1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CBZ86

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297989

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH097989A19

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 31 Date Analyzed: 11/04/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	22	B
67-64-1	Acetone	10	BJ
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-34-3	1,1-Dichloroethane	7	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	14	U
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	14	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	Trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-Pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
1330-20-7	Total Xylenes	7	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

ORIGINAL (Red)

CBZ86

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297989

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH097989B20

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 31 dec. ____ Date Extracted: 11/02/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/03/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2800	
111-44-4	bis(2-Chloroethyl)Ether	480	U
95-57-8	2-Chlorophenol	480	U
541-73-1	1,3-Dichlorobenzene	480	U
106-46-7	1,4-Dichlorobenzene	480	U
100-51-6	Benzyl Alcohol	830	
95-50-1	1,2-Dichlorobenzene	480	U
95-48-7	2-Methylphenol	480	U
39638-32-9	bis(2-Chloroisopropyl)Ether	480	U
106-44-5	4-Methylphenol	70	J
621-64-7	N-Nitroso-Di-n-Propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	130	J
65-85-0	Benzoic Acid	280	J
111-91-1	bis(2-Chloroethoxy)Methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
120-82-1	1,2,4-Trichlorobenzene	480	U
91-20-3	Naphthalene	84	J
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
59-50-7	4-Chloro-3-Methylphenol	480	U
91-57-6	2-Methylnaphthalene	110	J
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	2300	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	2300	U
131-11-3	Dimethyl Phthalate	480	U
208-96-8	Acenaphthylene	480	U
606-20-2	2,6-Dinitrotoluene	480	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CBZ86

Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297989

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH097989B20

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 31 dec. ____ Date Extracted: 11/02/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/03/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2300	U
83-32-9	Acenaphthene	99	J
51-28-5	2,4-Dinitrophenol	2300	U
100-02-7	4-Nitrophenol	2300	U
132-64-9	Dibenzofuran	480	U
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
86-73-7	Fluorene	72	J
100-01-6	4-Nitroaniline	2300	U
534-52-1	4,6-Dinitro-2-Methylphenol	2300	U
86-30-6	N-Nitrosodiphenylamine (1)	480	U
101-55-3	4-Bromophenyl-phenylether	480	U
118-74-1	Hexachlorobenzene	480	U
87-86-5	Pentachlorophenol	2300	U
85-01-8	Phenanthrene	910	
120-12-7	Anthracene	150	J
84-74-2	Di-n-Butylphthalate	2100	
206-44-0	Fluoranthene	1800	
129-00-0	Pyrene	1200	
85-68-7	Butylbenzylphthalate	5200	
91-94-1	3,3'-Dichlorobenzidine	960	U
56-55-3	Benzo(a)Anthracene	710	
218-01-9	Chrysene	790	
117-81-7	bis(2-Ethylhexyl)Phthalate	7100	B
117-84-0	Di-n-Octyl Phthalate	480	U
205-99-2	Benzo(b)Fluoranthene	1600	X
207-08-9	Benzo(k)Fluoranthene	1600	X
50-32-8	Benzo(a)Pyrene	760	
193-39-5	Indeno(1,2,3-cd)Pyrene	190	J
53-70-3	Dibenzo(a,h)Anthracene	55	J
191-24-2	Benzo(g,h,i)Perylene	150	J

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBZ86

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297989

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 31 dec. ____ Date Extracted: 11/02/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/07/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 2.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	23.	U
319-85-7	beta-BHC	23.	U
319-86-8	delta-BHC	23.	U
58-89-9	gamma-BHC (Lindane)	23.	U
76-44-8	Heptachlor	23.	U
309-00-2	Aldrin	23.	U
1024-57-3	Heptachlor epoxide	23.	U
959-98-8	Endosulfan I	23.	U
60-57-1	Dieldrin	46.	U
72-55-9	4,4'-DDE	46.	U
72-20-8	Endrin	46.	U
33213-65-9	Endosulfan II	46.	U
72-54-8	4,4'-DDD	46.	U
1031-07-8	Endosulfan sulfate	46.	U
50-29-3	4,4'-DDT	46.	U
72-43-5	Methoxychlor	230	U
53494-70-5	Endrin ketone	46.	U
5103-71-9	alpha-Chlordane	230	U
5103-74-2	gamma-Chlordane	230	U
8001-35-2	Toxaphene	460	U
12674-11-2	Aroclor-1016	230	U
11104-28-2	Aroclor-1221	230	U
11141-16-5	Aroclor-1232	230	U
53469-21-9	Aroclor-1242	230	U
12672-29-6	Aroclor-1248	230	U
11097-69-1	Aroclor-1254	460	U
11096-82-5	Aroclor-1260	460	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBZ87

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297996

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH097996A19

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 29 Date Analyzed: 11/04/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	16	B
67-64-1	Acetone	7	BJ
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-34-3	1,1-Dichloroethane	7	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	14	U
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	14	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	Trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-Pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
1330-20-7	Total Xylenes	7	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CBZ87

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297996

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH097996B20

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 29 dec. ____ Date Extracted: 11/02/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/03/89

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1100	
111-44-4	bis(2-Chloroethyl)Ether	460	U
95-57-8	2-Chlorophenol	460	U
541-73-1	1,3-Dichlorobenzene	460	U
106-46-7	1,4-Dichlorobenzene	460	U
100-51-6	Benzyl Alcohol	440	J
95-50-1	1,2-Dichlorobenzene	460	U
95-48-7	2-Methylphenol	50	J
39638-32-9	bis(2-Chloroisopropyl)Ether	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-Di-n-Propylamine	460	U
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	56	J
65-85-0	Benzoic Acid	210	J
111-91-1	bis(2-Chloroethoxy)Methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
120-82-1	1,2,4-Trichlorobenzene	460	U
91-20-3	Naphthalene	56	J
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
59-50-7	4-Chloro-3-Methylphenol	460	U
91-57-6	2-Methylnaphthalene	69	J
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	2300	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	2300	U
131-11-3	Dimethyl Phthalate	460	U
208-96-8	Acenaphthylene	460	U
606-20-2	2,6-Dinitrotoluene	460	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

ORIGINAL (Rev)

CBZ87

Name: COMPUCHEM LABS Contract: 68-01-7397

Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297996

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH097996B20

Level: (low/med) LOW Date Received: 10/26/89

Moisture: not dec. 29 dec. ____ Date Extracted: 11/02/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/03/89

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2300	U
83-32-9	Acenaphthene	460	U
51-28-5	2,4-Dinitrophenol	2300	U
100-02-7	4-Nitrophenol	2300	U
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
86-73-7	Fluorene	460	U
100-01-6	4-Nitroaniline	2300	U
534-52-1	4,6-Dinitro-2-Methylphenol	2300	U
86-30-6	N-Nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
87-86-5	Pentachlorophenol	2300	U
85-01-8	Phenanthrene	260	J
120-12-7	Anthracene	50	J
84-74-2	Di-n-Butylphthalate	730	
206-44-0	Fluoranthene	470	
129-00-0	Pyrene	360	J
85-68-7	Butylbenzylphthalate	3500	
91-94-1	3,3'-Dichlorobenzidine	930	U
56-55-3	Benzo(a)Anthracene	230	J
218-01-9	Chrysene	270	J
117-81-7	bis(2-Ethylhexyl)Phthalate	2900	B
117-84-0	Di-n-Octyl Phthalate	3200	
205-99-2	Benzo(b)Fluoranthene	330	J
207-08-9	Benzo(k)Fluoranthene	230	J
50-32-8	Benzo(a)Pyrene	220	J
193-39-5	Indeno(1,2,3-cd)Pyrene	460	U
53-70-3	Dibenzo(a,h)Anthracene	460	U
191-24-2	Benzo(g,h,i)Perylene	460	U

(1) - Cannot be separated from Diphenylamine

ORIGINAL (Red)

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBZ87

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297996

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 29 dec. ____ Date Extracted: 11/02/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/07/89

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 2.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	22.	U
319-85-7	beta-BHC	22.	U
319-86-8	delta-BHC	22.	U
58-89-9	gamma-BHC (Lindane)	22.	U
76-44-8	Heptachlor	22.	U
309-00-2	Aldrin	22.	U
1024-57-3	Heptachlor epoxide	22.	U
959-98-8	Endosulfan I	22.	U
60-57-1	Dieldrin	45.	U
72-55-9	4,4'-DDE	45.	U
72-20-8	Endrin	45.	U
33213-65-9	Endosulfan II	45.	U
72-54-8	4,4'-DDD	45.	U
1031-07-8	Endosulfan sulfate	45.	U
50-29-3	4,4'-DDT	45.	U
72-43-5	Methoxychlor	220	U
53494-70-5	Endrin ketone	45.	U
5103-71-9	alpha-Chlordane	220	U
5103-74-2	gamma-Chlordane	220	U
8001-35-2	Toxaphene	450	U
12674-11-2	Aroclor-1016	220	U
11104-28-2	Aroclor-1221	220	U
11141-16-5	Aroclor-1232	220	U
53469-21-9	Aroclor-1242	220	U
12672-29-6	Aroclor-1248	220	U
11097-69-1	Aroclor-1254	450	U
11096-82-5	Aroclor-1260	450	U

ORIGINAL
(Red)

WESTON

Appendix D

Reviewed and Corrected
Tentatively Identified Compounds

ORIGINAL (Red)

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ70

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Matrix: (soil/water) WATER Lab Sample ID: 297936

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN097936A12

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. ____ Date Analyzed: 11/01/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

ORIGINAL (Red)

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ70

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Matrix: (soil/water) WATER Lab Sample ID: 297936

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ097936A22

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/31/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/02/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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ORIGINAL (Red)

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ71

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Matrix: (soil/water) WATER Lab Sample ID: 297943

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN097943A12

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. ____ Date Analyzed: 11/01/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

ORIGINAL (Red)

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ71

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Matrix: (soil/water) WATER Lab Sample ID: 297943

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH097943A22

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/31/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/02/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	17.75	12	J
2.	UNKNOWN SUBST. HYDROCARBON	20.02	20	J

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ORIGINAL (Red)

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ72

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Matrix: (soil/water) WATER Lab Sample ID: 297947

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN097947A12

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. ____ Date Analyzed: 11/01/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

ORIGINAL (Red)

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ72

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Matrix: (soil/water) WATER Lab Sample ID: 297947

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH097947A22

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/31/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/02/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I SV-TIC 1/87 Rev.

ORIGINAL (Red)

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ73

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Matrix: (soil/water) WATER Lab Sample ID: 297952

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CR097952A12

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. ____ Date Analyzed: 11/01/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

ORIGINAL (Red)

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ73

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Matrix: (soil/water) WATER Lab Sample ID: 297952

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G2J97952C22

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/31/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/07/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.55	110	J
2. 1197-40-6	FURAN, 2,2'-METHYLENEBIS-	7.93	46	J
3. 4437-22-3	FURAN, 2,2'-[OXYBIS(METHYLEN	9.94	26	J
4.	UNKNWON	10.97	48	J
5.	UNKNOWN	12.32	30	J

FORM I SV-TIC 1/87 Rev.

ORIGINAL (Red)

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Instrument ID: 22 Calibration date: 11/02/89 Time: 0053

Lab File ID: HG391102C22 Init. Calib. Date(s): 10/28/89 10/28/89

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

COMPOUND	$\overline{RRF}$	RRF50	%D		
Dibenzofuran	1.498	1.670	-11.5		SBLK71
2,4-Dinitrotoluene	0.380	0.415	-9.2		CBZ74
Diethylphthalate	1.481	1.685	-13.8		
4-Chlorophenyl-phenylether	0.748	0.630	15.8		CBZ74MS
Fluorene	1.508	1.391	7.8		
4-Nitroaniline	0.239	0.245	-2.5		CBZ74MSD
4,6-Dinitro-2-Methylphenol	0.130	0.136	-4.6		
N-Nitrosodiphenylamine (1)	* 0.740	0.648	12.4	*	CBZ71
4-Bromophenyl-phenylether	0.273	0.211	22.7		
Hexachlorobenzene	0.326	0.242	25.8		CBZ70
Pentachlorophenol	* 0.145	0.113	22.1	*	CBZ72
Phenanthrene	1.199	1.204	-0.4		
Anthracene	1.138	1.119	1.7		
Di-n-Butylphthalate	1.532	1.882	-22.9		
Fluoranthene	* 0.930	1.025	-10.2	*	
Pyrene	1.933	1.625	15.9		
Butylbenzylphthalate	1.049	1.207	-15.1		
3,3'-Dichlorobenzidine	0.155	0.217	-40.0		
Benzo(a)Anthracene	1.157	1.231	-6.4		
Chrysene	1.128	1.051	6.8		
bis(2-Ethylhexyl)Phthalate	1.504	1.691	-12.4		
Di-n-Octyl Phthalate	* 2.726	3.235	-18.7	*	
Benzo(b)Fluoranthene	1.415	1.371	3.1		
Benzo(k)Fluoranthene	1.740	1.493	14.2		
Benzo(a)Pyrene	* 1.153	1.084	6.0	*	
Indeno(1,2,3-cd)Pyrene	1.347	1.266	6.0		
Dibenzo(a,h)Anthracene	0.998	0.937	6.1		
Benzo(g,h,i)Perylene	1.090	1.084	0.6		
Nitrobenzene-d5	0.623	0.559	10.3		
2-Fluorobiphenyl	1.318	1.305	1.0		
Terphenyl-d14	1.348	1.024	24.0		
Phenol-d5	1.484	1.336	10.0		
2-Fluorophenol	1.522	1.199	21.2		
2,4,6-Tribromophenol	0.151	0.121	19.9		

(1) Cannot be separated from Diphenylamine

FORM VII SV-2 1/87 Rev.

