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March 17, 1993

Mr. Harry Gregory
Roux Associates
775 Park Avenue
Suite 255
Huntington, NY 11743

Dear Mr. Gregory:

Please find enclosed the analytical results of one soil, one oil and 18 liquid samples received at our laboratory on February 9 and 10, 1993. This report contains sections addressing the following information at a minimum:

- sample summary
- analytical methodology
- state certifications
- definitions of data qualifiers and terminology
- analytical results
- chain-of-custody

055264

IEA Report #30930-0148	Project ID: Amtrak-Sunnyside

Copies of this analytical report and supporting data are maintained in our files for a minimum of five years unless special arrangements have been made. Unless specifically indicated, all analytical testing was performed at this laboratory location and no portion of the testing was subcontracted.

We appreciate your selection of our services and welcome any questions or suggestions you may have relative to this report. Please contact your customer service representative at (203) 261-4458 for any additional information. Thank you for utilizing our services; we hope you will consider us for your future analytical needs.

I have reviewed and approved the enclosed data for final release.

Very truly yours,

Jeffrey C. Curran
Laboratory Manager

JCC/adj

cc: J. Harry

30930-0148
ROUX ASSOCIATES
SAMPLE SUMMARY

Client ID	Lab ID	Matrix	Date Collected	Date Received
MHW-5 ND	0148001	Liquid	02/08/93	02/09/93
MHW-3	0148002	Liquid	02/08/93	02/09/93
MHW-7 J	0148003	Liquid	02/08/93	02/09/93
MHW-6	0148004	Liquid	02/08/93	02/09/93
MHS-3 J	0148005	Soil	02/08/93	02/09/93
FB 02/08/93	0148006	Liquid	02/08/93	02/09/93
MW-36 J	0148007	Oil	02/08/93	02/09/93
MW-27 ND	0148008	Liquid	02/08/93	02/09/93
MW-45	0148009	Liquid	02/09/93	02/10/93
MHW-1	0148010	Liquid	02/09/93	02/10/93
MW-43	0148011	Liquid	02/09/93	02/10/93
MW-44	0148012	Liquid	02/09/93	02/10/93
MW-46	0148013	Liquid	02/09/93	02/10/93
MW-35	0148014	Liquid	02/09/93	02/10/93
MW-42	0148015	Liquid	02/09/93	02/10/93
MHW-2	0148016	Liquid	02/09/93	02/10/93
REPLICATE MW-45	0148017	Liquid	02/09/93	02/10/93
MW-1	0148018	Liquid	02/09/93	02/10/93
MW-23	0148019	Liquid	02/09/93	02/10/93
MW-47	0148020	Liquid	02/09/93	02/10/93

30930-0148
ROUX ASSOCIATES
PROJECT SUMMARY

The client requested the samples be analyzed for the parameters listed in Table 1.0.

METHODOLOGY

Volatile organics were determined using purge and trap GC/MS. The instrumentation used was a Tekmar Dynamic Headspace Concentrator interfaced with a Hewlett-Packard Model 5995 GC/MS/DS.

Semi-volatile organics were determined using capillary GC/MS. The instrumentation used was a Hewlett-Packard Model 5890 gas chromatograph interfaced with Model 5970/5971 Mass Selective Detector.

Polychlorinated biphenyls (PCB's) were determined using GC/ECD. The instrumentation used was a HP Model 5890 gas chromatograph equipped with an electron capture detector (Ni^{63}).

Metals were determined by ICP using either a JA61 simultaneous ICAP or a PE6500-XR sequential ICP. Graphite furnace elements were determined using either a PEZ5100 or a PEZ3030 GFAAS. Mercury was determined by the cold vapor technique utilizing the Spectro Products Model HG-4 mercury analyzer.

The analyses were conducted according to NYSDEC '89 ASP Protocols.

DISCUSSION

Volatile Organics - No problems were encountered.

Semi-Volatile Organics - No problems were encountered.

PCB's - Sample MW-27 required sulfur cleanup; samples MHW-1, MW-35, MHW-2 and method blank PBLK06 required acid and sulfur cleanup.

Sample MHW-7 was diluted 1:5.

DBC recovery was out of advisory QC limits for samples MHW-7, MW-47, MW-45 STD and method blank PBLK00.

Aroclor-1248 was out of RT windows on the confirmation run (column RTX-35) in sample MHW-7, but in the analyst's opinion, it is present.

Aroclor-1260 was out of RT windows on the confirmation run (column RTX-35) in sample MW-1, but in the analyst's opinion, it is present.

DDT linearity on confirmation runs 0308GC1B and D309GC1B was greater than 10 percent, however no calculations were done from this run.

The following standard did not meet NYSDEC '89 criteria:

Date	Time	GC #	Standard	Comments
03/09/93	06:04	GC1B	Ind B	Endrin ketone out of required criteria, C_f >20% difference

The client's samples, before this affected standard, were run for PCB's only. Since the samples had been run primary twice, some samples required previous reruns due to cleanups or continuing standards out of criteria. Only enough extract remained to run the samples once on the confirmation run. The ending PCB's following the ending pesticide mixes were within continuing standard criteria.

Due to high levels of Aroclors, samples MW-36 and MHS-3 required a dilution.

The surrogates were diluted out for all samples with a dilution factor of 100 or higher.

Due to the sample matrix, TCX percent recovery could not be determined in samples MW-36, MW-36 MS and MW-36 MSD.

DCB was below advisory QC limits in method blank PBLK05 on column 2 and in sample MW-36 MS on column 1.

Due to matrix interference, TCX was above advisory QC limits in sample MW-36 DL on both columns.

DCB was above advisory QC limits in sample MW-36 DL on column 1 and in samples MW-36 MS and MW-36 MSD on column 2.

Due to the matrix interference in samples MW-36, MW-36 MS and MW-36 MSD, two different sets of peaks were chosen for column RTX-35 for the calculation of Aroclor-1260. Two separate Form 6F's have been submitted. The second peak was out of RT windows on column RTX-35 for Aroclor-1260 in samples MW-36 and MW-36 MSD.

Metals - IEC's are electronically employed by the TJA ICAP-61. However, the ICSA is utilized as a monitoring device to detect any additional adjustments that may be required. These modifications are calculated and applied manually. They are so noted in the raw data.

No problems were encountered.

RESULTS

The results are presented in the following Tables. Also enclosed are the data packages containing all relevant data.

TABLE 1.0
30930-0148
ROUX ASSOCIATES
ANALYTICAL REQUESTS

Sample Identification	Requested Parameters
MHW-5, MHW-3, MHW-7, MHW-6, MHS-3, FB 020893, MW-36, MW-27	PCB's
MW-45, MHW-1, MW-43, MW-44, MW-46, MW-35, MHW-2, REPLICATE, MW-47	TCL volatile organics plus a library search for non-target compounds, TCL semi-volatile organics plus a library search for non-target compounds, PCB's, TAL metals
MW-42	TCL volatile organics plus a library search for non-target compounds, TCL semi-volatile organics plus a library search for non-target compounds
MW-1	PCB's, TAL metals
MW-23	TCL volatile organics plus a library search for non-target compounds, semi-volatile organics plus a library search for non-target compounds, PCB's

TABLE 2.0
30930-0148
ROUX ASSOCIATES
EPA TCL VOLATILE ORGANICS

Aqueous

All values are ug/L.

	Sample Identification							
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Method Blank I.D.	VBLKGI	VBLKGI	VBLKGI	VBLKGI	VBLKGI	VBLKGI	VBLKGI	
Compound	Method Blank	MW-45	MHW-1	MW-43	MW-44	MW-46	MW-35	Quantitation Limits with no Dilution
Chloromethane	U	U	U	U	U	U	U	10
Bromomethane	U	U	U	U	U	U	U	10
Vinyl Chloride	U	U	U	U	U	U	U	10
Chloroethane	U	U	U	U	U	U	U	10
Methylene Chloride	1J	U	U	U	U	U	U	10
Acetone	17	10B	6JB	10B	10B	4JB	7JB	10
Carbon Disulfide	U	U	U	U	U	U	U	10
1,1-Dichloroethene	U	U	U	U	U	U	U	10
1,1-Dichloroethane	U	U	U	U	U	U	U	10
1,2-Dichloroethene (total)	U	U	U	2J	46	U	U	10
Chloroform	U	U	1J	U	U	U	U	10
1,2-Dichloroethane	U	U	U	U	U	U	U	10
2-Butanone	10	U	U	U	U	U	U	10
1,1,1-Trichloroethane	U	2J	6J	U	U	U	U	10
Carbon Tetrachloride	U	U	U	U	U	U	U	10
Bromodichloromethane	U	U	U	U	U	U	U	10
1,2-Dichloropropane	U	U	U	U	U	U	U	10
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	10
Trichloroethene	U	U	U	11	75	U	U	10
Dibromochloromethane	U	U	U	U	U	U	U	10
1,1,2-Trichloroethane	U	U	U	U	U	U	U	10
Benzene	U	U	6J	U	U	U	U	10
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	10
Bromoform	U	U	U	U	U	U	U	10
4-Methyl-2-pentanone	4J	U	6JB	U	4JB	U	U	10
2-Hexanone	6J	U	U	U	3JB	U	U	10
Tetrachloroethene	U	U	U	U	U	U	U	10
1,1,2,2-Tetrachloroethane	U	U	U	U	2J	U	U	10
Toluene	U	U	8J	U	U	U	U	10
Chlorobenzene	U	U	U	U	U	U	U	10
Ethylbenzene	U	U	3J	U	U	U	U	10
Styrene	U	U	U	U	U	U	U	10
Xylene (total)	U	U	51	U	U	U	U	10

U, J, B - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

Aqueous

TABLE 2.1
30930-0148
ROUX ASSOCIATES
EPA TCL VOLATILE ORGANICS

All values are ug/L.

	Sample Identification						
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	
Method Blank I.D.	VBLKGI	VBLKGI	VBLKGI	VBLKGI	VBLKGI	VBLKGI	
Compound	Method Blank	MW-42	MHW-2	REPLICATE	MW-23	MW-47	Quantitation Limits with no Dilution
Chloromethane	U	U	U	U	U	U	10
Bromomethane	U	U	U	U	U	U	10
Vinyl Chloride	U	U	U	U	U	U	10
Chloroethane	U	U	U	U	U	U	10
Methylene Chloride	1J	U	U	U	U	U	10
Acetone	17	U	9JB	U	3JB	4JB	10
Carbon Disulfide	U	U	U	U	U	U	10
1,1-Dichloroethene	U	U	U	U	U	U	10
1,1-Dichloroethane	U	U	U	U	2J	U	10
1,2-Dichloroethene (total)	U	U	U	U	U	U	10
Chloroform	U	U	5J	U	U	U	10
1,2-Dichloroethane	U	U	U	U	U	U	10
2-Butanone	10	U	U	U	U	U	10
1,1,1-Trichloroethane	U	U	U	1J	U	U	10
Carbon Tetrachloride	U	U	U	U	U	U	10
Bromodichloromethane	U	U	U	U	U	U	10
1,2-Dichloropropane	U	U	U	U	U	U	10
cis-1,3-Dichloropropene	U	U	U	U	U	U	10
Trichloroethene	U	U	U	U	U	U	10
Dibromochloromethane	U	U	U	U	U	U	10
1,1,2-Trichloroethane	U	U	U	U	U	U	10
Benzene	U	U	U	U	U	U	10
trans-1,3-Dichloropropene	U	U	U	U	U	U	10
Bromoform	U	U	U	U	U	U	10
4-Methyl-2-pentanone	4J	U	U	U	U	U	10
2-Hexanone	6J	U	U	U	U	U	10
Tetrachloroethene	U	U	U	U	U	U	10
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	10
Toluene	U	U	U	U	U	U	10
Chlorobenzene	U	U	U	U	U	U	10
Ethylbenzene	U	U	U	U	U	U	10
Styrene	U	U	U	U	U	U	10
Xylene (total)	U	U	U	U	1J	U	10

U, J, B - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

Aqueous

TABLE 2.2
30930-0148
ROUX ASSOCIATES
EPA TCL VOLATILE ORGANICS

All values are ug/L.

	Sample Identification			
Dilution Factor	1.0	1.0	1.0	
Method Blank I.D.	VBLKGK	VBLKGK	VBLKGK	
Compound	Method Blank	MW-45 MS	MW-45 MSD	Quantitation Limits with no Dilution
Chloromethane	U	U	U	10
Bromomethane	U	U	U	10
Vinyl Chloride	U	U	U	10
Chloroethane	U	U	U	10
Methylene Chloride	2J	U	U	10
Acetone	7J	U	U	10
Carbon Disulfide	U	U	U	10
1,1-Dichloroethene	U	47	48	10
1,1-Dichloroethane	U	U	U	10
1,2-Dichloroethene (total)	U	U	U	10
Chloroform	U	U	U	10
1,2-Dichloroethane	U	U	U	10
2-Butanone	U	U	U	10
1,1,1-Trichloroethane	U	1J	U	10
Carbon Tetrachloride	U	U	U	10
Bromodichloromethane	U	U	U	10
1,2-Dichloropropane	U	U	U	10
cis-1,3-Dichloropropene	U	U	U	10
Trichloroethene	U	56	56	10
Dibromochloromethane	U	U	U	10
1,1,2-Trichloroethane	U	U	U	10
Benzene	U	48	48	10
trans-1,3-Dichloropropene	U	U	U	10
Bromoform	U	U	U	10
4-Methyl-2-pentanone	U	U	U	10
2-Hexanone	U	U	U	10
Tetrachloroethene	U	U	U	10
1,1,2,2-Tetrachloroethane	U	U	U	10
Toluene	U	53	50	10
Chlorobenzene	U	50	48	10
Ethylbenzene	U	U	U	10
Styrene	U	U	U	10
Xylene (total)	U	U	U	10

U, J - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 3.0
30930-0148
ROUX ASSOCIATES
VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: Method Blank VBLKGI

CAS#	Compound	RT	Estimated Concentration, ug/L
	None detected		

Sample Identification: MW-45

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown siloxane	18.59	11J

Sample Identification: MHW-1

CAS#	Compound	RT	Estimated Concentration, ug/L
1634-04-4	Tert-butylmethyl ether	8.43	180JN
	Unknown C_3 alkylbenzene	23.45	33J
	Unknown C_3 alkylbenzene	24.16	30J
	Unknown indene	25.19	21J
	Unknown C_3 alkylbenzene	24.86	18J
	Unknown C_3 alkylbenzene	23.92	18J
	Unknown C_3 alkylbenzene	23.56	16J
	Unknown C_4 alkylbenzene	25.82	11J
	Unknown C_4 alkylbenzene	25.27	9J
	Unknown	8.02	8J

Sample Identification: MW-43

CAS#	Compound	RT	Estimated Concentration, ug/L
556672	Cyclotetrasiloxane, octamethyl	23.15	23JN
	Unknown siloxane	25.91	16J

J, N - See Appendix for definition.

TABLE 3.1
30930-0148
ROUX ASSOCIATES
VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: MW-44

CAS#	Compound	RT	Estimated Concentration, ug/L
556672	Cyclotetrasiloxane, octamethyl	23.15	12JN
	Unknown siloxane	25.92	7J

Sample Identification: MW-46

CAS#	Compound	RT	Estimated Concentration, ug/L
556672	Cyclotetrasiloxane, octamethyl	23.15	140JN
	Unknown siloxane	25.92	110J
541059	Cyclotrisiloxane, hexamethyl	18.57	22JN

Sample Identification: MW-35

CAS#	Compound	RT	Estimated Concentration, ug/L
556672	Cyclotetrasiloxane, octamethyl	23.12	210JN
	Unknown siloxane	25.89	160J
541059	Cyclotrisiloxane, hexamethyl	18.51	28JN
	Unknown siloxane	24.37	14J
	Unknown alkylbenzene	25.17	6J

Sample Identification: MW-42

CAS#	Compound	RT	Estimated Concentration, ug/L
556672	Cyclotetrasiloxane, octamethyl	23.19	280JN
	Unknown siloxane	25.93	200J
	Unknown siloxane	24.44	45J
541059	Cyclotrisiloxane, hexamethyl	18.61	44JN
	Unknown alkylbenzene	25.21	9J
	Unknown isomer 1H-indene, 2,3-dimethyl	25.43	9J
	Unknown alkane	24.99	7J

J, N - See Appendix for definition.

TABLE 3.2
30930-0148
ROUX ASSOCIATES
VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: MHW-2

CAS#	Compound	RT	Estimated Concentration, ug/L
556672	Cyclotetrasiloxane, octamethyl	23.15	46JN
	Unknown siloxane	25.91	11J
	Unknown siloxane	24.45	10J

Sample Identification: REPLICATE

CAS#	Compound	RT	Estimated Concentration, ug/L
556672	Cyclotetrasiloxane, octamethyl	23.19	32JN
541059	Cyclotrisiloxane, hexamethyl	18.63	23JN
	Unknown PAH	24.68	6J

Sample Identification: MW-23

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown indene	25.21	24J
	Unknown C_4 alkylbenzene	26.51	22J
	Unknown C_4 alkylbenzene	26.43	18J
	Unknown indene	26.07	18J
556672	Cyclotetrasiloxane, octamethyl	23.17	16JN
	Unknown C_4 alkylbenzene	25.85	12J
	Unknown C_4 alkylbenzene	25.71	11J
	Unknown siloxane	25.93	9J
	Unknown alkylbenzene	26.18	5J

J, N - See Appendix for definition.

