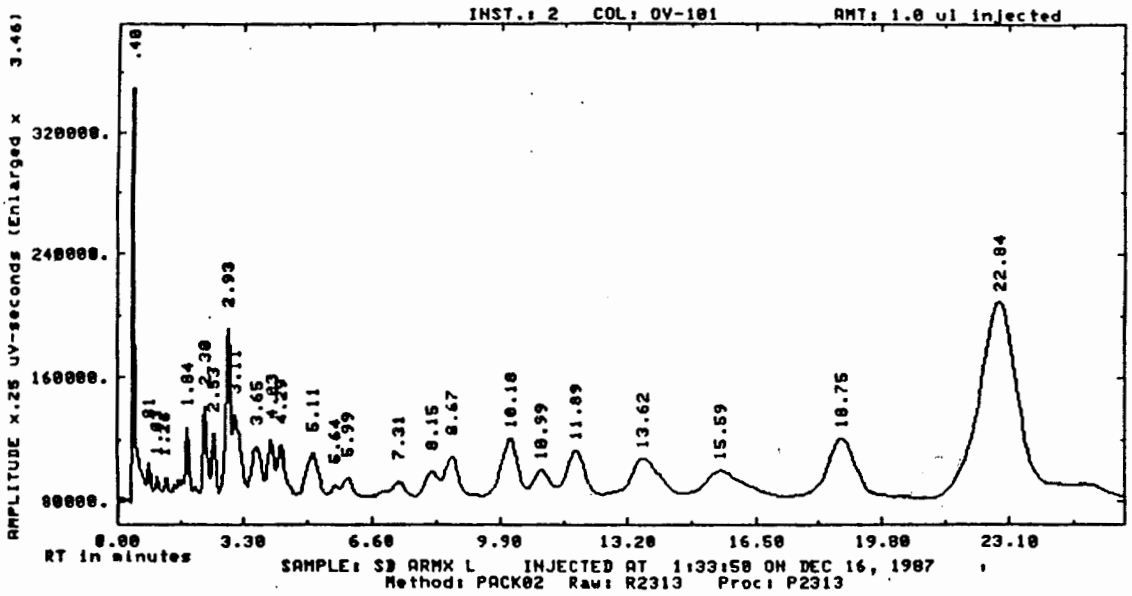
Aroclor 1016/1260 Raw



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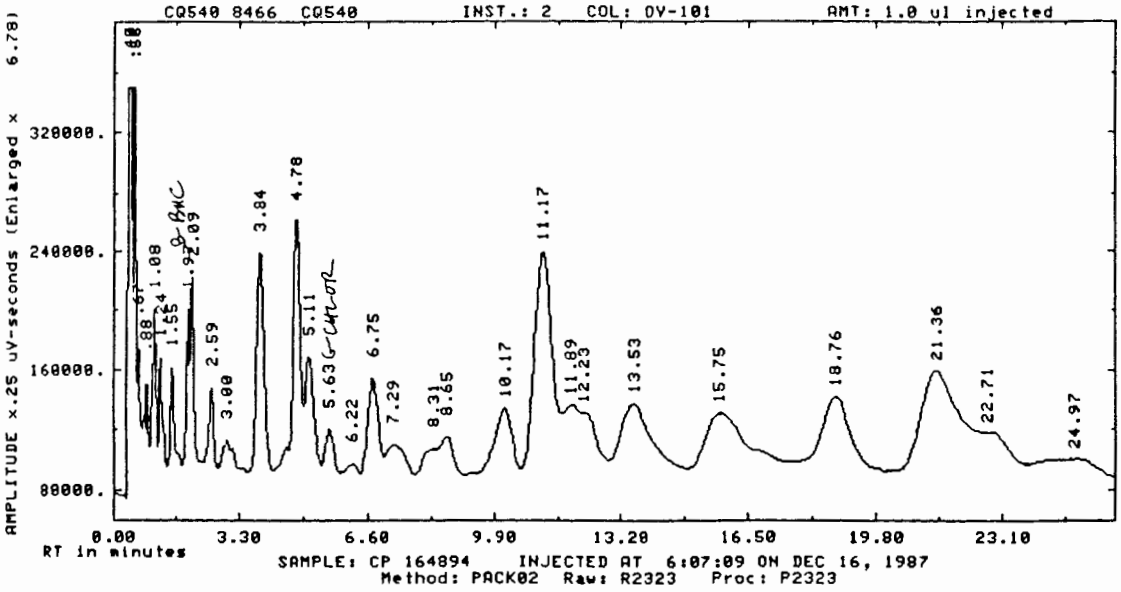

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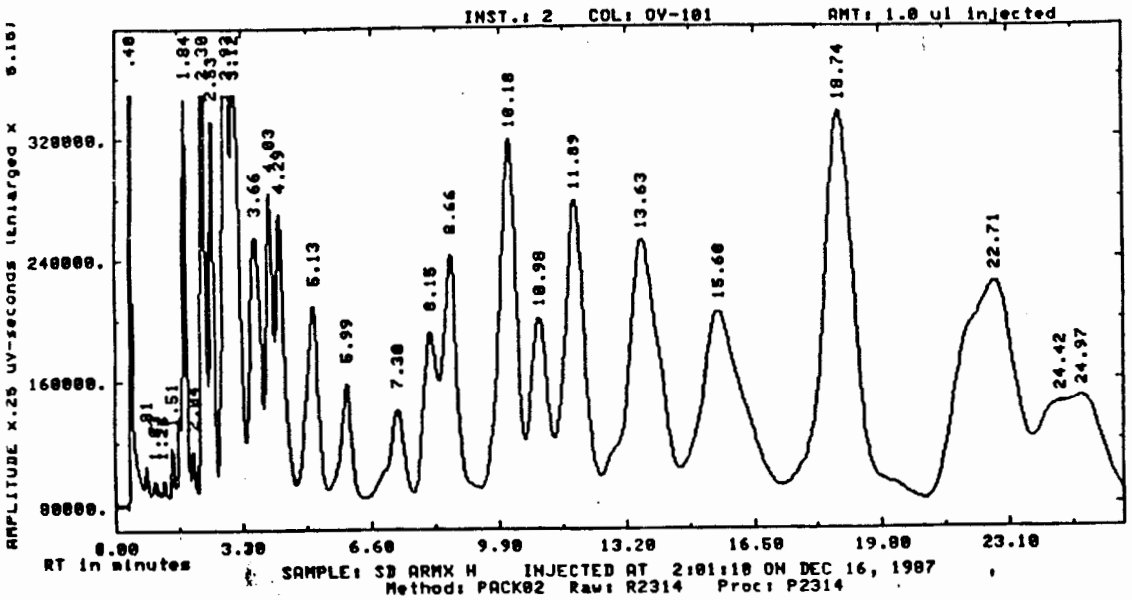
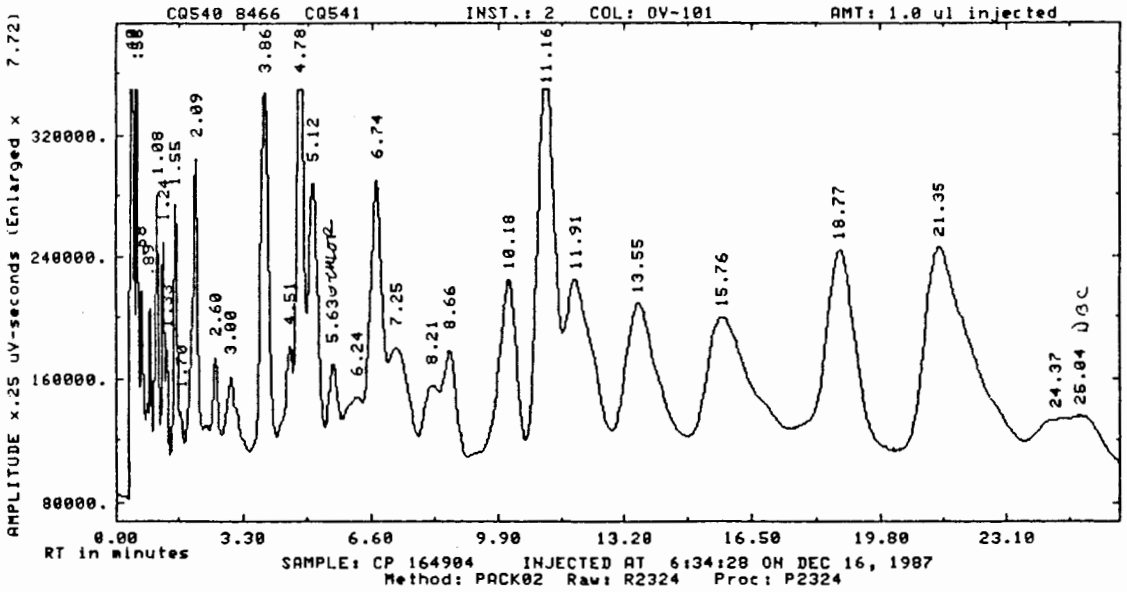
Aroclor 1016/1260 High