ORIGINAL (Red)

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Instrument ID: 22 Calibration date: 11/02/89 Time: 1704

Lab File ID: HH391102B22 Init. Calib. Date(s): 10/28/89 10/28/89

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

COMPOUND		$\overline{RRF}$	RRF50	%D	
Phenol	*	1.563	1.552	0.7	*
bis(2-Chloroethyl)Ether		1.483	1.216	18.0	
2-Chlorophenol		1.395	1.376	1.4	
1,3-Dichlorobenzene		1.485	1.588	-6.9	
1,4-Dichlorobenzene	*	1.510	1.520	-0.7	*
Benzyl Alcohol		0.920	0.704	23.5	
1,2-Dichlorobenzene		1.352	1.434	-6.1	
2-Methylphenol		1.113	1.048	5.8	
bis(2-Chloroisopropyl)Ether		1.672	1.190	28.8	
4-Methylphenol		1.148	0.986	14.1	
N-Nitroso-Di-n-Propylamine	#	1.266	1.040	17.9	#
Hexachloroethane		0.905	0.830	8.3	
Nitrobenzene		0.619	0.552	10.8	
Isophorone		0.919	0.956	-4.0	
2-Nitrophenol	*	0.242	0.239	1.2	*
2,4-Dimethylphenol		0.472	0.449	4.9	
Benzoic Acid		0.181	0.144	20.4	
bis(2-Chloroethoxy)Methane		0.562	0.472	16.0	
2,4-Dichlorophenol	*	0.334	0.350	-4.8	*
1,2,4-Trichlorobenzene		0.381	0.419	-10.0	
Naphthalene		0.943	1.216	-29.0	
4-Chloroaniline		0.475	0.483	-1.7	
Hexachlorobutadiene	*	0.212	0.250	-17.9	*
4-Chloro-3-Methylphenol	*	0.413	0.362	12.4	*
2-Methylnaphthalene		0.597	0.715	-19.8	
Hexachlorocyclopentadiene	#	0.406	0.422	-3.9	#
2,4,6-Trichlorophenol	*	0.449	0.404	10.0	*
2,4,5-Trichlorophenol		0.474	0.422	11.0	
2-Chloronaphthalene		1.377	1.301	5.5	
2-Nitroaniline		0.719	0.562	21.8	
Dimethyl Phthalate		1.394	1.512	-8.5	
Acenaphthylene		1.674	1.852	-10.6	
2,6-Dinitrotoluene		0.349	0.343	1.7	
3-Nitroaniline		0.326	0.311	4.6	
Acenaphthene	*	1.285	1.198	6.8	*
2,4-Dinitrophenol	#	0.129	0.110	14.7	#
4-Nitrophenol	#	0.407	0.309	24.1	#

CBZ75
CBZ76

FORM VII SV-1 1/87 Rev.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Instrument ID: 22 Calibration date: 11/02/89 Time: 1704

Lab File ID: HH891102B22 Init. Calib. Date(s): 10/28/89 10/28/89

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

COMPOUND	$\overline{RRF}$	RRF50	%D	
Dibenzofuran	1.498	1.666	-11.2	
2,4-Dinitrotoluene	0.380	0.397	-4.5	
Diethylphthalate	1.481	1.638	-10.6	
4-Chlorophenyl-phenylether	0.748	0.562	24.9	
Fluorene	1.508	1.263	16.3	
4-Nitroaniline	0.239	0.237	0.8	
4,6-Dinitro-2-Methylphenol	0.130	0.113	13.1	
N-Nitrosodiphenylamine (1) *	0.740	0.654	11.6	*
4-Bromophenyl-phenylether	0.273	0.219	19.8	
Hexachlorobenzene	0.326	0.256	21.5	
Pentachlorophenol *	0.145	0.171	-17.9	*
Phenanthrene	1.199	1.226	-2.3	
Anthracene	1.138	1.181	-3.8	
Di-n-Butylphthalate	1.532	1.808	-18.0	
Fluoranthene *	0.930	0.927	0.3	*
Pyrene	1.933	1.754	9.3	
Butylbenzylphthalate	1.049	1.165	-11.1	
3,3'-Dichlorobenzidine	0.155	0.188	-21.3	
Benzo(a)Anthracene	1.157	1.125	2.8	
Chrysene	1.128	1.025	9.1	
bis(2-Ethylhexyl)Phthalate	1.504	1.566	-4.1	
Di-n-Octyl Phthalate *	2.726	3.026	-11.0	*
Benzo(b)Fluoranthene	1.415	1.170	17.3	
Benzo(k)Fluoranthene	1.740	1.108	36.3	
Benzo(a)Pyrene *	1.153	1.078	6.5	*
Indeno(1,2,3-cd)Pyrene	1.347	1.194	11.4	
Dibenzo(a,h)Anthracene	0.998	0.834	16.4	
Benzo(g,h,i)Perylene	1.090	1.001	8.2	
Nitrobenzene-d5	0.623	0.566	9.1	
2-Fluorobiphenyl	1.318	1.370	-3.9	
Terphenyl-d14	1.348	1.043	22.6	
Phenol-d5	1.484	1.260	15.1	
2-Fluorophenol	1.522	1.166	23.4	
2,4,6-Tribromophenol	0.151	0.124	17.9	

CBZ75
CBZ76

(1) Cannot be separated from Diphenylamine

FORM VII SV-2 1/87 Rev.

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Instrument ID: 22 Calibration Date(s): 11/04/89 11/04/89

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = HK891104A22 RRF50 = HI891104A22
RRF80 = HM891104A22 RRF120= HL891104A22 RRF160= HJ891104A22

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	1.644	1.741	1.805	1.917	1.889	1.799	6.2*
bis(2-Chloroethyl)Ether	1.444	1.462	1.581	1.614	1.608	1.542	5.3
2-Chlorophenol	1.287	1.340	1.483	1.459	1.547	1.423	7.5
1,3-Dichlorobenzene	1.607	1.634	1.600	1.666	1.780	1.657	4.4
1,4-Dichlorobenzene *	1.618	1.600	1.670	1.782	1.818	1.698	5.8*
Benzyl Alcohol	0.402	0.448	0.487	0.494	0.411	0.448	9.4
1,2-Dichlorobenzene	1.466	1.488	1.601	1.546	1.786	1.577	8.1
2-Methylphenol	1.087	1.157	1.274	1.168	1.313	1.200	7.7
bis(2-Chloroisopropyl)Ether	1.848	1.877	2.078	2.089	2.514	2.081	12.8
4-Methylphenol	1.112	1.221	1.273	1.319	2.241	1.433	32.0
N-Nitroso-Di-n-Propylamine #	1.167	1.199	1.374	1.338	1.575	1.331	12.2#
Hexachloroethane	0.762	0.857	0.898	0.903	1.067	0.897	12.3
Nitrobenzene	0.503	0.579	0.624	0.613	0.635	0.591	9.0
Isophorone	0.835	0.978	0.940	0.991	0.949	0.939	6.6
2-Nitrophenol *	0.165	0.202	0.218	0.226	0.250	0.212	14.9*
2,4-Dimethylphenol	0.347	0.418	0.413	0.441	0.505	0.425	13.4
Benzoic Acid	0.121	0.144	0.190	0.194	0.206	0.171	21.4
bis(2-Chloroethoxy)Methane	0.449	0.500	0.546	0.571	0.552	0.524	9.4
2,4-Dichlorophenol *	0.254	0.301	0.311	0.316	0.338	0.304	10.2*
1,2,4-Trichlorobenzene	0.314	0.358	0.348	0.369	0.378	0.353	7.0
Naphthalene	1.086	1.288	1.252	1.269	1.208	1.221	6.6
4-Chloroaniline	0.335	0.249	0.281	0.315	0.274	0.291	11.7
Hexachlorobutadiene *	0.168	0.186	0.179	0.186	0.189	0.182	4.6*
4-Chloro-3-Methylphenol *	0.317	0.340	0.371	0.406	0.389	0.365	9.9*
2-Methylnaphthalene	0.607	0.688	0.708	0.768	0.707	0.696	8.3
Hexachlorocyclopentadiene #	0.259	0.289	0.338	0.370	0.390	0.329	16.6#
2,4,6-Trichlorophenol *	0.321	0.375	0.387	0.425	0.414	0.384	10.6*
2,4,5-Trichlorophenol	0.354	0.382	0.405	0.459	0.453	0.411	11.0
2-Chloronaphthalene	1.224	1.275	1.420	1.550	1.551	1.404	10.8
2-Nitroaniline	0.443	0.490	0.614	0.666	0.649	0.572	17.5
Dimethyl Phthalate	1.267	1.393	1.488	1.558	1.504	1.442	7.9
Acenaphthylene	1.683	1.871	1.954	2.006	2.032	1.909	7.4
2,6-Dinitrotoluene	0.216	0.249	0.295	0.286	0.305	0.270	13.7
3-Nitroaniline	0.193	0.228	0.290	0.303	0.287	0.260	18.2
Acenaphthene *	1.322	1.389	1.510	1.630	1.560	1.482	8.5*
2,4-Dinitrophenol #	0.144	0.144	0.159	0.176	0.168	0.158	9.0#
4-Nitrophenol #	0.358	0.334	0.390	0.393	0.362	0.367	6.7#

FORM VI SV-1 1/87 Rev.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Instrument ID: 22 Calibration Date(s): 11/04/89 11/04/89

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = HK891104A22 RRF50 = HI891104A22
RRF80 = HM891104A22 RRF120= HL891104A22 RRF160= HJ891104A22

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	1.564	1.630	1.843	1.920	1.849	1.761	8.8
2,4-Dinitrotoluene	0.286	0.382	0.425	0.472	0.473	0.408	19.1
Diethylphthalate	1.396	1.490	1.664	1.750	1.648	1.590	9.0
4-Chlorophenyl-phenylether	0.463	0.529	0.571	0.606	0.565	0.547	9.9
Fluorene	1.218	1.307	1.386	1.476	1.453	1.368	7.8
4-Nitroaniline	0.210	0.233	0.287	0.285	0.297	0.262	14.7
4,6-Dinitro-2-Methylphenol	0.095	0.126	0.132	0.136	0.138	0.125	14.1
N-Nitrosodiphenylamine (1) *	0.325	0.328	0.499	0.506	0.493	0.430	22.0*
4-Bromophenyl-phenylether	0.183	0.200	0.219	0.223	0.212	0.207	7.8
Hexachlorobenzene	0.227	0.265	0.260	0.257	0.258	0.253	6.0
Pentachlorophenol *	0.103	0.149	0.134	0.142	0.140	0.134	13.4*
Phenanthrene	1.174	1.259	1.330	1.351	1.305	1.284	5.5
Anthracene	1.146	1.214	1.223	1.290	1.267	1.228	4.5
Di-n-Butylphthalate	1.386	1.628	1.821	1.922	1.859	1.723	12.7
Fluoranthene *	0.970	1.125	1.170	1.228	1.207	1.140	9.0*
Pyrene	1.350	1.501	1.503	1.492	1.546	1.478	5.1
Butylbenzylphthalate	0.946	1.069	1.263	1.328	1.330	1.187	14.5
3,3'-Dichlorobenzidine	0.108	0.121	0.124	0.101	0.119	0.115	8.4
Benzo(a)Anthracene	1.020	1.092	1.145	1.145	1.156	1.112	5.1
Chrysene	1.024	1.059	1.094	1.096	1.090	1.073	2.9
bis(2-Ethylhexyl)Phthalate	0.946	1.067	1.263	1.328	1.330	1.187	14.5
Di-n-Octyl Phthalate *	1.898	2.164	2.672	2.776	3.007	2.503	18.3*
Benzo(b)Fluoranthene	1.168	1.480	1.412	1.494	1.414	1.394	9.4
Benzo(k)Fluoranthene	1.376	1.044	1.184	1.243	1.509	1.271	14.1
Benzo(a)Pyrene *	0.933	1.015	1.102	1.154	1.204	1.082	10.0*
Indeno(1,2,3-cd)Pyrene	1.029	1.134	1.250	1.321	1.277	1.202	9.9
Dibenzo(a,h)Anthracene	0.715	0.776	0.884	0.948	0.931	0.851	11.9
Benzo(g,h,i)Perylene	0.887	0.973	1.090	1.119	1.092	1.032	9.6
Nitrobenzene-d5	0.543	0.515	0.548	0.684	0.638	0.586	12.3
2-Fluorobiphenyl	1.247	1.382	1.422	1.562	1.503	1.423	8.5
Terphenyl-d14	0.887	0.878	0.921	0.935	0.974	0.919	4.2
Phenol-d5	1.398	1.509	1.629	1.696	1.814	1.609	10.1
2-Fluorophenol	1.216	1.339	1.361	1.438	1.551	1.381	9.0
2,4,6-Tribromophenol	0.109	0.118	0.134	0.142	0.139	0.128	11.1

(1) Cannot be separated from Diphenylamine

FORM VI SV-2 1/87 Rev.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Instrument ID: 22 Calibration date: 11/06/89 Time: 2216

Lab File ID: HG891106B22 Init. Calib. Date(s): 11/04/89 11/04/89

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

COMPOUND		$\overline{RRF}$	RRF50	%D	
Phenol	*	1.799	1.665	7.4	*
bis(2-Chloroethyl)Ether		1.542	1.533	0.6	
2-Chlorophenol		1.423	1.489	-4.6	
1,3-Dichlorobenzene		1.657	1.616	2.5	
1,4-Dichlorobenzene	*	1.698	1.694	0.2	*
Benzyl Alcohol		0.448	0.797	-77.9	
1,2-Dichlorobenzene		1.577	1.554	1.5	
2-Methylphenol		1.200	1.247	-3.9	
bis(2-Chloroisopropyl)Ether		2.081	2.069	0.6	
4-Methylphenol		1.433	1.296	9.6	
N-Nitroso-Di-n-Propylamine	#	1.331	1.413	-6.2	#
Hexachloroethane		0.897	0.935	-4.2	
Nitrobenzene		0.591	0.615	-4.1	
Isophorone		0.939	0.979	-4.3	
2-Nitrophenol	*	0.212	0.216	-1.9	*
2,4-Dimethylphenol		0.425	0.437	-2.8	
Benzoic Acid		0.171	0.166	2.9	
bis(2-Chloroethoxy)Methane		0.524	0.503	4.0	
2,4-Dichlorophenol	*	0.304	0.287	5.6	*
1,2,4-Trichlorobenzene		0.353	0.340	3.7	
Naphthalene		1.221	1.182	3.2	
4-Chloroaniline		0.291	0.291	0.0	
Hexachlorobutadiene	*	0.182	0.185	-1.6	*
4-Chloro-3-Methylphenol	*	0.365	0.352	3.6	*
2-Methylnaphthalene		0.696	0.689	1.0	
Hexachlorocyclopentadiene	#	0.329	0.335	-1.8	#
2,4,6-Trichlorophenol	*	0.384	0.370	3.6	*
2,4,5-Trichlorophenol		0.411	0.360	12.4	
2-Chloronaphthalene		1.404	1.366	2.7	
2-Nitroaniline		0.572	0.561	1.9	
Dimethyl Phthalate		1.442	1.371	4.9	
Acenaphthylene		1.909	1.898	0.6	
2,6-Dinitrotoluene		0.270	0.255	5.6	
3-Nitroaniline		0.260	0.206	20.8	
Acenaphthene	*	1.482	1.418	4.3	*
2,4-Dinitrophenol	#	0.158	0.128	19.0	#
4-Nitrophenol	#	0.367	0.356	3.0	#

