Weyerhaeuser

Corporate Headquarters
Tacoma, Washington 98477
Tel (206) 924 2345

CASE NARRATIVE

WEYERHAEUSER (WEYER)
ANALYTICAL AND TESTING SERVICES

Case Number: 11003
SDG Number: 3000-7
Contract Number: N/A

Samples from this case (11003) were received on 8/11/89. This case was comprised of waters for VOAs, BNAs, and Pesticides. The requested analysis were as follows:

SAMPLE ID	MATRIX	ANALYSIS REQUESTED
3000-7	WATER	BNA; VOA; PEST
3000-7MS	WATER	BNA; VOA; PEST
3000-7MSD	WATER	BNA; VOA; PEST

Several anomalies existed with this sample set that are listed below. The anomalies are broken up into three categories for ease of explanation.

1. VOA

   a) All samples and blanks contain a peak at approximately scan #50 that is >10% of the nearest internal standard. This peak is carbon dioxide and is not searched in any of the samples. A spectra of this peak is on file at the laboratory for review.

   b) The unknown found in the blank samples is carryover from the standard. This carryover only lasts one run and therefore is not found in any of the samples.

2. PESTICIDES

   a) The matrix spike and matrix spike duplicate for 3000-7 had several compounds outside the acceptable limits for recovery. In several cases, the RPDs were also outside the limits suggesting a matrix problem. These limits are for advisory purposes only and therefore, no further action was required.

   b) DBC was outside of the recovery limits in all samples. The value for the blank was within limits indicating a matrix problem. These limits are advisory limits only and therefore, no additional action was required.

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3. SEMIVOLATILES

a) Nitrobenzene-d5 was outside the recovery limits for all samples. This was the only surrogate outside the limits and therefore, no additional action was required.

b) Nitrophenol and Dinitrotoluene were outside the recovery limits on the MS and MSD. These are advisory limits only and no additional action was required. It is interesting to note that the compounds out along with the surrogate listed in "a" above are all "nitro" compounds. This is most likely all caused by the large amount of Pentachlorophenol found in the sample.

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 contained in this hardcopy data package and in the computer readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Dennis M Catalano 9/14/89

Dennis Catalano
Laboratory Manager

Date

Please feel free to contact me with any questions concerning this data report. I can be reached at (206) 924-6242.

Sincerely,

Dennis M Catalano

Dennis Catalano, Manager
Organic Laboratory
Weyerhaeuser Analytical & Testing Services

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VOLATILE ORGANICS ANALYSIS DATA SHEET

3000-7

Lab Name: WEYERHAEUSER Contract: _____

Lab Code: WEYER Case No.: 00342 SAS No.: _____ SDG No.: 3000-7

Matrix: (soil/water) WATER Lab Sample ID: 33427

Sample wt/vol: 0.025 (g/mL) ML Lab File ID: B0911

Level: (low/med) LOW Date Received: 08/11/89

% Moisture: not dec. _____ Date Analyzed: 08/17/89

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2000	U
74-83-9	Bromomethane	2000	U
75-01-4	Vinyl chloride	2000	U
75-00-3	Chloroethane	2000	U
75-09-2	Methylene chloride	1000	U
67-64-1	Acetone	2000	U
75-15-0	Carbon disulfide	1000	U
75-35-4	1,1-Dichloroethene	1000	U
75-35-3	1,1-Dichloroethane	1000	U
540-59-0	1,2-Dichloroethene (total)	1000	U
67-66-3	Chloroform	1000	U
107-06-2	1,2-Dichloroethane	1000	U
78-93-3	2-Butanone	12000	
71-55-6	1,1,1-Trichloroethane	1000	U
56-23-5	Carbon tetrachloride	1000	U
108-05-4	Vinyl acetate	2000	U
75-27-4	Bromodichloromethane	1000	U
78-87-5	1,2-Dichloropropane	1000	U
10061-01-5	cis-1,3-Dichloropropene	1000	U
79-01-6	Trichloroethene	1000	U
124-48-1	Dibromochloromethane	1000	U
79-00-5	1,1,2-Trichloroethane	1000	U
71-43-2	Benzene	1000	U
10061-02-6	trans-1,3-Dichloropropene	1000	U
75-25-2	Bromoform	1000	U
108-10-1	4-Methyl-2-pentanone	2000	U
591-78-6	2-Hexanone	2000	U
127-18-4	Tetrachloroethene	1000	U
79-34-5	1,1,2,2-Tetrachloroethane	1000	U
108-88-3	Toluene	2000	
108-90-7	Chlorobenzene	1000	U
100-41-4	Ethylbenzene	300	J
100-42-5	Styrene	1000	U
1330-20-7	Xylene (total)	2900	