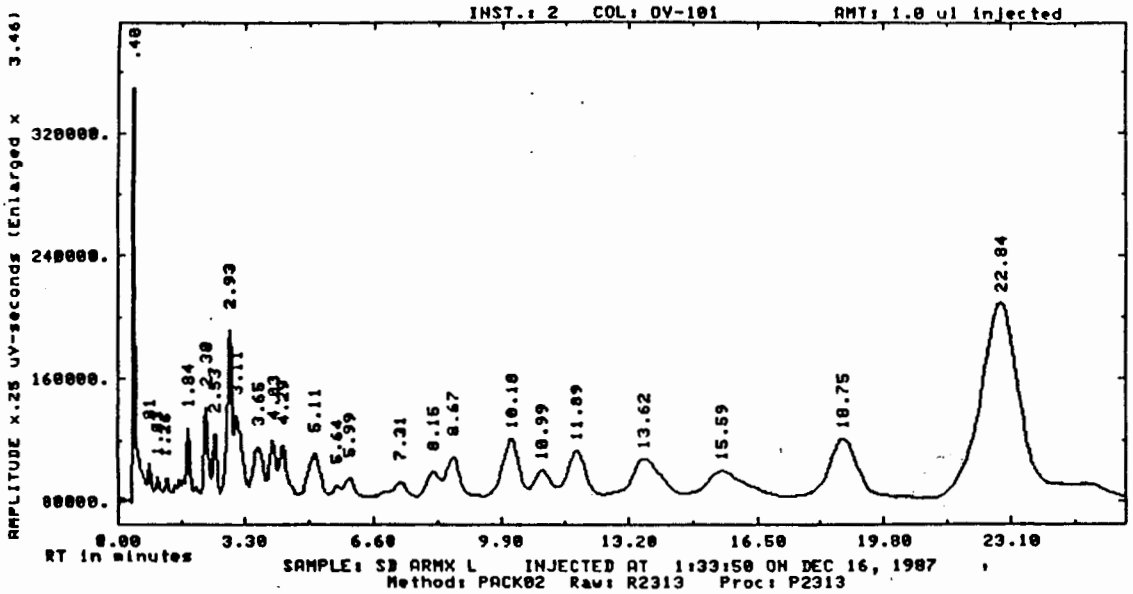


11B

Aroclor 1016/1260 Low

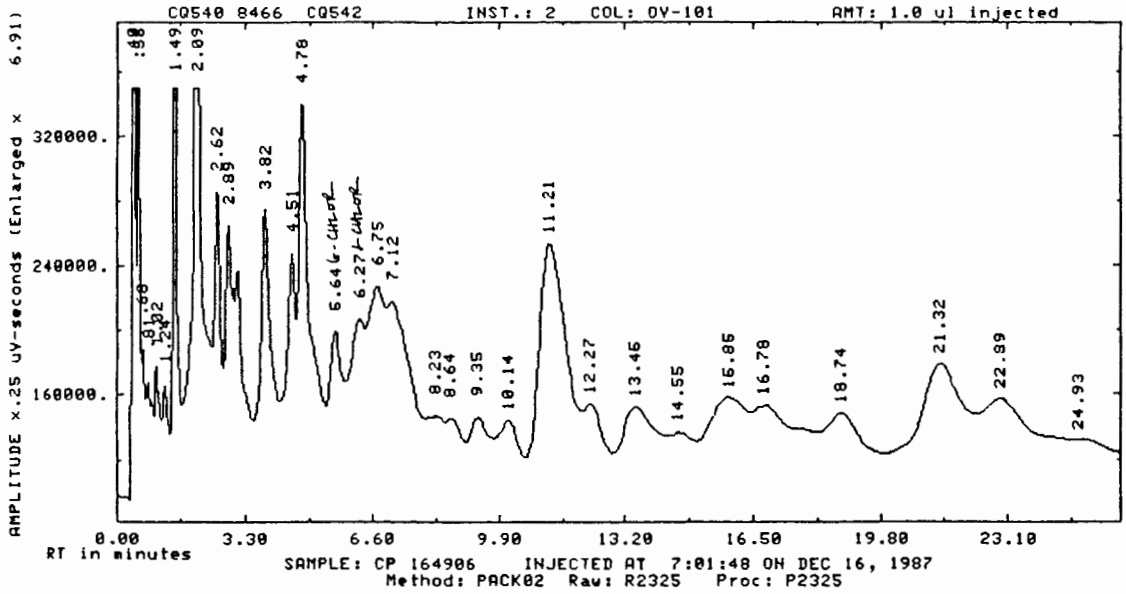
2249

SAMPLE DATA PACKAGE



1770

SAMPLE DATA PACKAGE

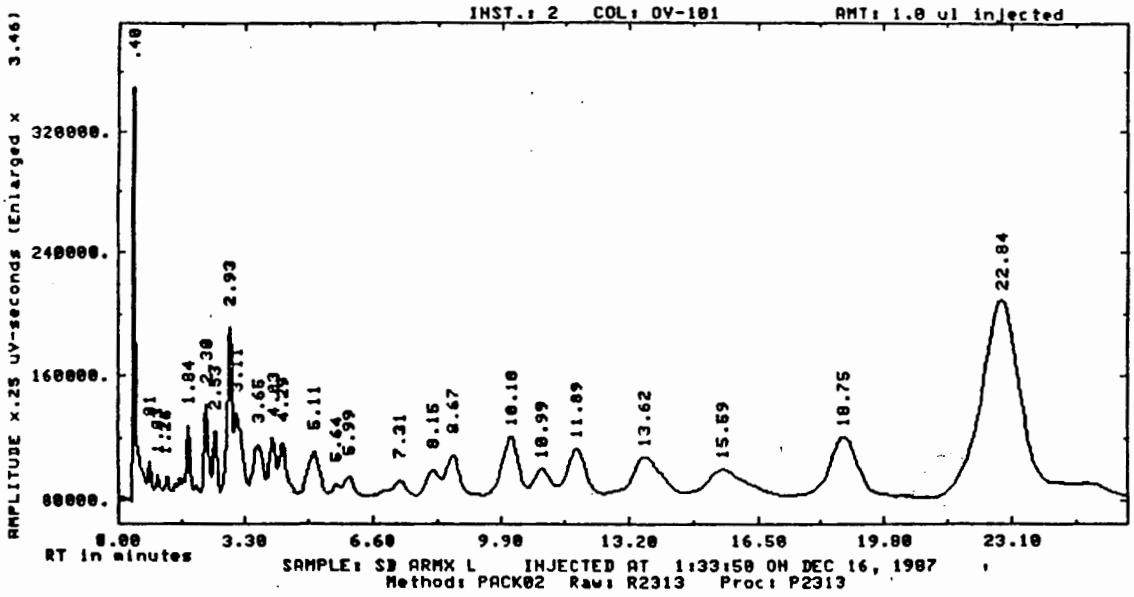


11C

Aroclor 1016/1260 Low

2249

SAMPLE DATA PACKAGE



1734

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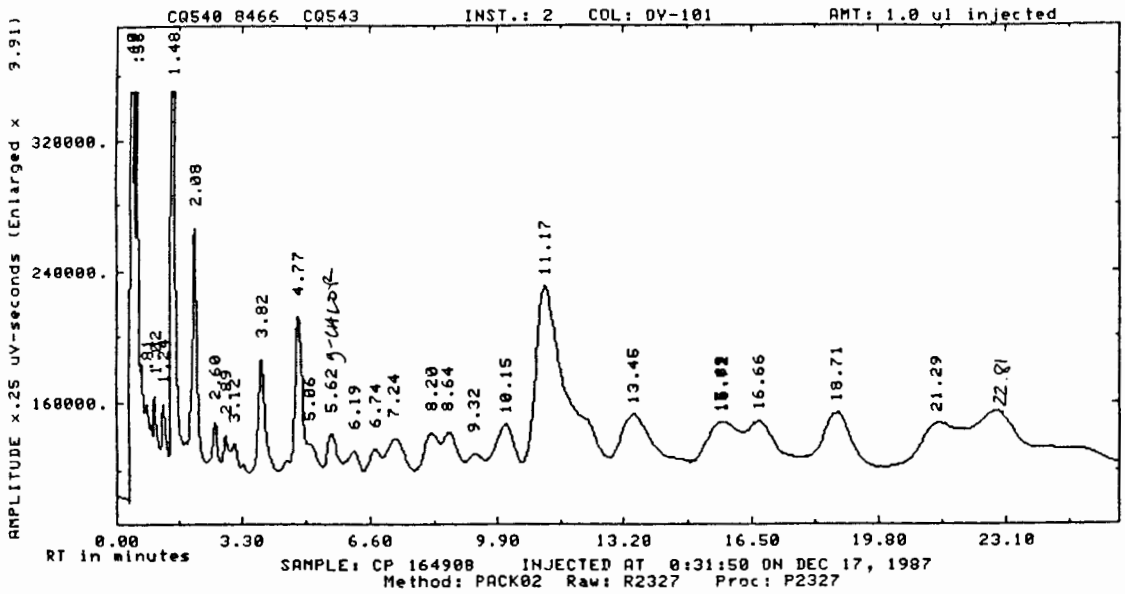
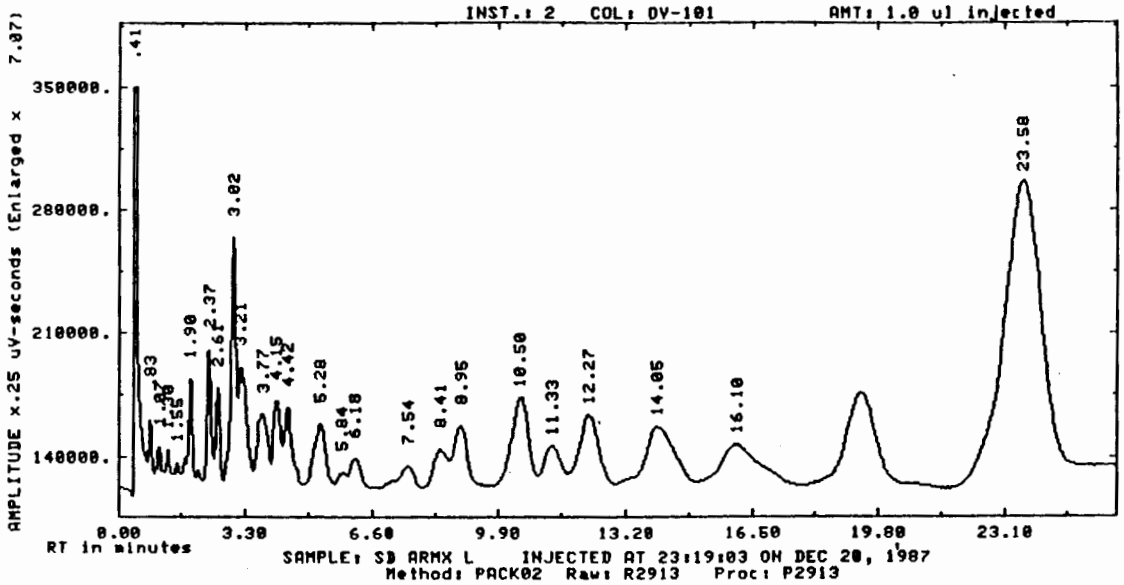