CBZ73

FORM VII SV-1 1/87 Rev.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Instrument ID: 22 Calibration date: 11/06/89 Time: 2216

Lab File ID: HG891106B22 Init. Calib. Date(s): 11/04/89 11/04/89

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

CBZ73

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.761	1.707	3.1	
2,4-Dinitrotoluene	0.408	0.380	6.9	
Diethylphthalate	1.590	1.544	2.9	
4-Chlorophenyl-phenylether	0.547	0.518	5.3	
Fluorene	1.368	1.207	11.8	
4-Nitroaniline	0.262	0.222	15.3	
4,6-Dinitro-2-Methylphenol	0.125	0.112	10.4	
N-Nitrosodiphenylamine (1) *	0.430	0.521	-21.2	*
4-Bromophenyl-phenylether	0.207	0.211	-1.9	
Hexachlorobenzene	0.253	0.274	-8.3	
Pentachlorophenol *	0.134	0.127	5.2	*
Phenanthrene	1.284	1.242	3.3	
Anthracene	1.228	1.183	3.7	
Di-n-Butylphthalate	1.723	1.855	-7.7	
Fluoranthene *	1.140	1.068	6.3	*
Pyrene	1.478	1.696	-14.8	
Butylbenzylphthalate	1.187	0.935	21.2	
3,3'-Dichlorobenzidine	0.115	0.093	19.1	
Benzo(a)Anthracene	1.112	1.152	-3.6	
Chrysene	1.073	1.031	3.9	
bis(2-Ethylhexyl)Phthalate	1.187	1.328	-11.9	
Di-n-Octyl Phthalate *	2.503	2.466	1.5	*
Benzo(b)Fluoranthene	1.394	1.132	18.8	
Benzo(k)Fluoranthene	1.271	1.211	4.7	
Benzo(a)Pyrene *	1.082	1.044	3.5	*
Indeno(1,2,3-cd)Pyrene	1.202	1.251	-4.1	
Dibenzo(a,h)Anthracene	0.851	0.875	-2.8	
Benzo(g,h,i)Perylene	1.032	1.043	-1.1	
Nitrobenzene-d5	0.586	0.559	4.6	
2-Fluorobiphenyl	1.423	1.423	0.0	
Terphenyl-d14	0.919	1.062	-15.6	
Phenol-d5	1.609	1.686	-4.8	
2-Fluorophenol	1.381	1.337	3.2	
2,4,6-Tribromophenol	0.128	0.141	-10.2	

(1) Cannot be separated from Diphenylamine

FORM VII SV-2 1/87 Rev.

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

ORIGINAL (Red)

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Instrument ID: 20 Calibration Date(s): 10/26/89 10/26/89

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30

LAB FILE ID: RRF20 = HI891026A20 RRF50 = HG891026A20
RRF80 = HK891026A20 RRF120= HJ891026A20 RRF160= HM891026B20

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol	*	2.416	2.419	2.358	2.323	2.371	2.377	1.
bis(2-Chloroethyl)Ether		2.313	2.203	2.287	2.314	2.322	2.288	2.
2-Chlorophenol		1.547	1.617	1.670	1.697	1.705	1.647	4.
1,3-Dichlorobenzene		1.629	1.701	1.668	1.702	1.678	1.676	1.
1,4-Dichlorobenzene	*	1.678	1.722	1.703	1.715	1.783	1.720	2.
Benzyl Alcohol		1.052	1.165	1.207	1.200	1.250	1.175	6.
1,2-Dichlorobenzene		1.575	1.595	1.521	1.589	1.617	1.579	2.
2-Methylphenol		1.741	1.569	1.640	1.766	1.605	1.664	5.
bis(2-Chloroisopropyl)Ether		2.379	2.014	2.420	2.497	2.557	2.373	8.
4-Methylphenol		1.672	1.711	1.701	1.878	1.820	1.756	5.
N-Nitroso-Di-n-Propylamine	#	1.665	1.700	1.784	1.970	1.890	1.802	7.
Hexachloroethane		0.987	0.984	1.039	1.062	1.081	1.031	4.
Nitrobenzene		0.654	0.600	0.634	0.638	0.696	0.644	5.
Isophorone		1.208	1.124	1.182	1.068	1.076	1.132	5.
2-Nitrophenol	*	0.187	0.191	0.200	0.193	0.215	0.197	5.
2,4-Dimethylphenol		0.499	0.415	0.500	0.471	0.515	0.480	8.
Benzoic Acid		0.011	0.093	0.125	0.152	0.165	0.109	56.
bis(2-Chloroethoxy)Methane		0.685	0.697	0.685	0.674	0.703	0.689	1.
2,4-Dichlorophenol	*	0.242	0.256	0.247	0.256	0.277	0.256	5.
1,2,4-Trichlorobenzene		0.293	0.294	0.283	0.267	0.295	0.286	4.
Naphthalene		1.364	1.310	1.259	1.065	1.177	1.235	9.
4-Chloroaniline		0.490	0.601	0.646	0.651	0.652	0.608	11.
Hexachlorobutadiene	*	0.169	0.163	0.161	0.154	0.165	0.162	3.
4-Chloro-3-Methylphenol	*	0.451	0.431	0.412	0.452	0.418	0.433	4.
2-Methylnaphthalene		0.674	0.717	0.657	0.666	0.663	0.675	3.
Hexachlorocyclopentadiene	#	0.323	0.330	0.420	0.348	0.436	0.371	14.
2,4,6-Trichlorophenol	*	0.339	0.310	0.350	0.326	0.363	0.338	6.
2,4,5-Trichlorophenol		0.330	0.350	0.332	0.345	0.381	0.348	5.
2-Chloronaphthalene		1.262	1.214	1.382	1.281	1.438	1.315	7.
2-Nitroaniline		0.641	0.587	0.694	0.692	0.848	0.692	14.
Dimethyl Phthalate		1.421	1.384	1.361	1.410	1.476	1.410	3.
Acenaphthylene		1.979	1.866	1.926	1.912	2.068	1.950	4.
2,6-Dinitrotoluene		0.239	0.285	0.267	0.285	0.322	0.280	10.
3-Nitroaniline		0.321	0.342	0.348	0.349	0.413	0.355	9.
Acenaphthene	*	1.378	1.243	1.358	1.352	1.424	1.351	4.
2,4-Dinitrophenol	#	0.066	0.094	0.089	0.101	0.132	0.096	24.
4-Nitrophenol	#	0.294	0.262	0.287	0.256	0.347	0.289	12.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ74

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Matrix: (soil/water) WATER Lab Sample ID: 297953

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN097953A12

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. ____ Date Analyzed: 11/01/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

ORIGINAL (Red)

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ74

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Matrix: (soil/water) WATER Lab Sample ID: 297953

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH097953C22

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/31/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/02/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I SV-TIC 1/87 Rev.

ORIGINAL (Red)

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ75

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Matrix: (soil/water) WATER Lab Sample ID: 297954

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CR097954A12

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. ____ Date Analyzed: 11/01/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

ORIGINAL (Red)

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: CBZ75

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Matrix: (soil/water) WATER Lab Sample ID: 297954

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH097954B22

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/31/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/02/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I SV-TIC 1/87 Rev.

ORIGINAL (Red)

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ76

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Matrix: (soil/water) WATER Lab Sample ID: 297955

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CR097955A12

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. ____ Date Analyzed: 11/01/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

ORIGINAL (Red)

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ76

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Matrix: (soil/water) WATER Lab Sample ID: 297955

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH097955B22

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/31/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/02/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	20.14	18	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ77

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Matrix: (soil/water) WATER Lab Sample ID: 297964

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CR097964B12

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. ____ Date Analyzed: 11/01/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ78

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297966

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH097966A19

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 33 Date Analyzed: 11/04/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ78

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297966

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GJ097966B20

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 33 dec. ____ Date Extracted: 11/02/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/03/89

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.00

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~BLANK CONTAMINANT~~	~~6.03~~	~~800~~	~~BJ~~
2. 4032-93-3	HEPTANE, 2,3,6-TRIMETHYL-	6.10	600	J
3.	UNKNOWN	6.77	5000	J
4.	ALDOL	6.92	2100	AJ
5.	ALDOL	7.02	1400	AJ
6.	UNKNOWN	7.13	400	J
7.	ALDOL	7.35	1200	AJ
8.	ALDOL	7.52	450	AJ
9.	UNKNOWN	7.58	840	J
10.	UNKNOWN SUBST. HYDROCARBON	7.98	6500	J
11.	UNKNOWN SUBST. HYDROCARBON	9.25	350	J
12.	UNKNOWN SUBST. HYDROCARBON	9.70	650	J
13.	TRIBROMOPHENOL ISOMER	13.37	300	J
14.	UNKNOWN	20.00	500	J
15.	UNKNOWN	20.14	450	J
16.	UNKNOWN	21.84	200	J
17.	UNKNOWN	22.54	650	J

DJM 1/12/90

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ79

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297976

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH097976A19

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 34 Date Analyzed: 11/04/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N
CBZ79

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297976

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH097976A20

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 34 dec. ____ Date Extracted: 11/02/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/03/89

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 1.00

Number TICs found: 26

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~BLANK CONTAMINANT~~	~~5.98~~	~~710~~	~~BJ~~
2.	UNKNOWN	6.73	5000	J
3.	ALDOL	6.88	3800	AJ
4.	ALDOL	6.98	1200	AJ
5.	UNKNOWN	7.12	250	J
6.	ALDOL	7.33	1900	AJ
7.	ALDOL	7.50	550	AJ
8.	ALDOL	7.57	1100	AJ
9.	UNKNOWN	7.98	4800	J
10.	UNKNOWN SUBSTITUTED HYDROCAR	9.70	660	J
11.	UNKNOWN	14.35	450	J
12.	UNKNOWN HYDROCARBON	16.04	250	J
13.	UNKNOWN	16.24	300	J
14. 74764-11-7	IRON, TRICARBONYL[N-(PHENYL-	17.04	610	J
15. 74764-11-7	IRON, TRICARBONYL[N-(PHENYL-	18.30	710	J
16.	UNKNOWN	19.20	500	J
17.	UNKNOWN	19.57	550	J
18. 74764-11-7	IRON, TRICARBONYL[N-(PHENYL-	20.04	1100	J
19.	UNKNOWN	20.49	300	J
20.	UNKNOWN	21.55	350	J
21. 74764-11-7	IRON, TRICARBONYL[N-(PHENYL-	22.52	1500	J
22.	UNKNOWN	22.69	450	J
23.	UNKNOWN	23.94	610	J
24.	UNKNOWN	25.41	500	J
25.	UNKNOWN	26.11	660	J
26.	UNKNOWN	28.61	660	J

DJM 1/12/90

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

CBZ80

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297977

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH097977A19

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 28 Date Analyzed: 11/04/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
CBZ80

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297977

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH097977A20

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 28 dec. ____ Date Extracted: 11/02/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/03/89

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 1.00

Number TICs found: 25

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	VOA TCL	5.92	1100	J
2.	VOA TCL	6.30	2200	J
3.	UNKNOWN	6.35	420	J
4.	UNKNOWN	6.63	2700	J
5.	ALDOL	6.78	6000	AJ
6.	ALDOL	6.90	930	AJ
7. 103-65-1	BENZENE, PROPYL-	6.95	230	J
8.	METHYL ETHYL BENZENE ISOMER	7.03	1700	J
9.	ALDOL	7.22	2600	AJ
10.	TRIMETHYL BENZENE ISOMER	7.37	4600	J
11.	UNKNOWN	7.72	1900	J
12.	UNKNOWN	7.85	2800	J
13. 673-32-5	BENZENE, 1-PROPYNYL-	7.93	3700	J
14.	UNKNOWN SUBST. HYDROCARBON	9.55	460	J
15.	UNKNOWN	10.07	280	J
16.	UNKNOWN	13.90	600	J
17.	UNKNOWN	14.10	370	J
18.	UNKNOWN PNA	14.34	740	J
19.	UNKNOWN PNA	14.49	690	J
20.	UNKNOWN	14.94	600	J
21.	UNKNOWN PNA	15.05	460	J
22.	UNKNOWN PNA	16.04	560	J
23.	METHYL PYRENE ISOMER	16.34	510	J
24.	BENZO FLUORANTHENE ISOMER	20.90	790	J
25.	UNKNOWN	27.96	3800	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

CBZ81

ORIGINAL

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297978

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH097978A19

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 45 Date Analyzed: 11/04/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
CBZ78 (81 ed)
ORIGINAL

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297978

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH097978B20

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 45 dec. ____ Date Extracted: 11/02/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/03/89

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.00

Number TICs found: 25

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~BLANK CONTAMINANT~~	~~6.03~~	DJm 1/15/90 ~~850~~	~~BJ~~
~~2.~~	~~BLANK CONTAMINANT~~	~~6.13~~	DJm 1/15/90 ~~670~~	~~BJ~~
3.	UNKNOWN	6.78	7300	J
4.	ALDOL	6.95	3900	AJ
5.	ALDOL	7.03	300	AJ
6.	UNKNOWN SUBSTITUTED HYDROCAR	7.15	360	J
7.	ALDOL	7.37	1500	AJ
8.	ALDOL	7.53	1300	AJ
9.	UNKNOWN HYDROCARBON	7.62	1800	J
10.	UNKNOWN HYDROCARBON	8.02	5900	J
11.	UNKNOWN	9.25	480	J
12.	UNKNOWN SUBSTITUTED HYDROCAR	9.70	610	J
13.	UNKNOWN	13.57	790	J
14.	UNKNOWN SUBSTITUTED HYDROCAR	17.02	360	J
15.	UNKNOWN	18.35	850	J
16.	UNKNOWN	19.20	610	J
17.	UNKNOWN HYDROCARBON	19.59	420	J
18. 54105-67-8	HEPTADECANE, 2,6-DIMETHYL-	20.07	850	J
19.	UNKNOWN HYDROCARBON	20.17	670	J
20.	UNKNOWN	20.90	1000	J
21.	UNKNOWN HYDROCARBON	22.62	1500	J
22.	UNKNOWN	22.82	420	J
23.	UNKNOWN	23.97	360	J
24.	UNKNOWN	24.57	1500	J
25.	UNKNOWN HYDROCARBON	26.34	480	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