TABLE 3.3
30930-0148
ROUX ASSOCIATES
VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: MW-47

CAS#	Compound	RT	Estimated Concentration, ug/L
556672	Cyclotetrasiloxane, octamethyl	23.22	21JN
	Unknown PAH	26.48	21J
	Unknown siloxane	25.99	19J
	Unknown indene	24.82	16J
	Unknown indene	21.18	11J
	Unknown indene	25.54	10J
	Unknown alkylbenzene	20.15	9J
	Unknown indene	24.16	9J
	Unknown alkylbenzene	25.29	8J
	Unknown PAH	22.72	7J

Sample Identification: Method Blank VBLKGK

CAS#	Compound	RT	Estimated Concentration, ug/L
	None detected		

J, N - See Appendix for definition.

TABLE 4.0
30930-0148
ROUX ASSOCIATES
EPA TCL SEMI-VOLATILE ORGANICS

All values are ug/L.

	Sample Identification						
Dilution Factor	1.0	1.02	1.02	1.02	1.0	1.02	
Method Blank I.D.	SBLK86	SBLK86	SBLK86	SBLK86	SBLK86	SBLK86	
Compound	Method Blank	MW-45	MW-45 MS	MW-45 MSD	MHW-1	MW-43	Quantitation Limits with no Dilution
Phenol	U	U	38	42	U	U	10
bis(2-Chloroethyl)ether	U	U	U	U	U	U	10
2-Chlorophenol	U	U	40	44	U	U	10
1,3-Dichlorobenzene	U	U	U	U	U	U	10
1,4-Dichlorobenzene	U	U	31	32	U	U	10
1,2-Dichlorobenzene	U	U	U	U	U	U	10
2-Methylphenol	U	U	U	U	U	U	10
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	10
4-Methylphenol	U	U	U	U	U	U	10
N-Nitroso-di-n-propylamine	U	U	37	35	U	U	10
Hexachloroethane	U	U	U	U	U	U	10
Nitrobenzene	U	U	U	U	U	U	10
Isophorone	U	U	U	U	U	U	10
2-Nitrophenol	U	U	U	U	U	U	10
2,4-Dimethylphenol	U	U	U	U	U	U	10
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	10
2,4-Dichlorophenol	U	U	U	U	U	U	10
1,2,4-Trichlorobenzene	U	U	34	33	U	U	10
Naphthalene	U	U	U	U	2J	U	10
4-Chloroaniline	U	U	U	U	U	U	10
Hexachlorobutadiene	U	U	U	U	U	U	10
4-Chloro-3-methylphenol	U	U	46	49	U	U	10
2-Methylnaphthalene	U	U	U	U	1J	U	10
Hexachlorocyclopentadiene	U	U	U	U	U	U	10
2,4,6-Trichlorophenol	U	U	U	U	U	U	10
2,4,5-Trichlorophenol	U	U	U	U	U	U	25
2-Chloronaphthalene	U	U	U	U	U	U	10
2-Nitroaniline	U	U	U	U	U	U	25
Dimethylphthalate	U	U	U	U	U	U	10
Acenaphthylene	U	U	U	U	U	U	10
2,6-Dinitrotoluene	U	U	U	U	U	U	10
3-Nitroaniline	U	U	U	U	U	U	25
Acenaphthene	U	U	28	29	U	U	10

U, J - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 4.0
30930-0148
ROUX ASSOCIATES
EPA TCL SEMI-VOLATILE ORGANICS

All values are ug/L.

	Sample Identification						
Dilution Factor	1.0	1.02	1.02	1.02	1.0	1.02	
Method Blank I.D.	SBLK86	SBLK86	SBLK86	SBLK86	SBLK86	SBLK86	
Compound	Method Blank	MW-45	MW-45 MS	MW-45 MSD	MHW-1	MW-43	Quantitation Limits with no Dilution
2,4-Dinitrophenol	U	U	U	U	U	U	25
4-Nitrophenol	U	U	80	56	U	U	25
Dibenzofuran	U	U	U	U	U	U	10
2,4-Dinitrotoluene	U	U	43	38	U	U	10
Diethylphthalate	U	U	U	U	U	U	10
4-Chlorophenyl-phenylether	U	U	U	U	U	U	10
Fluorene	U	U	U	U	U	U	10
4-Nitroaniline	U	U	U	U	U	U	25
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	25
N-Nitrosodiphenylamine (1)	U	U	U	U	U	U	10
4-Bromophenyl-phenylether	U	U	U	U	U	U	10
Hexachlorobenzene	U	U	U	U	U	U	10
Pentachlorophenol	U	U	51	54	U	U	25
Phenanthrene	U	U	U	U	U	U	10
Anthracene	U	U	U	U	U	U	10
Carbazole	U	U	U	U	U	U	10
Di-n-butylphthalate	0.6J	U	0.4JB	0.4JB	U	0.6JB	10
Fluoranthene	U	U	U	U	U	U	10
Pyrene	U	U	20	22	U	U	10
Butylbenzylphthalate	U	U	U	U	U	U	10
3,3'-Dichlorobenzidine	U	U	U	U	U	U	10
Benzo(a)anthracene	U	U	U	U	U	U	10
Chrysene	U	U	U	U	U	U	10
bis(2-Ethylhexyl)phthalate	2J	0.5JB	0.6JB	2JB	1JB	0.5JB	10
Di-n-octylphthalate	U	U	U	U	U	U	10
Benzo(b)fluoranthene	U	U	U	U	U	U	10
Benzo(k)fluoranthene	U	U	U	U	U	U	10
Benzo(a)pyrene	U	U	U	U	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	U	10
Dibenzo(a,h)anthracene	U	U	U	U	U	U	10
Benzo(g,h,i)perylene	U	U	U	U	U	U	10

U, J, B, (1) - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 4.1
30930-0148
ROUX ASSOCIATES
EPA TCL SEMI-VOLATILE ORGANICS

All values are ug/L.

	Sample Identification					
Dilution Factor	1.0	1.02	1.0	1.0	1.0	
Method Blank I.D.	SBLK86	SBLK86	SBLK86	SBLK86	SBLK86	
Compound	Method Blank	MW-44	MW-46	MW-35	MW-42	Quantitation Limits with no Dilution
Phenol	U	U	U	U	U	10
bis(2-Chloroethyl)ether	U	U	U	U	U	10
2-Chlorophenol	U	U	U	U	U	10
1,3-Dichlorobenzene	U	U	U	U	U	10
1,4-Dichlorobenzene	U	U	U	U	U	10
1,2-Dichlorobenzene	U	U	U	U	U	10
2-Methylphenol	U	U	U	U	U	10
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	10
4-Methylphenol	U	U	U	U	U	10
N-Nitroso-di-n-propylamine	U	U	U	U	U	10
Hexachloroethane	U	U	U	U	U	10
Nitrobenzene	U	U	U	U	U	10
Isophorone	U	U	U	U	U	10
2-Nitrophenol	U	U	U	U	U	10
2,4-Dimethylphenol	U	U	U	U	U	10
bis(2-Chloroethoxy)methane	U	U	U	U	U	10
2,4-Dichlorophenol	U	U	U	U	U	10
1,2,4-Trichlorobenzene	U	U	U	U	U	10
Naphthalene	U	U	U	U	U	10
4-Chloroaniline	U	U	U	U	U	10
Hexachlorobutadiene	U	U	U	U	U	10
4-Chloro-3-methylphenol	U	U	U	U	U	10
2-Methylnaphthalene	U	U	U	5J	U	10
Hexachlorocyclopentadiene	U	U	U	U	U	10
2,4,6-Trichlorophenol	U	U	U	U	U	10
2,4,5-Trichlorophenol	U	U	U	U	U	25
2-Chloronaphthalene	U	U	U	U	U	10
2-Nitroaniline	U	U	U	U	U	25
Dimethylphthalate	U	U	U	U	U	10
Acenaphthylene	U	U	U	U	U	10
2,6-Dinitrotoluene	U	U	U	U	U	10
3-Nitroaniline	U	U	U	U	U	25
Acenaphthene	U	U	U	2J	U	10

U, J - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 4.1
30930-0148
ROUX ASSOCIATES
EPA TCL SEMI-VOLATILE ORGANICS

All values are ug/L.

	Sample Identification					
Dilution Factor	1.0	1.02	1.0	1.0	1.0	
Method Blank I.D.	SBLK86	SBLK86	SBLK86	SBLK86	SBLK86	
Compound	Method Blank	MW-44	MW-46	MW-35	MW-42	Quantitation Limits with no Dilution
2,4-Dinitrophenol	U	U	U	U	U	25
4-Nitrophenol	U	U	U	U	U	25
Dibenzofuran	U	U	U	U	U	10
2,4-Dinitrotoluene	U	U	U	U	U	10
Diethylphthalate	U	U	U	U	U	10
4-Chlorophenyl-phenylether	U	U	U	U	U	10
Fluorene	U	U	U	U	U	10
4-Nitroaniline	U	U	U	U	U	25
4,6-Dinitro-2-methylphenol	U	U	U	U	U	25
N-Nitrosodiphenylamine (1)	U	U	U	U	U	10
4-Bromophenyl-phenylether	U	U	U	U	U	10
Hexachlorobenzene	U	U	U	U	U	10
Pentachlorophenol	U	U	U	U	U	25
Phenanthrene	U	U	U	U	U	10
Anthracene	U	U	U	1J	U	10
Carbazole	U	U	U	U	U	10
Di-n-butylphthalate	0.6J	0.6JB	0.5JB	0.8JB	U	10
Fluoranthene	U	U	U	1J	U	10
Pyrene	U	U	U	0.9J	U	10
Butylbenzylphthalate	U	U	U	U	U	10
3,3'-Dichlorobenzidine	U	U	U	U	U	10
Benzo(a)anthracene	U	U	U	U	U	10
Chrysene	U	U	U	U	U	10
bis(2-Ethylhexyl)phthalate	2J	0.5JB	U	0.7JB	0.7JB	10
Di-n-octylphthalate	U	U	U	U	U	10
Benzo(b)fluoranthene	U	U	U	U	U	10
Benzo(k)fluoranthene	U	U	U	U	U	10
Benzo(a)pyrene	U	U	U	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	10
Dibenzo(a,h)anthracene	U	U	U	U	U	10
Benzo(g,h,i)perylene	U	U	U	U	U	10

U, J, B, (1) - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 4.2
30930-0148
ROUX ASSOCIATES
EPA TCL SEMI-VOLATILE ORGANICS

All values are ug/L.

	Sample Identification					
Dilution Factor	1.0	1.02	1.02	1.0	1.02	
Method Blank I.D.	SBLK86	SBLK86	SBLK86	SBLK86	SBLK86	
Compound	Method Blank	MHW-2	REPLICATE	MW-23	MW-47	Quantitation Limits with no Dilution
Phenol	U	U	U	U	U	10
bis(2-Chloroethyl)ether	U	U	U	U	U	10
2-Chlorophenol	U	U	U	U	U	10
1,3-Dichlorobenzene	U	U	U	U	U	10
1,4-Dichlorobenzene	U	U	U	U	U	10
1,2-Dichlorobenzene	U	U	U	U	U	10
2-Methylphenol	U	U	U	U	U	10
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	10
4-Methylphenol	U	U	U	U	U	10
N-Nitroso-di-n-propylamine	U	U	U	U	U	10
Hexachloroethane	U	U	U	U	U	10
Nitrobenzene	U	U	U	U	U	10
Isophorone	U	U	U	U	U	10
2-Nitrophenol	U	U	U	U	U	10
2,4-Dimethylphenol	U	U	U	U	U	10
bis(2-Chloroethoxy)methane	U	U	U	U	U	10
2,4-Dichlorophenol	U	U	U	U	U	10
1,2,4-Trichlorobenzene	U	1J	U	U	U	10
Naphthalene	U	0.7J	U	U	U	10
4-Chloroaniline	U	U	U	U	U	10
Hexachlorobutadiene	U	U	U	U	U	10
4-Chloro-3-methylphenol	U	U	U	U	U	10
2-Methylnaphthalene	U	U	U	23	U	10
Hexachlorocyclopentadiene	U	U	U	U	U	10
2,4,6-Trichlorophenol	U	U	U	U	U	10
2,4,5-Trichlorophenol	U	U	U	U	U	25
2-Chloronaphthalene	U	U	U	U	U	10
2-Nitroaniline	U	U	U	U	U	25
Dimethylphthalate	U	U	U	U	U	10
Acenaphthylene	U	U	U	U	U	10
2,6-Dinitrotoluene	U	U	U	U	U	10
3-Nitroaniline	U	U	U	U	U	25
Acenaphthene	U	U	U	4J	U	10

U, J - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 4.2
30930-0148
ROUX ASSOCIATES
EPA TCL SEMI-VOLATILE ORGANICS

All values are ug/L.

	Sample Identification					
Dilution Factor	1.0	1.02	1.02	1.0	1.02	
Method Blank I.D.	SBLK86	SBLK86	SBLK86	SBLK86	SBLK86	
Compound	Method Blank	MHW-2	REPLICATE	MW-23	MW-47	Quantitation Limits with no Dilution
2,4-Dinitrophenol	U	U	U	U	U	25
4-Nitrophenol	U	U	U	U	U	25
Dibenzofuran	U	0.9J	U	4J	U	10
2,4-Dinitrotoluene	U	U	U	U	U	10
Diethylphthalate	U	0.8J	U	U	U	10
4-Chlorophenyl-phenylether	U	U	U	U	U	10
Fluorene	U	U	U	U	U	10
4-Nitroaniline	U	U	U	U	U	25
4,6-Dinitro-2-methylphenol	U	U	U	U	U	25
N-Nitrosodiphenylamine (1)	U	U	U	U	U	10
4-Bromophenyl-phenylether	U	U	U	U	U	10
Hexachlorobenzene	U	U	U	U	U	10
Pentachlorophenol	U	U	U	U	U	25
Phenanthrene	U	7J	U	2J	U	10
Anthracene	U	2J	U	U	U	10
Carbazole	U	U	U	6J	U	10
Di-n-butylphthalate	0.6J	0.9JB	0.7JB	U	U	10
Fluoranthene	U	16	U	U	U	10
Pyrene	U	10J	U	U	U	10
Butylbenzylphthalate	U	1J	U	U	U	10
3,3'-Dichlorobenzidine	U	U	U	U	U	10
Benzo(a)anthracene	U	3J	U	U	U	10
Chrysene	U	7J	U	U	U	10
bis(2-Ethylhexyl)phthalate	2J	4JB	1JB	2JB	0.8JB	10
Di-n-octylphthalate	U	U	U	U	U	10
Benzo(b)fluoranthene	U	4J	U	U	U	10
Benzo(k)fluoranthene	U	U	U	U	U	10
Benzo(a)pyrene	U	U	U	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	10
Dibenzo(a,h)anthracene	U	U	U	U	U	10
Benzo(g,h,i)perylene	U	U	U	U	U	10

U, J, B, (1) - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 5.0
30930-0148
ROUX ASSOCIATES
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: Method Blank SBLK86

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown	8.67	8J
	Aldol condensation product	8.26	3JA
	Unknown	9.42	3J
	Unknown	15.23	2J

Sample Identification: MW-45

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown	36.72	120J
	Unknown	32.22	88J
	Unknown	29.23	68J
	Unknown	44.16	67J
	Unknown	26.55	58J
	Unknown	23.48	38J
	Unknown	37.42	34J
	Unknown	32.60	28J
	Unknown	29.45	20J
	Unknown	19.92	16J
	Unknown	26.71	12J
124072	Octanoic acid	14.95	11J
	Unknown	45.42	9J
	Unknown	8.68	7JB
	Unknown	17.46	5J
	Unknown	23.60	5J
	Unknown	9.42	4JB
	Unknown	17.92	4J
	Aldol condensation product	8.27	4JAB
112356	Ethanol,2[2-(2-methoxyethoxy)eth...	15.69	3JN
	Unknown	39.73	2J

J, A, B - See Appendix for definition.

TABLE 5.1
30930-0148
ROUX ASSOCIATES
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: MHW-1

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown	27.38	80J
	Unknown acid	25.47	64J
	Unknown acid	27.54	34J
	Unknown	9.06	27J
	Unknown	5.20	20J
	Unknown	29.45	20J
	Unknown	26.51	15J
	Unknown acid	20.70	14J
	Unknown	29.18	7J
	Unknown	32.11	6J
	Unknown	42.45	6J
	Unknown acid	23.13	5J
	Unknown	36.52	5J
	Unknown	23.45	5J
	Unknown	16.44	4J
	Unknown	43.71	4J
	Unknown	22.82	3J
	Unknown	26.68	3J
	Unknown (MW=118)	12.64	3J
	Unknown	8.70	3JB
	Aldol condensation product	8.29	3JAB

Sample Identification: MW-43

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown	36.74	59J
	Unknown	32.24	58J
	Unknown	26.56	45J
	Unknown	29.25	43J
	Unknown	23.51	27J
	Unknown	44.18	27J
	Unknown	39.89	20J
	Unknown	32.66	20J
	Unknown	49.61	20J
	Unknown	37.47	18J
	Unknown	29.49	17J
	Unknown	34.21	14J

J, A, B - See Appendix for definition.