11B

Aroclor 1016/1260 Low



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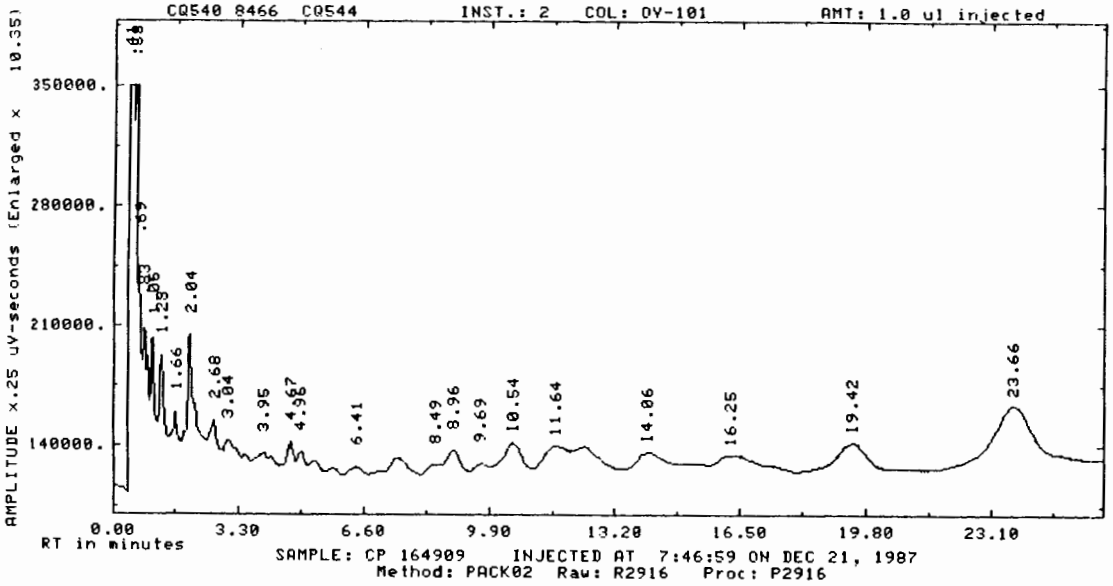
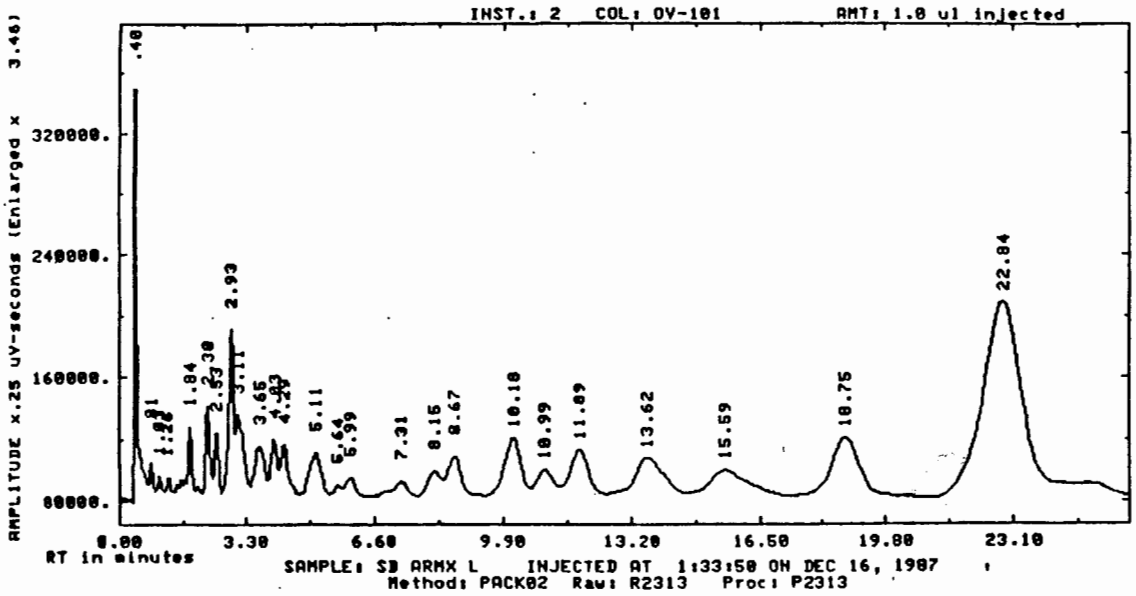
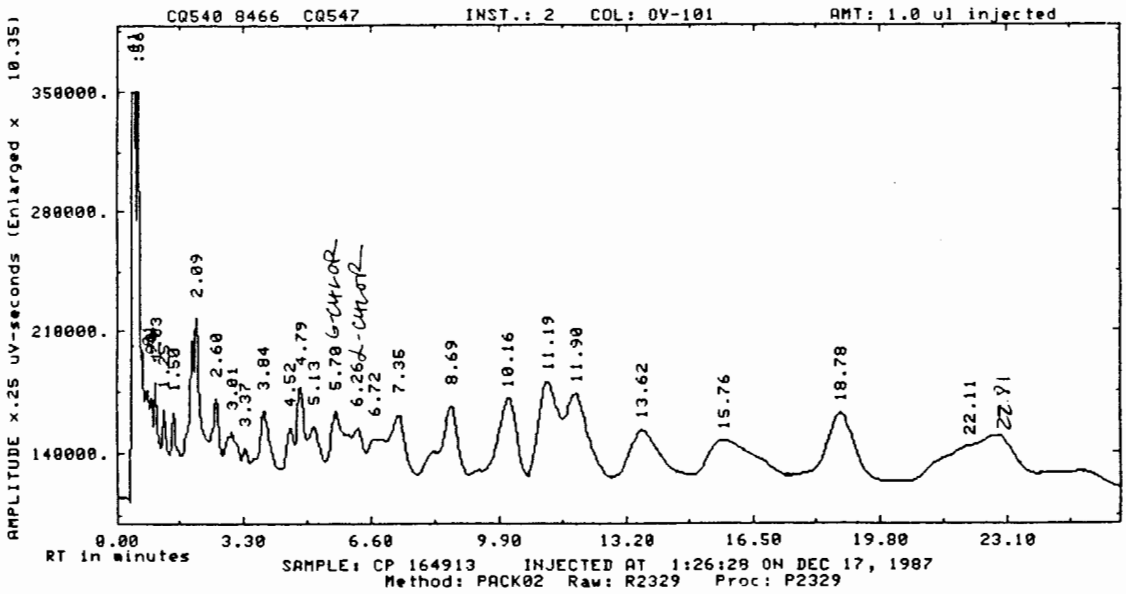