CBZ82 (Red)

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297979

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH097979A19

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 23 Date Analyzed: 11/04/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

CBZ82

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297979

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G2J97979C20

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 23 dec. ____ Date Extracted: 11/02/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/07/89

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 1.00

Number TICs found: 14

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~BLANK CONTAMINANT~~	~~5.75~~	~~260~~	~~BJ~~
2.	ALDOL	6.50	910	AJ
3.	ALDOL	6.65	1600	AJ
4.	UNKNOWN	6.98	2100	J
5.	ALDOL	7.10	1800	AJ
6.	UNKNOWN	7.62	610	J
7.	UNKNOWN	7.73	1700	J
8.	UNKNOWN	15.87	130	J
9.	UNKNOWN	16.19	260	J
10.	UNKNOWN	18.85	350	J
11.	UNKNOWN	19.30	430	J
12.	UNKNOWN HYDROCARBON	21.50	950	J
13.	UNKNOWN	24.72	520	J
14.	UNKNOWN	26.19	300	J

DJM 1/15/90

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

CBZ83

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297980

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH097980A19

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 32 Date Analyzed: 11/04/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
ORIGINAL
CBZ83

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297980

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH097980B20

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 32 dec. ____ Date Extracted: 11/02/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/03/89

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.00

Number TICs found: 25

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~BLANK CONTAMINANT~~	~~5.97~~	DJM 1/15/90 ~~590~~	~~BJ~~
2. 4032-93-3	HEPTANE, 2,3,6-TRIMETHYL-	6.03	440	J
3.	UNKNOWN	6.70	3500	J
4.	ALDOL	6.87	4500	AJ
5.	ALDOL	6.97	390	AJ
6.	ALDOL	7.30	5900	AJ
7.	ALDOL	7.45	640	AJ
8.	UNKNOWN	7.53	1800	J
9.	UNKNOWN SUBST. HYDROCARBON	7.93	3800	J
10.	UNKNOWN SUBST. HYDROCARBON	10.17	590	J
11.	UNKNOWN	14.27	780	J
12.	UNKNOWN	14.70	1300	J
13.	UNKNOWN	14.80	830	J
14.	UNKNOWN	16.45	590	J
15.	UNKNOWN	16.94	1300	J
16.	UNKNOWN	18.22	1300	J
17.	UNKNOWN	18.85	1200	J
18.	UNKNOWN	19.39	830	J
19. 74764-11-7	IRON, TRICARBONYL[N-(PHENYL-	19.87	2600	J
20.	UNKNOWN	19.97	3400	J
21.	UNKNOWN	21.62	1200	J
22. 74764-11-7	IRON, TRICARBONYL[N-(PHENYL-	22.30	3800	J
23.	UNKNOWN HYDROCARBON	22.49	2200	J
24.	UNKNOWN	26.96	2200	J
25.	UNKNOWN	28.34	8300	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBZ84

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297981

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH097981A19

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 73 Date Analyzed: 11/04/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

CBZ8A ORIGINAL (Red)

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297981

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GJ097981C20

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 73 dec. ____ Date Extracted: 11/02/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/03/89

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 1.00

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~BLANK CONTAMINANT~~	~~5.93~~	DJM 1/15/90 ~~740~~	~~BJ~~
2. 4032-93-3	HEPTANE, 2,3,6-TRIMETHYL-	6.03	620	J
3.	UNKNOWN	6.70	7200	J
4.	ALDOL	6.85	4400	AJ
5.	ALDOL	7.30	2300	AJ
6.	ALDOL	7.53	2700	AJ
7.	UNKNOWN	7.95	9500	J
8.	UNKNOWN HYDROCARBON	16.02	490	J
9.	UNKNOWN	16.67	620	J
10.	UNKNOWN HYDROCARBON	16.99	990	J
11.	UNKNOWN HYDROCARBON	18.25	1400	J
12.	UNKNOWN	18.54	740	J
13.	UNKNOWN	19.47	1200	J
14.	UNKNOWN HYDROCARBON	19.95	2000	J
15.	UNKNOWN	20.07	1200	J
16.	UNKNOWN	20.75	370	J
17.	UNKNOWN HYDROCARBON	22.35	2200	J
18.	UNKNOWN	24.94	490	J
19.	UNKNOWN HYDROCARBON	25.87	740	J
20.	UNKNOWN	28.34	740	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

CBZ85

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297984

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH097984A19

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 31 Date Analyzed: 11/04/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

CBZ85

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297984

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH097984B20

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 31 dec. ____ Date Extracted: 11/02/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/03/89

GPC Cleanup: (Y/N) N pH: 6.5 Dilution Factor: 1.00

Number TICs found: 24

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~BLANK CONTAMINANT~~	~~6.05~~	DJM 1/15/90 ~~820~~	~~BJ~~
2.	VOA TCL	6.47	1400	J
3.	UNKNOWN	6.80	1500	J
4.	ALDOL	6.97	4600	AJ
5.	ALDOL	7.38	2600	AJ
6.	UNKNOWN	9.85	2100	J
7.	UNKNOWN	10.37	970	J
8. 85-44-9	PHTHALIC ANHYDRIDE	10.47	1600	J
9. 26266-63-7	1,3-ISOBENZOFURANDIONE, TETR	10.72	3600	J
10.	UNKNOWN HYDROCARBON	11.19	9700	J
11. 59219-48-6	CYCLOPENTANE, 1,3-BIS(METHYL	11.27	4200	J
12. 89-51-0	BENZENEACETIC ACID, 2-CARBOX	11.42	1300	J
13.	UNKNOWN	12.34	2500	J
14.	METHYLPHENANTHRENE ISOMER	14.54	1300	J
15.	METHYLPYRENE ISOMER	16.07	4500	J
16.	UNKNOWN PNA	16.24	5300	J
17.	METHYLPYRENE ISOMER	16.39	5300	J
18.	UNKNOWN	16.55	8200	J
19.	UNKNOWN	17.05	9700	J
20.	UNKNOWN SUBSTITUTED HYDROCAR	17.24	6300	J
21.	UNKNOWN HYDROCARBON	18.34	4800	J
22.	UNKNOWN	19.55	12000	J
23.	UNKNOWN HYDROCARBON	20.14	3200	J
24.	UNKNOWN	20.24	6300	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

CBZ86

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297989

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH097989A19

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 31 Date Analyzed: 11/04/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N
ORIGINAL (Red)
CBZ86

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297989

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH097989B20

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 31 dec. ____ Date Extracted: 11/02/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/03/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00

Number TICs found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL	6.88	6300	AJ
2.	ALDOL	7.30	1000	AJ
3.	UNKNOWN SUBSTITUTED HYDROCAR	7.95	6800	J
4.	UNKNOWN SUBSTITUTED HYDROCAR	10.47	2000	J
5.	UNKNOWN SUBSTITUTED HYDROCAR	14.72	4700	J
6.	UNKNOWN SUBSTITUTED HYDROCAR	15.05	3100	J
7.	UNKNOWN	15.42	5300	J
8.	UNKNOWN	15.54	1900	J
9.	UNKNOWN	15.69	11000	J
10.	UNKNOWN	16.07	2200	J
11.	UNKNOWN	16.77	2500	J
12.	UNKNOWN	16.92	3200	J
13.	UNKNOWN	17.10	2000	J
14.	UNKNOWN	17.75	16000	J
15.	UNKNOWN	18.17	4400	J
16.	UNKNOWN PHTHALATE	18.72	11000	J
17.	UNKNOWN	19.05	4800	J
18.	UNKNOWN	19.44	9700	J
19.	UNKNOWN PHTHALATE	19.75	4300	J
20.	UNKNOWN	19.99	23000	J
21.	UNKNOWN	20.60	8200	J
22.	UNKNOWN	23.34	5300	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

ORIGINAL (Signed)

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297996

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH097996A19

Level: (low/med) LOW Date Received: 10/26/89

% Moisture: not dec. 29 Date Analyzed: 11/04/89

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

CBZ87

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Matrix: (soil/water) SOIL Lab Sample ID: 297996

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH097996B20

Level: (low/med) LOW Date Received: 10/26/89

Moisture: not dec. 29 dec. ____ Date Extracted: 11/02/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/03/89

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

Number TICs found: 24

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~BLANK CONTAMINANT~~	~~5.85~~	DJM 700	~~BJ~~
2.	UNKNOWN	6.58	1/15/90 2300	J
3.	ALDOL	6.75	3500	AJ
4.	ALDOL	7.18	1100	AJ
5.	ALDOL	7.40	560	AJ
6.	UNKNOWN SUBSTITUTED HYDROCAR	7.83	3300	J
7.	UNKNOWN SUBSTITUTED HYDROCAR	10.35	840	J
8.	UNKNOWN SUBSTITUTED HYDROCAR	14.60	3600	J
9.	UNKNOWN SUBSTITUTED HYDROCAR	14.92	2300	J
10.	UNKNOWN	15.29	4100	J
11.	UNKNOWN	15.40	1500	J
12.	UNKNOWN	15.94	1400	J
13.	UNKNOWN	16.14	800	J
14.	UNKNOWN	16.60	1200	J
15.	UNKNOWN HYDROCARBON	16.74	1500	J
16.	UNKNOWN CHLORINATED HYDROCAR	17.55	6100	J
17.	UNKNOWN	17.94	1400	J
18.	UNKNOWN	18.44	2600	J
19.	UNKNOWN	18.75	840	J
20.	UNKNOWN	19.12	2400	J
21.	UNKNOWN PHTHALATE	19.39	1100	J
22.	UNKNOWN	19.65	7500	J
23.	UNKNOWN	20.20	2300	J
24.	UNKNOWN	22.65	1500	J

ORIGINAL (Red)

Appendix E

Organic Regional Data Assessment Summary

PAGE 1 OF 7

DPO: [ ] ACTION [X] FYI

Region III

ORIGINAL (Red)

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY

CASE NO. 13022 LABORATORY COMPUCHEM

SDG NO. CBZ70 DATA USER Tom Bennett Jr Reg. IV

SOW 87 REVIEW COMPLETION DATE 01/19/90

NO. OF SAMPLES 8 MATRIX WATER

REVIEWER [ ] ESD [X] ESAT [ ] OTHER, CONTRACT/CONTRACTOR _____

	VOA	BNA	PEST	OTHER
1. HOLDING TIMES	M	O	O	
2. GC-MS TUNE/ GC PERFORMANCE	O	O	O	
3. INITIAL CALIBRATIONS	X	X	O	
4. CONTINUING CALIBRATIONS	M	M	O	
5. FIELD BLANKS ('F' = not applicable)	F	F	F	
6. LABORATORY BLANKS	X	X	O	
7. SURROGATES	O	O	O	
8. MATRIX SPIKE/DUPLICATES	O	O	O	
9. REGIONAL QC ('F' = not applicable)	F	F	F	
10. INTERNAL STANDARDS	O	O		
11. COMPOUND IDENTIFICATION	O	O	O	
12. COMPOUND QUANTITATION	O	O	O	
13. SYSTEM PERFORMANCE	O	O	O	
14. OVERALL ASSESSMENT	M	M	O	

O = No problems or minor problems that do not affect data usability.
X = No more than *about 5%* of the data points are qualified as either estimated or unusable.
M = More than *about 5%* of the data points are qualified as estimated.
Z = More than *about 5%* of the data points are qualified as unusable.
A = DPO action requested; use in conjunction with one of the above codes.

DPO ACTION ITEMS: _____

AREAS OF CONCERN: _____

DOCUMENTATION ATTACHED (SEE FOLLOWING PAGES)

DPO: [ ] ACTION [X] FYI

Region III

ORIGINAL (Red)

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY

CASE NO. 13022 LABORATORY CompuCHEM

SDG NO. CBE78 DATA USER TOM BENNETT JV Rcd IV

SOW 87 REVIEW COMPLETION DATE 01/19/90

NO. OF SAMPLES 10 MATRIX SOIL

REVIEWER [ ] ESD [X] ESAT [ ] OTHER, CONTRACT/CONTRACTOR _____

	VOA	BNA	PEST	OTHER
1. HOLDING TIMES	M	M	O	
2. GC-MS TUNE/ GC PERFORMANCE	O	O	O	
3. INITIAL CALIBRATIONS	X	X	O	
4. CONTINUING CALIBRATIONS	M	M	O	
5. FIELD BLANKS ('F' = not applicable)	F	F	F	
6. LABORATORY BLANKS	M	X	O	
7. SURROGATES	O	O	Z	
8. MATRIX SPIKE/DUPLICATES	O	O	O	
9. REGIONAL QC ('F' = not applicable)	F	F	F	
10. INTERNAL STANDARDS	O	O		
11. COMPOUND IDENTIFICATION	O	O	O	
12. COMPOUND QUANTITATION	O	O	O	
13. SYSTEM PERFORMANCE	O	O	O	
14. OVERALL ASSESSMENT	M	M	Z	

O = No problems or minor problems that do not affect data usability.
X = No more than *about 5%* of the data points are qualified as either estimated or unusable.
M = More than *about 5%* of the data points are qualified as estimated.
Z = More than *about 5%* of the data points are qualified as unusable.
A = DPO action requested; use in conjunction with one of the above codes.

DPO ACTION ITEMS: _____

AREAS OF CONCERN: _____

DOCUMENTATION ATTACHED (SEE FOLLOWING PAGES)

ORIGINAL (Red)

WESTON

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY NOTES
Case 13022 SDG CBZ70 (water samples)

Item 1A - The volatiles analyses of all water samples were performed eight (8) days from the date of sample collection. The technical holding time for volatile aromatics in water samples of seven (7) days has been exceeded by one (1) day. Contractual holding times were met for all samples. (See Appendix F).

Item 3A - Several volatile compounds failed precision criteria (RSD ≤30%) for the initial calibrations. (See Table I in Appendix F).

Item 3B - Several semivolatile compounds failed precision criteria (≤30%) for the initial calibrations. (See Table I in Appendix F).

Item 4A - Several volatile compounds failed precision criteria (RSD ≤25%) for the continuing calibrations. (See Table I in Appendix F).

Item 4B - Several semivolatile compounds failed precision criteria (≤25%) for the continuing calibrations. (See Table I in Appendix F).