TABLE 5.2
30930-0148
ROUX ASSOCIATES
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: MW-43 (continued)

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown	19.94	13J
	Unknown	37.98	11J
	Unknown	26.74	11J
	Unknown	46.32	9J
	Unknown	30.66	9J
	Unknown	5.21	6J
	Unknown	33.06	5J
	Aldol condensation product	8.30	4JAB
	Unknown	23.29	4J

Sample Identification: MW-44

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown	32.17	36J
	Unknown	29.21	34J
	Unknown	26.53	30J
	Unknown	36.61	23J
	Unknown	23.48	17J
	Unknown	44.00	8J
	Unknown	19.94	7J
	Unknown	32.55	6J
	Unknown	29.42	6J
	Unknown benzenediol	16.90	6J
	Aldol condensation product	8.31	4JAB
	Unknown	8.71	4JB
	Unknown	26.70	4J
	Unknown acid	20.66	3J
	Unknown	14.90	2J

J, A, B - See Appendix for definition.

TABLE 5.3
30930-0148
ROUX ASSOCIATES
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: MW-46

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown	8.71	7JB
	Unknown	17.68	7J
	Unknown cyclohexen-1-ol	9.45	4J
	Unknown	10.45	3J
	Unknown	14.42	3J
403190	2-Fluoro-4-nitrophenol	14.74	3JN
	Unknown	15.85	3J
	Aldol condensation product	8.30	3JAB
	Unknown	23.47	3J
115968	Ethanol,2-chloro-,phosphate	23.36	2JN

Sample Identification: MW-35

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown dimethyl-naphthalene	19.53	6J
	Unknown	20.94	5J
	Unknown	18.56	4J
	Unknown (MW=162)	19.10	4J
	Unknown	15.98	4J
	Unknown benzo[b]thiophene-methyl-	17.02	4J
	Unknown	15.15	3J
	Unknown	15.38	3J
	Aldol condensation product	8.16	3JAB
	Unknown $C_{10}H_{14}$	12.84	3J
	Unknown	13.23	3J
	Unknown C_4 alkylbenzene	13.99	3J
	Unknown	14.51	3J
	Unknown $C_{10}H_{14}$	14.65	3J
	Unknown	21.06	3J
	Unknown	33.78	3J
	Unknown	15.85	2J
	Unknown	14.76	2J
	Unknown	16.50	2J
	Unknown	13.81	2J
	Unknown	8.57	2JB

J, A, B, N - See Appendix for definition.

TABLE 5.4
30930-0148
ROUX ASSOCIATES
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: MW-42

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown	32.04	110J
	Unknown	36.43	100J
	Unknown	29.11	89J
	Unknown	26.43	76J
	Unknown	43.68	54J
	Unknown	23.37	46J
	Unknown	32.42	33J
	Unknown	37.12	25J
	Unknown	29.32	25J
	Unknown	19.81	20J
	Unknown	26.60	16J
	Unknown	39.43	9J
	Unknown	48.82	9J
	Unknown	33.92	5J
	Unknown	23.49	5J
	Unknown	15.60	4J
	Unknown	33.76	4J
	Aldol condensation product	8.17	4JAB
	Unknown	8.57	4JB
	Unknown	30.48	3J
	Unknown	14.80	3J

Sample Identification: MHW-2

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown	19.53	8J
	Unknown acid	25.27	6J
	Unknown	8.57	6JB
	Unknown	25.45	5J
	Unknown	16.38	4J
	Unknown	17.37	4J
	Aldol condensation product	8.18	4JAB
	Unknown	13.13	3J
	Unknown	17.83	3J
	Unknown	14.80	3J
	Unknown acid	20.55	3J
	Unknown	23.71	3J

J, A, B - See Appendix for definition.

TABLE 5.5
30930-0148
ROUX ASSOCIATES
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: MHW-2 (continued)

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown	15.14	3J
	Unknown	11.38	3J
84651	9,10-Anthracenedione	25.99	3JN
	Unknown	27.31	3J
	Unknown	16.64	3J
	Unknown	29.54	3J
	Unknown	33.76	3J
	Unknown	22.35	2J
	Unknown	26.73	2J

Sample Identification: REPLICATE

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown	31.97	54J
	Unknown	29.07	45J
	Unknown	26.39	39J
	Unknown	36.30	39J
	Unknown	23.34	22J
	Unknown	43.53	17J
	Unknown	32.34	11J
	Unknown	29.28	9J
	Unknown	19.80	7J
	Unknown	8.58	6JB
	Unknown	37.00	6J
	Unknown	26.56	6J
	Aldol condensation product	8.17	4JAB
	Unknown	33.74	3J
	Unknown	22.12	3J
	Unknown acid	16.34	3J
	Unknown	23.47	3J
	Unknown acid	10.32	2J

J, A, B, N - See Appendix for definition.

TABLE 5.6
30930-0148
ROUX ASSOCIATES
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: MW-23

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown	31.82	46J
	Unknown dimethyl-naphthalene	19.00	21J
	Unknown $C_{11}H_{10}$	17.11	16J
	Unknown trimethyl-naphthalane	20.76	13J
	Unknown methyl-benzo[B]thiophene	17.01	12J
	Unknown $C_{10}H_{12}$	14.65	12J
	Unknown dimethyl-naphthalene	18.76	12J
	Unknown C_4 alkylbenzene	14.07	11J
	Unknown $C_{11}H_{14}$	15.45	11J
	Unknown dimethyl naphthalene	19.29	10J
	Unknown dimethyl naphthalene	19.53	10J
	Unknown	15.40	9J
	Unknown $C_{13}H_{12}$	21.51	9J
	Unknown C_3 alkylbenzene	12.52	9J
	Unknown C_4 alkylbenzene	13.99	8J
	Unknown $C_{10}H_{12}$	14.44	8J
	Unknown	16.80	7J
	Unknown	15.78	7J
	Unknown	28.99	6J
	Unknown	14.88	6J

Sample Identification: MW-47

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown	26.36	13J
	Unknown	29.04	13J
	Unknown	31.93	12J
	Unknown	23.32	6J
	Unknown	36.23	6J
	Unknown	32.34	5J
	Aldol condensation product	8.18	5JAB
	Unknown	33.75	4J
	Unknown	29.27	4J
	Unknown	8.57	3JB
	Unknown	26.55	3J
	Unknown	19.79	2J

J, A, B - See Appendix for definition.

Aqueous

TABLE 6.0
30930-0148
ROUX ASSOCIATES
POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/L.

	Sample Identification				
Dilution Factor	1.0	1.0	1.02	1.02	
Method Blank I.D.	PBLK06	PBLK06	PBLK06	PBLK06	
Compound	Method Blank	MHW-2	MW-35	MHW-1	Quantitation Limits with no Dilution
PCB - 1016	U	U	U	U	0.065
PCB - 1221	U	U	U	U	0.065
PCB - 1232	U	U	U	U	0.065
PCB - 1242	U	U	U	U	0.065
PCB - 1248	U	U	U	U	0.065
PCB - 1254	U	1.1	0.089	0.33	0.065
PCB - 1260	U	1.2	U	0.13	0.065

U - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

Aqueous

TABLE 6.1
30930-0148
ROUX ASSOCIATES
POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/L.

Sample Identification

Dilution Factor	1.0	1.02	1.02	1.02	1.0	1.0	
Method Blank I.D.	PBLK07	PBLK07	PBLK07	PBLK07	PBLK07	PBLK07	
Compound	Method Blank	MW-45	MW-43	MW-44	MW-46	MW-45 REPLICATE	Quantitation Limits with no Dilution
PCB - 1016	U	U	U	U	U	U	0.065
PCB - 1221	U	U	U	U	U	U	0.065
PCB - 1232	U	U	U	U	U	U	0.065
PCB - 1242	U	U	U	U	U	U	0.065
PCB - 1248	U	U	U	U	U	U	0.065
PCB - 1254	U	U	U	U	0.59	U	0.065
PCB - 1260	U	U	U	U	1.7	U	0.065

Sample Identification

Dilution Factor	1.02	1.01	1.02	1.0	1.0	
Method Blank I.D.	PBLK07	PBLK07	PBLK07	PBLK07	PBLK07	
Compound	MW-1	MW-23	MW-47	MW-45 MS	MW-45 MSD	Quantitation Limits with no Dilution
PCB - 1016	U	U	U	U	U	0.065
PCB - 1221	U	U	U	U	U	0.065
PCB - 1232	U	U	U	U	U	0.065
PCB - 1242	U	U	U	U	U	0.065
PCB - 1248	U	U	U	U	U	0.065
PCB - 1254	U	U	U	U	U	0.065
PCB - 1260	0.29	U	U	0.17X	0.21X	0.065

U, X - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 6.2
30930-0148
ROUX ASSOCIATES
POLYCHLORINATED BIPHENYLS (PCB's)

Aqueous

All values are ug/L.

	Sample Identification							
Dilution Factor	1.0	1.02	1.0	1.0	5.0	1.02	1.02	
Method Blank I.D.	PBLK00	PBLK00	PBLK00	PBLK00	PBLK00	PBLK00	PBLK00	
Compound	Method Blank	FB	MHW-5	MHW-3	MHW-7	MHW-6	MW-27	Quantitation Limits with no Dilution
PCB - 1016	U	U	U	U	U	U	U	0.065
PCB - 1221	U	U	U	U	U	U	U	0.065
PCB - 1232	U	U	U	U	U	U	U	0.065
PCB - 1242	U	U	U	U	U	U	U	0.065
PCB - 1248	U	U	U	U	2.6	U	U	0.065
PCB - 1254	U	U	U	0.32	5.9	0.48	U	0.065
PCB - 1260	U	0.20	U	0.31	6.3	0.33	U	0.065

U - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

Soil

TABLE 6.3
30930-0148
ROUX ASSOCIATES
POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/Kg.

	Sample Identification			
Dilution Factor	1.0	125.0	1,250.0	
Method Blank I.D.	PBLK02	PBLK02	PBLK02	
Compound	Method Blank	MHS-3	MHS-3 DL	Quantitation Limits with no Dilution
PCB - 1016	U	U	U	33
PCB - 1221	U	U	U	67
PCB - 1232	U	U	U	33
PCB - 1242	U	3,000JP	U	33
PCB - 1248	U	U	U	33
PCB - 1254	U	29,000P	38,000JD	33
PCB - 1260	U	22,000P	29,000JPD	33

U, J, P, D - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

Oil

TABLE 6.4
30930-0148
ROUX ASSOCIATES
POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/Kg.

	Sample Identification					
Dilution Factor	1.0	1.0	10.0	0.96	1.0	
Method Blank I.D.	PBLK05	PBLK05	PBLK05	PBLK05	PBLK05	
Compound	Method Blank	MW-36	MW-36 DL	MW-36 MS	MW-36 MSD	Quantitation Limits with no Dilution
PCB - 1016	U	U	U	U	U	1,000
PCB - 1221	U	U	U	U	U	2,000
PCB - 1232	U	U	U	U	U	1,000
PCB - 1242	U	U	U	U	U	1,000
PCB - 1248	U	U	U	U	U	1,000
PCB - 1254	U	U	U	U	U	1,000
PCB - 1260	U	14,000	14,000PD	15,000	15,000	1,000

U, P, D - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

APPENDIX/METALS DATA

C - Concentration qualifiers

U - Indicates analyte result less than instrument detection limit (IDL)

B - Indicates analyte result between IDL and contract required detection limit (CRDL)

Q - QC qualifiers

E - Reported value is estimated because of the presence of interference

M - Duplicate injection precision not met

N - Spiked sample recovery not within control limits

S - The reported value was determined by the method of standard additions (MSA)

W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance

* - Duplicate analysis not within control limit

+ - Correlation coefficient for MSA is less than 0.995

M - Method codes

P - ICP

A - Flame AA

F - Furnace AA

CV - Cold vapor AA (manual)

C - Cyanide

NR - Not Required

NC - Not Calculated as per protocols

IEA
An Aquarion Company

200 Monroe Turnpike
Monroe, Connecticut 06468

Phone 203·261·4458
Fax 203·268·5346

SAMPLE DATA SUMMARY PACKAGE

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK SUNNYSIDE
SDG#:	Z0148
IEA ID:	30930-0148

APPENDIX A
NYSDEC ANALYTICAL DATA FORMS

JOB # : 3093-0148

CLIENT NAME : ROUX ASSOCIATES

PROJECT ID : AMTRAK SUNNYSIDE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

JOB # : 3093-0148

CUSTOMER SAMPLE CODE	LABORATORY SAMPLE CODE	ANALYTICAL REQUIREMENTS*						
		*VOA GC/MS	*BNA GC/MS	*VOA GC	*PEST PCB	*METALS	*OTHER	*OTHER
MHW-5	0148001				X			
MHW-3	0148002				X			
MHW-7	0148003				X			
MHW-6	0148004				X			
MHS-3	0148005				X			
FIELD BLANK 02/08/93	0148006				X			
MW-36	0148007				X			
MW-27	0148008				X			
MW-45	0148009	X	X		X	X		
MHW-1	0148010	X	X		X	X		
MW-43	0148011	X	X		X	X		
MW-44	0148012	X	X		X	X		
MW-46	0148013	X	X		X	X		
MW-35	0148014	X	X		X	X		
MW-42	0148015	X	X					
MHW-2	0148016	X	X		X	X		
REPLICATE	0148017	X	X		X	X		
MW-1	0148018				X	X		
MW-23	0148019	X	X		X			
MW-47	0148020	X	X		X	X		

Check Appropriate Boxes

* CLP, Non-CLP
* HSL, Priority Pollutant

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOA - TCL + TIC's
ANALYSIS

JOB # : 3093-0149

SAMPLE ID	MATRIX	DATE COLLECTED	DATE RECVD AT LAB	DATE EXTRACTED	DATE ANALYZED
MW-45	Aqueous	02/09/93	02/10/93	NA	02/12/93
MMW-1	Aqueous		02/10/93		↓
MW-43	Aqueous		02/10/93		02/13/93
MW-44	Aqueous		02/10/93		
MW-46	Aqueous		02/10/93		
MW-35	Aqueous		02/10/93		
MW-42	Aqueous		02/10/93		
MMW-2	Aqueous		02/10/93		
REPLICATE	Aqueous		02/10/93		
MW-23	Aqueous		02/10/93		
MW-47	Aqueous	↓	02/10/93	↓	↓

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
B/N-A - TCL + TIC's
ANALYSIS

JOB # : 3093-0148

SAMPLE ID	MATRIX	DATE COLLECTED	DATE RECVD AT LAB	DATE EXTRACTED	DATE ANALYZED
MW-45	Aqueous	02/09/93	02/10/93	02/11/93	02/16/93
MHW-1	Aqueous		02/10/93		
MW-43	Aqueous		02/10/93		
MW-44	Aqueous		02/10/93		
MW-46	Aqueous		02/10/93		
MW-35	Aqueous		02/10/93		02/19/93
MW-42	Aqueous		02/10/93		
MHW-2	Aqueous		02/10/93		
REPLICATE	Aqueous		02/10/93		
MW-23	Aqueous		02/10/93		
MW-47	Aqueous		02/10/93		
mw-45ms					02/16/93
mw-45msd					
mw-45msb		NA			
QC CHECK STD					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

0005

SAMPLE PREPARATION AND ANALYSIS SUMMARY
B/N-A - TCL + TIC's
ORGANIC ANALYSIS

JOB # : 3093-0146

SAMPLE ID	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILARY CLEAN UP	DIL/CONC FACTOR
MW-45	Aqueous	NYSDEC'91	CONT	NONE	1.0
MMW-1	Aqueous				
MW-43	Aqueous				
MW-44	Aqueous				
MW-46	Aqueous				
MW-35	Aqueous				
MW-42	Aqueous				
MMW-2	Aqueous				
REPLICATE	Aqueous				
MW-23	Aqueous				
MW-47	Aqueous				
mw-45ms					
mw-45msd					
mw-45msb					
QC CHECK STD					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PCB
ORGANIC ANALYSIS

JOB # : 3093-0148

SAMPLE ID	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILARY CLEAN UP	DIL/CONC FACTOR
MHW-5	Aqueous	NYS89	SEPF	N	1.0
MHW-3	Aqueous	↓	↓	↓	↓
MHW-7	Aqueous				5
MHW-6	Aqueous		↓	↓	1.0
MHS-3	Soil	NYS91	SONIC	GPC & Florisil	↓
FIELD BLANK 02/08/93	Aqueous	NYS89	SEPF	N	
MW-36	OIL	NYS91	weighed out	N	
MW-27	Aqueous	NYS89	SEPF	SULFUR C/U	
MW-45	Aqueous	↓	↓	N	
MHW-1	Aqueous			ACID+SULFUR C/U	
MW-43	Aqueous			N	
MW-44	Aqueous			↓	
MW-46	Aqueous				
MW-35	Aqueous			ACID + SUL C/U	
MHW-2	Aqueous			ACID + SUL C/U	
REPLICATE	Aqueous			N	
MW-1	Aqueous			↓	
-23	Aqueous				
MW-47	Aqueous	↓	↓	↓	↓