SAMPLE DATA PACKAGE

11E

Aroclor 1016/1260 Low

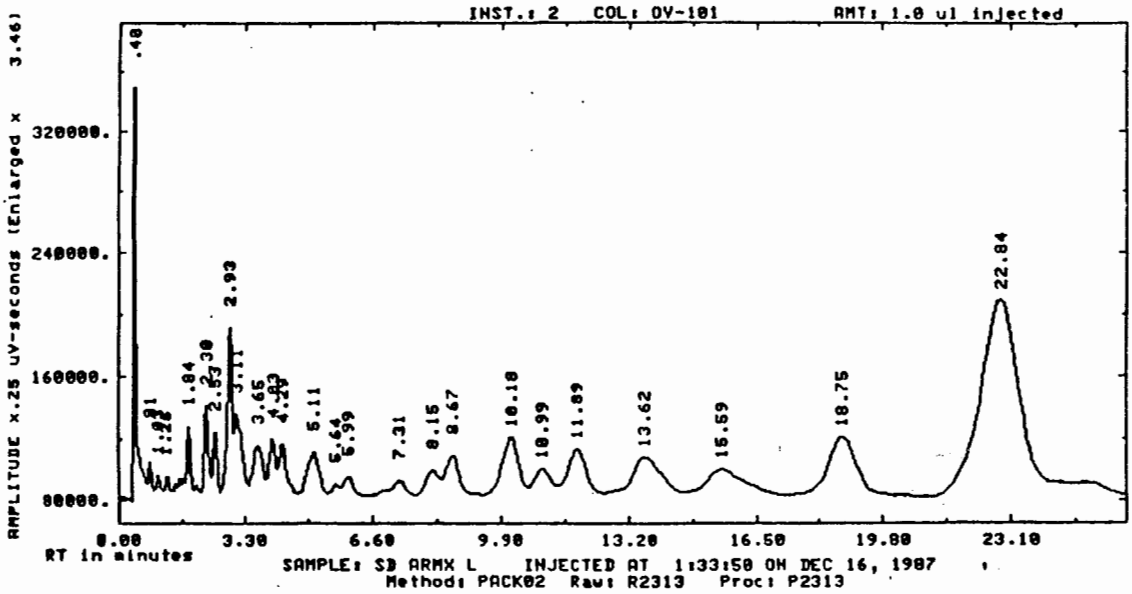




Aroclor 1016/1260 Low

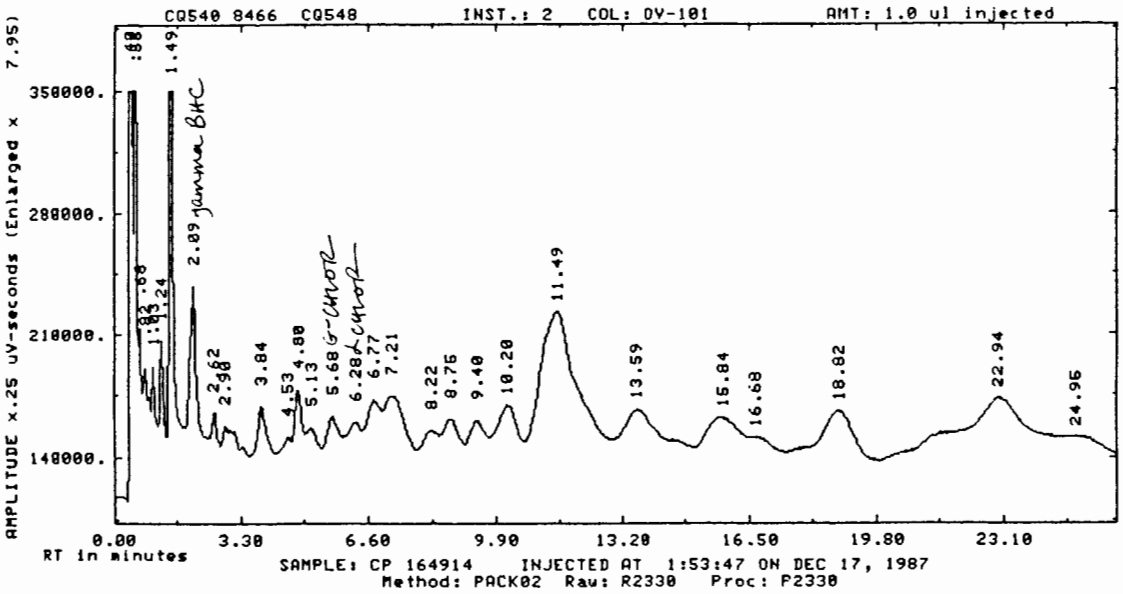
2249

SAMPLE DATA PACKAGE

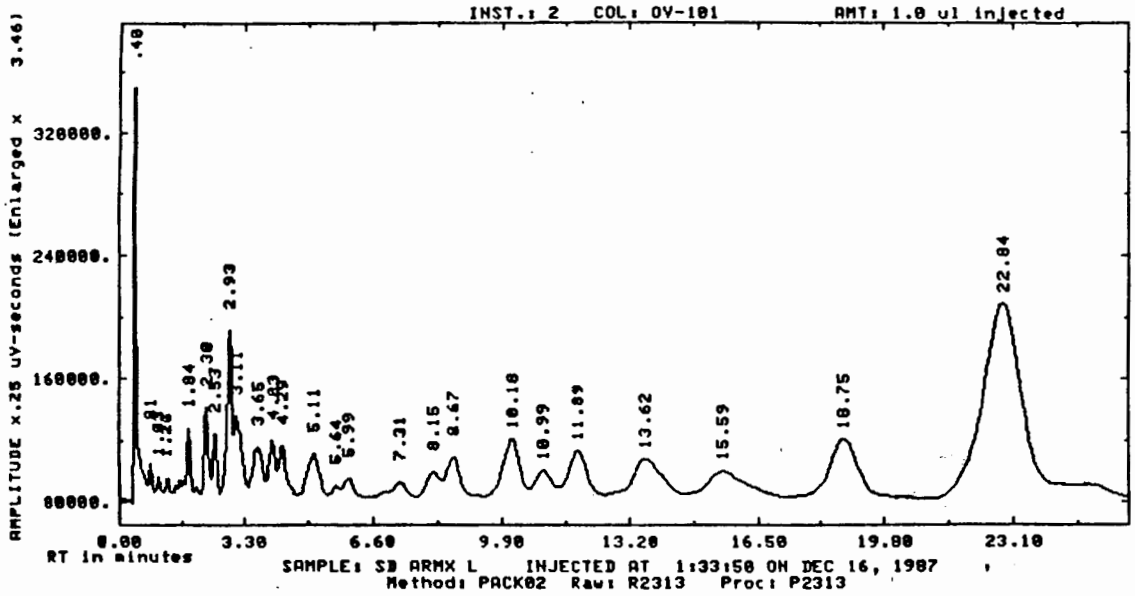


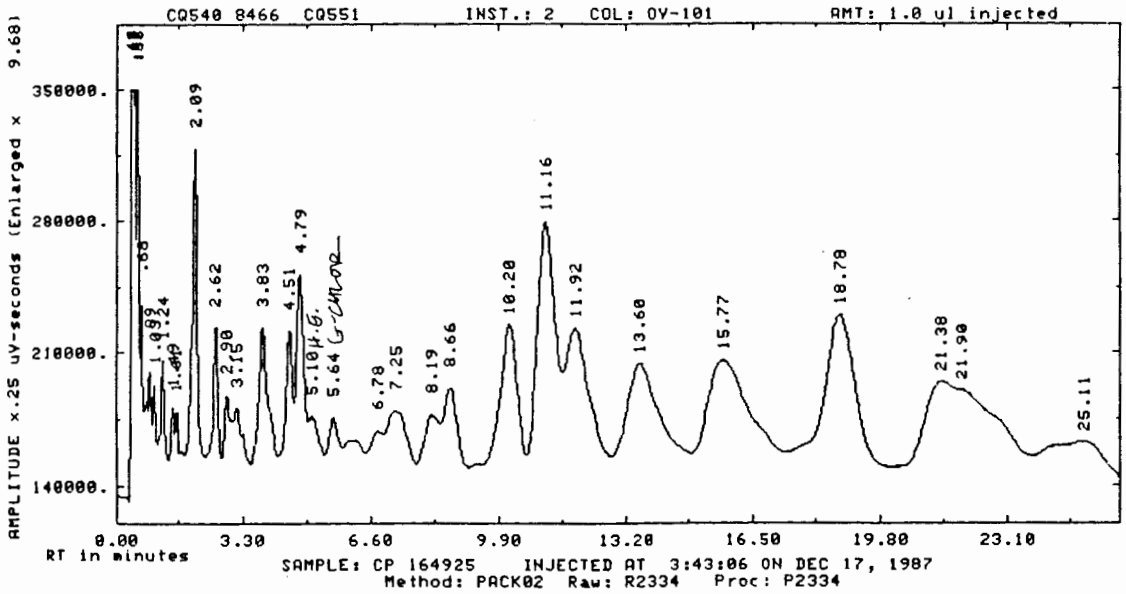
1832

SAMPLE DATA PACKAGE



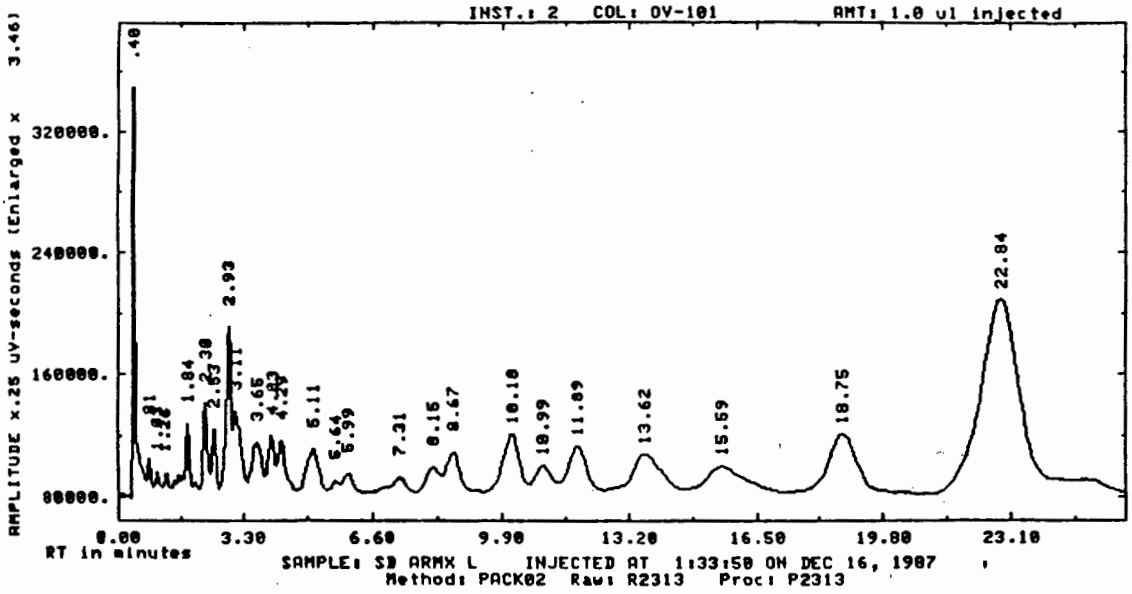
Aroclor 1016/1260 Low

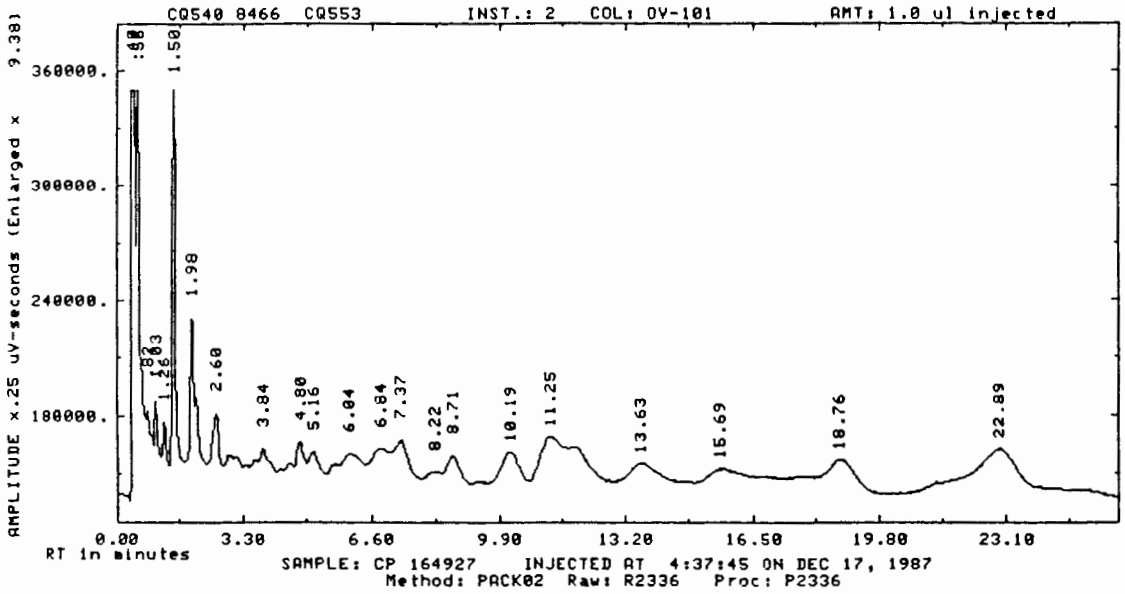




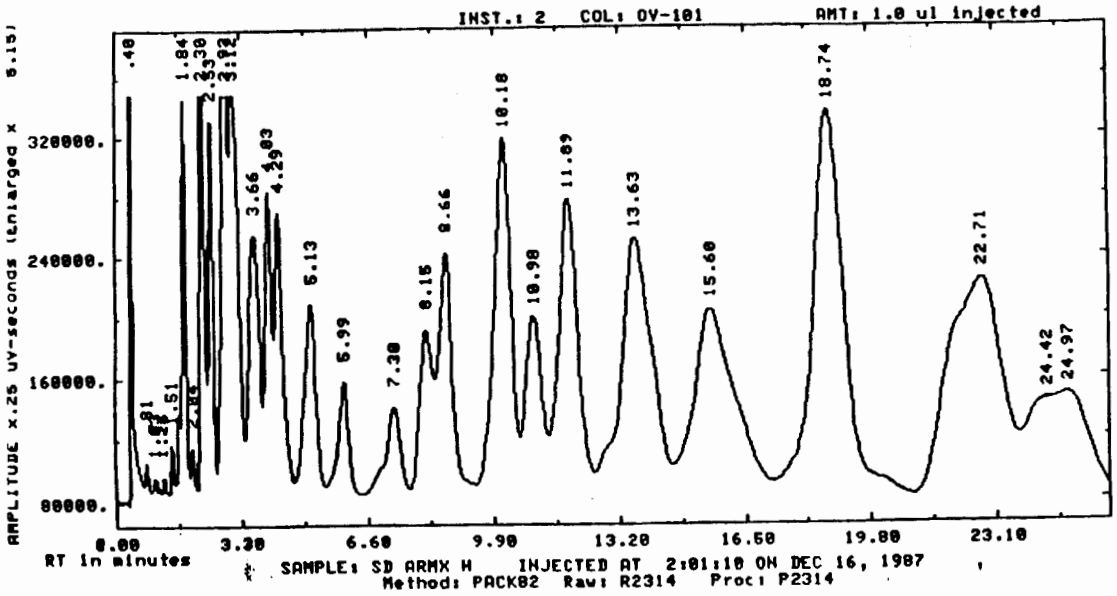
11H

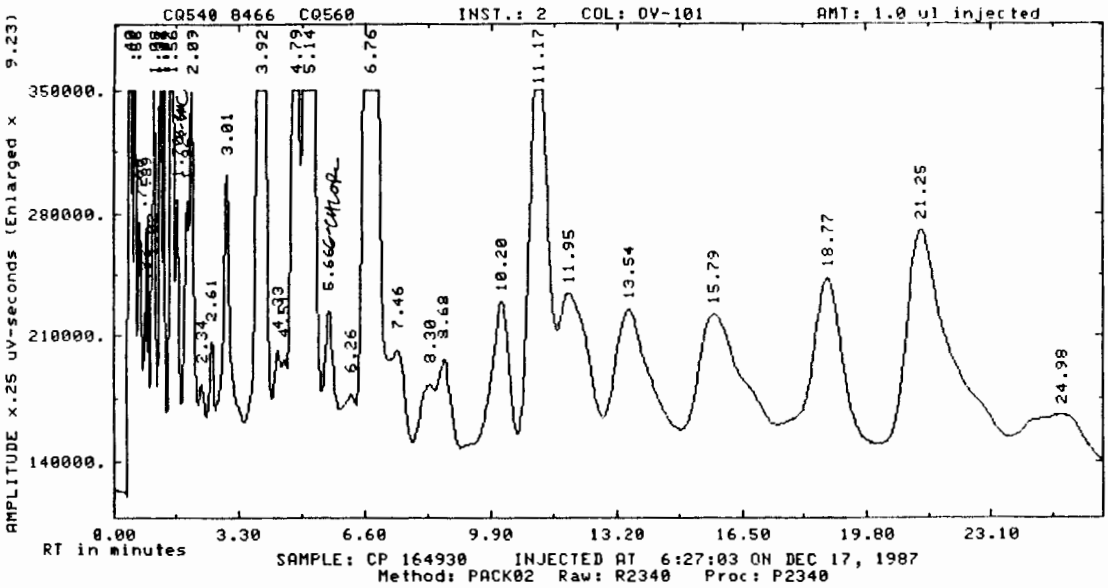
Aroclor 1016/1260 Low





Aroclor 1016/1260 High





SAMPLE DATA PACKAGE 1931

11 J

PROJECT NAME: [illegible]

TDD NO.: F3-8710-11

REGION: III

SUPPORT DOCUMENTATION FOR THE REVIEW OF INORGANIC ANALYTICAL DATA PACKAGE

CASE/SAS NO.: 8466

TYPE OF ANALYSIS: Inorganic - Soils

CONTRACT LABORATORY: EPS

APPLICABLE IFB OR SOW: 785

REVIEWER: J.m. Chambers

REVIEW DATE: 3/1/88

APPLICABLE SAMPLE NO's.: MCR 326, MCR 327, MCR 328, MCR 329, MCR 330, MCR 331, MCR 333, MCR 334, MCR 335, MCR 336, MCR 337, MCR 338, MCR 339, MCR 340, MCR 341, MCR 346, MCR 347

THE FOLLOWING TABLE INDICATES AREAS WHICH WERE EXAMINED IN DETAIL, THE IDENTIFIED PROBLEM AREAS, AND SUPPORT DOCUMENTATION ATTACHMENTS:

	AREAS EXAMINED IN DETAIL — CHECK(✓) IF YES OR FOOTNOTE LETTER FOR COMMENTS BELOW					PROBLEM AREAS IDENTIFIED — CHECK(✓) IF YES OR FOOTNOTE NUMBER FOR COMMENTS BELOW					SUPPORT DOCUMENTATION ATTACHMENTS — CHECK(✓) IF YES OR IDENTIFY ATTACHMENT NO.				
	ALL APPLICABLE ANALYSES	ICP OR A.A. METALS	FURNACE METALS	COLD VAPOR MERCURY	CYANIDE	ALL APPLICABLE ANALYSES	ICP OR A.A. METALS	FURNACE METALS	COLD VAPOR MERCURY	CYANIDE	ALL APPLICABLE ANALYSES	ICP OR A.A. METALS	FURNACE METALS	COLD VAPOR MERCURY	CYANIDE
