

START

9613451.1434

Z1A-813-1-TMA-047

0044559

2

CASE NARRATIVE

LABORATORY: TMA/ARLI

CASE: 08-089

CONTRACT ID: WESTINGHOUSE HANFORD COMPANY

SDG RECEIPT DATE: August 15, 1991



1.0 DESCRIPTION OF CASE:

One water sample was analyzed for TCL Volatiles and Semivolatiles according to the USEPA Contract Laboratory Program (CLP) Statement of Work for Organic Analysis, Revision 2/88.

2.0 SAMPLE LIST:

<u>WESTINGHOUSE ID</u>	<u>LAB ID</u>	<u>ANALYSIS REQUESTED</u>	<u>MATRIX</u>
Z1A813-2	A1-08-089-02A	SV	WATER
Z1A813-2MS	A1-08-089-02B	SV	WATER
Z1A813-2MSD	A1-08-089-02C	SV	WATER
Z1A813-1	A1-08-089-01A	V	WATER
Z1A813-1MS	A1-08-089-01A	V	WATER
Z1A813-1MSD	A1-08-089-01A	V	WATER
SVBLK01	A1-08-089-WB	SV	WATER
VBBL822	WB82291	V	WATER

3.0 COMMENTS:

3.1 SHIPPING AND DOCUMENTATION:

All samples were received unbroken and properly documented.

3.2 ANALYSIS:

3.2.1 VOLATILE ANALYSIS COMMENTS:

All QC results were within the limits specified in the EPA CLP SOW. The sample and the MS and MSD were run using one milliliter instead of five milliliters because of the high volatiles content.

3.2.2 There was not sufficient sample supplied to run a semivolatile MSD. The recoveries of the MS were well within the acceptable limits.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data in this package and on the accompanying data diskette is authorized by the Lab Manager as verified by the following signature.



Dennis D. Wells
Laboratory Manager

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1A

4
EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Z1A8131

Lab Name: TMA/ARLI Contract: WESTINHOUSE
 Lab Code: TMALA Case No.: 08089V SAS No.: NA SDG No.: NA
 Matrix: (soil/water) WATER Lab Sample ID: A108089-01A
 Sample wt/vol: 1.0 (g/mL) ML Lab File ID: 822R03
 Level: (low/med) LOW Date Received: 08/15/91
 % Moisture: not dec. Date Analyzed: 08/22/91
 Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	-----Chloromethane	50	U
74-83-9	-----Bromomethane	50	U
75-01-4	-----Vinyl Chloride	50	U
75-00-3	-----Chloroethane	50	U
75-09-2	-----Methylene Chloride	310	B
67-64-1	-----Acetone	40	J
75-15-0	-----Carbon Disulfide	25	U
75-35-4	-----1,1-Dichloroethene	25	U
75-34-3	-----1,1-Dichloroethane	25	U
540-59-0	-----1,2-Dichloroethene (total)	25	U
67-66-3	-----Chloroform	680	
107-06-2	-----1,2-Dichloroethane	25	U
78-93-3	-----2-Butanone	50	U
71-55-6	-----1,1,1-Trichloroethane	25	U
56-23-5	-----Carbon Tetrachloride	150	
108-05-4	-----Vinyl Acetate	50	U
75-27-4	-----Bromodichloromethane	25	U
78-87-5	-----1,2-Dichloropropane	25	U
10061-01-5	-----cis-1,3-Dichloropropene	25	U
79-01-6	-----Trichloroethene	25	U
124-48-1	-----Dibromochloromethane	25	U
79-00-5	-----1,1,2-Trichloroethane	25	U
71-43-2	-----Benzene	25	U
10061-02-6	-----trans-1,3-Dichloropropene	25	U
110-75-8	-----2-Chloroethoxy ethene	50	U
75-25-2	-----Bromoform	25	U
108-10-1	-----4-Methyl-2-Pentanone	50	U
591-78-6	-----2-Hexanone	50	U
127-18-4	-----Tetrachloroethene	25	U
79-34-5	-----1,1,2,2-Tetrachloroethane	25	U
108-88-3	-----Toluene	25	U
108-90-7	-----Chlorobenzene	25	U
100-41-4	-----Ethylbenzene	25	U
100-42-5	-----Styrene	25	U
1330-20-7	-----Xylenes (total)	25	U