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PCB
ANALYSIS

JOB # : 3093-0146

SAMPLE ID	MATRIX	DATE COLLECTED	DATE RECVD AT LAB	DATE EXTRACTED	DATE ANALYZED
MHW-5	Aqueous		02/09/93	02-10-93	03-02-93
MHW-3	Aqueous		02/09/93		03-02-93
MHW-7	Aqueous		02/09/93		03-02-93
MHW-6	Aqueous		02/09/93		03-02-93
MHS-3	Soil		02/09/93	2/11/93 ~~GLP 3/90~~	3/9/93
FIELD BLANK 02/08/93	Aqueous		02/09/93	02-10-93	03-02-93
MW-36	OIL		02/09/93	2/11/93 ~~3/90~~	3/10/93
MW-27	Aqueous		02/09/93	02-10-93	03-03-93
MW-45	Aqueous		02/10/93	02-11-93	03-02-93
MHW-1	Aqueous		02/10/93		03-03-93
MW-43	Aqueous		02/10/93		03-02-93
MW-44	Aqueous		02/10/93		03-02-93
MW-46	Aqueous		02/10/93		03-02-93
MW-35	Aqueous		02/10/93		03-09-93
MHW-2	Aqueous		02/10/93		03-09-93
REPLICATE	Aqueous		02/10/93		03-03-93
MW-1	Aqueous		02/10/93		03-09-93
MW-23	Aqueous		02/10/93		03-03-93
MW-47	Aqueous		02/10/93		03-03-93

~~REPLICATE~~ ~~V~~ ~~2/10/93~~ ~~02-11-93~~
03/11/93

3/11/93

0 0007

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

ICAP

SAMPLE ID	MATRIX	METALS REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
MW-40	Aqueous	TAL METALS	02/10/93	2/17/93	3/2/93
MW-41	Aqueous	TAL METALS	02/10/93		
MW-42	Aqueous	TAL METALS	02/10/93		
MW-44	Aqueous	TAL METALS	02/10/93		
MW-46	Aqueous	TAL METALS	02/10/93		
MW-35	Aqueous	TAL METALS	02/10/93		
MW-2	Aqueous	TAL METALS	02/10/93		
DUPLICATE	Aqueous	TAL METALS	02/10/93		
MW-1	Aqueous	TAL METALS	02/10/93		
MW-47	Aqueous	TAL METALS	02/10/93		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB # : 3093-0148

Furnace

SAMPLE ID	MATRIX	METALS REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
MW-45	Aqueous	TAL METALS	02/10/93	2/17/93	2/19-20 22/93
MHW-1	Aqueous	TAL METALS	02/10/93		
MW-43	Aqueous	TAL METALS	02/10/93		
MW-44	Aqueous	TAL METALS	02/10/93		
MW-46	Aqueous	TAL METALS	02/10/93		
MW-35	Aqueous	TAL METALS	02/10/93		
MHW-2	Aqueous	TAL METALS	02/10/93		
REPLICATE	Aqueous	TAL METALS	02/10/93		
[illegible]	Aqueous	TAL METALS	02/10/93		
MW-47	Aqueous	TAL METALS	02/10/93		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB # : 3093-0149

Mercury

SAMPLE ID	MATRIX	METALS REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
MW-45	Aqueous	TAL METALS	02/10/93	2/25/93	2/26/93
MHW-1	Aqueous	TAL METALS	02/10/93		
MW-43	Aqueous	TAL METALS	02/10/93		
MW-44	Aqueous	TAL METALS	02/10/93		
MW-46	Aqueous	TAL METALS	02/10/93		
MW-35	Aqueous	TAL METALS	02/10/93		
MHW-2	Aqueous	TAL METALS	02/10/93		
REPLICATE	Aqueous	TAL METALS	02/10/93		
MW-1	Aqueous	TAL METALS	02/10/93		
MW-47	Aqueous	TAL METALS	02/10/93		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERV[illegible]

C 0010

SAMPLE PREPARATION AND ANALYSIS SUMMARY

TAL METALS

INORGANIC ANALYSES

[illegible]

ILAP

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DILUTION FACTOR
MW-45	Aqueous	CLP	HNO_3, HCl	N/A	1:1
MMW-1	Aqueous				
MW-1[illegible]	Aqueous				
MW-44	Aqueous				
MW-46	Aqueous				
MW-35	Aqueous				
MMW-[illegible]	Aqueous				
REPLICATE	Aqueous				
MW-[illegible]	Aqueous				
MW-47	Aqueous				

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

0011

SAMPLE PREPARATION AND ANALYSIS SUMMARY
TAL METALS
INORGANIC ANALYSIS

JOB # : 3093-0185

Furnace As, Se

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
MW-45	Aqueous	CLP	HNO_3, H_2O_2	Nickel Nitrate	1:1
MHW-1	Aqueous				1:1
MW-43	Aqueous				1:2
MW-44	Aqueous				1:1
MW-46	Aqueous				
MW-35	Aqueous				
MHW-2	Aqueous				
REPLICATE	Aqueous				
MW-1	Aqueous				
MW-47	Aqueous				1:1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

0012

SAMPLE PREPARATION AND ANALYSIS SUMMARY
TAL METALS
INORGANIC ANALYSIS

JOB # : 3093-0148

Furnace - TI

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
MW-45	Aqueous	CLP	HNO3, H2O2	H2SO4	1:1
MHW-1	Aqueous				
MW-43	Aqueous				
MW-44	Aqueous				
MW-46	Aqueous				
MW-35	Aqueous				
MHW-2	Aqueous				
REPLICATE	Aqueous				
MW-1	Aqueous				
MW-47	Aqueous				

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

0013

SAMPLE PREPARATION AND ANALYSIS SUMMARY
TAL METALS
INORGANIC ANALYSIS

JOB # : 3093-0148

Furnace Pb

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
MW-45	Aqueous	CLP	HNO3, HCl O2	mg, Nitrate, Ascorbic Acid	1:1
MRW-1	Aqueous	↓	↓	↓	↓
MW-43	Aqueous				1:1
MW-44	Aqueous				1:10
MW-46	Aqueous				1:10
MW-35	Aqueous				1:2
MRW-2	Aqueous				1:1
REPLICATE	Aqueous				↓
MW-1	Aqueous				1:1
MW-47	Aqueous	↓	↓	↓	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
TAL METALS
INORGANIC ANALYSIS

JOB # : 3093-0149

Mercury

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
MW-45	Aqueous	CLP	Manual Cold Vapor	N/A	1:1
MW-1	Aqueous				
MW-43	Aqueous				
MW-44	Aqueous				
MW-46	Aqueous				
MW-35	Aqueous				
MW-2	Aqueous				
REPLICATE	Aqueous				
MW-1	Aqueous				
MW-47	Aqueous				

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30930-0148
ROUX ASSOCIATES

SDG Narrative

Volatile Organics - No problems were encountered.

Semi-Volatile Organics - No problems were encountered.

PCB's - Sample MW-27 required sulfur cleanup; samples MHW-1, MW-35, MHW-2 and method blank PBLK06 required acid and sulfur cleanup.

Sample MHW-7 was diluted 1:5.

DBC recovery was out of advisory QC limits for samples MHW-7, MW-47, MW-45 STD and method blank PBLK00.

Aroclor-1248 was out of RT windows on the confirmation run (column RTX-35) in sample MHW-7, but in the analyst's opinion, it is present.

Aroclor-1260 was out of RT windows on the confirmation run (column RTX-35) in sample MW-1, but in the analyst's opinion, it is present.

DDT linearity on confirmation runs 0308GC1B and D309GC1B was greater than 10 percent, however no calculations were done from this run.

The following standard did not meet NYSDEC '89 criteria:

Date	Time	GC #	Standard	Comments
03/09/93	06:04	GC1B	Ind B	Endrin ketone out of required criteria, C_f >20% difference

The client's samples, before this affected standard, were run for PCB's only. Since the samples had been run primary twice, some samples required previous reruns due to cleanups or continuing standards out of criteria. Only enough extract remained to run the samples once on the confirmation run. The ending PCB's following the ending pesticide mixes were within continuing standard criteria.

Due to high levels of Aroclors, samples MW-36 and MHS-3 required a dilution.

The surrogates were diluted out for all samples with a dilution factor of 100 or higher.

Due to the sample matrix, TCX percent recovery could not be determined in samples MW-36, MW-36 MS and MW-36 MSD.

DCB was below advisory QC limits in method blank PBLK05 on column 2 and in sample MW-36 MS on column 1.

Due to matrix interference, TCX was above advisory QC limits in sample MW-36 DL on both columns.

DCB was above advisory QC limits in sample MW-36 DL on column 1 and in samples MW-36 MS and MW-36 MSD on column 2.

Due to the matrix interference in samples MW-36, MW-36 MS and MW-36 MSD, two different sets of peaks were chosen for column RTX-35 for the calculation of Aroclor-1260. Two separate Form 6F's have been submitted. The second peak was out of RT windows on column RTX-35 for Aroclor-1260 in samples MW-36 and MW-36 MSD.

Metals - IEC's are electronically employed by the TJA ICAP-61. However, the ICSA is utilized as a monitoring device to detect any additional adjustments that may be required. These modifications are calculated and applied manually. They are so noted in the raw data.

No problems were encountered.

I certify that this data package is in compliance with the terms of this contract, both technically and for completeness, for other than the conditions detailed above. Release of this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Jeffrey C. Curran
Laboratory Manager

March 17, 1993
Date

VOLATILE DATA

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK SUNNYSIDE
SDG#:	Z0148
IEA ID:	30930-0148

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-45

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148 0047

Matrix: (soil/water) WATER Lab Sample ID: 0148009

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4150.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/12/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

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

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-45 0 0048

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148009

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4150.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/12/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1 PAS 02/25/93

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN SILOXANE	18.59	11	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MHW-1

Lab Name: IEA/CT Contract: C 0058

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148010

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4151.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/12/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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	10	U
67-64-1	Acetone	6	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	1	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	6	J
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	6	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	6	JB
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	8	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	3	J
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	51 ~~17~~	

LHD 03/03/93

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0059 | MHW-1

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148010

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4151.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/12/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

LHD 03/03/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	1634-04-4	~~UNKNOWN~~ TERT-BUTYL METHYL ETHER	8.43	180	JN
2.		UNKNOWN C3 ALKYLBENZENE	23.45	33	JN
3.		UNKNOWN C3 ALKYLBENZENE	24.16	30	JN
4.		UNKNOWN INDENE	25.19	21	JN
5.		UNKNOWN C3 ALKYLBENZENE	24.86	18	JN
6.		UNKNOWN C3 ALKYLBENZENE	23.92	18	JN
7.		UNKNOWN C3 ALKYLBENZENE	23.56	16	JN
8.		UNKNOWN C4 ALKYLBENZENE	25.82	11	JN
9.		UNKNOWN C4 ALKYLBENZENE	25.27	9	JN
10.		UNKNOWN	8.02	8	JN
11.					
12.					
13.					
14.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0085

MW-43

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148011

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4152.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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	10	U
67-64-1	Acetone	10 8	UB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	2	J
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	11	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

AS 02/26/93

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0086

EPA SAMPLE NO.

MW-43

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148011

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4152.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 2

PAS 02/26/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556672	CYCLOTETRASILOXANE, OCTAMETHYL	23.15	23	JN
2.		UNKNOWN SILOXANE	25.91	76	JT
3.					
4.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-44

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148 0098

Matrix: (soil/water) WATER Lab Sample ID: 0148012

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4153.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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	10	U
67-64-1	Acetone	10	B
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	46	
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	75	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	4	JB
591-78-6	2-Hexanone	3	JB
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	2	J
108-88-3	Toluene	10 ~~0.4~~	U ~~J~~
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

LHP 03/03/93

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
0099
MW-46

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 014801~~2~~3

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G415~~4~~3.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93 AAS 02/25/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 02 AAS 02/25/93

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556672	CYCLOTETRASILOXANE, OCTAMETHYL	23.15	12	JN
2.		UNKNOWN SILOXANE	25.92	7	J
3.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-46 01 14

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148013

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4154.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 0115

MW-4R6

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 01480123

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4154.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93

GC Column: 007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 03

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556672	CYCLOTETRASILOXANE, OCTAMETHYL	23.16	23 140	JN
2.		UNKNOWN SILOXANE	25.92	16 110	J
3.	541059	CYCLOTRISILOXANE, HEXAMETHYL	18.59	22	JN
4.					
5.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-35 0126

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148014

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4155.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-35 0127

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148014

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4155.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 5 JRS 02/25/93

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556672	CYCLOTRISILOXANE, OCTAMETHYL	23.12	210	JN
2.		UNKNOWN SILOXANE	25.89	160	JN
3.	541059	CYCLOTRISILOXANE, HEXAMETHYL	18.51	28	JN
4.		UNKNOWN SILOXANE	24.39	14	JN
5.		UNKNOWN ALKYLBENZENE	25.17	6	JN
6.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET 0140

EPA SAMPLE NO.

MW-42

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148015

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4156.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0141

EPA SAMPLE NO.

MW-42

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148015

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4156.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 7 PAS 02/25/93

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556672	CYCLOTETRASILOXANE, OCTAMETHYL	23.19	280	JA
2.		UNKNOWN SILOXANE	25.93	200	JA
3.		UNKNOWN SILOXANE	24.44	45	JA
4.	541059	CYCLOTRISILOXANE, HEXAMETHYL	18.61	44	JA
5.		UNKNOWN ALKYLBENZENE	25.21	9	JA
6.		UNKNOWN ISOMER OF INDANE, 3-DIMETH	25.43	9	JA
7.		UNKNOWN ALKANE	24.99	7	JA
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET 0155

EPA SAMPLE NO.
MHW-2

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148016

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4157.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

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

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0156

MHW-2

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148016

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4157.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3 03/03/93

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556672	CYCLOTETRASILOXANE, OCTAMETHYL	23.15	46	JN
2.		UNKNOWN SILOXANE	25.91	11	JN
3.		UNKNOWN SILOXANE	24.45	10	JN
4.					
5.					
6.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0168

REPLICATE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148017

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4158.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0169

REPLICATE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148017

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4158.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: ~~0~~ 3 PDS 02/25/93

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556672	CYCLOTETRASILOXANE, OCTAMETHYL-	23.19	32	~~J~~ N
2.	541059	CYCLOTRISILOXANE, HEXAMETHYL-	18.63	23	J
3.		UNKNOWN PAH	24.68	6	J
4.					
5.					
6.					
7.					
8.					
9.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

0180 EPA SAMPLE NO.

MW-23

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148019

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4159.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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	10	U
67-64-1	Acetone	3	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	2	J
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	1 ~~10~~	J ~~U~~

LHD
03/03/93

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-29 0181

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148019

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4159.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 9

PAS 02/26/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN INDENE	25.21	24	J
2.		UNKNOWN C4 ALKYLBENZENE	26.51	22	
3.		UNKNOWN C4 ALKYLBENZENE	26.43	18	
4.		UNKNOWN INDENE	26.07	18	
5.	556672	CYCLOTETRASILOXANE, OCTAMETHYL	23.17	16	
6.		UNKNOWN C4 ALKYLBENZENE	25.85	12	
7.		UNKNOWN C4 ALKYLBENZENE	25.71	11	
8.		UNKNOWN SILOXANE	25.93	9	
9.		UNKNOWN ALKYLBENZENE	26.18	5	
10.					
11.					
12.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-47 0200

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148020

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4160.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
0201
MW-47

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148020

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4160.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ Data Analyzed: 02/13/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556672	CYCLOTETRASILOXANE, OCTAMETHYL	23.22	21	JN
2.		UNKNOWN PAH	26.48	21	
3.		UNKNOWN SILOXANE	25.99	19	
4.		UNKNOWN C4-INDENE	24.82	16	
5.		UNKNOWN INDENE	21.18	11	
6.		UNKNOWN INDENE	25.54	10	
7.		UNKNOWN ALKYLBENZENE	20.15	9	
8.		UNKNOWN INDENE	24.16	9	
9.		UNKNOWN ALKYLBENZENE	25.29	8	
10.		UNKNOWN PAH	22.72	7	
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PAH 02/12/93

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKGI	106	104	100		0
02	MW-45	105	104	101		0
03	MHW-1	104	98	105		0
04	MW-43	99	105	95		0
05	MW-44	104	99	100		0
06	MW-46	106	105	95		0
07	MW-35	100	98	104		0
08	MW-42	101	96	101		0
09	MHW-2	102	101	106		0
10	REPLICATE	109	96	103		0
11	MW-23	106	94	106		0
12	MW-47	99	92	102		0
13	VBLKGK	101	107	98		0
14	MW-45MS	105	106	92		0
15	MW-45MSD	102	103	95		0
16	MSBMW-45	101	104	101		0
17	QCCHKSTD	100	105	96		0
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19						
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	QC LIMITS
SMC1 (TOL) = Toluene-d8	(88-110)
SMC2 (BFB) = Bromofluorobenzene	(86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix Spike - EPA Sample No.: MW-45

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	47	94	59-172
Trichloroethene	50	0	56	112	62-137
Benzene	50	0	48	96	66-142
Toluene	50	0	53	106	59-139
Chlorobenzene	50	0	50	100	60-133

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	48	96	2	22	59-172
Trichloroethene	50	56	112	0	24	62-137
Benzene	50	48	96	0	21	66-142
Toluene	50	50	100	6	21	59-139
Chlorobenzene	50	48	96	4	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

0038

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 0148 SAS No.: _____ SDG No.: 20148

Matrix Spike - EPA Sample No.: MSBMW-45

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MSB CONCENTRATION (ug/L)	MSB % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	50	100	61-145
Trichloroethene			52	104	71-120
Benzene			46	92	76-127
Toluene			48	96	76-125
Chlorobenzene			47	94	75-130
					(75-125)

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene					14	61-145
Trichloroethene					14	71-120
Benzene					11	76-127
Toluene					13	76-125
Chlorobenzene					13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: _____ out of _____ outside limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

DPS 12/24/93

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKGI C 0039

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Lab File ID: G4148.D Lab Sample ID: VBLKGI