HOLDING TIMES	✓														
BLANK ANALYSIS RESULTS	✓						✓	✓				✓	✓		
MATRIX SPIKES (PRE-DIGESTION)	✓														
DUPLICATES	✓						Cd								
QUANTITATION OF RESULTS	✓							Pb					Pb		
DETECTION LIMITS/SENSITIVITY	✓						✓	✓				✓	✓		
INITIAL CALIBRATIONS	✓														
CONTINUING CALIBRATIONS	✓														
LABORATORY CONTROL STANDARDS	✓														
ICP LINEAR RANGE ANALYSIS	✓						✓					✓			
ICP INTERFERENCE CHECKS	✓														
ICP SERIAL DILUTIONS	✓						✓					Fe			
GFAA POST-DIGESTION SPIKES	✓														
GFAA DUPLICATE BURNS	✓														
GFAA STANDARD ADDITIONS	✓							Pb					Pb		
OTHERS															

COMMENTS:

BLANK ANALYSIS RESULTS FOR TARGET COMPOUNDS

FRACTION	TYPE	CONC	MATRIX	SAMPLE #	SOURCE OF H_2O	CONTAMINANTS (CONCENTRATION / DETECTION LIMIT)
ICP	Low-Soil			Initial Calibration	Lab	Aluminum 36 ug/L Vanadium 9 ug/L Iron 180 ug/L
				Continuing Calibration Blank	Lab	Aluminum 38 ug/L Barium 60 ug/L Cadmium 5 ug/L Copper (13 ug/L)
						Iron 250 ug/L Vanadium 7 ug/L
Furnace	Low-Soil			Initial Cal.	Lab	Selenium (2.0 ug/L)
				Cont Cal.		Selenium (2.5 ug/L)
				Matrix Soil Prep Blank		AL 46 ug/L (9.2 mg/kg) Fe 60 ug/L (12. mg/kg) Se (0.9 mg/kg)

LABORATORY REPORTED FIELD BLANK DATA IS COMPARED WITH THE SAMPLE DATA IN A TABULATION FORM WITHIN THE SAMPLE ANALYTICAL DATA SUMMARY. TENTATIVELY IDENTIFIED COMPOUNDS IN BLANKS ARE LISTED ON A SEPARATE FORM

COMMENTS:

(1) RESULT REPORTED BY LABORATORY AND CONFIRMED BY REVIEWER.