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EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

21A8131

Lab Name: TMA/ARLI

Contract: WESTINHOUSE

Lab Code: TMALA

Case No.: 08089V

SAS No.: NA

SDG No.: NA

Matrix: (soil/water) WATER

Lab Sample ID: A108089-01A

Sample wt/vol: 1.0 (g/mL) ML

Lab File ID: 822R03

Level: (low/med) LOW

Date Received: 08/15/91

% Moisture: not dec.

Date Analyzed: 08/22/91

Column (pack/cap) PACK

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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1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Z1A-813-2

Lab Name: TMA/ARLI Contract: WESTINGHOUS

Lab Code: TMALA Case No.: 08089S SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: A108089-02A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0826N10

Level: (low/med) LOW Date Received: 08/15/91

% Moisture: not dec. dec. Date Extracted: 08/21/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/26/91

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

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

108-95-2-----	Phenol	880	E
62-53-3-----	Aniline	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
100-51-6-----	Benzyl Alcohol	16	
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	bis(2-Chloroisopropyl) Ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
65-85-0-----	Benzoic Acid	150	
111-91-1-----	bis(2-Chloroethoxy)Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethyl Phthalate	10	U
208-96-8-----	Acenaphthylene	10	U

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IC

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Z1A-813-2

Lab Name: TMA/ARLI Contract: WESTINGHOUS
 Lab Code: TMALA Case No.: 08089S SAS No.: NA SDG No.: NA
 Matrix: (soil/water) WATER Lab Sample ID: A108089-02A
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0826N10
 Level: (low/med) LOW Date Received: 08/15/91
 % Moisture: not dec. dec. Date Extracted: 08/21/91
 Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/26/91
 GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	2	J
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	2	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
117-81-7	bis(2-Ethylhexyl) Phthalate	5	BJ
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

9613451-1440

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Z1A-813-2

Lab Name: TMA/ARLI Contract: WESTINGHOUS

Lab Code: TMALA Case No.: 08089S SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: A108089-02A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 0826N10

Level: (low/med) LOW Date Received: 08/15/91

% Moisture: not dec. dec. Date Extracted: 08/21/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/26/91

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/LNumber TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN KETONE	3.15	40	J
2.	UNKNOWN HYDROCARBON	6.55	62	J
3.	UNKNOWN SUBSTITUTED BENZENE	7.67	96	J
4.	UNKNOWN CARBOXYLIC ACID	10.40	1400	J
5.	UNKNOWN CARBOXYLIC ACID ESTE	11.07	34	J
6.	UNKNOWN HYDROCARBON	12.25	82	J
7.	UNKNOWN AROMATIC	12.47	26	J
8.	UNKNOWN AROMATIC	13.05	46	J
9.	UNKNOWN AROMATIC	14.04	880	J
10.	UNKNOWN HYDROCARBON	15.60	66	J
11.	UNKNOWN HYDROCARBON	17.75	60	J
12.	UNKNOWN ALCOHOL	22.15	60	J
13.	UNKNOWN ALCOHOL	22.22	44	J
14.	UNKNOWN CARBOXYLIC ACID	23.47	38	J
15.	UNKNOWN HYDROCARBON	25.87	36	J
16.	UNKNOWN SUBSTITUTED PHENOL	26.46	1100	J
17.	UNKNOWN HYDROCARBON	28.37	140	J
18.	UNKNOWN OCTADECADIENOIC ACID	28.72	82	J
19.	UNKNOWN COMPOUND	32.57	180	J
20.	UNKNOWN PHTHALATE	32.84	60	J