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B 1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

3000-7

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 00342 SAS No.: SDG No.: 3000-7

Matrix: (soil/water) WATER Lab Sample ID: 33427

Sample wt/vol: 10.0 (g/mL) ML Lab File ID: BN90830G

Level: (low/med) LOW Date Received: 08/11/89

% Moisture: not dec. dec. Date Extracted: 08/16/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/30/89

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

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

CAS NO.	COMPOUND	UG/L	Q
108-95-2	Phenol	10000	
111-44-4	bis(2-Chloroethyl)Ether	1000	U
95-57-8	2-Chlorophenol	1000	U
541-73-1	1,3-Dichlorobenzene	1000	U
106-46-7	1,4-Dichlorobenzene	1000	U
100-51-6	Benzyl Alcohol	1000	U
95-50-1	1,2-Dichlorobenzene	1000	U
95-48-7	2-Methylphenol	1000	U
39638-32-9	bis(2-Chloroisopropyl)Ether	1000	U
106-44-5	4-Methylphenol	1000	U
621-64-7	N-Nitroso-Di-n-Propylamine	1000	U
67-72-1	Hexachloroethane	1000	U
98-95-3	Nitrobenzene	1000	U
78-59-1	Isophorone	1000	U
88-75-5	2-Nitrophenol	1000	U
105-67-9	2,4-Dimethylphenol	1000	U
65-85-0	Benzoic Acid	1900	J
111-91-1	bis(2-Chloroethoxy)Methane	1000	U
120-83-2	2,4-Dichlorophenol	1000	U
120-82-1	1,2,4-Trichlorobenzene	1000	U
91-20-3	Naphthalene	210	J
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	1000	U
59-50-7	4-Chloro-3-Methylphenol	1000	U
91-57-6	2-Methylnaphthalene	1000	
77-47-4	Hexachlorocyclopentadiene	1000	U
88-06-2	2,4,6-Trichlorophenol	1000	U
95-95-4	2,4,5-Trichlorophenol	5000	U
91-58-7	2-Chloronaphthalene	1000	U
88-74-4	2-Nitroaniline	5000	U
131-11-3	Dimethyl Phthalate	1000	U
208-96-8	Acenaphthylene	1000	U
606-20-2	2,6-Dinitrotoluene	1000	U

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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

3000-7

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 00342 SAS No.: SDG No.: 3000-7

Matrix: (soil/water) WATER Lab Sample ID: 33427

Sample wt/vol: 10.0 (g/mL) ML Lab File ID: BN90830G

Level: (low/med) LOW Date Received: 08/11/89

% Moisture: not dec. dec. Date Extracted: 08/16/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/30/89

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	5000	U
83-32-9	Acenaphthene	1000	U
51-28-5	2,4-Dinitrophenol	5000	U
100-02-7	4-Nitrophenol	5000	U
132-64-9	Dibenzofuran	1000	U
121-14-2	2,4-Dinitrotoluene	1000	U
84-66-2	Diethylphthalate	1000	U
7005-72-3	4-Chlorophenyl-phenylether	1000	U
86-73-7	Fluorene	1000	U
100-10-6	4-Nitroaniline	5000	U
534-52-1	4,6-Dinitro-2-Methylphenol	5000	U
86-30-6	N-Nitrosodiphenylamine (1)	1000	U
101-55-3	4-Bromophenyl-phenylether	1000	U
118-74-1	Hexachlorobenzene	1000	U
87-86-5	Pentachlorophenol	520000	E
85-01-8	Phenanthrene	1000	U
120-12-7	Anthracene	1000	U
84-74-2	Di-n-Butylphthalate	1000	U
206-44-0	Fluoranthene	1000	U
129-00-0	Pyrene	1000	U
85-68-7	Butylbenzylphthalate	1000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)Anthracene	1000	U
218-01-9	Chrysene	1000	U
117-81-7	bis(2-Ethylhexyl)phthalate	1000	U
117-84-0	Di-n-Octyl Phthalate	1000	U
205-99-2	Benzo(b)Fluoranthene	1000	U
207-08-9	Benzo(k)Fluoranthene	1000	U
50-32-8	Benzo(a)Pyrene	1000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	1000	U
53-70-3	Dibenz(a,h)Anthracene	1000	U
191-24-2	Benzo(g,h,i)Perylene	1000	U