(2) RESULT INFERRED FROM QUANTITATION LIST, DIAGNOSTICS, CHROMATOGRAM AND/OR SPECTRA.

Form V

Q.C. Report No. 46

SPIKE SAMPLE RECOVERY

LAB NAME EPS

DATE 12-18-87

CASE NO. 5466
EPA Sample No. MCR327
Lab Sample ID No. MCR327
Units ug/l

Matrix SOIL

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R1	
Metals:						
1. Aluminum	75-125	NR	NR	NR	NR	
2. Antimony ✓	75-125	83	43u	500	17 N	D.L /BL
3. Arsenic	75-125	149	124.5s	40	123NA	
4. Barium	75-125	2321	316.8	2000	100	
5. Beryllium	75-125	56	[2.8J	50	106	
6. Cadmium	75-125	80	25.3	50	109	
7. Calcium	75-125	NR	NR	NR	NR	
8. Chromium	75-125	373	158.4	200	107	
9. Cobalt	75-125	518	[41.2J	500	95	"J"
10. Copper ✓	75-125	727	366.4	250	144N	
11. Iron	75-125	NR	NR	NR	NR	
12. Lead	75-125	1080	180.6s	50	1621	NA
13. Magnesium	75-125	NR	NR	NR	NR	
14. Manganese	75-125	2784	2264.2	500	104NA	
15. Mercury	75-125	1.7	0.7	1.0	99	
16. Nickel	75-125	636	137.8	500	100	
17. Potassium	75-125	NR	NR	NR	NR	
18. Selenium ✓	75-125	2.5	5u	10	25N	DL
19. Silver ✓	75-125	33	10u	50	66N	DL/"J"
20. Sodium	75-125	NR	NR	NR	NR	
21. Thallium (No spikes)	75-125	66.7	10u	50	133N	N/A
22. Vanadium	75-125	795	232.4	500	113	
23. Zinc ✓	75-125	1504	800.3	500	141N	BH
Other:						
Cyanide		79.1	10u	100	79	

1 %R = [(SSR - SR)/SA] X 100

"N" - out of control
"NR" - Not required
"NA" - Sample concentration greater than 4 times the spike added
Comments: ++Sample multiplied by the following weight correction factors:
Furnace = 1.054/1.205 ICP = 1.268/1.353

Detection Limits for Silver are estimated

N/A - No Action
Zinc B/High

Form VI

Q.C. Report No. 46

DUPLICATES

LAB NAME EPS

DATE 12-18-87

CASE NO. 8466

EPA Sample No. MCR336

Lab Sample ID No. MCR336

Units mg/kg

Matrix Soil

Compound	Control Limit1	Sample(S)	Duplicate	RPD2
Metals:				
1. Aluminum		3219.2	3127.6	2.9
2. Antimony	13	9.6u	9.4u	NC
3. Arsenic	2	8.9	8.7	1.9
4. Barium	45	65.2	79	19
5. Beryllium	1	[0.4]	[0.4]	NC
6. Cadmium	1	5.1	6.5	24.1*
7. Calcium	1117	1979.3	2479.8	22.4
8. Chromium		17.4	13.5	25.2*
9. Cobalt	11	[8.9]	[5.9]	NC
10. Copper		142.8	123.9	14.2
11. Iron		56828.5	37157.7	41.9*
12. Lead		623.7 S	694	10.7
13. Magnesium	1117	[643.4]	[525.6]	NC
14. Manganese		311.4	207.4	40.1*
15. Mercury		0.1u	0.1u	NC
16. Nickel	9	27	25.1	7.5
17. Potassium	1117	440.1u	429.7u	NC
18. Selenium	1	1.2u	1.2u	NC
19. Silver	2	2.2u	2.2u	NC
20. Sodium	1117	464.7u	453.6u	NC
21. Thallium	2	2.3u	2.3u	NC
22. Vanadium	11	23	17	30
23. Zinc		390.3	381	2.4
Other:				
Cyanide	10	0.5u	0.5u	NC

* Out of Control

1 To be added at a later date.

2 RPD = [|S - D|/((S + D)/2)] X 100

NC - Non-calculable RPD due to value(s) less than CRDL

1 For soil samples, the Control Limit is based on the sample weight.

Form IX

Q.C. Report No. 46

ICP SERIAL DILUTIONS

LAB NAME EPS

DATE 12-18-87

CASE NO. 8466
EPA Sample No. MCC340
Lab Sample ID No. MCC340
Units: ug/L

Matrix Soil

Compound	Initial Sample Concentration (I)	Serial Dilution1 Results(S)	% Difference2
Metals:			
1. Aluminum	44650	45700	2.4
2. Antimony	43U	43U	NR
3. Arsenic	NA	NA	NA
4. Barium	[154]	35U	NR
5. Beryllium	[4]	1U	NR
6. Cadmium	8	4.2U	NR 62
7. Calcium	11480	13350	16.3 NR
8. Chromium	137	120	12.4 NR
9. Cobalt	[32]	14U	NR
10. Copper	90	95	~~5.6 NR~~
11. Iron	118050	130900	10.9E
12. Lead	NA	NA	NA
13. Magnesium	5590	6350	13.6 NR
14. Manganese	734	800	9
15. Nickel	55	22U	NR
16. Potassium	[2400]	1970U	NR
17. Selenium	NA	NA	NA
18. Silver	10U	10U	NR
19. Sodium	2080U	2080U	NR
20. Thallium	NA	NA	NA
21. Vanadium	231	215	6.9 NR
22. Zinc	198	270	36.4 NR
Other:			

1 Diluted sample concentration corrected for 1:4 dilution (see Exhibit D)

2 Percent Difference = $\frac{|1 - S|}{1} \times 100$

NR - Not Required, initial sample concentration less than 10 times IDL

NA - Not Applicable, analyte not determined by ICP

ICP Linearity Check Analysis

LAB: Environmental Protection Systems Inc Date: 2/17/87

Case: 8466. Site: Ludlow Ind. Park

Element	CRDL	2xCRDL	Lab values		% recoveries	
Ag (DL)	10 ppb	20 ppb	18	9	90	45
Al	200	400	449		—	—
Ba ✓	200	400	397	404	99	101
Be ✓	5	10	10	10	100	100
Cd	5 ✓	10	9	12	90	120
Ca	5000	10000	11340	10300	—	—
Cr ✓	10	20	18	18	90	90
Co ✓	50	100	107	105	107	105
Cu	25	50	56	61	112	122
Fe	100	200	220	210	—	—
Pb	5	10				
Mg	5000	10000	10.780	10610	—	—
Mn	15	30		—	—	—
Ni	40	80	107	113	133%	141
K	5000	10000	11620	11760	—	—
Na	5000	10000	11450	11710	—	—
V ✓	50	100	109	98	109	98
Zn ✓	20	40	46	41		
Sb ✓	60	120	135	97	112	81

✓ = OK

Comments:

✓ DL - Silver - Detection Limits for Silver may be Slightly higher Than Reported.

Form VIII

Q.C. Report No. 46

STANDARD ADDITION RESULTS

LAB NAME EPS

CASE NO. 8466

DATE 12-18-87

UNITS: ug/L

Pg 1 of 2

Slope	Sample #	Element	Matrix	ABS.	1 ADD CON.	1 ADD ABS.2	2 ADD CON.	2 ADD ABS.2	3 ADD CON.	3 ADD ABS.2	Final CON.3	r*	Y Int
1.1	MCR326	As 1:10	LS	11.9	20	27.6	40	49.2	60	64.5	137.0	0.998	11.4
0.9	MCR327	As 1:10	LS	11.2	20	29.7	40	47.3	60	65.8	124.5	1.000	11.3
0.9	MCR329	As	LS	33.6	20	54.7	40	72.1	60	86.5	40.1	0.996	35.3
1.0	MCR330	As	LS	27.6	20	43.5	40	63.6	60	85.1	27.1	0.998	26.1
0.8	MCR331	As	LS	22.0	20	38.5	40	53.5	60	64.4	32.7	0.996	23.3
0.5	MCR335	As	LS	28.1	20	39.8	40	50.5	60	46.5	Rerun	0.868	31.3
0.4	MCR335	As	LS	29.4	20	40.9	40	49.8	60	58.6	62.6	0.998	30.2
0.9	MCR337	As 1:10	LS	11.2	20	29.7	40	47.3	60	65.8	124.5	1.000	11.3
1.0	MCR338	As 1:2	LS	24.0	20	47.7	40	67.3	60	101.0	Rerun	0.993	22.4
1.0	MCR338	As 1:10	LS	24.8	20	50.7	40	70.8	60	101.7	38.9	0.997	24.4
0.8	MCR339	As	LS	24.2	20	42.0	40	58.5	60	72.7	30.9	0.999	25.1
0.9	MCR347	As 1:10	LS	9.5	20	28.4	40	46.3	60	70.0	86.7	0.998	8.6
1.4	LCS(s)	Se 1:2	LA	49.2	10	62.0	20	76.0	30	86.5	78.7	0.998	49.5
0.5	MCR338	Se	LS	3.2	10	8.4	20	13.3	30	19.1	5.9	0.999	3.1
0.9	LCS(s)	Pb	LA	48.1	10	62.7	20	72.0	30	85.9	39.7	0.997	48.8

1 Matrix abbreviations; Low Solid, LS; Medium Solid, MS; Low Aqueous, LA; Medium Aqueous, MA.

2 CON is the concentration added, ABS. is the instrument readout in absorbance or concentration.

3 Concentration as determined by MSA

*"r" is the correlation coefficient.