Date Analyzed: 02/12/93 Time Analyzed: 2155

GC Column:007-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5995G

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MW-45	0148009	G4150.D	2326
02	MHW-1	0148010	G4151.D	2358
03	MW-43	0148011	G4152.D	0030
04	MW-44	0148012	G4153.D	0101
05	MW-46	0148013	G4154.D	0133
06	MW-35	0148014	G4155.D	0204
07	MW-42	0148015	G4156.D	0236
08	MHW-2	0148016	G4157.D	0308
09	REPLICATE	0148017	G4158.D	0339
10	MW-23	0148019	G4159.D	0411
11	MW-47	0148020	G4160.D	0442
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COMMENTS:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0258

VBLKGI

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: VBLKGI

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4148.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 02/12/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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	1	J
67-64-1	Acetone	17	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	4	J
591-78-6	2-Hexanone	6	J
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0259

VBLKGI

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: VBLKGI

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4148.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 02/12/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKGK

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Lab File ID: G4181.D Lab Sample ID: VBLKGK

Date Analyzed: 02/15/93 Time Analyzed: 1011

GC Column:007-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5995G

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MW-45MS	0148009MS	G4182.D	1058
02	MW-45MSD	0148009MSD	G4183.D	1129
03	MSBMW-45	0148009MSB	G4184.D	1201
04	QCCHKSTD	0148009STD	G4185.D	1232
05				
06				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKGK 0268

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: VBLKGK

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4181.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 02/15/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKGK

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148 0269

Matrix: (soil/water) WATER Lab Sample ID: VBLKGK

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G4181.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ Data Analyzed: 02/15/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0045

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Lab File ID (Standard): G4147.D Date Analyzed: 02/12/93

Instrument ID: HP5995G Time Analyzed: 2029

GC Column:007-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	25516	10.92	132089	13.37	102891	20.49
	UPPER LIMIT	51032	11.42	264178	13.87	205782	20.99
	LOWER LIMIT	12758	10.42	66044	12.87	51446	19.99
	EPA SAMPLE No.						
01	VBLKGI	25869	11.04	133368	13.50	102287	20.61
02	MW-45	18652	11.04	94976	13.52	73880	20.66
03	MHW-1	23833	11.11	117251	13.54	92591	20.66
04	MW-43	24568	11.05	123650	13.51	96794	20.63
05	MW-44	27181	11.07	132314	13.53	101031	20.67
06	MW-46	19684	11.07	85959	13.56	63182	20.67
07	MW-35	22689	11.04	110125	13.50	88476	20.61
08	MW-42	24312	11.03	120080	13.51	96137	20.68
09	MHW-2	25005	11.09	121411	13.55	97821	20.66
10	REPLICATE	26003	11.11	136524	13.57	97252	20.70
11	MW-23	24080	11.11	117989	13.57	84574	20.68
12	MW-47	26718	11.03	138028	13.49	110614	20.68
13							
14							
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19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY 0 0046

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Lab File ID (Standard): G4180.D Date Analyzed: 02/15/93

Instrument ID: HP5995G Time Analyzed: 0914

GC Column:007-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	25406	10.63	136696	13.07	109069	20.24
	UPPER LIMIT	50812	11.13	273392	13.57	218138	20.74
	LOWER LIMIT	12703	10.13	68348	12.57	54534	19.74
	EPA SAMPLE No.						
01	VBLKGK	25840	10.58	142332	13.01	107270	20.24
02	MW-45MS	27412	10.58	140679	12.99	104742	20.21
03	MW-45MSD	27600	10.60	138607	13.06	104481	20.25
04	MSBMW-45	27306	10.91	149367	13.20	111469	20.29
05	QCCHKSTD	27714	10.83	143177	13.18	109309	20.29
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

SEMI-VOLATILE DATA

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK SUNNYSIDE
SDG#:	Z0148
IEA ID:	30930-0148

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0321 | MW-45

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148009

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3282.D

Level: (low/med) LOW Date Received: 02/~~02~~/19/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0322

EPA SAMPLE NO.

MW-45

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148009

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3282.D

Level: (low/med) LOW Date Received: 02/~~02~~/93 Case 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.5	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0323 EPA SAMPLE NO.

MW-45

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148009

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3282.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

CORE 3/15/93

Number TICs found: 021 CMC 2/25/93

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	30.72	120	J
2.	~~2378521~~	~~2,5,8,11,14-PENTAOXAHEXADECANE~~ UNKNOWN	32.22	88	~~NJ~~ J
3.		UNKNOWN	29.23	68	J
4.			44.16	67	
5.			26.55	58	
6.			23.46	38	
7.			37.42	34	
8.			32.60	28	
9.			29.45	20	
10.			19.92	16	
11.			26.71	12	
12.	124072	OCTANOIC ACID	14.95	11	
13.		UNKNOWN	45.42	9	
14.			8.68	7	JB
15.			17.46	5	J
16.			23.60	5	J
17.			9.42	4	JB
18.			17.92	4	J
19.		ALDOL CONDENSATION PRODUCT	8.27	4	JAB
20.	112356	ETHANOL, 2-(2-METHOXYETHOXY)ETH	15.69	3	JN
21.		UNKNOWN	39.72	2	J
22.					
23.					
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MHW-1

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148010

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3286.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

0354

Case 3/15/93

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	2	J
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	1	J
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MHW-1

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

0355

Matrix: (soil/water) WATER Lab Sample ID: 0148010

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3286.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MHW-1

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148 0356

Matrix: (soil/water) WATER Lab Sample ID: 0148010

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3286.D

Level: (low/med) LOW Date Received: 02/10/93 cal 2/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

Number TICs found: 021 GDC 2/25/93

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	27.38	80	J
2.		UNKNOWN ACID	25.97	64	
3.		UNKNOWN ACID	27.54	34	
4.		UNKNOWN	9.00	27	
5.			5.20	20	
6.			29.45	20	
7.			26.57	15	
8.		UNKNOWN ACID	20.70	14	
9.		UNKNOWN	29.18	7	
10.			32.11	6	
11.			42.45	6	
12.		UNKNOWN ACID	23.13	5	
13.		UNKNOWN	36.52	5	
14.			23.45	5	
15.			16.49	4	
16.			43.71	4	
17.			22.82	3	
18.			26.68	3	
19.		UNKNOWN MW=118	12.64	3	
20.		UNKNOWN	8.70	3	JB
21.		ALDOL CONDENSATION PRODUCT	8.29	3	JAB
22.					
23.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-43

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148011 0389

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3287.D

Level: (low/med) LOW Date Received: 02/10/93 CA 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-43

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148011

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3287.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

0390

Case 3/15/93

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.6	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.5	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

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EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-43

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148 0391

Matrix: (soil/water) WATER Lab Sample ID: 0148011

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3287.D

Level: (low/med) LOW Date Received: 02/10/93 cal 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

Number TICs found: 21 CMC 2/25/93

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	36.74	59	J
2.			32.24	58	
3.			26.56	45	
4.			29.25	43	
5.			23.51	27	
6.			44.18	27	
7.			39.89	20	
8.			32.606	20	
9.			49.61	20	
10.			37.47	18	
11.			29.49	17	
12.			34.21	14	
13.			19.94	13	
14.			37.98	11	
15.			26.74	11	
16.			46.82	9	
17.			30.606	9	
18.			5.21	6	
19.			33.06	5	
20.		ALDOL CONDENSATION PRODUCT	8.30	4	JAB
21.		UNKNOWN	23.29	4	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-44

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148 0423

Matrix: (soil/water) WATER Lab Sample ID: 0148012

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3288.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93 C&C 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
108-95-2	Phenol	10	~~0.2~~	J C
111-44-4	bis(2-Chloroethyl)ether	10		U
95-57-8	2-Chlorophenol	10	~~0.4~~	J C
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
95-50-1	1,2-Dichlorobenzene	10		U
95-48-7	2-Methylphenol	10		U
108-60-1	2,2'-oxybis(1-Chloropropane)	10		U
106-44-5	4-Methylphenol	10		U
621-64-7	N-Nitroso-di-n-propylamine	10		U
67-72-1	Hexachloroethane	10		U
98-95-3	Nitrobenzene	10		U
78-59-1	Isophorone	10		U
88-75-5	2-Nitrophenol	10		U
105-67-9	2,4-Dimethylphenol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
120-83-2	2,4-Dichlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
91-20-3	Naphthalene	10		U
106-47-8	4-Chloroaniline	10		U
87-68-3	Hexachlorobutadiene	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-57-6	2-Methylnaphthalene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
95-95-4	2,4,5-Trichlorophenol	26		U
91-58-7	2-Chloronaphthalene	10		U
88-74-4	2-Nitroaniline	26		U
131-11-3	Dimethylphthalate	10		U
208-96-8	Acenaphthylene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
99-09-2	3-Nitroaniline	26		U
83-32-9	Acenaphthene	10		U

CMK 2/25/93

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

C 0424 EPA SAMPLE NO.

MW-44

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148012

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3288.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.6	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10 ~~0.3~~	J U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.5	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

Case 3/15/93

CMC 2/25/93

0425
EPA SAMPLE NO.

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-44

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148012

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3288.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: ~~0~~ 15

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	32.17	36	J
2.			29.21	34	
3.			26.53	30	
4.			36.61	23	
5.			23.48	17	
6.			44.00	8	
7.			19.94	7	
8.			32.55	6	
9.			29.42	6	
10.		UNKNOWN BENZENEDIOL ISOMER	16.90	6	
11.		ALDOL CONDENSATION PRODUCT	8.31	4	JDB
12.		UNKNOWN	8.71	4	JB
13.			26.70	4	J
14.		UNKNOWN ACID	20.66	3	
15.		UNKNOWN	14.90	2	
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amc 2/25/93

KKM 2/26/93

amc 3/15/93

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-46

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148 0451

Matrix: (soil/water) WATER Lab Sample ID: 0148013

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3289.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93 case 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-46 0452

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148013

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3289.D

Level: (low/med) LOW Date Received: 02/10/93 DAC 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.5	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

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EPA SAMPLE NO.

MW-46 0453

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148013

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3289.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

Number TICs found: ~~0~~ 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.71	7	JPB
2.		UNKNOWN	17.68	7	J
3.		UNKNOWN CYCLOHEXEN-1-OL	9.45	4	
4.		UNKNOWN	10.45	3	
5.			14.42	3	
6.	403190	2-FLUORO-4-NITROPHENOL	14.74	3	JN
7.		UNKNOWN	15.65	3	J
8.		ALDOL CONDENSATION PRODUCT	8.30	3	JAB
9.		UNKNOWN	23.17	3	J
10.	115968	ETHANOL,2-CHLORO-,PHOSPHATE	23.36	2	JN
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12.					
13.					
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15.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0473

EPA SAMPLE NO.

MW-35

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148014

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3303.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93 cae 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	5	J
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	2	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0474

EPA SAMPLE NO.

MW-35

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148014

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3303.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93 cac 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	1	J
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.8	JB
206-44-0	Fluoranthene	1	J
129-00-0	Pyrene	0.9	J
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.7	JB
117-84-0	Di-n-octylphthalate	10 ~~0.4~~	J ~~U~~ U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U cmc 2/25/93
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0175
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-35

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148014

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3303.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93 CAC 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

Number TICs found: 21 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAC 2/25/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN DIMETHYL-NAPHTHALENE	19.58	60	J
2.		UNKNOWN	20.94	5	
3.		UNKNOWN	18.56	4	
4.		UNKNOWN MW=162	19.10	4	
5.		UNKNOWN ~~MW=186~~	15.98	4	
6.		UNKNOWN BENZO[b]THIOPHENE- METHYL-	17.02	4	
7.		UNKNOWN	19.15	3	
8.			15.88	3	
9.		ALDOL CONDENSATION PRODUCT	8.16	3	JAB
10.		UNKNOWN $C_{10}H_{14}$	12.84	3	J
11.		UNKNOWN	13.23	3	
12.		UNKNOWN C_4 ALKYL BENZENE	13.99	3	
13.		UNKNOWN	14.51	3	
14.		UNKNOWN $C_{10}H_4$	14.65	3	
15.		UNKNOWN	21.06	3	
16.			33.78	3	
17.			15.85	2	
18.			14.76	2	
19.		UNKNOWN ~~MW=180~~	16.50	2	
20.			13.81	2	
21.		UNKNOWN	~~8.57~~ 8.57	2	JD
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0 0513 | MW-42

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148015

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3304.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93 Case 3 K23

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-42

Lab Name: IEA/CT Contract: 0514

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148015

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3304.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93 case 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.7	JB
117-84-0	Di-n-octylphthalate	10 ~~0.7~~	~~J~~ U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

GMC 2/25/93

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EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0515

MW-42

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148015

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3304.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93 cae 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

Number TICs found: ~~0~~ 21 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CONC 2/25/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	32.04	110	J
2.			36.43	100	
3.			29.11	89	
4.			26.43	76	
5.			43.66	54	
6.			23.37	46	
7.			32.42	33	
8.			39.12	25	
9.			29.32	25	
10.			19.81	20	
11.			26.60	16	
12.			39.43	9	
13.			48.82	9	
14.			33.92	5	
15.			23.49	5	
16.			15.60	4	
17.			38.76	4	
18.		ALDOL CONDENSATION PRODUCT	8.17	4 4	JAB
19.		UNKNOWN	8.57	4	JB
20.			30.48	3	J
21.			14.80	3	
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MHW-2

Lab Name: IEA/CT Contract: 0546

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148016

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3305.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93 cae 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	1	J
91-20-3	Naphthalene	0.7	J
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0547 MHW-2

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148016

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3305.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93 cae. 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	0.9	J
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	0.8	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	7	J
120-12-7	Anthracene	2	J
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.9	JB
206-44-0	Fluoranthene	16	
129-00-0	Pyrene	10	J
85-68-7	Butylbenzylphthalate	\ ~~10~~	~~U~~ J
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	3	J
218-01-9	Chrysene	7	J
117-81-7	bis(2-Ethylhexyl)phthalate	4	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	4	J
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

gmc 4/5/93

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0548

EPA SAMPLE NO.

MHW-2

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148016

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3305.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93 cac 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

Number TICs found: ~~0~~ 21 cmc 3/25/93

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	19.53	8	J
2.		UNKNOWN ACID	25.27	6	J
3.		UNKNOWN	8.57	6	JB
4.			25.16	5	J
5.			16.38	4	
6.			17.37	4	J
7.		ALDOL CONDENSATION PRODUCT	8.18	4	JAB
8.		UNKNOWN	13.13	3	J
9.			17.83	3	
10.			14.80	3	
11.		UNKNOWN ACID	20.55	3	
12.		UNKNOWN	23.71	3	
13.			15.14	3	
14.			11.38	3	J
15.	84-65-7	9,10-ANTHRACENEDIONE	25.99	3	JN
16.		UNKNOWN	27.31	3	J
17.			16.09	3	
18.			29.54	3	
19.			33.76	3	
20.			22.35	2	
21.			26.93	2	J
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

REPLICATE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: 0592 SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148017

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3306.D

Level: (low/med) LOW Date Received: 02/10/93 cac 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

REPLICATE

Lab Name: IEA/CT Contract: ^ 0593

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148017

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3306.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93 cac 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.7	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0594

REPLICATE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148017

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3306.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93 cac 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

Number TICs found: 017 cmc 2/25/93

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		~~UNK~~ UNKNOWN	31.97	51	J
2.			29.07	45	
3.			26.39	39	
4.			36.30	39	
5.			23.34	22	
6.			43.53	17	
7.			32.34	11	
8.			29.28	9	
9.			19.80	7	
10.			8.56	6	JB
11.			37.00	6	J
12.			26.52	6	
13.		ALDOL CONDENSATION PRODUCT	8.17	4	JAB
14.		UNKNOWN	33.74	3	J
15.		UNKNOWN	22.12	3	
16.		UNKNOWN ACID	16.34	3	
17.		UNKNOWN	23.47	3	
18.		UNKNOWN ACID	~~10.~~ 10.32	2	
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-23

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148 0623

Matrix: (soil/water) WATER Lab Sample ID: 0148019

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3307.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93 cac 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	23	
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	4	J

0624

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-23

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148019

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3307.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	4	J
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	2	J
120-12-7	Anthracene	10	U
86-74-8	Carbazole	6	J
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

0625

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-23

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148019

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3307.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93 cac 3/15/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

Number TICs found: 20 GMC 3/25/93

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	31.82	46	J
2.		UNKNOWN DIMETHYL-NAPHTHALENE	19.00	21	
3.		UNKNOWN $C_{11}H_{16}$	17.11	16	
4.		UNKNOWN TRIMETHYL-NAPHTHALENE	20.76	13	
5.		UNKNOWN METHYL-BENZO[B]THIOPHENE	17.01	12	
6.		UNKNOWN $C_{10}H_{12}$	14.65	12	
7.		UNKNOWN DIMETHYL-NAPHTHALENE	18.76	12	
8.		UNKNOWN C4 ALKYL BENZENE	14.07	11	
9.		UNKNOWN $C_{14}H_{14}$	15.45	11	
10.		UNKNOWN DIMETHYL-NAPHTHALENE	19.29	10	
11.		↓ ↓ ↓	19.53	10	
12.		UNKNOWN	15.40	9	
13.		UNKNOWN $C_{13}H_{12}$	21.51	9	
14.		UNKNOWN C3 ALKYL BENZENE	12.52	9	
15.		UNKNOWN C4 ALKYL BENZENE	13.99	8	
16.		UNKNOWN $C_{10}H_{12}$	14.44	8	
17.		UNKNOWN	16.80	7	
18.			15.38	7	
19.			28.99 ~~19.98~~	6	
20.		↓	14.88	6	↓
21.		~~UNKNOWN C4 ALKYL BENZENE~~	~~13.20~~	~~5~~	
22.			~~12.84~~	~~5~~	
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

0661

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-~~37~~-47

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148020

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3308.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

cmk 2/25/93

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

0662

EPA SAMPLE NO.