(1) - Cannot be separated from Diphenylamine

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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

3000-7

Lab Name: WEYERHAEUSER Contract: 68D90026

Lab Code: WEYER Case No.: 00342 SAS No.: _____ SDG No.: 3000-7

Matrix: (soil/water) WATER Lab Sample ID: 33427

Sample wt/vol: 10.0 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 06/24/89

% Moisture: not dec. __ dec. __ Date Extracted: 08/23/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 09/12/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	5.0	U
319-85-7	beta-BHC	5.0	U
319-86-8	delta-BHC	5.0	U
58-89-9	gamma-BHC (Lindane)	5.0	U
76-44-8	Heptachlor	5.0	U
309-00-2	Aldrin	5.0	U
1024-57-3	Heptachlor epoxide	5.0	U
959-98-8	Endosulfan I	5.0	U
60-57-1	Dieldrin	10	U
72-55-9	4,4'-DDE	10	U
72-20-8	Endrin	10	U
33213-65-9	Endosulfan II	10	U
72-54-8	4,4'-DDD	10	U
1031-07-8	Endosulfan sulfate	10	U
50-29-3	4,4'-DDT	10	U
72-43-5	Methoxychlor	50	U
53494-70-5	Endrin ketone	10	U
5103-71-9	alpha-Chlordane	50	U
5103-74-2	gamma-Chlordane	50	U
8001-35-2	Toxaphene	100	U
12674-11-2	Aroclor-1016	50	U
11104-28-2	Aroclor-1221	50	U
11141-16-5	Aroclor-1232	50	U
53469-21-9	Aroclor-1242	50	U
12672-29-6	Aroclor-1248	50	U
11097-69-1	Aroclor-1254	100	U
11096-82-5	Aroclor-1260	100	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

3000-7

Lab Name: WEYERHAEUSER Contract: _____

Lab Code: WEYER Case No.: 00342 SAS No.: _____ SDG No.: 3000-7

Matrix: (soil/water) WATER Lab Sample ID: 33427

Sample wt/vol: 0.025 (g/mL) ML Lab File ID: B0911

Level: (low/med) LOW Date Received: 08/11/89

% Moisture: not dec. ____ Date Analyzed: 08/17/89

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

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B 1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

3000-7

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 00342 SAS No.: ——— SDG No.: 3000-7

Matrix: (soil/water) WATER Lab Sample ID: 33427

Sample wt/vol: 10.0 (g/mL) ML Lab File ID: BN90830G

Level: (low/med) LOW Date Received: 08/11/89

% Moisture: not dec. dec. Date Extracted: 08/16/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/30/89

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

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
-84-4	OXAZOLE, TRIMETHYL-	5.38	26000	JX
-0	2-FURANMETHANOL	5.53	6400	JX
3. -32-0	PYRAZINE, 2,5-DIMETHYL-	6.57	4000	JX
4. 2910-89-4	PYRAZINE, 2,3-DIMETHYL-	6.72	11000	JX
5	UNKNOWN	10.34	120000	JX
6 5-1	PYRAZINE, 3,5-DIETHYL-2-METH	11.72	780	JX
7. -0	NAPHTHALENE, 1-METHYL-	14.62	940	JX
	UNKNOWN	15.15	4000	JX
	UNKNOWN	16.07	1100	JX
1-33-5	BENZALDEHYDE, 4-HYDROXY-3-ME	16.19	5400	JX
575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	16.54	1600	JX
12.	UNKNOWN	17.07	4200	JX
13.	UNKNOWN	17.14	2200	JX
14. 2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	18.37	1100	JX
15. 4901-51-3	PHENOL, 2,3,4,5-TETRACHLORO-	18.80	19000	JX
16.	UNKNOWN	19.10	2600	JX
17. 306-08-1	BENZENEACETIC ACID, 4-HYDROX	20.44	20000	JX
18.	UNKNOWN	24.40	5000	JX
19.	UNKNOWN	26.79	1300	JX
20.	UNKNOWN	35.37	26000	JX

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