+ - correlation coefficient is outside of control window of 0.995.

Form VIII

Q.C. Report No. 46

STANDARD ADDITION RESULTS

LAB NAME EPS CASE NO. 8466

DATE 12-18-87 UNITS: ug/L

Pg 2 of 2

Slope	Sample #	Element	Matrix	ABS.	1 ADD CON.	1 ADD ABS.2	2 ADD CON.	2 ADD ABS.2	3 ADD CON.	3 ADD ABS.2	Final CON.3	r*	Y Int
0.8	MCR326	Pb 1:20	LS	61.3	10	69.6	20	76.7	30	83.2	1663.4	0.999	61.4
0.9	MCR327	Pb 1:50	LS	35.5	10	41.8	20	50.9	30	59.3	2161.5	0.997	34.8
0.9	MCR328	Pb 1:20	LS	49.5	10	57.6	20	66.6	30	71.6	Rerun	0.994	50.0
1.1	MCR328	Pb 1:20	LS	43.1	10	52.3	20	63.3	30	78.6	833.2	0.999	42.7
1.0	MCR331	Pb 1:20	LS	18.1	10	27.8	20	37.9	30	49.0	345.9	1.000	17.8
1.0	MCR333	Pb 1:50	LS	52.1	10	62.5	20	72.3	30	77.5	Rerun	0.990	53.2
1.0	MCR333	Pb 1:50	LS	50.7	10	60.7	20	70.7	30	78.7	2718.1	0.999	51.1
1.1	MCR334	Pb 1:20	LS	34.8	10	47.8	20	58.5	30	67.9	650.0	0.997	35.8
1.1	MCR336	Pb 1:100	LS	29.2	10	40.0	20	51.4	30	61.8	2675.8	1.000	29.2
1.1	MCR339	Pb 1:20	LS	29.3	10	39.7	20	50.4	30	58.3	609.4	0.998	29.8
1.2	MCR339	Pb 1:20	LS	34.0	10	40.2	20	52.9	30	56.8	Rerun	0.983	33.8
1.1	MCR339	Pb 1:20	LS	29.7	10	38.9	20	49.6	30	64.7	490.4	0.993	28.4
1.0	MCR346	Pb 1:20	LS	60.4	10	72.0	20	81.6	30	89.3	1274.8	0.996	61.4
0.7	MCR347	Pb 1:100	LS	30.7	10	43.0	20	50.3	30	58.1	Rerun	0.992	32.1
1.1	MCR347	Pb 1:100	LS	28.5	10	41.1	20	51.7	30	62.5	2580.8	0.999	29.1

1 Matrix abbreviations; Low Solid, LS; Medium Solid, MS; Low Aqueous, LA; Medium Aqueous, MA.

2 CON is the concentration added, ABS. is the instrument readout in absorbance or concentration.

3 Concentration as determined by MSA

*"r" is the correlation coefficient.

+ - correlation coefficient is outside of control window of 0.995.

already x20

490.4 x 0.2

Positive Results for Lead in Sample MCR 339 Miscalculated by the Lab.

IFB Amend. One

Peak Area (A-s): 0.142 Peak Height (A): 0.267
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.128
Concentration (ug/L): 17.6

Peak Area (A-s): 0.143 Peak Height (A): 0.276
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.129
Concentration (ug/L): 18.0

Mean Conc (ug/L): 17.9 SD: 0.12 RSD(%): 0.7

Sample ID: 341 20xdil Sequence No.: 00015 Sampler Position: 15

Peak Area (A-s): 0.108 Peak Height (A): 0.215
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.094
Concentration (ug/L): 12.8

Peak Area (A-s): 0.105 Peak Height (A): 0.218
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.091
Concentration (ug/L): 12.4

Mean Conc (ug/L): 12.6 SD: 0.30 RSD(%): 2.4

Sample ID: 341 dilspk Sequence No.: 00016 Sampler Position: 16

Peak Area (A-s): 0.182 Peak Height (A): 0.371
Background Pk Area (A-s): 0.016 384 Background Pk Height (A): 0.060

341 dil spk (8) 8466PBR3

Blank Corrected Pk Area (A-s): 0.166
Concentration (ug/L): 25.7

Peak Area (A-s): 0.178 Peak Height (A): 0.366
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.162
Concentration (ug/L): 22.9

Mean Conc (ug/L): 23.5 SD: 0.59 RSD(%): 2.5

Sample ID: CCV Sequence No.: 00017 Sampler Position: 17

Peak Area (A-s): 0.328 Peak Height (A): 0.519
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.314
Concentration (ug/L): 45.4

Peak Area (A-s): 0.319 Peak Height (A): 0.519
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.065
Blank Corrected Pk Area (A-s): 0.305
Concentration (ug/L): 44.0 91%

Mean Conc (ug/L): 44.7 SD: 0.99 RSD(%): 2.2

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P. O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MCR347

Date 12-18-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME EPS
SOW NO. 785
LAB SAMPLE ID NO. MCR347

CASE NO. 8466
Lab Receipt Date 11-13-87
QC REPORT NO. 46

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water ____ Soil X Other ____

( )ug/L or (X)mg/kg dry weight

1.	Aluminum	12500	P	13.	Magnesium	2000	P
2.	Antimony	9.3U N	P	14.	Manganese	386 *	P
3.	Arsenic	12.7S	F	15.	Mercury	0.1U	CV
4.	Barium	63.7	P	16.	Nickel	19	P
5.	Beryllium	[0.6]	P	17.	Potassium	[841]	P
6.	Cadmium	3 *	P	18.	Selenium	1.1U N	F
7.	Calcium	7800	P	19.	Silver	2.2U N	P
8.	Chromium	34.4 *	P	20.	Sodium	450U	P
9.	Cobalt	[7.1]	P	21.	Thallium	2.1U N	F
10.	Copper	49.1 N	P	22.	Vanadium	58.6	P
11.	Iron	37300 E *	P	23.	Zinc	93.4 N	P
12.	Lead	552 S	F		Percent Solids (%)	86.3	
Cyanide		0.5U					

Footnotes: For reporting results to EPA, standard results qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Brown soil.

Lab Manager D. Bluhoff for J. O'Neal

IFB Amend. One

CLP-WA85 Mercury in Wastewater and Sediments
Manual Cold Vapor Technique
Digestion and Bench Sheet
Method: 245.1 CLP-M

Prep Date 12-16-87
Anal. Date 12-11-87
Tech. MSM

Corr(r) = .9996

EPS Log No.	Sequence	ml or gm in Aliquot	Dry Wt. (soils)	Peak Height	Water ug Hg/l	Sediment ug Hg/gm
	15					
MCR 346	291	.220	.176	0.8	0.0	.1u
	16					
MCR 341	226	.231	.192	1.1	0.0	.1u
	17					
MCR 346	176	.203	.167	5.3	.83	.49
	18					
MCR 347	368	.221	.191	2.1	.21	.10
	19					
MCR 336	duplicate 125	.225	.187	1.5	.08	.1u
	20					
MCR 327	spk 10ppb 430	.202	.168	9.7	1.70	1.01
	Cont Calib Ver					
ICVS #5	5-25TD 202			28.2	5.33	
	Calib Blank					
	288			0.4	0.2u	
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	Cont Calib Ver					
	Calib Blank					

Quality Control to be analyzed after final sample:
1. Spike for each matrix
2. Duplicate for each matrix
3. Final CCVS and CCB

Note: If solids and liquids are included in the same run, then an additional prep blank must be analyzed at the beginning of the run.

Form X

Q.C. Report No. 46

Pg 1 of 2

HOLDING TIMES

LAB NAME EPS

CASE NO. 8466

DATE 12-18-87

EPA Sample No.	Matrix	Date Received	Mercury Prep Date	Mercury Holding Time1 (Days)	CN Prep Date	CN Holding Time1 (Days)
MCR 326	LS	11-13-87	12-11-87	28	11-23-87	10
MCR 327	LS	11-13-87	12-11-87	28	11-23-87	10
MCR 328	LS	11-13-87	12-11-87	28	11-23-87	10
MCR 329	LS	11-13-87	12-11-87	28	11-23-87	10
MCR 330	LS	11-13-87	12-11-87	28	11-23-87	10
MCR 331	LS	11-13-87	12-11-87	28	11-23-87	10
MCR 333	LS	11-13-87	12-11-87	28	11-23-87	10
MCR 334	LS	11-13-87	12-11-87	28	11-23-87	10
MCR 335	LS	11-13-87	12-11-87	28	11-23-87	10
MCR 336	LS	11-13-87	12-11-87	28	11-23-87	10
MCR 337	LS	11-13-87	12-11-87	28	11-23-87	10
MCR 338	LS	11-13-87	12-11-87	28	11-23-87	10
MCR 339	LS	11-13-87	12-11-87	28	11-23-87	10
MCR 340	LS	11-13-87	12-11-87	28	11-23-87	10
MCR 341	LS	11-13-87	12-11-87	28	11-23-87	10