MW-~~37~~ 47

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148 CMC 2/22/93

Matrix: (soil/water) WATER Lab Sample ID: 0148020

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3308.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.8	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

0663
EPA SAMPLE NO.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-37 4 7

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148020

Sample wt/vol: 975 (g/mL) ML Lab File ID: I3308.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/19/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

Number TICs found: ~~0~~ 12 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	26.36	13	J
2.			29.04	13	
3.			31.93	12	
4.			23.32	6	
5.			36.23	6	
6.			32.34	5	
7.		ALDOL CONDENSATION PRODUCT	8.18	5	JAB
8.		UNKNOWN	33.75	4	J
9.			29.27	4	
10.			8.57	3	JB
11.			26.55	3	J
12.			19.79	2	
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLK86	64	60	62	64	63	64	64	64	0
02	MSBMW-45	64	56	61	60	60	62	61	64	0
03	MW-45	69	62	56	67	66	68	65	70	0
04	MW-45MS	69	60	55	60	60	50	61	67	0
05	MW-45MSD	69	61	55	62	63	52	64	66	0
06	QCCHKSTD	58	65	64	54	60	78	57	41	0
07	MHW-1	54	54	47	56	54	64	56	57	0
08	MW-43	67	60	39	65	63	70	63	64	0
09	MW-44	66	60	35	65	65	68	63	66	0
10	MW-46	65	58	29*	50	48	44	53	64	1
11	MW-35	54	61	28*	58	54	60	54	56	1
12	MW-42	78	79	50	79	73	81	77	81	0
13	MHW-2	70	69	61	74	69	83	72	74	0
14	REPLICATE	78	77	68	76	70	79	74	80	0
15	MW-23	76	73	68	80	74	76	73	77	0
16	MW~~37~~ 47	82	79	67	84	78	90	81	86	0
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

CMC
2/25/93

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix Spike - EPA Sample No.: MW-45

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	77	0	38	49	12-110
2-Chlorophenol	77	0	40	52	27-123
1,4-Dichlorobenzene	51	0	31	61	36- 97
N-Nitroso-di-n-prop.(1)	51	0	37	72	41-116
1,2,4-Trichlorobenzene	51	0	34	67	39- 98
4-Chloro-3-methylphenol	77	0	46	60	23- 97
Acenaphthene	51	0	28	55	46-118
4-Nitrophenol	77	0	80	104*	10- 80
2,4-Dinitrotoluene	51	0	43	84	24- 96
Pentachlorophenol	77	0	51	66	9-103
Pyrene	51	0	20	39	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	77	42	54	10	42	12-110
2-Chlorophenol	77	44	57	9	40	27-123
1,4-Dichlorobenzene	51	32	63	3	28	36- 97
N-Nitroso-di-n-prop.(1)	51	35	69	4	38	41-116
1,2,4-Trichlorobenzene	51	33	65	3	28	39- 98
4-Chloro-3-methylphenol	77	49	64	6	42	23- 97
Acenaphthene	51	29	57	4	31	46-118
4-Nitrophenol	77	56	73	35	50	10- 80
2,4-Dinitrotoluene	51	38	74	13	38	24- 96
Pentachlorophenol	77	54	70	6	50	9-103
Pyrene	51	22	43	10	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 1 out of 22 outside limits

COMMENTS: _____

QC CK FORM 3

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0309

EPA SAMPLE NO.

QCCHKSTD

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148009STD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3285.D

Level: (low/med) LOW Date Received: 02/~~02~~10/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	% RECOVERY
108-95-2	Phenol	49	49
111-44-4	bis(2-Chloroethyl)ether	54	54
95-57-8	2-Chlorophenol	50	50
541-73-1	1,3-Dichlorobenzene	42	42
106-46-7	1,4-Dichlorobenzene	41	41
95-50-1	1,2-Dichlorobenzene	34	34
95-48-7	2-Methylphenol	45	45
108-60-1	2,2'-oxybis(1-Chloropropane)	36	36
106-44-5	4-Methylphenol	42	42
621-64-7	N-Nitroso-di-n-propylamine	45	45
67-72-1	Hexachloroethane	41	41
98-95-3	Nitrobenzene	55	55
78-59-1	Isophorone	58	58
88-75-5	2-Nitrophenol	61	61
105-67-9	2,4-Dimethylphenol	47	47
111-91-1	bis(2-Chloroethoxy)methane	47	47
120-83-2	2,4-Dichlorophenol	49	49
120-82-1	1,2,4-Trichlorobenzene	48	48
91-20-3	Naphthalene	44	44
106-47-8	4-Chloroaniline	260	260
87-68-3	Hexachlorobutadiene	49	49
59-50-7	4-Chloro-3-methylphenol	60	60
91-57-6	2-Methylnaphthalene	39	39
77-47-4	Hexachlorocyclopentadiene	5	5 J
88-06-2	2,4,6-Trichlorophenol	68	68
95-95-4	2,4,5-Trichlorophenol	64	64
91-58-7	2-Chloronaphthalene	57	57
88-74-4	2-Nitroaniline	81 ~~25~~	81 U
131-11-3	Dimethylphthalate	71	71
208-96-8	Acenaphthylene	55	55
606-20-2	2,6-Dinitrotoluene	72	72
99-09-2	3-Nitroaniline	600	~~450~~ 600 amc 2/28/93
83-32-9	Acenaphthene	60	60

QCCK FORMS

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0310

EPA SAMPLE NO.

QCCHKSTD

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148009STD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3285.D

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	% RECOVERY
51-28-5	2,4-Dinitrophenol	200	200
100-02-7	4-Nitrophenol	110	110
132-64-9	Dibenzofuran	55	55
121-14-2	2,4-Dinitrotoluene	89	89
84-66-2	Diethylphthalate	67	67
7005-72-3	4-Chlorophenyl-phenylether	66	66
86-73-7	Fluorene	67	67
100-01-6	4-Nitroaniline	100	100
534-52-1	4,6-Dinitro-2-methylphenol	81	81
86-30-6	N-Nitrosodiphenylamine (1)	55	55
101-55-3	4-Bromophenyl-phenylether	54	54
118-74-1	Hexachlorobenzene	56	56
87-86-5	Pentachlorophenol	69	69
85-01-8	Phenanthrene	54	54
120-12-7	Anthracene	50	50
86-74-8	Carbazole	160	160
84-74-2	Di-n-butylphthalate	51	51 B
206-44-0	Fluoranthene	55	55
129-00-0	Pyrene	60	60
85-68-7	Butylbenzylphthalate	58	58
91-94-1	3,3'-Dichlorobenzidine	100	100
56-55-3	Benzo(a)anthracene	61	61
218-01-9	Chrysene	58	58
117-81-7	bis(2-Ethylhexyl)phthalate	58	58 B
117-84-0	Di-n-octylphthalate	51	51
205-99-2	Benzo(b)fluoranthene	78	78
207-08-9	Benzo(k)fluoranthene	40	40
50-32-8	Benzo(a)pyrene	63	63
193-39-5	Indeno(1,2,3-cd)pyrene	36	36
53-70-3	Dibenz(a,h)anthracene	66	66
191-24-2	Benzo(g,h,i)perylene	44	44

Amz 2/25/93

EPA SAMPLE NO.

SBLK86

4B
SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Lab File ID: I3280.D Lab Sample ID: SBLK86

Instrument ID: HP5971I Date Extracted: 02/11/93

Matrix: (soil/water) WATER Date Analyzed: 02/16/93

Level:(low/med) LOW Time Analyzed: 1059

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	MSBMW-45	0148009MSB	I3281.D	02/16/93
02	MW-45	0148009	I3282.D	02/16/93
03	MW-45MS	0148009MS	I3283.D	02/16/93
04	MW-45MSD	0148009MSD	I3284.D	02/16/93
05	QCCHKSTD	0148009STD	I3285.D	02/16/93
06	MHW-1	0148010	I3286.D	02/16/93
07	MW-43	0148011	I3287.D	02/16/93
08	MW-44	0148012	I3288.D	02/16/93
09	MW-46	0148013	I3289.D	02/16/93
10	MW-35	0148014	I3303.D	02/19/93
11	MW-42	0148015	I3304.D	02/19/93
12	MHW-2	0148016	I3305.D	02/19/93
13	REPLICATE	0148017	I3306.D	02/19/93
14	MW-23	0148019	I3307.D	02/19/93
15	MW-~~37~~47	0148020	I3308.D	02/19/93
16				
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amc
2/25/93

COMMENTS:

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK86

Lab Name: IEA/CT Contract: 0742

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: SBLK86

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3280.D

Level: (low/med) LOW Date Received: / /

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK86

Lab Name: IEA/CT Contract: ^ 0743

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: SBLK86

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3280.D

Level: (low/med) LOW Date Received: / /

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.6	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLK86

Lab Name: IEA/CT Contract: 0744

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: SBLK86

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I3280.D

Level: (low/med) LOW Date Received: / /

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/11/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/16/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 04 ORNC 2/25/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.67	8	JA
2.		ALDOL CONDENSATION PRODUCT	8.26	3	JA
3.		UNKNOWN	9.42	3	JA
4.		UNKNOWN	15.23	2	JA
5.					
6.					
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8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: IEA/CT Contract: 0317

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Lab File ID (Standard): I3279.D Date Analyzed: 02/16/93

Instrument ID: HP5971I Time Analyzed: 0848

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	20683		12.10		74721		15.37		43101		20.03	
	UPPER LIMIT	41366		12.60		149442		15.87		86202		20.53	
	LOWER LIMIT	10342		11.60		37360		14.87		21550		19.53	
	EPA SAMPLE No.												
01	SBLK86	21312		12.09		78929		15.35		46491		20.01	
02	MSBMW-45	21886		12.09		80760		15.35		48978		20.01	
03	MW-45	22963		12.09		85296		15.35		49581		20.01	
04	MW-45MS	26583		12.11		100458		15.37		58049		20.03	
05	MW-45MSD	22213		12.11		80050		15.38		46801		20.04	
06	QCCHKSTD	21504		12.12		80375		15.40		39022		20.05	
07	MHW-1	15974		12.11		57680		15.37		33042		20.04	
08	MW-43	23471		12.12		86269		15.38		49669		20.05	
09	MW-44	22562		12.12		83299		15.39		48293		20.05	
10	MW-46	24449		12.13		91127		15.39		52965		20.05	
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0318

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Lab File ID (Standard): I3279.D Date Analyzed: 02/16/93

Instrument ID: HP5971I Time Analyzed: 0848

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	83757	23.93	67348	31.23	65591	38.03
	UPPER LIMIT	167514	24.43	134696	31.73	131182	38.53
	LOWER LIMIT	41878	23.43	33674	30.73	32796	37.53
	EPA SAMPLE No.						
01	SBLK86	87206	23.90	77461	31.20	79920	38.02
02	MSBMW-45	92288	23.90	79475	31.20	81360	38.00
03	MW-45	91948	23.91	80902	31.23	84145	38.08
04	MW-45MS	109779	23.94	98632	31.25	107141	38.12
05	MW-45MSD	88663	23.94	78931	31.27	81116	38.14
06	QCCHKSTD	91743	23.97	67982	31.33	82308	38.21
07	MHW-1	56847	23.93	48545	31.26	50603	38.09
08	MW-43	93428	23.95	80940	31.28	83356	38.17
09	MW-44	90407	23.94	80035	31.27	83140	38.15
10	MW-46	95101	23.94	79440	31.29	84056	38.18
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY 0319

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Lab File ID (Standard): I3302.D Date Analyzed: 02/19/93

Instrument ID: HP5971I Time Analyzed: 1028

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	20283		12.01		74046		15.26		42698		19.92	
	UPPER LIMIT	40566		12.51		148092		15.76		85396		20.42	
	LOWER LIMIT	10142		11.51		37023		14.76		21349		19.42	
	EPA SAMPLE No.												
01	MW-35	26640		12.00		95882		15.25		46310		19.91	
02	MW-42	17668		12.00		64201		15.24		35826		19.90	
03	MHW-2	17941		12.00		66768		15.25		38722		19.90	
04	REPLICATE	17548		12.00		65172		15.24		36697		19.90	
05	MW-23	19167		12.00		67185		15.25		39069		19.90	
06	MW-37 47	18520		12.00		69292		15.25		40202		19.90	
07													
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amc 2/25/93

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Lab File ID (Standard): I3302.D Date Analyzed: 02/19/93

Instrument ID: HP5971I Time Analyzed: 1028

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	81493		23.80		65562		31.08		66706		37.75	
	UPPER LIMIT	162986		24.30		131124		31.58		133412		38.25	
	LOWER LIMIT	40746		23.30		32781		30.58		33353		37.25	
	EPA SAMPLE No.												
01	MW-35	81306		23.83		87707		31.12		87178		37.83	
02	MW-42	66822		23.79		55988		31.06		55618		37.74	
03	MHW-2	72759		23.79		59093		31.07		60212		37.74	
04	REPLICATE	67110		23.79		56813		31.07		57650		37.73	
05	MW-23	67753		23.79		59038		31.07		56449		37.74	
06	MW-~~37 47~~	73983		23.79		60586		31.06		62457		37.73	
07													
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19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

NYSDEC 89 PROTOCOLS
PCB'S

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK SUNNYSIDE
SDG.#	Z0148
IEA ID:	30930-0148

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148001

Sample wt/vol: 1000. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/09/93

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/10/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/02/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.065	U
11104-28-2	Aroclor-1221	0.065	U
11141-16-5	Aroclor-1232	0.065	U
53469-21-9	Aroclor-1242	0.065	U
12672-29-6	Aroclor-1248	0.065	U
11097-69-1	Aroclor-1254	0.065	U
11096-82-5	Aroclor-1260	0.065	U

803

1D

EPA SAMPLE NO.

PCB ORGANICS ANALYSIS DATA SHEET

MHW-3

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: 20148

Matrix: (soil/water) WATER Lab Sample ID: 0148003

Sample wt/vol: 1000. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/09/93

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/10/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/02/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.065	U
11104-28-2	Aroclor-1221	0.065	U
11141-16-5	Aroclor-1232	0.065	U
53469-21-9	Aroclor-1242	0.065	U
12672-29-6	Aroclor-1248	0.065	U
11097-69-1	Aroclor-1254	0.32	
11096-82-5	Aroclor-1260	0.31	

811

1D

EPA SAMPLE NO.

PCB ORGANICS ANALYSIS DATA SHEET

MW-7

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: _____ SAS No.: _____ SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148003

Sample wt/vol: 1000. (g/ML) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/09/93

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/10/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/02/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.32	U
11104-28-2	Aroclor-1221	0.32	U
11141-16-5	Aroclor-1232	0.32	U
53469-21-9	Aroclor-1242	0.32	U
12672-29-6	Aroclor-1248	2.6	
11097-69-1	Aroclor-1254	5.9	
11096-82-5	Aroclor-1260	6.3	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MHW-6 820

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: _____ SAS No.: _____ SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148004

Sample wt/vol: 975. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/09/93

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/10/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/02/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.067	U
11104-28-2	Aroclor-1221	0.067	U
11141-16-5	Aroclor-1232	0.067	U
53469-21-9	Aroclor-1242	0.067	U
12672-29-6	Aroclor-1248	0.067	U
11097-69-1	Aroclor-1254	0.48	
11096-82-5	Aroclor-1260	0.33	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: 30148

Matrix: (soil/water) WATER Lab Sample ID: 0148006

Sample wt/vol: 975. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/09/93

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/10/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/02/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.067	U
11104-28-2	Aroclor-1221	0.067	U
11141-16-5	Aroclor-1232	0.067	U
53469-21-9	Aroclor-1242	0.067	U
12672-29-6	Aroclor-1248	0.067	U
11097-69-1	Aroclor-1254	0.067	U
11096-82-5	Aroclor-1260	0.20	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-27 839

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: 70148

Matrix: (soil/water) WATER Lab Sample ID: 0148008

Sample wt/vol: 975. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/09/93

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/10/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/03/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.067	U
11104-28-2	Aroclor-1221	0.067	U
11141-16-5	Aroclor-1232	0.067	U
53469-21-9	Aroclor-1242	0.067	U
12672-29-6	Aroclor-1248	0.067	U
11097-69-1	Aroclor-1254	0.067	U
11096-82-5	Aroclor-1260	0.067	U

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

YA-43 840

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: 0148

Matrix: (soil/water) WATER Lab Sample ID: 0148009

Sample wt/vol: 975. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/11/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/02/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.067	U
11104-28-2	Aroclor-1221	0.067	U
11141-16-5	Aroclor-1232	0.067	U
53469-21-9	Aroclor-1242	0.067	U
12672-29-6	Aroclor-1248	0.067	U
11097-69-1	Aroclor-1254	0.067	U
11096-82-5	Aroclor-1260	0.067	U

1D

PCB ORGANICS ANALYSIS DATA SHEET

[illegible] (EPA SAMPLE NO.)