Item 5A - Sample CBZ77 is not identified as a trip blank, but the reviewer believes that this may be the case. Since there were no positive results for this sample, no data will be affected if the sample is a trip blank.

Item 6A - The maximum concentrations of compounds found in the method blanks are listed below. (See Appendix F).

Compound	Concentration
methylene chloride *	12 µg/L
acetone *	5 µg/L
bis(2-ethylhexyl)phthalate *	1.5 µg/L **

* - Common Laboratory Contaminant
** - Calculated from a soil blank

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY NOTES
Case 13022 SDG CBZ70 (water samples)

Item 7A - The semivolatile analysis of sample CBZ75 had a surrogate recovery of one-hundred twenty-five percent (125%) for the compound 2,4,6-tribromophenol, slightly above the upper QC limit of one-hundred twenty-three percent (123%). (See Appendix F).

Item 8A - The pesticide/PCB MS/MSD analysis of sample CBZ74 had a total of two (2) out of twelve (12) spike recoveries outside of the QC limits. (See Appendix F).

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY NOTES
Case 13022 SDG CBZ78 (soil samples)

Item 1A - The volatiles analyses of all soil samples were performed eleven (11) days from the date of sample collection. Although no technical holding time for volatiles analysis has been established for soil samples, the technical holding time for volatile aromatics in water samples of seven (7) days has been exceeded by four (4) days. Contractual holding times were met for all samples. (See Appendix F).

Item 1B - The semivolatiles extractions of all soil samples were performed nine (9) days from the date of sample collection. Although no technical extraction holding time has been established for soil samples, the extraction holding time for water samples extracted by the continuous liquid/liquid extraction technique of seven (7) days has been exceeded by two (2) days. Contractual holding times were met for all samples. (See Appendix F).

Item 2A - Due to lack of recovery of the dibutylchlorendate (DBC) surrogate for sample CBZ87 during pesticide/PCB analysis, the percent difference (%D) for the DBC retention time shift cannot be calculated.

Item 3A - Several volatile compounds failed precision criteria (RSD $\leq$30%) for the initial calibrations. (See Table I in Appendix F).

Item 3B - Several semivolatile compounds failed precision criteria ($\leq$30%) for the initial calibrations. (See Table I in Appendix F).

Item 4A - Several volatile compounds failed precision criteria (RSD $\leq$25%) for the continuing calibration. (See Table I in Appendix F).

Item 4B - Several semivolatile compounds failed precision criteria ($\leq$25%) for the continuing calibration. (See Table I in Appendix F).

ORIGINAL (Red)

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Instrument ID: 22 Calibration date: 11/02/89 Time: 0053

Lab File ID: HG891102C22 Init. Calib. Date(s): 10/28/89 10/28/89

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

COMPOUND		$\overline{RRF}$	RRF50	%D		
Phenol	*	1.563	1.435	8.2	*	SBIK71
bis(2-Chloroethyl)Ether		1.483	1.232	16.9		CBZ74
2-Chlorophenol		1.395	1.236	11.4		
1,3-Dichlorobenzene		1.485	1.392	6.3		CBZ74MS
1,4-Dichlorobenzene	*	1.510	1.535	-1.7	*	
Benzyl Alcohol		0.920	0.765	16.9		CBZ74MSD
1,2-Dichlorobenzene		1.352	1.336	1.2		
2-Methylphenol		1.113	0.978	12.1		CBZ71
bis(2-Chloroisopropyl)Ether		1.672	1.077	35.6		
4-Methylphenol		1.148	1.070	6.8		CBZ70
N-Nitroso-Di-n-Propylamine	#	1.266	1.006	20.5	#	
Hexachloroethane		0.905	0.789	12.8		CBZ72
Nitrobenzene		0.619	0.531	14.2		
Isophorone		0.919	0.974	-6.0		
2-Nitrophenol	*	0.242	0.226	6.6	*	
2,4-Dimethylphenol		0.472	0.369	21.8		
Benzoic Acid		0.181	0.159	12.2		
bis(2-Chloroethoxy)Methane		0.562	0.461	18.0		
2,4-Dichlorophenol	*	0.334	0.346	-3.6	*	
1,2,4-Trichlorobenzene		0.381	0.385	-1.1		
Naphthalene		0.943	1.185	-25.7		
4-Chloroaniline		0.475	0.361	24.0		
Hexachlorobutadiene	*	0.212	0.213	-0.5	*	
4-Chloro-3-Methylphenol	*	0.413	0.390	5.6	*	
2-Methylnaphthalene		0.597	0.745	-24.8		
Hexachlorocyclopentadiene	#	0.406	0.313	22.9	#	
2,4,6-Trichlorophenol	*	0.449	0.409	8.9	*	
2,4,5-Trichlorophenol		0.474	0.418	11.8		
2-Chloronaphthalene		1.377	1.303	5.4		
2-Nitroaniline		0.719	0.554	23.0		
Dimethyl Phthalate		1.394	1.545	-10.8		
Acenaphthylene		1.674	1.893	-13.1		
2,6-Dinitrotoluene		0.349	0.364	-4.3		
3-Nitroaniline		0.326	0.297	8.9		
Acenaphthene	*	1.285	1.258	2.1	*	
2,4-Dinitrophenol	#	0.129	0.141	-9.3	#	
4-Nitrophenol	#	0.407	0.335	17.7	#	

FORM VII SV-1 1/87 Rev.

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY NOTES
Case 13022 SDG CBZ78 (soil samples)

Item 5A - Sample CBZ77 is not identified as a trip blank, but the reviewer believes that this may be the case. Since there were no positive results for this sample, no data will be affected if the sample is a trip blank.

Item 6A - The maximum concentrations of compounds found in the method blanks are listed below. (See Appendix F).

Compound	Concentration
methylene chloride *	12 µg/Kg **
acetone *	5 µg/Kg **
bis(2-ethylhexyl)phthalate *	49 µg/Kg

* - Common Laboratory Contaminant
** - Calculated from a water blank

Item 7A - The quantitation column pesticide/PCB surrogate recovery for sample CBZ87 was zero percent (0%). The laboratory notes in the narrative that this is due to matrix interference. (See Appendix F).

Item 8A - The pesticide/PCB MS/MSD analysis of sample CBZ84 had a total of one (1) out of six (6) RPD values outside of the QC limits. (See Appendix F).

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY NOTES
Case 13022 SDG CBZ78 (soil samples)

Item 8B - The semivolatile soil MS/MSD analysis had compounds other than the spiking compounds present. Following is a table of results and precision estimates for these non-spiked compounds:

MS/MSD Non-Spiked Compounds

Compound	Concentration (µg/Kg) CBZ84	CBZ84MS	CBZ84MSD	%RSD
naphthalene	ND	250 J	450 J	57% +
phenanthrene	150 J	160 J	170 J	6%
fluoranthene	280 J	360 J	350 J	13%
pyrene	360 J	NE	NE	NE
benzo(a)anthracene	150 J	180 J	160 J	9%
chrysene	220 J	270 J	270 J	11%
benzo(b)fluoranthene	310 J	400 J	380 J	13%
benzo(k)fluoranthene	130 J	400 J	380 J	50%
benzo(a)pyrene	140 J	150 J	160 J	7%

RSD - Relative Standard Deviation
\+ - Relative Percent Difference (RPD)
IN - Indeterminate
NE - Not Evaluated, a spiking compound found during original sample analysis

Item 14A - The reported Tentatively Identified Compounds (TIC's) in Appendix D have been reviewed and corrected during data validation. TIC's noted as blank contaminants were crossed off the Form I's.

DCN - DM001A06

ORIGINAL (Red)

WESTON

Appendix F

Support Documentation

ORIGINAL

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

CASE/SAS No. 13022 CONTRACTOR Compu

Instrument# 12	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:				11/01/89 0654											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane					28.4	C									
Bromomethane					29.1	C									
Vinyl Chloride															
Chloroethane					26.7	C									
Methylene Chloride															
Acetone					42.8	C									
Carbon Disulfide															
1,1-Dichloroethene															
1,1-Dichloroethane															
Total-1,2-Dichloroethene															
Chloroform															
1,2-Dichloroethane															
2-Butanone															
1,1,1-Trichloroethane															
Carbon Tetrachloride															
Vinyl Acetate					33.9	C									
Bromodichloromethane															
1,2-Dichloropropane															
cis-1,3-Dichloropropene					45.6	C									
Trichloroethene															
Dibromochloromethane															
1,1,2-Trichloroethane					51.5	C									
Benzene					28.3	C									
trans-1,3-Dichloropropene															
Bromoform															
4-Methyl-2-Pentanone															
2-Hexanone					36.4	C									
Tetrachloroethene															
1,1,2,2-Tetrachloroethane															
Toluene															
Chlorobenzene															
Ethylbenzene															
Styrene															
Total Xylenes															

AFFECTED SAMPLES:

VBIKIM
CBZ74
CBZ75
CBZ76
CBZ73
CBZ70
CBZ71
CBZ72
CBZ74 MS
CBZ74 MSD
CBZ77

Reviewer Initials/Date: DJM 1/03/90

* See last page of this table for DEFINITION OF CODES.

ORIGINAL (Red)

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS (Part 1 of 2)

CASE/SAS No. 13022 CONTRACTOR Compu

Instrument# 22	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	10/28/89 0629			11/02/89 0041			11/02/89 1546								
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol															
bis(2-Chloroethyl)ether															
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl alcohol															
1,2-Dichlorobenzene															
2-Methylphenol															
bis(2-Chloroisopropyl)ether					35.6	C		28.8	C						
4-Methylphenol															
N-Nitroso-di-n-propylamine															
Hexachloroethane															
Nitrobenzene															
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic acid		42.2	E												
bis(2-Chloroethoxy)methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene					25.7	C		29.0	C						
4-Chloroaniline															
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene															
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline															
Dimethylphthalate															
Acenaphthylene															
2,6-Dinitrotoluene															
3-Nitroaniline															
Acenaphthene															
2,4-Dinitrophenol															
4-Nitrophenol															

AFFECTED SAMPLES:

SBIK71	SBIK71	CBZ75		
CBZ74	CBZ74	CBZ76		
CBZ74MS	CBZ74MS			
CBZ74MSD	CBZ74MSD			
CBZ71	CBZ71			
CBZ70	CBZ70			
CBZ72	CBZ72			
CBZ75				
CBZ76				

Reviewer Initials/Date: DJM 1/03/90

* See last page of this table for DEFINITION OF CODES.

ORIGINAL

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS (Part 2 of 2)

CASE/SAS No. 13022 CONTRACTOR Comfed

Instrument# 22	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	10/23/89 0629			11/02/89 0641			11/02/89 1546								
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Dibenzofuran															
2,4-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene		31.5	I												
4-Nitroaniline															
4,6-Dinitro-2-methylphenol															
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene					25.8	C									
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
3,3-Dichlorobenzidine					40.0	C									
Benzo(a)anthracene															
Chrysene															
bis(2-Ethylhexyl)phthalate															
Di-n-octylphthalate															
Benzo(b)fluoranthene															
Benzo(k)fluoranthene								36.3	C						
Benzo(a)pyrene															
Indeno(1,2,3-cd)pyrene															
Dibenz(a,h)anthracene															
Benzo(g,h,i)perylene															

AFFECTED SAMPLES:					
	SBIK71	SBIK71	CBZ75		
	CBZ74	CBZ74	CBZ76		
	CBZ74MS	CBZ74MS			
	CBZ74MSD	CBZ74MSD			
	CBZ71	CBZ71			
	CBZ70	CBZ70			
	CBZ72	CBZ72			
	CBZ75				
	CBZ76				

Reviewer Initials/Date: DSM 1/03/90

* See last page of this table for DEFINITION OF CODES.

ORIGINAL (Red)

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS (Part 1 of 2)

CASE/SAS No. 13022 CONTRACTOR Compal

Instrument# 22	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	11/04/89 0109			11/06/89 2202											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol															
bis(2-Chloroethyl)ether															
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl alcohol					77.9	K									
1,2-Dichlorobenzene															
2-Methylphenol															
bis(2-Chloroisopropyl)ether															
4-Methylphenol		32.0	E												
N-Nitroso-di-n-propylamine															
Hexachloroethane															
Nitrobenzene															
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic acid															
bis(2-Chloroethoxy)methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline															
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene															
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline															
Dimethylphthalate															
Acenaphthylene															
2,6-Dinitrotoluene															
3-Nitroaniline															
Acenaphthene															
2,4-Dinitrophenol															
4-Nitrophenol															
AFFECTED SAMPLES:	CBZ73			CBZ73											

Reviewer Initials/Date: DSM 1/05/90

* See last page of this table for DEFINITION OF CODES.

ORIGINAL

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS (Part 2 of 2)

CASE/SAS No. 13022 CONTRACTOR Comp'd

Instrument# 22	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	11/04/89 0109			11/06/89 2202											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Dibenzofuran															
2,4-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline															
4,6-Dinitro-2-methylphenol															
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
3,3-Dichlorobenzidine															
Benzo(a)anthracene															
Chrysene															
bis(2-Ethylhexyl)phthalate															
Di-n-octylphthalate															
Benzo(b)fluoranthene															
Benzo(k)fluoranthene															
Benzo(a)pyrene															
Indeno(1,2,3-cd)pyrene															
Dibenz(a,h)anthracene															
Benzo(g,h,i)perylene															
AFFECTED SAMPLES:	CBZ73			CBZ73											

Reviewer Initials/Date: DJm 1/03/90

* See last page of this table for DEFINITION OF CODES.

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE BSL COMPOUNDS (Part 1 of 2)

CASE/SAS No. 13022 CONTRACTOR Compu

Instrument# 20	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	10/26/89 1128			11/02/89 2206			11/03/89 1158			11/06/89 2007					
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol															
bis(2-Chloroethyl)ether											31.2	C			
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl alcohol											40.9	C			
1,2-Dichlorobenzene															
2-Methylphenol											33.4	C			
bis(2-Chloroisopropyl)ether					46.1	C		76.2	C						
4-Methylphenol											40.7	C			
N-Nitroso-di-n-propylamine					40.6	C		42.5	C						
Hexachloroethane															
Nitrobenzene					37.6	C		42.1	C						
Isophorone					41.7	C		51.1	C						
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic acid		56.4	E		79.8	C		84.4	C						
bis(2-Chloroethoxy)methane											25.4	C			
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline											58.2	C			
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene															
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline					34.5	C		48.8	C						
Dimethylphthalate															
Acenaphthylene															
2,6-Dinitrotoluene											25.4	C			
3-Nitroaniline											49.3	C			
Acenaphthene															
2,4-Dinitrophenol					49.0	C		47.9	C						
4-Nitrophenol					73.0	C		69.2	C		30.1	C			

AFFECTED SAMPLES:

SB1K 81	CBZ 80	CBZ 82
CBZ 84	CBZ 81	
CBZ 84ms	CBZ 83	
CBZ 84msD	CBZ 85	
CBZ 79	CBZ 86	
	CBZ 87	
	CBZ 78	

Reviewer Initials/Date: DJM 1/03/90

* See last page of this table for DEFINITION OF CODES.