1 Holding time is defined as number of days between the date received and the sample preparation date.

Form X

Q.C. Report No. 46

Pg 2 of 2

HOLDING TIMES

LAB NAME EPS

CASE NO. 8466

DATE 12-18-87

EPA Sample No.	Matrix	Date Received	Mercury Prep Date	Mercury Holding Time1 (Days)	CN Prep Date	CN Holding Time1 (Days)
MCR346	LS	11-13-87	12-11-87	28	11-23-87	10
MCR347	LS	11-13-87	12-11-87	28	11-23-87	10

1 Holding time is defined as number of days between the date received and the sample preparation date.

080

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Instrument ID: 0010 Calibration date: 11/22/87 Time: 0608

Lab File ID: GS871122C10 Init. Calib. Date(s): 11/19/87 11/19/87

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Chloromethane	#	1.256	1.823	-45.1	#
Bromomethane		2.183	2.324	-6.5	
Vinyl Chloride	*	1.630	1.974	-21.1	*
Chloroethane		1.029	1.048	-1.8	
Methylene Chloride		1.341	1.827	-36.2	
Acetone		0.421	0.405	3.8	
Carbon Disulfide		2.321	2.631	-13.4	
1,1-Dichloroethene	*	1.023	1.277	-24.8	*
1,1-Dichloroethane	#	1.812	2.396	-32.2	#
1,2-Dichloroethene (total)		1.029	1.283	-24.7	
Chloroform	*	2.603	3.103	-19.2	*
1,2-Dichloroethane		1.897	2.339	-23.3	
2-Butanone		0.027	0.017	37.0	
1,1,1-Trichloroethane		0.684	0.731	-6.9	
Carbon Tetrachloride		0.751	0.649	13.6	
Vinyl Acetate		0.640	0.446	~~30.3~~	No positives
Bromodichloromethane		0.698	0.691	1.0	
1,2-Dichloropropane	*	0.282	0.296	-5.0	*
cis-1,3-Dichloropropene		0.580	0.578	0.3	
Trichloroethene		0.528	0.531	-0.6	
Dibromochloromethane		0.803	0.588	26.8	
1,1,2-Trichloroethane		0.361	0.321	11.1	
Benzene		0.641	0.661	-3.1	
Trans-1,3-Dichloropropene		0.364	0.324	11.0	
Bromoform	#	0.605	0.288	52.4	# No positives.
4-Methyl-2-Pentanone		0.397	0.302	23.9	
2-Hexanone		0.318	0.238	25.2	
Tetrachloroethene		0.633	0.657	-3.8	
1,1,2,2-Tetrachloroethane	#	0.718	0.554	22.8	#
Toluene	*	0.533	0.590	-10.7	*
Chlorobenzene	#	0.994	1.094	-10.1	#
Ethylbenzene	*	0.414	0.485	-17.2	*
Styrene		1.049	1.063	-1.3	
Total Xylenes		1.234	1.267	-2.7	
Toluene-d8		1.004	1.071	-6.7	
BFB		0.746	0.828	-11.0	
1,2-Dichloroethane-d4		1.790	1.905	-6.4	

CQ550

FORM VII VOA 1/87 Rev.

10D

APPENDIX B

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CQ540

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164894

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064894A11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 21 Date Analyzed: 11/21/87

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	26	
67-64-1	Acetone	63	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
544-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CQ560

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164930

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064930C11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 23 Date Analyzed: 11/22/87

Column: (pack/cap) PACK Dilution Factor: 0.994

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	24	B
67-64-1	Acetone	10	BJ
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
544-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CQ541

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164904

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064904A11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 19 Date Analyzed: 11/21/87

Column: (pack/cap) PACK Dilution Factor: 0.992

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	16	
67-64-1	Acetone	17	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
544-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CQ542

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164906

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064906B11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 16 Date Analyzed: 11/21/87

Column: (pack/cap) PACK Dilution Factor: 0.992

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	14	
67-64-1	Acetone	16	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
544-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CQ543

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164908

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064908B11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 21 Date Analyzed: 11/21/87

Column: (pack/cap) PACK Dilution Factor: 0.990

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	16	
67-64-1	Acetone	42	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
544-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

FORM I VOA 1/87 Rev.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CQ544

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164909

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064909B11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 13 Date Analyzed: 11/21/87

Column: (pack/cap) PACK Dilution Factor: 0.992

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	10	
67-64-1	Acetone	19	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

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EPA SAMPLE NO.

CQ545

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164911

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064911B11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 16 Date Analyzed: 11/21/87

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	10	B
67-64-1	Acetone	20	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
544-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

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EPA SAMPLE NO.

CQ547

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164913

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064913B11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 26 Date Analyzed: 11/21/87

Column: (pack/cap) PACK Dilution Factor: 0.998

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	18	B
67-64-1	Acetone	22	B
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-34-3	1,1-Dichloroethane	7	U
544-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	Trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
1330-20-7	Total Xylenes	7	U

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EPA SAMPLE NO.

CQ548

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164914

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064914C11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 14 Date Analyzed: 11/22/87

Column: (pack/cap) PACK Dilution Factor: 0.998

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	13	B
67-64-1	Acetone	15	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
544-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

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EPA SAMPLE NO.

CQ549

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164915

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064915B11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 13 Date Analyzed: 11/21/87

Column: (pack/cap) PACK Dilution Factor: 0.990

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	18	B
67-64-1	Acetone	14	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
544-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

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EPA SAMPLE NO.

CQ550

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164917

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064917A10

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 17 Date Analyzed: 11/22/87

Column: (pack/cap) PACK Dilution Factor: 0.990

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	18	
67-64-1	Acetone	38	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

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EPA SAMPLE NO.

CQ551

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164925

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064925C11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 18 Date Analyzed: 11/22/87

Column: (pack/cap) PACK Dilution Factor: 0.992

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	22	B
67-64-1	Acetone	14	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
544-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

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EPA SAMPLE NO.

CQ552

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164926

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064926C11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 15 Date Analyzed: 11/22/87

Column: (pack/cap) PACK Dilution Factor: 0.992

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	20	B
67-64-1	Acetone	11	BJ
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
544-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

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EPA SAMPLE NO.

CQ553

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164927

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064927C11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 19 Date Analyzed: 11/22/87

Column: (pack/cap) PACK Dilution Factor: 0.994

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	13	B
67-64-1	Acetone	10	BJ
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
544-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

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EPA SAMPLE NO.

CQ554

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164928

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064928C11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 20 Date Analyzed: 11/22/87

Column: (pack/cap) PACK Dilution Factor: 0.990

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	B
67-64-1	Acetone	10	BJ
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
544-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

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EPA SAMPLE NO.

CQ555

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164929

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064929C11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 15 Date Analyzed: 11/22/87

Column: (pack/cap) PACK Dilution Factor: 0.990

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	18	B
67-64-1	Acetone	8	BJ
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
544-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CQ563

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164932

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064932A11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 14 Date Analyzed: 11/22/87

Column: (pack/cap) _____ Dilution Factor: 0.996

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	16	B
67-64-1	Acetone	19	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
544-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CQ562

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164931

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064931C11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 0 Date Analyzed: 11/22/87

Column: (pack/cap) PACK Dilution Factor: 0.996

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	50	B
67-64-1	Acetone	25	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
544-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	2	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CQ540MS

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164895

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064895A11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 21 Date Analyzed: 11/21/87

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	29	
67-64-1	Acetone	70	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
544-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL (Red)

CQ540MSD

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164896

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH064896A11

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 21 Date Analyzed: 11/21/87

Column: (pack/cap) PACK Dilution Factor: 0.990

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	19	
67-64-1	Acetone	15	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
544-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

FORM I VOA 1/87 Rev.

ORIGINAL (Red)

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CQ540

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164894

Sample wt/vol: 30.1 (g/mL) G Lab File ID: GH064894A04

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 21 dec. ____ Date Extracted: 11/23/87

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/29/87

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	2-Methylphenol	420	U
39638-32-9	bis(2-Chloroisopropyl)Ether	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-Di-n-Propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	100	J
111-91-1	bis(2-Chloroethoxy)Methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	170	J
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-Methylphenol	420	U
91-57-6	2-Methylnaphthalene	110	J
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethyl Phthalate	420	U
208-96-8	Acenaphthylene	350	J
606-20-2	2,6-Dinitrotoluene	420	U

FORM I SV-1 1/87 Rev.

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE ORIGINAL (Red)

CQ540

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 8466 SAS No.: _____ SDG No.: CQ540

Matrix: (soil/water) SOIL Lab Sample ID: 164894

Sample wt/vol: 30.1 (g/mL) G Lab File ID: GH064894A04

Level: (low/med) LOW Date Received: 11/13/87

% Moisture: not dec. 21 dec. ____ Date Extracted: 11/23/87

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/29/87

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	340	J
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	200	J
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	230	J
100-10-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	2200	
120-12-7	Anthracene	710	
84-74-2	Di-n-Butylphthalate	420	U
206-44-0	Fluoranthene	7300	E
129-00-0	Pyrene	5000	
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	830	U
56-55-3	Benzo(a)Anthracene	2800	
218-01-9	Chrysene	4100	
117-81-7	bis(2-Ethylhexyl)Phthalate	420	U
117-84-0	Di-n-Octyl Phthalate	420	U
205-99-2	Benzo(b)Fluoranthene	7400	EX
207-08-9	Benzo(k)Fluoranthene	7400	EX
50-32-8	Benzo(a)Pyrene	2200	
193-39-5	Indeno(1,2,3-cd)Pyrene	750	
53-70-3	Dibenz(a,h)Anthracene	250	J
191-24-2	Benzo(g,h,i)Perylene	640	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 1/87 Rev.