847

Lab Name: IEA   Contract: ____________

Lab Code: IEA   Case No.: 0148   SAS No.: ________   SDG No.: 20148

Matrix: (soil/water) WATER   Lab Sample ID: [illegible]

Sample wt/vol: 985.   (g/mL) ML   Lab File ID: ____________

Level: (low/med) LOW   Date Received: 02/10/93

% Moisture: not dec. ______   dec. ______   Date Extracted: 02/11/93

Extraction: (SepF/Cont/Sonc)   SEPF   Date Analyzed: 03/09/93

GPC Cleanup: (Y/N) N   pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.066	U
11104-28-2	Aroclor-1221	0.066	U
11141-16-5	Aroclor-1232	0.066	U
53469-21-9	Aroclor-1242	0.066	U
12672-29-6	Aroclor-1248	0.066	U
11097-69-1	Aroclor-1254	0.33	
11096-82-5	Aroclor-1260	0.13	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

854

MW-43

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: 20148

Matrix: (soil/water) WATER Lab Sample ID: 0148011

Sample wt/vol: 980. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/11/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/02/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.066	U
11104-28-2	Aroclor-1221	0.066	U
11141-16-5	Aroclor-1232	0.066	U
53469-21-9	Aroclor-1242	0.066	U
12672-29-6	Aroclor-1248	0.066	U
11097-69-1	Aroclor-1254	0.066	U
11096-82-5	Aroclor-1260	0.066	U

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 858

MW-44

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: 20148

Matrix: (soil/water) WATER Lab Sample ID: 0148012

Sample wt/vol: 980. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/11/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/02/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.066	U
11104-28-2	Aroclor-1221	0.066	U
11141-16-5	Aroclor-1232	0.066	U
53469-21-9	Aroclor-1242	0.066	U
12672-29-6	Aroclor-1248	0.066	U
11097-69-1	Aroclor-1254	0.066	U
11096-82-5	Aroclor-1260	0.066	U

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-46 802

Lab Name: ICA Contract: _____

Lab Code: ICA Case No.: 0148 SAS No.: _____ SDG No.: 20148

Matrix: (soil/water) WATER Lab Sample ID: 0148013

Sample wt/vol: 1000. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/11/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/02/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.065	U
11104-28-2	Aroclor-1221	0.065	U
11141-16-5	Aroclor-1232	0.065	U
53469-21-9	Aroclor-1242	0.065	U
12672-29-6	Aroclor-1248	0.065	U
11097-69-1	Aroclor-1254	0.59	
11096-82-5	Aroclor-1260	1.7	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-35 870

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: 20148

Matrix: (soil/water) WATER Lab Sample ID: 0148014

Sample wt/vol: 980. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/11/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/09/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.066	U
11104-28-2	Aroclor-1221	0.066	U
11141-16-5	Aroclor-1232	0.066	U
53469-21-9	Aroclor-1242	0.066	U
12672-29-6	Aroclor-1248	0.066	U
11097-69-1	Aroclor-1254	0.089	
11096-82-5	Aroclor-1260	0.066	U

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

877

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: 20148

Matrix: (soil/water) WATER Lab Sample ID: 0148016

Sample wt/vol: 1000. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/11/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/09/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.065	U
11104-28-2	Aroclor-1221	0.065	U
11141-16-5	Aroclor-1232	0.065	U
53469-21-9	Aroclor-1242	0.065	U
12672-29-6	Aroclor-1248	0.065	U
11097-69-1	Aroclor-1254	1.1	
11096-82-5	Aroclor-1260	1.2	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

REPLICATE 895

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: 2048

Matrix: (soil/water) WATER Lab Sample ID: 0148017

Sample wt/vol: 1000. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/11/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/03/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.065	U
11104-28-2	Aroclor-1221	0.065	U
11141-16-5	Aroclor-1232	0.065	U
53469-21-9	Aroclor-1242	0.065	U
12672-29-6	Aroclor-1248	0.065	U
11097-69-1	Aroclor-1254	0.065	U
11096-82-5	Aroclor-1260	0.065	U

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

893

MW-1

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: 20148

Matrix: (soil/water) WATER Lab Sample ID: 0148018

Sample wt/vol: 975. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/11/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/03/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.067	U
11104-28-2	Aroclor-1221	0.067	U
11141-16-5	Aroclor-1232	0.067	U
53469-21-9	Aroclor-1242	0.067	U
12672-29-6	Aroclor-1248	0.067	U
11097-69-1	Aroclor-1254	0.067	U
11096-82-5	Aroclor-1260	0.29	

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

893

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0148014

Sample wt/vol: 990. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/11/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/03/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.066	U
11104-28-2	Aroclor-1221	0.066	U
11141-16-5	Aroclor-1232	0.066	U
53469-21-9	Aroclor-1242	0.066	U
12672-29-6	Aroclor-1248	0.066	U
11097-69-1	Aroclor-1254	0.066	U
11096-82-5	Aroclor-1260	0.066	U

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-47 903

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: 20148

Matrix: (soil/water) WATER Lab Sample ID: 0148020

Sample wt/vol: 980. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/10/93

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/11/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/03/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.066	U
11104-28-2	Aroclor-1221	0.066	U
11141-16-5	Aroclor-1232	0.066	U
53469-21-9	Aroclor-1242	0.066	U
12672-29-6	Aroclor-1248	0.066	U
11097-69-1	Aroclor-1254	0.066	U
11096-82-5	Aroclor-1260	0.066	U

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: 20148

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
01	PBLK00	278 *	
02	PBLK06	118	
03	PBLK07	93	
04	FIELD BLANK	131	
05	MHW-1	95	
06	MHW-2	63	
07	MHW-3	119	
08	MHW-5	140	
09	MHW-6	135	
10	MHW-7	247 *	
11	MSB MW-45	123	
12	MW-1	109	
13	MW-23	110	
14	MW-27	111	
15	MW-35	83	
16	MW-43	97	
17	MW-44	112	
18	MW-45	123	
19	MW-45MS	114	
20	MW-45MSD	129	
21	MW-45STD	155 *	
22	MW-46	91	
23	MW-47	426 *	
24	REPLICATE	109	
25			
26			
27			
28			
29			
30			

ADVISORY
QC LIMITS
(24-154)

S1 (DBC) = Dibutylchlorendate

Column used to flag recovery values

* Values outside of QC limits

D Surrogates diluted out

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) 261-4458

PCB ~~Matrix Spike/Matrix Spike Duplicate~~ Recovery
Results Reported as ug/L mg/Kg ug/Kg

STD RECOVERY
03/19/93

Lab Name: IEA Contract:_____

Lab Code: IEA Case No.: 0148 SAS No.:_____ SDG No.: 20148

Matrix Spike - EPA Sample No.:
QC CHECK STD

Compound	Spike Added	Sample Concentration	MS Concentration	MS % Rec
AR 1242	1.0	0.0	0.95	95
AR 1260	1.0	0.0	1.10	110

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD

Comments: _____

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) 261-4458

PCB ~~Matrix Spike/Matrix Spike Duplicate~~ Recovery MSB Recovery BH 03/18/92
Results Reported as ug/L mg/Kg ug/Kg

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: 20148

Matrix Spike - EPA Sample No.: MSB MW-45

Compound	Spike Added	Sample Concentration	MS Concentration	MS % Rec
Aroclor 1260	0.2	0.0	0.18	90

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD

Comments: _____

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) 261-4458

PCB Matrix Spike/Matrix Spike Duplicate Recovery
Results Reported as ug/L mg/Kg ug/Kg

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: 20148

Matrix Spike - EPA Sample No.: MW-45 MS/MSD

Compound	Spike Added	Sample Concentration	MS Concentration	MS % Rec
AR 1260	0.2	0.0	0.21	105

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD
AR 1260	0.2	0.17	85	10.5

Comments: _____

PEST ORGANIC METHOD BLANK SUMMARY

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: 2 SDG No.: Z0148

Lab Sample ID: 0210-805 Lab File ID:

Matrix:(soil/water) WATER Level:(low/med) LOW

Date Extracted: 02/10/93 Extraction: (SepF/Cont/Sonc)SEPF

Date Analyzed (1): 03/02/93 Date Analyzed (2): 03/09/93

Time Analyzed (1): 05:09 Time Analyzed (2): 01:34

Instrument ID (1): GC4B Instrument ID (2): GC1B

GC Column ID (1): DB-1701 GC Column ID (2): RTX-35

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FIELD BLANK	0148006	03/02/93	03/10/93
02	MHW-3	0148002	03/02/93	03/09/93
03	MHW-5	0148001	03/02/93	
04	MHW-6	0148004	03/02/93	03/09/93
05	MHW-7	0148003	03/02/93	03/09/93
06	MW-27	0148008	03/03/93	
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
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24				
25				
26				

COMMENTS: _____

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK00

Job Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: ZQ148

Matrix: (soil/water) WATER Lab Sample ID: 0210-S05

Sample wt/vol: 1000. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/10/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/02/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.065	U
11104-28-2	Aroclor-1221	0.065	U
11141-16-5	Aroclor-1232	0.065	U
53469-21-9	Aroclor-1242	0.065	U
12672-29-6	Aroclor-1248	0.065	U
11097-69-1	Aroclor-1254	0.065	U
11096-82-5	Aroclor-1260	0.065	U

PESTICIDE METHOD BLANK SUMMARY

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: _____ 20148

Lab Sample ID: 0211-B09 Lab File ID:

Matrix:(soil/water) WATER Level:(low/med) LOW

Date Extracted: 02/11/93 Extraction: (SepF/Cont/Sonc)SEPF

Date Analyzed (1): 03/09/93 Date Analyzed (2): 03/10/93

Time Analyzed (1): 16:40 Time Analyzed (2): 04:27

Instrument ID (1): GC4B Instrument ID (2): GC1B

GC Column ID (1): DB-1701 GC Column ID (2): RTX-35

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	MSB-MW-45	0148009 MSB	03-02-93	
02	MW-43	0148011	03-02-93	
03	MW-23	0148019	03-03-93	
04	MW-44	0148012	03-02-93	
05	MW-45	0148009	03-02-93	
06	MW-45MS	0148009 MS	03-03-93	
07	MW-45MSD	0148009 MSD	03-03-93	
08	MW-45 SD	0148009 SD	03-02-93	
09	MW-46	0148013	03-02-93	03-10-93
10	MW-47	0148020	03-03-93	
11	MW-1	0148018	03-03-93	03-10-93
12	REPLICATE	0148017	03-03-93	
13				
14				
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16				
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24				
25				
26				

COMMENTS: _____

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
1117

PBLK06

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0211-609

Sample wt/vol: 1000. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/11/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/09/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.065	U
11104-28-2	Aroclor-1221	0.065	U
11141-16-5	Aroclor-1232	0.065	U
53469-21-9	Aroclor-1242	0.065	U
12672-29-6	Aroclor-1248	0.065	U
11097-69-1	Aroclor-1254	0.065	U
11096-82-5	Aroclor-1260	0.065	U

4C

METHOD BLANK SUMMARY

Lab Name: IEA Contract:

Code: IEA Case No.: 0148 SAS No.: SDG No.: 20148

Lab Sample ID: 0211-B09 ACID c/u Lab File ID:

Matrix: (soil/water) WATER Level: (low/med) Low

Date Extracted: 02-11-93 Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed (1): 03-09-93 Date Analyzed (2): 03-10-93

Time Analyzed (1): 06 17:33 Time Analyzed (2): 06:14

Instrument ID (1): GC4B Instrument ID (2): GC1B

GC Column ID (1): DB-1701 GC Column ID (2): RTX-35

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	HHN-1	0148010	03-09-93	03-08-93
02	HN-35	0148014	03-09-93	03-08-93
03	HHN-2	0148016	03-09-93	03-09-93
04		~~0148024~~ 03/15/93		
05				
06				
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26				

COMMENTS:

1 of 1

1D

PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLA07 1124

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: Z0148

Matrix: (soil/water) WATER Lab Sample ID: 0211-B09 AT1D c/w

Sample wt/vol: 1000. (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ dec. _____ Date Extracted: 02/11/93

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/09/93

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.065	U
11104-28-2	Aroclor-1221	0.065	U
11141-16-5	Aroclor-1232	0.065	U
53469-21-9	Aroclor-1242	0.065	U
12672-29-6	Aroclor-1248	0.065	U
11097-69-1	Aroclor-1254	0.065	U
11096-82-5	Aroclor-1260	0.065	U

NYSDEC 91 PROTOCOLS
PCB'S

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK SUNNYSIDE
SDG.#	Z0148
IEA ID:	30930-0148

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MHS3 1100

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) SOIL Lab Sample ID: 0148005

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B5044024.D

% Moisture: 20 decanted: (Y/N) N Date Received: 02/09/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/11/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 03/09/93

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 5.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	4100	U
11104-28-2	Aroclor-1221	8400	U
11141-16-5	Aroclor-1232	4100	U
53469-21-9	Aroclor-1242	3000	JP
12672-29-6	Aroclor-1248	4100	U
11097-69-1	Aroclor-1254	29000	P
11096-82-5	Aroclor-1260	22000	P

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MHS3DL 1169

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) SOIL Lab Sample ID: 0148005DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B5044023.D

% Moisture: 20 decanted: (Y/N) N Date Received: 02/09/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/11/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 03/09/93

Injection Volume: 1.0(uL) Dilution Factor: 1000.0

GPC Cleanup: (Y/N) Y pH: 5.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	41000	U
11104-28-2	Aroclor-1221	84000	U
11141-16-5	Aroclor-1232	41000	U
53469-21-9	Aroclor-1242	41000	U
12672-29-6	Aroclor-1248	41000	U
11097-69-1	Aroclor-1254	38000	JD
11096-82-5	Aroclor-1260	29000	JPD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW36 113

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) ~~SOIL~~ OIL Lab Sample ID: 0148007

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B5044025.D

% Moisture: 0 decanted: (Y/N) N Date Received: 02/09/93

Extraction: (SepF/Cont/Sonc) ~~SONC~~ Date Extracted: 02/11/93

Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/10/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	1000 ~~990~~	U
11104-28-2	Aroclor-1221	2000	U
11141-16-5	Aroclor-1232	1000 ~~990~~	U
53469-21-9	Aroclor-1242	~~990~~	U
12672-29-6	Aroclor-1248	~~990~~	U
11097-69-1	Aroclor-1254	~~990~~	U
11096-82-5	Aroclor-1260	14000	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW36DL 1187

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) ~~SOIL~~ OIL Lab Sample ID: 0148007DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B5044036.D

% Moisture: 0 decanted: (Y/N) N Date Received: 02/09/93

Extraction: (SepF/Cont/Sonc) ~~SONC~~ Date Extracted: 02/11/93

Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/10/93

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	10000 ~~9900~~	U
11104-28-2	Aroclor-1221	20000	U
11141-16-5	Aroclor-1232	10000 ~~9900~~	U
53469-21-9	Aroclor-1242	~~9900~~	U
12672-29-6	Aroclor-1248	~~9900~~	U
11097-69-1	Aroclor-1254	~~9900~~	U
11096-82-5	Aroclor-1260	14000	PD

3/17/93

+ OIL 2F

SOIL PESTICIDE SURROGATE RECOVERY

1149

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

GC Column(1): DB-1701 ID: 0.53 (mm) GC Column(2): RTX-35 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK02	77	82	63	64			0
02	PBLK05	87	84	68	59*			1
03	MW36MSB	74	83	61	62			0
04	MW36STD	95	86	69	64			0
05	MHS3DL	0D	0D	0D	0D			0
06	MHS3	0D	0D	0D	0D			0
07	MW36	0*	0*	84	76			2
08	MW36MS	0*	0*	37*	272*			4
09	MW36MSD	0*	0*	82	160*			3
10	MW36DL	312D	359D	408D	56D			0
11								
12								
13								
14								
15								
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28								
29								
30								

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

OIL

1150

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) 261-4458

PCB Matrix Spike/Matrix Spike Duplicate Recovery
Results Reported as ug/L mg/Kg ~~ug/Kg~~ ug/Kg

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: 20148

Matrix Spike - EPA Sample No.:
MW-36 MS/MSD

Compound	Spike Added	Sample Concentration	MS Concentration	MS % Rec
AR 1260	2000.	14,000	15,000	50.

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD
AR 1260	2000.	15,000	50.	0

Comments: _____

OIC

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) 261-4458

1151

PCB Matrix Spike/~~Matrix Spike Duplicate Recovery~~ 8082/16
Results Reported as ug/L mg/Kg (ug/Kg)

Lab Name: IEA Contract:_____

Lab Code: IEA Case No.: 0148 SAS No.:_____ SDG No.: 20148

Matrix Spike - EPA Sample No.:

MW-36 MS B

Compound	Spike Added	Sample Concentration	MS B Concentration	MS % Rec
AR1260	2000.	0	~~3500~~ 1700.	~~165.~~ 85. (8082/16)

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD

Comments: _____

OIL

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) 261-4458

ars 3/16

PCB Matrix Spike/~~Matrix Spike Duplicate~~ Recovery
Results Reported as ug/L mg/Kg (ug/Kg)

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0148 SAS No.: _____ SDG No.: 20148

Matrix Spike - EPA Sample No.:

MW-36 STD

Compound	Spike Added	Sample Concentration	MS Concentration	MS % Rec
AR 1242	10,000.	0	~~12,000~~ ~~25,000~~	120.
AR 1260	10,000.	0	~~24,000~~ 12,000	120.