ORIGINAL (Red)

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS (Part 2 of 2)

CASE/SAS No. 13022 CONTRACTOR Compcl

Instrument# 20	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	10/26/89 1128			11/02/89 2206			11/03/89 1158			11/06/89 2007					
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Dibenzofuran															
2,4-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene											33.4	C			
4-Nitroaniline											62.1	C			
4,6-Dinitro-2-methylphenol															
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
3,3-Dichlorobenzidine															
Benzo(a)anthracene															
Chrysene															
bis(2-Ethylhexyl)phthalate															
Di-n-octylphthalate															
Benzo(b)fluoranthene															
Benzo(k)fluoranthene															
Benzo(a)pyrene															
Indeno(1,2,3-cd)pyrene															
Dibenz(a,h)anthracene															
Benzo(g,h,i)perylene															

AFFECTED SAMPLES:

		SBLK 81	CBZ 80	CBZ 82		
		CBZ 84	CBZ 81			
		CBZ 84 ms	CBZ 83			
		CBZ 84 msD	CBZ 85			
		CBZ 79	CBZ 86			
			CBZ 87			
			CBZ 78			

Reviewer Initials/Date: DSM 11/03/90

* See last page of this table for DEFINITION OF CODES.

ORIGINAL (Red)

DEFINITION OF CODES USED IN TABLE I

I = %RSD exceeded 30% in the initial calibration, positive results are qualified "J", and quantitation limits are qualified "UJ".

C = %D exceeded 25% in the continuing calibration. Positive results are qulified "J", and quantitation limits are qualified "UJ".

F = RF less than 0.05 in all calibrations. All quantitation limits are qualified "R".

+ = The "B" qualifier, denoting blank contamination, supersedes the qualifier issued in this table.

L = The "L" qualifier, denoting low bias of results, supersedes the qualifier issued in this table.

R = The "R" qualifier, denoting unusuable results, supersedes the qualifier issued in this table.

ORIGINAL (Red)

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Instrument ID: 12 Calibration Date(s): 10/19/89 10/20/89

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

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

LAB FILE ID: RRF20 = CW891020C12 RRF50 = CU891019B12
RRF100= CU891020C12 RRF150= CT891020C12 RRF200= CS891020C12

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane #	0.912	0.723	0.803	0.746	0.674	0.772	11.8#
Bromomethane	1.209	0.961	1.022	0.918	0.878	0.998	13.0
Vinyl Chloride *	1.141	0.867	0.973	0.891	0.823	0.939	13.4*
Chloroethane	0.558	0.450	0.509	0.453	0.427	0.479	11.1
Methylene Chloride	1.457	1.284	1.282	1.173	1.136	1.266	9.9
Acetone	0.283	0.288	0.263	0.260	0.217	0.262	10.7
Carbon Disulfide	4.508	3.977	3.498	3.325	3.755	3.813	12.1
1,1-Dichloroethene *	1.418	1.248	1.271	1.152	1.410	1.300	8.7*
1,1-Dichloroethane #	3.215	2.828	2.815	2.621	2.567	2.809	9.1#
1,2-Dichloroethene (total)	3.386	2.971	3.003	2.789	2.715	2.973	8.8
Chloroform *	4.454	3.816	3.658	3.234	3.011	3.635	15.4*
1,2-Dichloroethane	3.518	3.146	3.009	2.725	2.666	3.013	11.5
2-Butanone	0.064	0.084	0.091	0.088	0.087	0.083	13.0
1,1,1-Trichloroethane	0.848	0.751	0.717	0.702	0.616	0.727	11.6
Carbon Tetrachloride	0.834	0.735	0.734	0.723	0.641	0.733	9.3
Vinyl Acetate	0.655	0.603	0.590	0.650	0.590	0.618	5.2
Bromodichloromethane	1.139	1.058	0.948	0.949	0.838	0.986	11.7
1,2-Dichloropropane *	0.435	0.380	0.384	0.342	0.328	0.374	11.2*
cis-1,3-Dichloropropene	0.690	0.591	0.643	0.828	0.679	0.686	12.9
Trichloroethene	0.506	0.445	0.447	0.424	0.399	0.444	8.9
Dibromochloromethane	0.546	0.468	0.468	0.467	0.424	0.475	9.3
1,1,2-Trichloroethane	0.288	0.239	0.230	0.229	0.201	0.237	13.4
Benzene	0.779	0.675	0.683	0.659	0.617	0.683	8.7
Trans-1,3-Dichloropropene	0.367	0.304	0.330	0.339	0.306	0.329	7.9
Bromoform #	0.360	0.350	0.364	0.371	0.334	0.356	4.0#
4-Methyl-2-Pentanone	0.253	0.238	0.267	0.298	0.293	0.270	9.5
2-Hexanone	0.128	0.141	0.149	0.171	0.164	0.151	11.5
Tetrachloroethene	0.630	0.554	0.522	0.468	0.446	0.524	14.0
1,1,2,2-Tetrachloroethane #	0.709	0.636	0.606	0.541	0.523	0.603	12.5#
Toluene *	0.909	0.756	0.795	0.758	0.726	0.789	9.1*
Chlorobenzene #	1.065	0.948	0.976	0.894	0.878	0.952	7.8#
Ethylbenzene *	0.522	0.439	0.448	0.409	0.392	0.442	11.3*
Styrene	1.238	1.097	1.068	1.025	0.991	1.084	8.8
Total Xylenes	1.694	1.421	1.394	1.334	1.288	1.426	11.1
Toluene-d8	1.364	1.216	1.054	1.174	1.129	1.187	9.7
BFB	1.065	1.003	0.808	0.908	0.879	0.933	10.9
1,2-Dichloroethane-d4	3.075	2.912	2.338	2.600	2.533	2.692	11.1

FORM VI VOA 1/87 Rev.

ORIGINAL (Red)

7A

VOLATILE CONTINUING CALIBRATION CHECK

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Instrument ID: 12 Calibration date: 11/01/89 Time: 0735

Lab File ID: CU891101C12 Init. Calib. Date(s): 10/19/89 10/20/89

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

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

COMPOUND		$\overline{RRF}$	RRF50	%D		
Chloromethane	#	0.772	0.553	28.4	#	VBIKIM
Bromomethane		0.998	1.288	-29.1		CBZ74
Vinyl Chloride	*	0.939	0.831	11.5	*	
Chloroethane		0.479	0.607	-26.7		CBZ75
Methylene Chloride		1.266	1.381	-9.1		
Acetone		0.262	0.150	42.8		
Carbon Disulfide		3.813	3.934	-3.2		CBZ76
1,1-Dichloroethene	*	1.300	1.510	-16.2	*	
1,1-Dichloroethane	#	2.809	2.646	5.8	#	CBZ73
1,2-Dichloroethene (total)		2.973	3.489	-17.4		
Chloroform	*	3.635	3.669	-0.9	*	CBZ70
1,2-Dichloroethane		3.013	3.157	-4.8		
2-Butanone		0.083	0.090	-8.4		
1,1,1-Trichloroethane		0.727	0.790	-8.7		CBZ71
Carbon Tetrachloride		0.733	0.713	2.7		
Vinyl Acetate		0.618	0.409	33.8		CBZ72
Bromodichloromethane		0.986	1.113	-12.9		
1,2-Dichloropropane	*	0.374	0.441	-17.9	*	CBZ74MS
cis-1,3-Dichloropropene		0.686	0.999	-45.6		
Trichloroethene		0.444	0.468	-5.4		CBZ74MSD
Dibromochloromethane		0.475	0.554	-16.6		
1,1,2-Trichloroethane		0.237	0.359	-51.5		CBZ77
Benzene		0.683	0.876	-28.3		
Trans-1,3-Dichloropropene		0.329	0.303	7.9		
Bromoform	#	0.356	0.346	2.8	#	
4-Methyl-2-Pentanone		0.270	0.293	-8.5		
2-Hexanone		0.151	0.096	36.4		
Tetrachloroethene		0.524	0.440	16.0		
1,1,2,2-Tetrachloroethane	#	0.603	0.616	-2.2	#	
Toluene	*	0.789	0.780	1.1	*	
Chlorobenzene	#	0.952	0.911	4.3	#	
Ethylbenzene	*	0.442	0.442	0.0	*	
Styrene		1.084	1.047	3.4		
Total Xylenes		1.426	1.309	8.2		
Toluene-d8		1.187	1.335	-12.5		
BFB		0.933	0.942	-1.0		
1,2-Dichloroethane-d4		2.692	2.754	-2.3		

FORM VII VOA 1/87 Rev.

ORIGINAL (Red)

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Instrument ID: 19 Calibration Date(s): 10/24/89 10/24/89

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

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.

LAB FILE ID: RRF20 = GZ891024C19 RRF50 = GV891024C19
RRF100= GY891024C19 RRF150= GX891024C19 RRF200= GW891024C19

COMPOUND		RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane	#	0.333	0.326	0.319	0.292	0.316	0.317	4.
Bromomethane		0.993	1.100	1.029	1.024	1.028	1.035	3.
Vinyl Chloride	*	0.587	0.471	0.387	0.423	0.457	0.465	16.
Chloroethane		0.709	0.583	0.545	0.533	0.555	0.585	12.
Methylene Chloride		1.902	1.159	1.442	1.245	1.162	1.382	22.
Acetone		0.719	0.358	0.432	0.460	0.344	0.463	32.
Carbon Disulfide		3.088	2.979	4.246	4.468	4.408	3.838	19.
1,1-Dichloroethene	*	0.996	0.913	1.302	1.209	1.212	1.126	14.
1,1-Dichloroethane	#	1.649	1.466	2.066	1.834	1.812	1.765	12.
1,2-Dichloroethene (total)		1.354	2.393	2.739	2.463	2.680	2.326	24.
Chloroform	*	3.077	3.005	3.268	2.695	3.263	3.062	7.
1,2-Dichloroethane		2.563	2.520	2.626	2.276	2.579	2.513	5.
2-Butanone		0.098	0.068	0.099	0.108	0.064	0.087	23.
1,1,1-Trichloroethane		0.806	0.806	0.878	0.730	0.880	0.820	7.
Carbon Tetrachloride		0.735	0.790	0.880	0.706	0.885	0.799	10.
Vinyl Acetate		0.383	0.293	0.441	0.490	0.305	0.382	22.
Bromodichloromethane		0.516	0.457	0.573	0.496	0.566	0.522	9.
1,2-Dichloropropane	*	0.234	0.198	0.309	0.185	0.215	0.228	21.
cis-1,3-Dichloropropene		0.358	0.329	0.421	0.376	0.420	0.381	10.
Trichloroethene		0.479	0.470	0.510	0.420	0.501	0.476	7.
Dibromochloromethane		0.586	0.572	0.644	0.595	0.650	0.609	5.
1,1,2-Trichloroethane		0.271	0.229	0.277	0.253	0.251	0.256	7.
Benzene		0.643	0.586	0.687	0.596	0.685	0.639	7.
Trans-1,3-Dichloropropene		0.193	0.179	0.237	0.216	0.228	0.211	11.
Bromoform	#	0.526	0.516	0.603	0.568	0.560	0.555	6.
4-Methyl-2-Pentanone		0.266	0.216	0.315	0.348	0.267	0.282	18.
2-Hexanone		0.260	0.159	0.247	0.271	0.173	0.222	23.
Tetrachloroethene		0.578	0.601	0.637	0.523	0.643	0.596	8.
1,1,2,2-Tetrachloroethane	#	0.518	0.476	0.570	0.569	0.526	0.532	7.
Toluene	*	0.550	0.514	0.622	0.549	0.655	0.578	10.
Chlorobenzene	#	0.954	0.888	0.979	0.853	0.983	0.931	6.
Ethylbenzene	*	0.409	0.386	0.458	0.390	0.484	0.425	10.
Styrene		1.142	1.123	1.188	1.265	1.238	1.191	5.
Total Xylenes		1.389	1.347	1.400	1.478	1.459	1.415	3.
Toluene-d8		0.866	0.917	1.017	1.066	1.105	0.994	10.
BFB		0.783	0.832	0.880	0.969	0.983	0.889	9.
1,2-Dichloroethane-d4		2.073	2.234	2.297	2.320	2.385	2.262	5.

ORIGINAL (Red)

7A

VOLATILE CONTINUING CALIBRATION CHECK

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Instrument ID: 19 Calibration date: 11/04/89 Time: 0656

Lab File ID: GT891104C19 Init. Calib. Date(s): 10/24/89 10/24/89

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

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

COMPOUND		$\overline{RRF}$	RRF50	%D		
Chloromethane	#	0.317	0.343	-8.2	#	VBLKM2
Bromomethane		1.035	1.115	-7.7		CBZ78
Vinyl Chloride	*	0.465	0.468	-0.6	*	CBZ79
Chloroethane		0.585	0.455	22.2		
Methylene Chloride		1.382	1.802	-30.4		CBZ80
Acetone		0.463	0.340	26.6		
Carbon Disulfide		3.838	2.468	35.7		CBZ81
1,1-Dichloroethene	*	1.126	0.891	20.9	*	CBZ82
1,1-Dichloroethane	#	1.765	1.317	25.4	#	
1,2-Dichloroethene (total)		2.326	2.203	5.3		CBZ83
Chloroform	*	3.062	2.358	23.0	*	
1,2-Dichloroethane		2.513	1.717	31.7		CBZ84
2-Butanone		0.087	0.113	-29.9		
1,1,1-Trichloroethane		0.820	0.544	33.7		CBZ84MS
Carbon Tetrachloride		0.799	0.504	36.9		CBZ84MSD
Vinyl Acetate		0.382	0.444	-16.2		
Bromodichloromethane		0.522	0.489	6.3		CBZ85
1,2-Dichloropropane	*	0.228	0.275	-20.6	*	
cis-1,3-Dichloropropene		0.381	0.426	-11.8		CBZ86
Trichloroethene		0.476	0.427	10.3		CBZ87
Dibromochloromethane		0.609	0.675	-10.8		
1,1,2-Trichloroethane		0.256	0.317	-23.8		
Benzene		0.639	0.620	3.0		
Trans-1,3-Dichloropropene		0.211	0.215	-1.9		
Bromoform	#	0.555	0.706	-27.2	#	
4-Methyl-2-Pentanone		0.282	0.300	-6.4		
2-Hexanone		0.222	0.244	-9.9		
Tetrachloroethene		0.596	0.625	-4.9		
1,1,2,2-Tetrachloroethane	#	0.532	0.624	-17.3	#	
Toluene	*	0.578	0.491	15.1	*	
Chlorobenzene	#	0.931	0.965	-3.7	#	
Ethylbenzene	*	0.425	0.361	15.1	*	
Styrene		1.191	1.122	5.8		
Total Xylenes		1.415	1.226	13.4		
Toluene-d8		0.994	1.006	-1.2		
BFB		0.889	0.807	9.2		
1,2-Dichloroethane-d4		2.262	1.648	27.1		

ORIGINAL (Red)

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: C8Z70

Instrument ID: 22 Calibration Date(s): 10/28/89 10/28/89

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = HM891028A22 RRF50 = HL891028A22
RRF80 = HK891028A22 RRF120= HJ891028A22 RRF160= HH891028A22

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	1.472	1.519	1.543	1.355	1.603	1.498	6.2
2,4-Dinitrotoluene	0.345	0.370	0.385	0.393	0.405	0.380	6.1
Diethylphthalate	1.453	1.567	1.496	1.400	1.488	1.481	4.1
4-Chlorophenyl-phenylether	0.514	0.681	0.790	0.760	0.996	0.748	23.4
Fluorene	1.164	1.415	1.357	1.264	2.339	1.508	31.5
4-Nitroaniline	0.253	0.212	0.237	0.248	0.246	0.239	6.8
4,6-Dinitro-2-Methylphenol	0.077	0.128	0.133	0.146	0.166	0.130	25.4
N-Nitrosodiphenylamine (1) *	0.564	0.734	0.755	0.735	0.914	0.740	16.8*
4-Bromophenyl-phenylether	0.193	0.261	0.270	0.293	0.347	0.273	20.4
Hexachlorobenzene	0.276	0.323	0.327	0.326	0.378	0.326	11.1
Pentachlorophenol *	0.167	0.117	0.133	0.148	0.162	0.145	14.3*
Phenanthrene	0.992	1.230	1.216	1.162	1.397	1.199	12.1
Anthracene	0.983	1.166	1.132	1.114	1.295	1.138	9.8
Di-n-Butylphthalate	1.399	1.529	1.565	1.459	1.706	1.532	7.6
Fluoranthene *	0.739	0.840	0.982	0.919	1.171	0.930	17.5*
Pyrene	1.441	1.809	2.035	2.084	2.294	1.933	16.8
Butylbenzylphthalate	0.816	0.936	1.047	1.145	1.300	1.049	17.8
3,3'-Dichlorobenzidine	0.143	0.126	0.163	0.167	0.175	0.155	12.9
Benzo(a)Anthracene	0.989	1.053	1.186	1.191	1.368	1.157	12.6
Chrysene	0.954	0.990	1.096	1.180	1.422	1.128	16.6
bis(2-Ethylhexyl)Phthalate	1.024	1.335	1.474	1.673	2.015	1.504	24.6
Di-n-Octyl Phthalate *	1.749	2.499	2.766	3.016	3.600	2.726	25.0*
Benzo(b)Fluoranthene	1.005	1.246	1.342	1.398	2.085	1.415	28.5
Benzo(k)Fluoranthene	1.391	1.653	1.734	2.039	1.884	1.740	14.1
Benzo(a)Pyrene *	0.987	1.059	1.120	1.271	1.327	1.153	12.4*
Indeno(1,2,3-cd)Pyrene	1.016	1.232	1.429	1.564	1.496	1.347	16.6
Dibenzo(a,h)Anthracene	0.756	0.890	1.037	1.157	1.150	0.998	17.4
Benzo(g,h,i)Perylene	0.864	0.987	1.173	1.254	1.173	1.090	14.7
Nitrobenzene-d5	0.653	0.713	0.607	0.605	0.537	0.623	10.5
2-Fluorobiphenyl	1.277	1.342	1.347	1.216	1.409	1.318	5.6
Terphenyl-d14	0.997	1.234	1.346	1.513	1.650	1.348	18.7
Phenol-d5	1.597	1.590	1.497	1.357	1.381	1.484	7.6
2-Fluorophenol	1.596	1.622	1.608	1.436	1.350	1.522	8.0
2,4,6-Tribromophenol	0.122	0.147	0.161	0.164	0.159	0.151	11.4

(1) Cannot be separated from Diphenylamine

ORIGINAL (Red)

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

Instrument ID: 22 Calibration Date(s): 10/28/89 10/28/89

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = HM891028A22 RRF50 = HL891028A22
RRF80 = HK891028A22 RRF120= HJ891028A22 RRF160= HH891028A22

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	1.774	1.689	1.495	1.439	1.416	1.563	10.2*
bis(2-Chloroethyl)Ether	1.694	1.602	1.425	1.361	1.335	1.483	10.6
2-Chlorophenol	1.494	1.396	1.424	1.329	1.334	1.395	4.9
1,3-Dichlorobenzene	1.600	1.515	1.506	1.392	1.413	1.485	5.7
1,4-Dichlorobenzene *	1.783	1.599	1.554	1.293	1.323	1.510	13.5*
Benzyl Alcohol	0.847	0.941	0.934	0.895	0.981	0.920	5.5
1,2-Dichlorobenzene	1.461	1.402	1.425	1.261	1.209	1.352	8.1
2-Methylphenol	1.150	1.214	1.126	1.060	1.014	1.113	7.0
bis(2-Chloroisopropyl)Ether	1.824	1.844	1.692	1.555	1.443	1.672	10.3
4-Methylphenol	1.194	1.249	1.154	1.052	1.091	1.148	6.9
N-Nitroso-Di-n-Propylamine #	1.319	1.341	1.183	1.173	1.316	1.266	6.4#
Hexachloroethane	0.887	0.870	0.908	0.941	0.921	0.905	3.1
Nitrobenzene	0.702	0.733	0.614	0.509	0.538	0.619	15.9
Isophorone	1.083	1.054	0.886	0.800	0.772	0.919	15.6
2-Nitrophenol *	0.206	0.290	0.229	0.239	0.245	0.242	12.7*
2,4-Dimethylphenol	0.456	0.494	0.486	0.483	0.439	0.472	4.9
Benzoic Acid	0.047	0.195	0.208	0.224	0.232	0.181	42.2
bis(2-Chloroethoxy)Methane	0.576	0.647	0.599	0.505	0.485	0.562	11.9
2,4-Dichlorophenol *	0.288	0.389	0.329	0.322	0.341	0.334	11.0*
1,2,4-Trichlorobenzene	0.348	0.411	0.370	0.382	0.392	0.381	6.2
Naphthalene	1.199	1.115	0.890	0.726	0.787	0.943	21.8
4-Chloroaniline	0.468	0.480	0.496	0.477	0.452	0.475	3.4
Hexachlorobutadiene *	0.186	0.228	0.210	0.215	0.219	0.212	7.4*
4-Chloro-3-Methylphenol *	0.382	0.472	0.446	0.394	0.371	0.413	10.6*
2-Methylnaphthalene	0.615	0.707	0.579	0.523	0.559	0.597	11.8
Hexachlorocyclopentadiene #	0.287	0.342	0.395	0.462	0.545	0.406	24.9#
2,4,6-Trichlorophenol *	0.361	0.393	0.447	0.469	0.573	0.449	18.2*
2,4,5-Trichlorophenol	0.358	0.442	0.455	0.521	0.593	0.474	18.6
2-Chloronaphthalene	1.226	1.378	1.389	1.308	1.583	1.377	9.6
2-Nitroaniline	0.599	0.740	0.788	0.731	0.735	0.719	9.8
Dimethyl Phthalate	1.421	1.401	1.399	1.310	1.439	1.394	3.6
Acenaphthylene	1.670	1.628	1.660	1.554	1.857	1.674	6.7
2,6-Dinitrotoluene	0.243	0.327	0.352	0.369	0.455	0.349	21.9
3-Nitroaniline	0.263	0.313	0.323	0.370	0.359	0.326	13.0
Acenaphthene *	1.164	1.255	1.264	1.261	1.480	1.285	9.1*
2,4-Dinitrophenol #	0.101	0.127	0.136	0.133	0.147	0.129	13.3#
4-Nitrophenol #	0.362	0.389	0.444	0.464	0.376	0.407	10.9#

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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

ORIGINAL (Red)

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Instrument ID: 20 Calibration Date(s): 10/26/89 10/26/89

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.

LAB FILE ID: RRF20 = HI891026A20 RRF50 = HG891026A20
RRF80 = HK891026A20 RRF120= HJ891026A20 RRF160= HM891026B20

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	1.588	1.575	1.588	1.586	1.713	1.610	3.
2,4-Dinitrotoluene	0.362	0.398	0.382	0.383	0.442	0.393	7.
Diethylphthalate	1.685	1.649	1.586	1.634	1.775	1.666	4.
4-Chlorophenyl-phenylether	0.536	0.542	0.512	0.520	0.534	0.529	2.
Fluorene	1.272	1.270	1.216	1.244	1.292	1.259	2.
4-Nitroaniline	0.319	0.340	0.342	0.319	0.409	0.346	10.
4,6-Dinitro-2-Methylphenol	0.092	0.116	0.117	0.122	0.137	0.117	13.
N-Nitrosodiphenylamine (1) *	0.663	0.664	0.643	0.647	0.689	0.661	2.
4-Bromophenyl-phenylether	0.227	0.241	0.232	0.230	0.231	0.232	2.
Hexachlorobenzene	0.309	0.301	0.277	0.279	0.252	0.284	7.
Pentachlorophenol *	0.055	0.115	0.097	0.092	0.124	0.097	27.
Phenanthrene	1.204	1.252	1.135	1.137	1.204	1.186	4.
Anthracene	1.202	1.210	1.231	1.193	1.211	1.209	1.
Di-n-Butylphthalate	1.850	2.099	1.972	1.821	1.979	1.944	5.
Fluoranthene *	1.041	1.154	1.032	0.955	1.027	1.042	6.
Pyrene	1.398	1.319	1.294	1.454	1.627	1.418	9.
Butylbenzylphthalate	0.897	0.912	0.995	1.068	1.112	0.997	9.
3,3'-Dichlorobenzidine	0.210	0.197	0.212	0.205	0.189	0.203	4.
Benzo(a)Anthracene	1.153	1.102	1.099	1.104	1.090	1.110	2.
Chrysene	1.095	1.044	0.996	1.053	0.934	1.024	6.
bis(2-Ethylhexyl)Phthalate	1.336	1.393	1.437	1.522	1.521	1.442	5.
Di-n-Octyl Phthalate *	2.368	2.430	2.625	2.776	2.890	2.618	8.
Benzo(b)Fluoranthene	1.162	1.203	1.294	1.141	1.054	1.171	7.
Benzo(k)Fluoranthene	1.406	1.310	0.807	0.977	1.070	1.114	21.
Benzo(a)Pyrene *	1.022	1.051	1.054	1.056	1.036	1.044	1.
Indeno(1,2,3-cd)Pyrene	1.227	1.309	1.286	1.219	1.219	1.252	3.
Dibenzo(a,h)Anthracene	0.881	0.951	0.938	0.893	0.867	0.906	4.
Benzo(g,h,i)Perylene	1.037	1.139	1.114	1.065	1.075	1.086	3.
Nitrobenzene-d5	0.695	0.629	0.723	0.696	0.704	0.689	5.
2-Fluorobiphenyl	1.276	1.349	1.364	1.281	1.487	1.351	6.
Terphenyl-d14	1.011	0.990	0.973	1.039	1.114	1.025	5.
Phenol-d5	2.194	2.130	2.163	2.254	2.190	2.186	2.
2-Fluorophenol	1.717	1.744	1.755	1.814	1.789	1.764	2.
2,4,6-Tribromophenol	0.149	0.159	0.150	0.139	0.158	0.151	5.

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL (Red)

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Instrument ID: 20 Calibration date: 11/03/89 Time: 0144

Lab File ID: HH391103C20 Init. Calib. Date(s): 10/26/89 10/26/89

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25

COMPOUND		$\overline{RRF}$	RRF50	%D		
Phenol	*	2.377	2.864	-20.5	*	SBLK 81
bis(2-Chloroethyl)Ether		2.288	2.793	-22.1		CBZ84
2-Chlorophenol		1.647	1.702	-3.3		
1,3-Dichlorobenzene		1.676	1.673	0.2		CBZ84MS
1,4-Dichlorobenzene	*	1.720	1.722	-0.1	*	
Benzyl Alcohol		1.175	1.170	0.4		CBZ84 MSD
1,2-Dichlorobenzene		1.579	1.644	-4.1		
2-Methylphenol		1.664	1.852	-11.3		CBZ79
bis(2-Chloroisopropyl)Ether		2.373	3.945	-66.3		
4-Methylphenol		1.756	1.797	-2.3		
N-Nitroso-Di-n-Propylamine	#	1.802	2.534	-40.6	#	
Hexachloroethane		1.031	1.206	-17.0		
Nitrobenzene		0.644	0.886	-37.6		
Isophorone		1.132	1.604	-41.7		
2-Nitrophenol	*	0.197	0.208	-5.6	*	
2,4-Dimethylphenol		0.480	0.592	-23.3		
Benzoic Acid		0.109	0.196	-79.8		
bis(2-Chloroethoxy)Methane		0.689	0.778	-12.9		
2,4-Dichlorophenol	*	0.256	0.269	-5.1	*	
1,2,4-Trichlorobenzene		0.286	0.293	-2.4		
Naphthalene		1.235	1.265	-2.4		
4-Chloroaniline		0.608	0.675	-11.0		
Hexachlorobutadiene	*	0.162	0.169	-4.3	*	
4-Chloro-3-Methylphenol	*	0.433	0.510	-17.8	*	
2-Methylnaphthalene		0.675	0.642	4.9		
Hexachlorocyclopentadiene	#	0.371	0.381	-2.7	#	
2,4,6-Trichlorophenol	*	0.338	0.362	-7.1	*	
2,4,5-Trichlorophenol		0.348	0.376	-8.0		
2-Chloronaphthalene		1.315	1.321	-0.5		
2-Nitroaniline		0.692	0.931	-34.5		
Dimethyl Phthalate		1.410	1.588	-12.6		
Acenaphthylene		1.950	2.030	-4.1		
2,6-Dinitrotoluene		0.280	0.310	-10.7		
3-Nitroaniline		0.355	0.361	-1.7		
Acenaphthene	*	1.351	1.418	-5.0	*	
2,4-Dinitrophenol	#	0.096	0.143	-49.0	#	
4-Nitrophenol	#	0.289	0.500	-73.0	#	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Instrument ID: 20 Calibration date: 11/03/89 Time: 0144

Lab File ID: HH891103C20 Init. Calib. Date(s): 10/26/89 10/26/89

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.610	1.656	-2.9	
2,4-Dinitrotoluene	0.393	0.408	-3.8	
Diethylphthalate	1.666	1.948	-16.9	
4-Chlorophenyl-phenylether	0.529	0.532	-0.6	
Fluorene	1.259	1.250	0.7	
4-Nitroaniline	0.346	0.353	-2.0	
4,6-Dinitro-2-Methylphenol	0.117	0.123	-5.1	
N-Nitrosodiphenylamine (1) *	0.661	0.662	-0.2	*
4-Bromophenyl-phenylether	0.232	0.229	1.3	
Hexachlorobenzene	0.284	0.290	-2.1	
Pentachlorophenol *	0.097	0.118	-21.7	*
Phenanthrene	1.186	1.211	-2.1	
Anthracene	1.209	1.194	1.2	
Di-n-Butylphthalate	1.944	2.334	-20.1	
Fluoranthene *	1.042	1.103	-5.9	*
Pyrene	1.418	1.409	0.6	
Butylbenzylphthalate	0.997	1.137	-14.0	
3,3'-Dichlorobenzidine	0.203	0.183	9.9	
Benzo(a)Anthracene	1.110	1.113	-0.3	
Chrysene	1.024	1.030	-0.6	
bis(2-Ethylhexyl)Phthalate	1.442	1.636	-13.5	
Di-n-Octyl Phthalate *	2.618	2.861	-9.3	*
Benzo(b)Fluoranthene	1.171	1.323	-13.0	
Benzo(k)Fluoranthene	1.114	1.177	-5.7	
Benzo(a)Pyrene *	1.044	1.030	1.3	*
Indeno(1,2,3-cd)Pyrene	1.252	1.193	4.7	
Dibenzo(a,h)Anthracene	0.906	0.862	4.9	
Benzo(g,h,i)Perylene	1.086	0.996	8.3	
Nitrobenzene-d5	0.689	0.932	-35.3	
2-Fluorobiphenyl	1.351	1.337	1.0	
Terphenyl-d14	1.025	1.013	1.2	
Phenol-d5	2.186	2.512	-14.9	
2-Fluorophenol	1.764	1.918	-8.7	
2,4,6-Tribromophenol	0.151	0.179	-18.5	

SB1K81
CBZ84
CBZ84MS
CBZ84MSD
CBZ79

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL (Red)

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Instrument ID: 20 Calibration date: 11/03/89 Time: 1304

Lab File ID: HH391103A20 Init. Calib. Date(s): 10/26/89 10/26/89

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25

COMPOUND		$\overline{RRF}$	RRF50	%D		
Phenol	*	2.377	2.798	-17.7	*	CBZ80
bis(2-Chloroethyl)Ether		2.288	2.725	-19.1		CBZ81
2-Chlorophenol		1.647	1.690	-2.6		CBZ83
1,3-Dichlorobenzene		1.676	1.651	1.5		
1,4-Dichlorobenzene	*	1.720	1.726	-0.3	*	CBZ85
Benzyl Alcohol		1.175	1.233	-4.9		
1,2-Dichlorobenzene		1.579	1.577	0.1		CBZ86
2-Methylphenol		1.664	1.721	-3.4		
bis(2-Chloroisopropyl)Ether		2.373	4.180	-76.2		CBZ87
4-Methylphenol		1.756	1.761	-0.3		
N-Nitroso-Di-n-Propylamine	#	1.802	2.568	-42.5	#	CBZ78
Hexachloroethane		1.031	1.161	-12.6		
Nitrobenzene		0.644	0.915	-42.1		
Isophorone		1.132	1.710	-51.1		
2-Nitrophenol	*	0.197	0.227	-15.2	*	
2,4-Dimethylphenol		0.480	0.596	-24.2		
Benzoic Acid		0.109	0.201	-84.4		
bis(2-Chloroethoxy)Methane		0.689	0.826	-19.9		
2,4-Dichlorophenol	*	0.256	0.280	-9.4	*	
1,2,4-Trichlorobenzene		0.286	0.305	-6.6		
Naphthalene		1.235	1.343	-8.7		
4-Chloroaniline		0.608	0.687	-13.0		
Hexachlorobutadiene	*	0.162	0.180	-11.1	*	
4-Chloro-3-Methylphenol	*	0.433	0.536	-23.8	*	
2-Methylnaphthalene		0.675	0.672	0.4		
Hexachlorocyclopentadiene	#	0.371	0.417	-12.4	#	
2,4,6-Trichlorophenol	*	0.338	0.376	-11.2	*	
2,4,5-Trichlorophenol		0.348	0.385	-10.6		
2-Chloronaphthalene		1.315	1.387	-5.5		
2-Nitroaniline		0.692	1.030	-48.8		
Dimethyl Phthalate		1.410	1.596	-13.2		
Acenaphthylene		1.950	2.031	-4.2		
2,6-Dinitrotoluene		0.280	0.313	-11.8		
3-Nitroaniline		0.355	0.340	4.2		
Acenaphthene	*	1.351	1.493	-10.5	*	
2,4-Dinitrophenol	#	0.096	0.142	-47.9	#	
4-Nitrophenol	#	0.289	0.489	-69.2	#	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Instrument ID: 20 Calibration date: 11/03/89 Time: 1304

Lab File ID: HH391103A20 Init. Calib. Date(s): 10/26/89 10/26/89

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

COMPOUND		$\overline{RRF}$	RRF50	%D		
Dibenzofuran		1.610	1.735	-7.8		CBZ80
2,4-Dinitrotoluene		0.393	0.474	-20.6		CBZ81
Diethylphthalate		1.666	1.952	-17.2		CBZ83
4-Chlorophenyl-phenylether		0.529	0.545	-3.0		CBZ85
Fluorene		1.259	1.340	-6.4		CBZ86
4-Nitroaniline		0.346	0.327	5.5		CBZ87
4,6-Dinitro-2-Methylphenol		0.117	0.123	-5.1		CBZ78
N-Nitrosodiphenylamine (1)	*	0.661	0.648	2.0	*	
4-Bromophenyl-phenylether		0.232	0.227	2.2		
Hexachlorobenzene		0.284	0.302	-6.3		
Pentachlorophenol	*	0.097	0.118	-21.7	*	
Phenanthrene		1.186	1.209	-1.9		
Anthracene		1.209	1.216	-0.6		
Di-n-Butylphthalate		1.944	2.080	-7.0		
Fluoranthene	*	1.042	0.975	6.4	*	
Pyrene		1.418	1.422	-0.3		
Butylbenzylphthalate		0.997	1.109	-11.2		
3,3'-Dichlorobenzidine		0.203	0.205	-1.0		
Benzo(a)Anthracene		1.110	1.085	2.3		
Chrysene		1.024	1.007	1.7		
bis(2-Ethylhexyl)Phthalate		1.442	1.590	-10.3		
Di-n-Octyl Phthalate	*	2.618	2.753	-5.2	*	
Benzo(b)Fluoranthene		1.171	1.206	-3.0		
Benzo(k)Fluoranthene		1.114	1.062	4.7		
Benzo(a)Pyrene	*	1.044	1.050	-0.6	*	
Indeno(1,2,3-cd)Pyrene		1.252	1.364	-8.9		
Dibenzo(a,h)Anthracene		0.906	0.977	-7.8		
Benzo(g,h,i)Perylene		1.086	1.140	-5.0		
Nitrobenzene-d5		0.689	0.983	-42.7		
2-Fluorobiphenyl		1.351	1.359	-0.6		
Terphenyl-d14		1.025	1.043	-1.8		
Phenol-d5		2.186	2.468	-12.9		
2-Fluorophenol		1.764	1.969	-11.6		
2,4,6-Tribromophenol		0.151	0.178	-17.9		

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Instrument ID: 20 Calibration date: 11/06/89 Time: 2229

Lab File ID: HG891106B20 Init. Calib. Date(s): 10/26/89 10/26/89

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.

CBZ82

COMPOUND		$\overline{RRF}$	RRF50	%D	
Phenol	*	2.377	1.868	21.4	*
bis(2-Chloroethyl)Ether		2.288	1.574	31.2	
2-Chlorophenol		1.647	1.408	14.5	
1,3-Dichlorobenzene		1.676	1.549	7.6	
1,4-Dichlorobenzene	*	1.720	1.612	6.3	*
Benzyl Alcohol		1.175	0.694	40.9	
1,2-Dichlorobenzene		1.579	1.392	11.8	
2-Methylphenol		1.664	1.108	33.4	
bis(2-Chloroisopropyl)Ether		2.373	1.784	24.8	
4-Methylphenol		1.756	1.042	40.7	
N-Nitroso-Di-n-Propylamine	#	1.802	1.438	20.2	#
Hexachloroethane		1.031	1.027	0.4	
Nitrobenzene		0.644	0.747	-16.0	
Isophorone		1.132	1.110	1.9	
2-Nitrophenol	*	0.197	0.207	-5.1	*
2,4-Dimethylphenol		0.480	0.526	-9.6	
Benzoic Acid		0.109	0.094	13.8	
bis(2-Chloroethoxy)Methane		0.689	0.514	25.4	
2,4-Dichlorophenol	*	0.256	0.245	4.3	*
1,2,4-Trichlorobenzene		0.286	0.309	-8.0	
Naphthalene		1.235	1.260	-2.0	
4-Chloroaniline		0.608	0.254	58.2	
Hexachlorobutadiene	*	0.162	0.185	-14.2	*
4-Chloro-3-Methylphenol	*	0.433	0.342	21.0	*
2-Methylnaphthalene		0.675	0.556	17.6	
Hexachlorocyclopentadiene	#	0.371	0.346	6.7	#
2,4,6-Trichlorophenol	*	0.338	0.302	10.7	*
2,4,5-Trichlorophenol		0.348	0.297	14.7	
2-Chloronaphthalene		1.315	1.222	7.1	
2-Nitroaniline		0.692	0.698	-0.9	
Dimethyl Phthalate		1.410	1.178	16.5	
Acenaphthylene		1.950	1.600	18.0	
2,6-Dinitrotoluene		0.280	0.209	25.4	
3-Nitroaniline		0.355	0.180	49.3	
Acenaphthene	*	1.351	1.341	0.7	*
2,4-Dinitrophenol	#	0.096	0.104	-8.3	#
4-Nitrophenol	#	0.289	0.376	-30.1	#

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ78

Instrument ID: 20 Calibration date: 11/06/89 Time: 2229

Lab File ID: HG891106B20 Init. Calib. Date(s): 10/26/89 10/26/89

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.

CBZ82

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.610	1.359	15.6	
2,4-Dinitrotoluene	0.393	0.338	14.0	
Diethylphthalate	1.666	1.381	17.1	
4-Chlorophenyl-phenylether	0.529	0.399	24.6	
Fluorene	1.259	0.839	33.4	
4-Nitroaniline	0.346	0.131	62.1	
4,6-Dinitro-2-Methylphenol	0.117	0.094	19.7	
N-Nitrosodiphenylamine (1) *	0.661	0.500	24.4	*
4-Bromophenyl-phenylether	0.232	0.212	8.6	
Hexachlorobenzene	0.284	0.258	9.2	
Pentachlorophenol *	0.097	0.114	-17.5	*
Phenanthrene	1.186	1.150	3.0	
Anthracene	1.209	1.071	11.4	
Di-n-Butylphthalate	1.944	1.600	17.7	
Fluoranthene *	1.042	0.928	10.9	*
Pyrene	1.418	1.647	-16.2	
Butylbenzylphthalate	0.997	0.933	6.4	
3,3'-Dichlorobenzidine	0.203	0.194	4.4	
Benzo(a)Anthracene	1.110	1.100	0.9	
Chrysene	1.024	1.026	-0.2	
bis(2-Ethylhexyl)Phthalate	1.442	1.410	2.2	
Di-n-Octyl Phthalate *	2.618	2.372	9.4	*
Benzo(b)Fluoranthene	1.171	1.161	0.9	
Benzo(k)Fluoranthene	1.114	1.189	-6.7	
Benzo(a)Pyrene *	1.044	1.024	1.9	*
Indeno(1,2,3-cd)Pyrene	1.252	1.411	-12.7	
Dibenzo(a,h)Anthracene	0.906	1.004	-10.8	
Benzo(g,h,i)Perylene	1.086	1.225	-12.8	
Nitrobenzene-d5	0.689	0.686	0.4	
2-Fluorobiphenyl	1.351	1.633	-20.9	
Terphenyl-d14	1.025	1.070	-4.4	
Phenol-d5	2.186	1.975	9.7	
2-Fluorophenol	1.764	1.439	18.4	
2,4,6-Tribromophenol	0.151	0.110	27.2	

(1) Cannot be separated from Diphenylamine

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

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

Lab Code: COMPU Case No.: 13022 SAS No.: _____ SDG No.: CBZ70

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
01	CBZ70	80	79	99	41	54	95		0
02	CBZ71	82	89	104	36	50	111		0
03	CBZ72	86	82	97	37	56	97		0
04	CBZ73	90	68	81	35	53	100		0
05	CBZ74	56	51	74	26	35	62		0
06	CBZ75	75	73	98	52	64	125 *		1
07	CBZ76	94	90	118	52	65	101		0
08	CBZ74MS	79	79	100	38	43	78		0
09	CBZ74MSD	82	81	104	55	64	107		0
10	SBLK71	62	59	76	27	37	73		0

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl	(33-141)
S4 (PHL)	= Phenol-d5	(10-94)
S5 (2FP)	= 2-Fluorophenol	(21-100)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)

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