2/3/16

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD

Comments: _____

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) 261-4458

PCB Matrix Spike/Matrix Spike Duplicate Recovery
Results Reported as ug/L mg/Kg ug/Kg

Lab Name: IEA 0148 Contract: 20148

Lab Code: IEA Case No.: ~~A06015~~ SAS No.: _____ SDG No.: B006O

Matrix Spike - EPA Sample No.:
QC CHECK STD

Compound	Spike Added	Sample Concentration	MS Concentration	MS % Rec
Ar 1242	330.	0	220.	67.
Ar 1260	330.	0	240.	73.

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD

Comments: _____

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) 261-4458

PCB Matrix Spike/Matrix Spike Duplicate Recovery
Results Reported as ug/L mg/Kg ~~ug/Kg~~ ug/Kg

Lab Name: IEA Contract: ~~0148~~ Z0148

Lab Code: IEA Case No.: ~~00615~~ 0148 SAS No.: _____ SDG No.: ~~B0060~~ B0060

Matrix Spike - EPA Sample No.: CS-64 MS/MSD

Compound	Spike Added	Sample Concentration	MS Concentration	MS % Rec
Ar 1260	~~8~~ 400.	1500.	1800.	75.

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD
Ar 1260	400.	1500.	0	~~18~~ 200.

Comments: _____

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) 261-4458

PCB Matrix Spike/Matrix Spike Duplicate Recovery
Results Reported as ug/L mg/Kg ug/Kg

Lab Name: IEA 0148 Contract: 20148

Lab Code: IEA Case No.: 00608 SAS No.: _____ SDG No.: B0060

Matrix Spike - EPA Sample No.: CS-64 MSB

Compound	Spike Added	Sample Concentration	MS Concentration	MS % Rec
AR1260	330.	0.	200.	61.

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD

Comments: _____

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK05 1157

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Lab Sample ID: 0211-B05 Lab File ID: B5044020.D

Matrix: (soil/water) ~~SOIL~~ O/L (03/16) Extraction: (SepF,Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 02/11/93

Date Analyzed (1): 03/09/93 Date Analyzed (2): 03/13/93

Time Analyzed (1): 1843 Time Analyzed (2): 0644

Instrument ID (1): HP58905B Instrument ID (2): HP58901A

GC Column (1):DB-1701 ID: 0.53(mm) GC Column (2):RTX-35 ID: 0.53(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	MW36	0148007	03/10/93	03/14/93
02	MW36DL	0148007DL	03/10/93	03/13/93
03	MW36MS	0148007MS	03/10/93	03/14/93
04	MW36MSB	0148007MSB	03/09/93	03/13/93
05	MW36MSD	0148007MSD	03/10/93	03/14/93
06	MW36STD	0148007STD	03/09/93	03/13/93
07				
08				
09				
10				
11				
12				
13				
14				
15				
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26				

COMMENTS: _____

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK05 1381

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) ~~SOIL~~ OIL Lab Sample ID: 0211-B05

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B5044020.D

% Moisture: 0 decanted: (Y/N) N Date Received: / /

Extraction: (SepF/Cont/Sonc) ~~SONC~~ Date Extracted: 02/11/93

Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/09/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	1000 ~~990~~	U
11104-28-2	Aroclor-1221	2000	U
11141-16-5	Aroclor-1232	1000 ~~990~~	U
53469-21-9	Aroclor-1242	~~990~~	U
12672-29-6	Aroclor-1248	~~990~~	U
11097-69-1	Aroclor-1254	~~990~~	U
11096-82-5	Aroclor-1260	~~990~~	U

KM 3/17/93

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK02 1153

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Lab Sample ID: 0211-B01 (3/17/93) Lab File ID: B5044019.D

Matrix: (soil/water) ~~SOIL~~ SOIL (4/23/16) Extraction: (SepF,Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 02/11/93

Date Analyzed (1): 03/09/93 Date Analyzed (2): 03/13/93

Time Analyzed (1): 1750 Time Analyzed (2): 0550

Instrument ID (1): HP58905B Instrument ID (2): HP58901A

GC Column (1):DB-1701 ID: 0.53(mm) GC Column (2):RTX-35 ID: 0.53(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	MHS3	0148005	03/09/93	03/12/93
02	MHS3DL	0148005DL	03/09/93	03/12/93
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
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19				
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21				
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25				
26				

COMMENTS: _____

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK02 1375

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix: (soil/water) SOIL Lab Sample ID: 0211-B01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B5044019.D

% Moisture: 0 decanted: (Y/N) N Date Received: / /

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/11/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 03/09/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

METALS DATA

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK SUNNYSIDE
SDG#:	Z0148
IEA ID:	30930-0148

U.S. EPA - CLP

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW-45

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix (soil/water): WATER Lab Sample ID: Z14809

Level (low/med): LOW Date Received: 02/10/93

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1030			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium	67.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	47600			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	31.2			P
7439-89-6	Iron	1760			P
7439-92-1	Lead	2.2	B		F
7439-95-4	Magnesium	12500			P
7439-96-5	Manganese	142			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	21.0	U		P
7440-09-7	Potassium	2950	B		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	14700			P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	27.8			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MHW-1

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix (soil/water): WATER Lab Sample ID: Z14810

Level (low/med): LOW Date Received: 02/10/93

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	131	B		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	5.0	B		F
7440-39-3	Barium	150	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	52300			P
7440-47-3	Chromium	7.6	B		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	50.6			P
7439-89-6	Iron	33000			P
7439-92-1	Lead	15.1			F
7439-95-4	Magnesium	16000			P
7439-96-5	Manganese	1670			P
7439-97-6	Mercury	1.6			CV
7440-02-0	Nickel	21.0	U		P
7440-09-7	Potassium	4940	B		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	90000			P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	79.5			P
	Cyanide				NR

Color Before: YELLOW Clarity Before: CLOUDY Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW-43

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix (soil/water): WATER Lab Sample ID: Z14811

Level (low/med): LOW Date Received: 02/10/93

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4420			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.2	B		F
7440-39-3	Barium	142	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	29800			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	5.6	B		P
7440-50-8	Copper	46.2			P
7439-89-6	Iron	8410			P
7439-92-1	Lead	5.4			F
7439-95-4	Magnesium	15000			P
7439-96-5	Manganese	3470			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	21.0	U		P
7440-09-7	Potassium	1590	B		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	213000			P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	55.1			P
	Cyanide				NR

Color Before: YELLOW Clarity Before: CLOUDY Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

MW-44

INORGANIC ANALYSIS DATA SHEET

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix (soil/water): WATER Lab Sample ID: Z14812

Level (low/med): LOW Date Received: 02/10/93

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3260			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.0	B	W	F
7440-39-3	Barium	207			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	148000			P
7440-47-3	Chromium	9.3	B		P
7440-48-4	Cobalt	3.4	B		P
7440-50-8	Copper	43.0			P
7439-89-6	Iron	8930			P
7439-92-1	Lead	5.7			F
7439-95-4	Magnesium	49800			P
7439-96-5	Manganese	1750			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	21.0	U		P
7440-09-7	Potassium	7470			P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	91900			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	9.2	B		P
7440-66-6	Zinc	36.3			P
	Cyanide				NR

Color Before: YELLOW Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW-46

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix (soil/water): WATER Lab Sample ID: Z14813

Level (low/med): LOW Date Received: 02/10/93

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	80000			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	10.9			F
7440-39-3	Barium	1030			P
7440-41-7	Beryllium	3.7	B		P
7440-43-9	Cadmium	4.4	B		F
7440-70-2	Calcium	57000			P
7440-47-3	Chromium	146			P
7440-48-4	Cobalt	111			P
7440-50-8	Copper	421			P
7439-89-6	Iron	152000			P
7439-92-1	Lead	165			F
7439-95-4	Magnesium	47200			P
7439-96-5	Manganese	9410			P
7439-97-6	Mercury	0.40			CV
7440-02-0	Nickel	186			P
7440-09-7	Potassium	19800			P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	41400			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	205			P
7440-66-6	Zinc	696			P
	Cyanide				NR

Color Before: ORANGE Clarity Before: OPAQUE Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-35

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix (soil/water): WATER Lab Sample ID: Z14814

Level (low/med): LOW Date Received: 02/10/93

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9210			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	16.5 ~~12.7~~	B	S 2/7/10	F
7440-39-3	Barium	696		2/7/10	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	65300			P
7440-47-3	Chromium	27.8			P
7440-48-4	Cobalt	6.2	B		P
7440-50-8	Copper	114			P
7439-89-6	Iron	45200			P
7439-92-1	Lead	207			F
7439-95-4	Magnesium	15100			P
7439-96-5	Manganese	1280			P
7439-97-6	Mercury	0.45			CV
7440-02-0	Nickel	22.6	B		P
7440-09-7	Potassium	6180			P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	131000			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	51.4			P
7440-66-6	Zinc	153			P
	Cyanide				NR

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

MHW-2

INORGANIC ANALYSIS DATA SHEET

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix (soil/water): WATER Lab Sample ID: Z14816

Level (low/med): LOW Date Received: 02/10/93

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	501			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.8	B		F
7440-39-3	Barium	154	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	7.8			P
7440-70-2	Calcium	8380			P
7440-47-3	Chromium	34.3			P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	94.5			P
7439-89-6	Iron	15300			P
7439-92-1	Lead	21.6		S	F
7439-95-4	Magnesium	2010	B		P
7439-96-5	Manganese	175			P
7439-97-6	Mercury	2.0			CV
7440-02-0	Nickel	21.0	U		P
7440-09-7	Potassium	2660	B		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	12800			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	130			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

REPLICATE

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix (soil/water): WATER Lab Sample ID: Z14817

Level (low/med): LOW Date Received: 02/10/93

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	872			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.2	B		P
7440-39-3	Barium	66.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	47700			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	19.1	B		P
7439-89-6	Iron	1570			P
7439-92-1	Lead	2.2	B		P
7439-95-4	Magnesium	12400			P
7439-96-5	Manganese	126			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	21.0	U		P
7440-09-7	Potassium	3040	B		P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	14700			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	20.3			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW-1

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix (soil/water): WATER Lab Sample ID: Z14816

Level (low/med): LOW Date Received: 02/10/93

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12100			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.7	B		F
7440-39-3	Barium	246			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	127000			P
7440-47-3	Chromium	18.5			P
7440-48-4	Cobalt	11.1	B		P
7440-50-8	Copper	63.0			P
7439-89-6	Iron	22900			P
7439-92-1	Lead	17.2			F
7439-95-4	Magnesium	51900			P
7439-96-5	Manganese	914			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	38.6	B		P
7440-09-7	Potassium	8060			P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	6680			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	28.5	B		P
7440-66-6	Zinc	98.0			P
	Cyanide				NR

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-47

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix (soil/water): WATER Lab Sample ID: Z14820

Level (low/med): LOW Date Received: 02/10/93

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7660			P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	2.1	B	W	F
7440-39-3	Barium	67.6	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.2	B		P
7440-70-2	Calcium	83800			P
7440-47-3	Chromium	17.4			P
7440-48-4	Cobalt	5.8	B		P
7440-50-8	Copper	38.8			P
7439-89-6	Iron	9890			P
7439-92-1	Lead	10.8			F
7439-95-4	Magnesium	28000			P
7439-96-5	Manganese	135			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	21.1	B		P
7440-09-7	Potassium	7160			P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	61900			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	47.0	B		P
7440-66-6	Zinc	53.0			P
	Cyanide				NR

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

DUPLICATES

EPA SAMPLE NO.

MW-4S D

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	200.0	1031.2200		932.7200		10.0		P
Antimony		21.0000	U	21.0000	U			P
Arsenic		1.0000	U	1.0000	U			P
Barium		67.5400	B	67.5500	B	0.0		P
Beryllium		1.0000	U	1.0000	U			P
Cadmium		2.0000	U	2.0000	U			P
Calcium		47610.1200		47419.5200		0.4		P
Chromium		3.0000	U	3.0400	B	200.0		P
Cobalt		3.0000	U	3.0000	U			P
Copper	25.0	31.2300		26.2100		17.5		P
Iron		1759.7000		1646.0000		6.7		P
Lead		2.2000	B	2.7000	B	20.4		P
Magnesium	5000.0	12506.2000		12405.2300		0.8		P
Manganese		141.9200		136.8600		3.6		P
Mercury		0.2000	U	0.2000	U			CV
Nickel		21.0000	U	21.0000	U			P
Potassium		2946.1500	B	3228.4500	B	9.1		P
Selenium		2.0000	U	2.0000	U			P
Silver		3.0000	U	3.0000	U			P
Sodium	5000.0	14739.2700		14704.6100		0.2		P
Thallium		2.0000	U	2.0000	U			P
Vanadium		6.0000	U	6.0000	U			P
Zinc	20.0	27.7700		23.9000		15.0		P
Cyanide								NR

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.
MW-45S

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix (soil/water): WATER Level (low/med): LOW
% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2971.0100		1031.2200		2000.00	97.0		P
Antimony	75-125	488.0500		21.0000	U	500.00	97.6		P
Arsenic	75-125	36.5000		1.0000	U	40.00	91.2		P
Barium	75-125	1982.4200		67.5400	B	2000.00	95.7		P
Beryllium	75-125	48.7700		1.0000	U	50.00	97.5		P
Cadmium	75-125	45.4000		2.0000	U	50.00	90.8		P
Calcium									NR
Chromium	75-125	197.8100		3.0000	U	200.00	98.9		P
Cobalt	75-125	485.7000		3.0000	U	500.00	97.1		P
Copper	75-125	273.3200		31.2300		250.00	96.8		P
Iron	75-125	2594.5100		1759.7000		1000.00	83.5		P
Lead	75-125	23.7000		2.2000	B	20.00	107.5		P
Magnesium									NR
Manganese	75-125	612.5000		141.9200		500.00	94.1		P
Mercury	75-125	0.9900		0.2000	U	1.00	99.0		CV
Nickel	75-125	471.2600		21.0000	U	500.00	94.3		P
Potassium									NR
Selenium	75-125	10.1000		2.0000	U	10.00	101.0		P
Silver	75-125	41.4200		3.0000	U	50.00	82.8		P
Sodium									NR
Thallium	75-125	43.3000		2.0000	U	50.00	86.6		P
Vanadium	75-125	476.2000		6.0000	U	500.00	95.2		P
Zinc	75-125	506.1900		27.7700		500.00	95.7		P
Cyanide									NR

Comments:

U.S. EPA - CLP

SB

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

A

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: Z0148

Matrix (soil/water): Level (low/med):

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

3
BLANKS

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: Z0148

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	22.0	U	104.9	B	22.0	U	22.0	U	22.000	U	P
Antimony	-29.9	B	-26.5	B	21.0	U	-27.8	B	-23.850	B	P
Arsenic	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Barium	6.0	U	6.0	U	6.0	U	6.0	U	6.000	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cadmium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Calcium	11.0	U	15.0	B	11.0	U	11.0	U	12.290	B	P
Chromium	3.0	U	3.0	U	3.0	U	3.0	U	-3.060	B	P
Cobalt	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Copper	-4.7	B	3.0	U	-5.0	B	-5.0	B	-4.430	B	P
Iron	82.0	U	82.0	U	82.0	U	82.0	U	82.000	U	P
Lead	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Magnesium	23.0	U	27.4	B	23.0	U	23.0	U	23.000	U	P
Manganese	1.0	U	2.4	B	1.0	U	1.0	U	5.320	B	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	CV
Nickel	21.0	U	21.0	U	21.0	U	21.0	U	21.000	U	P
Potassium	626.0	U	626.0	U	626.0	U	626.0	U	626.000	U	P
Selenium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Silver	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Sodium	29.0	U	29.0	U	29.0	U	29.0	U	29.000	U	P
Thallium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Vanadium	6.0	U	6.0	U	6.0	U	6.0	U	6.000	U	P
Zinc	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Cyanide											NR

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3
BLANKS

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: Z0148

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			22.0	U							P
Antimony			21.0	U							P
Arsenic			1.0	U							P
Barium			6.0	U							P
Beryllium			1.0	U							P
Cadmium			2.0	U							P
Calcium			11.0	U							P
Chromium			3.0	U							P
Cobalt			3.0	U							P
Copper			-6.8	B							P
Iron			82.0	U							P
Lead			1.0	U							P
Magnesium			23.0	U							P
Manganese			1.0	U							P
Mercury			0.2	U	0.2	U			0.200	U	CV
Nickel			21.0	U							P
Potassium			626.0	U							P
Selenium			2.0	U							P
Silver			3.0	U							P
Sodium			29.0	U							P
Thallium			2.0	U							P
Vanadium			6.0	U							P
Zinc			4.0	U							NR
Cyanide											

3
BLANKS

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: ZO148

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	1.3	B	1.0	U	1.3	B	1.0	B			P
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	1.0	U	1.0	U	1.0	U	1.0	U			P
Magnesium											NR
Manganese											NR
Mercury	0.2	U	0.2	U	0.2	U	0.2	U			CV
Nickel											NR
Potassium											NR
Selenium	2.0	U	2.0	U	2.0	U	2.0	U			P
Silver											NR
Sodium											NR
Thallium	2.0	U	2.0	U	2.0	U	2.0	U			P
Vanadium											NR
Zinc											NR
Cyanide											NR

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3
BLANKS

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0148 SAS No.: SDG No.: Z0148

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	1.0	U	1.0	U	-1.6	B					F
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	1.0	U	1.0	U	1.0	U					F
Magnesium											NR
Manganese											NR
Mercury			0.2	U							CV
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR