0047803

B00CV7-WEY-035

Weyerhaeuser

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Federal Way, Washington 98003
Analytical Chemistry Laboratories
Tacoma, Washington 98477
Tel (206) 924 6035
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OCT 1990 RECEIVED J.H. KESSNER

OCT 1997 RECEIVED EDMC

CASE NARRATIVE
WEYERHAEUSER (WEYER)
ANALYTICAL AND TESTING SERVICES

Case Number: 03580
SDG Number: B00CV7
Contract Number: 1100 EM1

Samples from this case (03580) were received on 8/24/90 through 8/29/90. This case was comprised of waters for VOAs, BNAs, and Pesticides. The requested analysis were as follows:

SAMPLE ID	MATRIX	ANALYSIS REQUESTED
B009X2	WATER	BNA; VOA; PEST
B009Z9	WATER	BNA; VOA; PEST
B00B04	WATER	BNA; VOA; PEST
B00B27	WATER	BNA; VOA; PEST
B00CV7	WATER	BNA; VOA; PEST
B00CX7	WATER	BNA; VOA; PEST
B00CZ7	WATER	VOA
B00CZ8	WATER	VOA
B00CZ9	WATER	VOA
B00D06	WATER	BNA; VOA; PEST
B00D10	WATER	BNA; VOA; PEST
B00CV7MS	WATER	VOA; PEST
B00CV7MSD	WATER	VOA; PEST
B00CX7MS	WATER	BNA
B00CX7MSD	WATER	BNA

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 quantitation ion for 2-Butanone was changed from m/z 72 to m/z 43 in order to meet all QC requirements on the low level standards. This problem is caused by the poor purging efficiency of 2-butanone in water.

2. BNAs

NO PROBLEMS WITH THE BNAs ON THIS CASE

3. Pesticides

NO PROBLEMS WITH THE PESTICIDES ON THIS CASE

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 Catalano
Laboratory Manager

10/11/90
Date

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

Sincerely,

Dennis Catalano, Manager
Organic Laboratory
Weyerhaeuser Analytical & Testing Services

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CV7

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55556

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4601

Level: (low/med) LOW Date Received: 08/24/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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

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

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00CV7

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55556

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4601

Level: (low/med) LOW Date Received: 08/24/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CX7

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55558

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4604

Level: (low/med) LOW Date Received: 08/24/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	0.9	J
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00CX7

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55558

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4604

Level: (low/med) LOW Date Received: 08/24/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CZ7

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55560

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4605

Level: (low/med) LOW Date Received: 08/24/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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

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

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00CZ7

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55560

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4605

Level: (low/med) LOW Date Received: 08/24/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CZ8

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55752

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4606

Level: (low/med) LOW Date Received: 08/28/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	4	
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00CZ8

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55752

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4606

Level: (low/med) LOW Date Received: 08/28/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00D06

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55753

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4607

Level: (low/med) LOW Date Received: 08/28/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	13	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00D06

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55753

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4607

Level: (low/med) LOW Date Received: 08/28/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00D10

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55755

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4608

Level: (low/med) LOW Date Received: 08/28/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	2	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00D10

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55755

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4608

Level: (low/med) LOW Date Received: 08/28/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B009X2

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55806

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4609

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	0.8	J
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B009X2

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55806

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4609

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B009Z9

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55808

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4610

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B009Z9

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55808

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4610

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B04

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55810

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4611

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	1	
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00B04

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55810

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4611

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B27

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55812

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4612

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	1	
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00B27

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55812

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4612

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CZ9

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55814

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4613

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene chloride	4	
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	10	
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
108-05-4	Vinyl acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00CZ9

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 3580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55814

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A4613

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. ____ Date Analyzed: 08/30/90

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

B

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B009X2

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: S5806

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1003J

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. dec. Date Extracted: 08/31/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/04/90

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	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	10	U
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	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	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
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B009X2

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55806

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1003J

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. dec. Date Extracted: 08/31/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/04/90

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	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
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)	10	U
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	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-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

B

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B009X2

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55806

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1003J

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. dec. Date Extracted: 08/31/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/04/90

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

0165

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00929

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55808

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1003K

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. dec. Date Extracted: 08/31/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/04/90

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	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	10	U
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	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	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
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0097Z9

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55808

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1003K

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. dec. Date Extracted: 08/31/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/04/90

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	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
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)	10	U
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	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	28	B
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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00979

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55808

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1003K

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. dec. Date Extracted: 08/31/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/04/90

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

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	21.44	18	JX
2.	UNKNOWN	28.29	5.5	JX
3.	UNKNOWN	29.17	22	JX
4.	UNKNOWN	33.61	18	JX

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B04

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00C07

Matrix: (soil/water) WATER Lab Sample ID: 55810

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1003L

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. dec. Date Extracted: 08/31/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/04/90

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	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	10	U
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	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	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
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B04

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55810

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1003L

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. dec. Date Extracted: 08/31/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/04/90

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	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
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)	10	U
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	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00B04

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55810

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1003L

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. dec. Date Extracted: 08/31/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/04/90

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	7.17	9.6	JX

0193

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B27

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03590 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55812

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1003M

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. dec. Date Extracted: 08/31/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/04/90

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	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	10	U
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	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	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
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B27

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55813

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1003M

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. dec. Date Extracted: 08/31/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/04/90

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	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
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)	10	U
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	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00B27

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55812

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN100JM

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. dec. Date Extracted: 08/31/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/04/90

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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CV7

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55556

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1002M

Level: (low/med) LOW Date Received: 08/24/90

% Moisture: not dec. dec. Date Extracted: 08/27/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/03/90

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	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	10	U
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	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	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
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CV7

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55556

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1002M

Level: (low/med) LOW Date Received: 08/24/90

% Moisture: not dec. dec. Date Extracted: 08/27/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/03/90

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	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
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)	10	U
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	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00CV7

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55556

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1002M

Level: (low/med) LOW Date Received: 08/24/90

% Moisture: not dec. dec. Date Extracted: 08/27/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/03/90

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

0215

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CX7

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55558

Sample wt./vol: 1000 (g/mL) ML Lab File ID: BN1003G

Level: (low/med) LOW Date Received: 08/24/90

% Moisture: not dec. dec. Date Extracted: 08/27/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/03/90

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	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	10	U
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	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	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
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CX7

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 35558

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1003G

Level: (low/med) LOW Date Received: 08/24/90

% Moisture: not dec. dec. Date Extracted: 08/27/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/03/90

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	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
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)	10	U
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	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00CX7

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55558

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1003G

Level: (low/med) LOW Date Received: 08/24/90

% Moisture: not dec. dec. Date Extracted: 08/27/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/03/90

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	24.10	5.3	JX

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00D06

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55753

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1002K

Level: (low/med) LOW Date Received: 08/28/90

% Moisture: not dec. dec. Date Extracted: 08/29/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/03/90

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	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	10	U
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	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	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
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00D06

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55753

Sample wt./vol: 1000 (g/mL) ML Lab File ID: BN1002K

Level: (low/med) LOW Date Received: 08/28/90

% Moisture: not dec. dec. Date Extracted: 08/29/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/03/90

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	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
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)	10	U
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	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00D06

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55753

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1002K

Level: (low/med) LOW Date Received: 08/28/90

% Moisture: not dec. dec. Date Extracted: 08/29/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/03/90

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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1/87 Rev.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOD10

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: BOOCV7

Matrix: (soil/water) WATER Lab Sample ID: 55755

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1002L

Level: (low/med) LOW Date Received: 08/28/90

% Moisture: not dec. dec. Date Extracted: 08/29/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/03/90

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	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	10	U
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	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	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
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00D10

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55755

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1002L

Level: (low/med) LOW Date Received: 08/28/90

% Moisture: not dec. dec. Date Extracted: 08/29/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/03/90

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	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
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)	10	U
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	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-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

0240

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00D10

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55755

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1002L

Level: (low/med) LOW Date Received: 08/28/90

% Moisture: not dec. dec. Date Extracted: 08/29/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/03/90

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

0247

SAMPLE(S) ADDED 8/29/90

ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser Research and Development - Analysis and Testing

Request Number: 03580		
Title: WESTINGHOUSE 1100 EM1		
Number of Samples: 19	Project Number: 046-5751	Groups: 1,3,4,7,6
Date Received: 08/24/90	Date Desired: 09/21/90	Estimated Completion Date: 09/21/90
Submitted By: BECHTOLD, BECKY	Location: WTC 2F25	Telephone: (509) 373-3448
Reviewed By: DOXSEE, Kari	Location: 2F 25	Telephone: 924-6148
Copy To:		

Sample Description and History:

****ONLY PERFORM SO4 AND NO3 WATER LAB TESTS AFTER ANIONS TEST HAS BEEN COMPLETED****
SAMPLE MAY CONTAIN HAZARDOUS WASTE

Group	Series	Test Code	Test Description		
			Report Range	Report Basis	Lower Limit of Sensitivity
1	A	VOAWES-W	VOA by GC/MS on waters - Westinghouse		
1	B	BNAWES-W	BNA on Waters - Westinghouse		
1	B	P-PWES-W	Pesticides-PCBs on Waters - Westinghouse		
3	C	MET-WES	Metals - Westinghouse - Inorganic Group 3 CLP Deliverables		
3	D	MET-WES	Metals - Westinghouse - Inorganic Group 3 CLP Deliverables ***DISSOLVED***		
4	E	CN-WES	Cyanide - Westinghouse (CLP deliverables)		
4	F	ALK	Alkalinity		
4	F	AOX-W	AOX on waters (Absorbable Organic Halides)		
4	F	COD	COD		
4	F	COND-W	Conductivity of water		
4	F	NH3-W	Nitrogen, Ammonia in water		
4	F	NO3-W	Nitrate/Nitrite-Nitrogen in Water		
4	F	PH-W	pH of waters		
4	F	SL-TDS	Solids, Total Dissolved (TDS)		

Interim Report Desired?	Hazardous Samples? Yes		No		
Reference:					Record Book:
Results Approved:		Date:	Signature applies to attached pages		Page Number:

Printed on: 08/29/90 Page: 01

...TORY SERVICES REQUEST

...ment - Analysis and Testing

Request Number: 03580

		Code	Test Description		
			Report Range	Report Basis	Lower Limit of Sensitivity
4	F	SO4-W	Sulfate, Turbidimetric in water		
4	F	TURB	Turbidity		
7	G	NOCODE/7	See comments SO4/7, CL-DION, NO3-W, PO4=ANIONS		
7	G	TOC-LL/7	Total organic carbon - low level - ampule		

Sample Number	Series to Be Evaluated	Submitter's Designation
55556	ABCEFG	B00CV7 REC'D 8-24
55557	D	B00CV8 REC'D 8-24
55558	ABCEFG	B00CX7 REC'D 8-24
55559	D	B00CX8 REC'D 8-24
55560	A	B00CZ7 REC'D 8-24
55752	A	B00CZ8 REC'D 8-28
55753	ABCEFG	B00D06 REC'D 8-28
55754	D	B00D07 REC'D 8-28
55755	ABCEFG	B00D10 REC'D 8-28
55756	D	B00D11 REC'D 8-28
55806	ABCEFG	B009X2 REC'D 8-29
55807	D	B009Z5 REC'D 8-29
55808	ABCEFG	B009Z9 REC'D 8-29
55809	D	B00B00 REC'D 8-29
55810	ABCEFG	B00B04 REC'D 8-29
55811	D	B00B05 REC'D 8-29
55812	ABCEFG	B00B27 REC'D 8-29
55813	D	B00B28 REC'D 8-29
55814	A	B00CZ9 REC'D 8-29

0537

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B009X2

Lab Name: WEYERHAEUSER Contract: 68D90026

Lab Code: WEYER Case No.: 03580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55806

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 08/27/90

% Moisture: not dec. __ dec. __ Date Extracted: 08/31/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 09/27/90

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	0.10	U
319-85-7	beta-BHC	0.10	U
319-86-8	delta-BHC	0.10	U
58-89-9	gamma-BHC (Lindane)	0.10	U
76-44-8	Heptachlor	0.10	U
309-00-2	Aldrin	0.10	U
1024-57-3	Heptachlor epoxide	0.10	U
959-98-8	Endosulfan I	0.10	U
60-57-1	Dieldrin	0.20	U
72-55-9	4,4'-DDE	0.20	U
72-20-8	Endrin	0.20	U
33213-65-9	Endosulfan II	0.20	U
72-54-8	4,4'-DDD	0.20	U
1031-07-8	Endosulfan sulfate	0.20	U
50-29-3	4,4'-DDT	0.20	U
72-43-5	Methoxychlor	1.0	U
53494-70-5	Endrin ketone	0.20	U
5103-71-9	alpha-Chlordane	1.0	U
5103-74-2	gamma-Chlordane	1.0	U
8001-35-2	Toxaphene	2.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	2.0	U
11096-82-5	Aroclor-1260	2.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B009Z9

Lab Name: WEYERHAEUSER Contract: 68D90026

Lab Code: WEYER Case No.: 03580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55808

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 08/27/90

% Moisture: not dec. __ dec. __ Date Extracted: 08/31/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 09/27/90

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	0.10	U
319-85-7	beta-BHC	0.10	U
319-86-8	delta-BHC	0.10	U
58-89-9	gamma-BHC (Lindane)	0.10	U
76-44-8	Heptachlor	0.10	U
309-00-2	Aldrin	0.10	U
1024-57-3	Heptachlor epoxide	0.10	U
959-98-8	Endosulfan I	0.10	U
60-57-1	Dieldrin	0.20	U
72-55-9	4,4'-DDE	0.20	U
72-20-8	Endrin	0.20	U
33213-65-9	Endosulfan II	0.20	U
72-54-8	4,4'-DDD	0.20	U
1031-07-8	Endosulfan sulfate	0.20	U
50-29-3	4,4'-DDT	0.20	U
72-43-5	Methoxychlor	1.0	U
53494-70-5	Endrin ketone	0.20	U
5103-71-9	alpha-Chlordane	1.0	U
5103-74-2	gamma-Chlordane	1.0	U
8001-35-2	Toxaphene	2.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	2.0	U
11096-82-5	Aroclor-1260	2.0	U

C530

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B04

Lab Name: WEYERHAEUSER Contract: 68D90026

Lab Code: WEYER Case No.: 03580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55810

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 08/27/90

% Moisture: not dec. __ dec. __ Date Extracted: 08/31/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 09/27/90

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	0.10	U
319-85-7	beta-BHC	0.10	U
319-86-8	delta-BHC	0.10	U
58-89-9	gamma-BHC (Lindane)	0.10	U
76-44-8	Heptachlor	0.10	U
309-00-2	Aldrin	0.10	U
1024-57-3	Heptachlor epoxide	0.10	U
959-98-8	Endosulfan I	0.10	U
60-57-1	Dieldrin	0.20	U
72-55-9	4,4'-DDE	0.20	U
72-20-8	Endrin	0.20	U
33213-65-9	Endosulfan II	0.20	U
72-54-8	4,4'-DDD	0.20	U
1031-07-8	Endosulfan sulfate	0.20	U
50-29-3	4,4'-DDT	0.20	U
72-43-5	Methoxychlor	1.0	U
53494-70-5	Endrin ketone	0.20	U
5103-71-9	alpha-Chlordane	1.0	U
5103-74-2	gamma-Chlordane	1.0	U
8001-35-2	Toxaphene	2.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	2.0	U
11096-82-5	Aroclor-1260	2.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B27

Lab Name: WEYERHAEUSER Contract: 68D90026

Lab Code: WEYER Case No.: 03580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55812

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 08/27/90

% Moisture: not dec. __ dec. __ Date Extracted: 08/31/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 09/27/90

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	0.10	U
319-85-7	beta-BHC	0.10	U
319-86-8	delta-BHC	0.10	U
58-89-9	gamma-BHC (Lindane)	0.10	U
76-44-8	Heptachlor	0.10	U
309-00-2	Aldrin	0.10	U
1024-57-3	Heptachlor epoxide	0.10	U
959-98-8	Endosulfan I	0.10	U
60-57-1	Dieldrin	0.20	U
72-55-9	4,4'-DDE	0.20	U
72-20-8	Endrin	0.20	U
33213-65-9	Endosulfan II	0.20	U
72-54-8	4,4'-DDD	0.20	U
1031-07-8	Endosulfan sulfate	0.20	U
50-29-3	4,4'-DDT	0.20	U
72-43-5	Methoxychlor	1.0	U
53494-70-5	Endrin ketone	0.20	U
5103-71-9	alpha-Chlordane	1.0	U
5103-74-2	gamma-Chlordane	1.0	U
8001-35-2	Toxaphene	2.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	2.0	U
11096-82-5	Aroclor-1260	2.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CV7

Lab Name: WEYERHAEUSER Contract: 68D90026

Lab Code: WEYER Case No.: 03580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55556

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

Level: (low/med) LOW Date Received: 08/24/90

% Moisture: not dec. __ dec. __ Date Extracted: 08/27/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 09/27/90

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	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CX7

Lab Name: WEYERHAEUSER Contract: 68D90026

Lab Code: WEYER Case No.: 03580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55558

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

Level: (low/med) LOW Date Received: 08/24/90

% Moisture: not dec. __ dec. __ Date Extracted: 08/27/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 09/27/90

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	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00D06

Lab Name: WEYERHAEUSER Contract: 68D90026

Lab Code: WEYER Case No.: 03580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55753

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

Level: (low/med) LOW Date Received: 08/27/90

% Moisture: not dec. __ dec. __ Date Extracted: 08/29/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 09/27/90

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	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00D10

Lab Name: WEYERHAEUSER Contract: 68D90026

Lab Code: WEYER Case No.: 03580 SAS No.: _____ SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55755

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

Level: (low/med) LOW Date Received: 08/27/90

% Moisture: not dec. __ dec. __ Date Extracted: 08/29/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 09/27/90

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	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

CASE NARRATIVE

WEYERHAEUSER (WEYER)
ANALYTICAL AND TESTING SERVICES

OCT 1990
RECEIVED
J.H. KESSNER

Case Number: 03580
SDG Number: B00CV7
Contract Number: 68-D9-0080

Samples from this case (03580) were received on 08/24/90 through 08/29/90. This case was comprised of and water samples for metals and cyanide analysis. The requested analyses were as follows:

Sample ID	Matrix	Analysis Requested
B00CV7	WATER	TOTAL METALS & CYANIDE
B00CV7D	WATER	TOTAL METALS & CYANIDE
B00CV7S	WATER	TOTAL METALS & CYANIDE
B00CV8	WATER	DISSOLVED METALS
B00CV8D	WATER	DISSOLVED METALS
B00CV8S	WATER	DISSOLVED METALS
B00CX7	WATER	TOTAL METALS & CYANIDE
B00CX8	WATER	DISSOLVED METALS
B00CZ7	WATER	TOTAL METALS & CYANIDE
B00CZ8	WATER	DISSOLVED METALS
B00D06	WATER	TOTAL METALS & CYANIDE
B00D07	WATER	DISSOLVED METALS
B00D10	WATER	TOTAL METALS & CYANIDE
B00D11	WATER	DISSOLVED METALS
B009X2	WATER	TOTAL METALS & CYANIDE
B009Z5	WATER	DISSOLVED METALS
B009Z9	WATER	TOTAL METALS & CYANIDE
B00B00	WATER	DISSOLVED METALS
B00B04	WATER	TOTAL METALS & CYANIDE
B00B05	WATER	DISSOLVED METALS
B00B27	WATER	TOTAL METALS & CYANIDE
B00B27D	WATER	DISSOLVED METALS
B00B27S	WATER	TOTAL METALS & CYANIDE
B00B28	WATER	DISSOLVED METALS
B00BCZ9	WATER	TOTAL METALS & CYANIDE

Several anomalies existed with this sample set that are listed below.

1. The spike recovery was outside the control limit on the dissolved sample for mercury and is flagged with an "N". The mercury was inadvertently spiked at twice the required CLP level in both the total and dissolved samples.

2. The furnace analytical spike for several of the samples analyzed for arsenic, lead, selenium and thallium was outside the control limit; however, the sample absorbances were less than 50 percent of the spike and consequently MSAs were not performed. These samples are flagged with a "W".

3. The duplicate analysis on the total sample was outside the control limit for aluminum and chromium. These elements are flagged with a "*".

4. MSA was performed for for selenium on samples B00CV8 and B00CX8. Both samples had correlation coefficients greater than 0.995 and are flagged with an "S".

5. The ICP serial dilution for the total sample was outside the control limit for barium and it is flagged with an "E".

6. The time increment between the last sample and the last CCV in the mercury run does not meet specifications but in no way effects the quality of the data. The last sample had a high concentration of mercury and it was essential to wait for the instrument to return to baseline before reading the CCV.

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.

_____ _____

Kari H. Doxsee, Manager Date
Analytical Chemistry Laboratories

Please feel free to contract me with any questions concerning this data report. I can be reached at (206) 924-6148.

Sincerely,

Kari H. Doxsee
Analytical Chemistry Laboratories
Weyerhaeuser Analytical & Testing Services

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

SOW No.: 7/88

EPA Sample No.	Lab Sample ID.
B009X2	55806
B009Z5	55807
B009Z9	55808
B00B00	55809
B00B04	55810
B00B05	55811
B00B27	55812
B00B27D	55812D
B00B27S	55812S
B00B28	55813
B00CV7	55556
B00CV7D	55556D
B00CV7S	55556S
B00CV8	55557
B00CV8D	55557D
B00CV8S	55557S
B00CX7	55558
B00CX8	55559
B00D06	55753
B00D07	55754

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes, were raw data generated before application of background corrections? Yes/No NO

Comments:

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 the Manager's designee, as verified by the following signature.

Signature: Kari Doxsee Name: Kari Doxsee

Date: October 19, 1990 Title: Manager

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

SOW No.: 7/88

EPA Sample No.	Lab Sample ID.
B00D10	55755
B00D11	55756

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes, were raw data generated before application of background corrections? Yes/No NO

Comments:

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 the Manager's designee, as verified by the following signature.

Signature: Kari Doxsee Name: Kari Doxsee

Date: October 19, 1990 Title: Manager

U.S. EPA - CLP

1A

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B009X2

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55806

Level (low/med): LOW Date Received: 08/29/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	134	B	*	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	8.4	B		F
7440-39-3	Barium	47.5	B	E	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	53100			P
7440-47-3	Chromium	6.1	B	*	P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	13300			P
7439-96-5	Manganese	5.8	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	4930	B		P
7782-49-2	Selenium	3.2	B	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	19600			P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	9.8	B		P
7440-66-6	Zinc	3.0	U		P
	Cyanide	10.0	U		AC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1B

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B009Z5

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55807

Level (low/med): LOW Date Received: 08/29/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	90.1	B		P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	7.7	B		F
7440-39-3	Barium	48.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	53700			P
7440-47-3	Chromium	5.4	B		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	12900			P
7439-96-5	Manganese	2.8	B		P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	5010			P
7782-49-2	Selenium	3.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	20400			P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	9.9	B		P
7440-66-6	Zinc	3.0	U		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
DISSOLVED

U.S. EPA - CLP

1C

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B009Z9

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55808

Level (low/med): LOW Date Received: 08/29/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	88.0	B	*	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	2.6	B		F
7440-39-3	Barium	62.7	B	E	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	18800			P
7440-47-3	Chromium	5.0	U	*	P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	4510	B		P
7439-96-5	Manganese	156			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	3690	B		P
7782-49-2	Selenium	3.3	B	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	22100			P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
	Cyanide	10.0	U		AC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1 D

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B00

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55809

Level (low/med): LOW Date Received: 08/29/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	111	B		P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	2.2	B		F
7440-39-3	Barium	63.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	19300			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.5			F
7439-95-4	Magnesium	4700	B		P
7439-96-5	Manganese	147			P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	4170	B		P
7782-49-2	Selenium	3.0	U	W	F
7440-22-4	Silver	5.1	B		P
7440-23-5	Sodium	21200			P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
DISSOLVED

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1 E

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B04

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55810

Level (low/med): LOW Date Received: 08/29/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	883		*	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	3.4	B		F
7440-39-3	Barium	95.7	B	E	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	91600			P
7440-47-3	Chromium	7.0	B	*	P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	1630			P
7439-92-1	Lead	8.3			F
7439-95-4	Magnesium	19900			P
7439-96-5	Manganese	45.0			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	8220			P
7782-49-2	Selenium	5.2			F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	30100			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	4.2	B		P
7440-66-6	Zinc	3.2	B		P
	Cyanide	10.0	U		AC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B05

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55811

Level (low/med): LOW Date Received: 08/29/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	102	B		P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	2.6	B		F
7440-39-3	Barium	90.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	93400			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	19800			P
7439-96-5	Manganese	5.2	B		P
7439-97-6	Mercury	0.20		N	CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	8200			P
7782-49-2	Selenium	4.7	B		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	31000			P
7440-28-0	Thallium	5.0	U	W	F
7440-62-2	Vanadium	2.4	B		P
7440-66-6	Zinc	3.0	U		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
DISSOLVED

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B27

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55812

Level (low/med): LOW Date Received: 08/29/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	869		*	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	107	B	E	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	96500			P
7440-47-3	Chromium	15.3		*	P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	7.0	B		P
7439-89-6	Iron	1390			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	22400			P
7439-96-5	Manganese	217			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	9670			P
7782-49-2	Selenium	3.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	34000			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	4.3	B		P
	Cyanide	10.0	U		AC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B28

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55813

Level (low/med): LOW Date Received: 08/29/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	111	B		P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	90.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	96900			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	22000			P
7439-96-5	Manganese	167			P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	9320			P
7782-49-2	Selenium	3.0	B	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	32400			P
7440-28-0	Thallium	5.0	U	E	F
7440-62-2	Vanadium	3.4	B		P
7440-66-6	Zinc	3.0	U		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CV7

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55556

Level (low/med): LOW Date Received: 08/24/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	91.6	B	*	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	6.4	B	W	F
7440-39-3	Barium	44.9	B	E	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	47100			P
7440-47-3	Chromium	6.8	B	*	P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	101			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	9860			P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	5150			P
7782-49-2	Selenium	3.4	B		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	22200			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	6.7	B		P
7440-66-6	Zinc	9.6	B		P
	Cyanide	10.0	U		AC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CV8

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55557

Level (low/med): LOW Date Received: 08/24/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	97.1	B		P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	5.7	B		F
7440-39-3	Barium	44.9	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	48000			P
7440-47-3	Chromium	5.6	B		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	77.8	B		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	9980			P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	5450			P
7782-49-2	Selenium	3.0	U	S	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	23200			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	6.7	B		P
7440-66-6	Zinc	9.9	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CX7

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55558

Level (low/med): LOW Date Received: 08/24/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	85.1	B	*	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	4.4	B		F
7440-39-3	Barium	50.8	B	E	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	57000			P
7440-47-3	Chromium	8.4	B	*	P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	229			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	11300			P
7439-96-5	Manganese	2.3	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	5740			P
7782-49-2	Selenium	3.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	23700			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	6.0	B		P
7440-66-6	Zinc	3.0	U		P
	Cyanide	10.0	U		AC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CX8

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55559

Level (low/med): LOW Date Received: 08/24/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	88.6	B		P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	5.0	B		F
7440-39-3	Barium	50.8	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	56200			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	11500			P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	6040			P
7782-49-2	Selenium	3.0	U	S	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	23100			P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	6.6	B		P
7440-66-6	Zinc	3.0	U		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00D06

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55753

Level (low/med): LOW Date Received: 08/28/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	108	B	*	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	13.2	B	E	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	6.6			P
7440-70-2	Calcium	23000			P
7440-47-3	Chromium	5.8	B	*	P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	23.3	B		P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	4470	B		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	1330	B		P
7782-49-2	Selenium	3.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	2930	B		P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	6.9	B		P
	Cyanide	10.0	U		AC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00D07

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55754

Level (low/med): LOW Date Received: 08/28/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	99.6	B		P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	3.3	B		F
7440-39-3	Barium	15.8	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	22900			P
7440-47-3	Chromium	7.9	B		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	71.9			P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	4350	B		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	1330	B		P
7782-49-2	Selenium	3.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	3020	B		P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	21.6			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00D10

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55755

Level (low/med): LOW Date Received: 08/28/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	97.5	B	*	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	10.5	B	E	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	20800			P
7440-47-3	Chromium	5.0	U	*	P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	58.2			P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	4270	B		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	716	B		P
7782-49-2	Selenium	3.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	2870	B		P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	6.1	B		P
	Cyanide	10.0	U		AC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00D11

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55756

Level (low/med): LOW Date Received: 08/28/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	118	B		P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	2.1	B		F
7440-39-3	Barium	13.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	21100			P
7440-47-3	Chromium	5.6	B		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	26.2			P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	4510	B		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	1030	B		P
7782-49-2	Selenium	3.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	2920	B		P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	5.1	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
DISSOLVED

SAMPLE(S) ADDED 8/29/90

ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser Research and Development – Analysis and Testing

Request Number: 03580

Title: WESTINGHOUSE 1100 EM1

Number of Samples: 19	Project Number: 046-5751	Groups: 1,3,4,7,6
Date Received: 08/24/90	Date Desired: 09/21/90	Estimated Completion Date: 09/21/90

Submitted By: BECHTOLD, BECKY	Location: WTC 2F25	Telephone: (509) 373-3448
Reviewed By: DOXSEE, Kari	Location: 2F 25	Telephone: 924-6148
Copy To:		

Sample Description and History:

****ONLY PERFORM SO4 AND NO3 WATER LAB TESTS AFTER ANIONS TEST HAS BEEN COMPLETED****
SAMPLE MAY CONTAIN HAZARDOUS WASTE

Group	Series	Test Code	Test Description		
			Report Range	Report Basis	Lower Limit of Sensitivity
1	A	VOAWES-W	VOA by GC/MS on waters - Westinghouse		
1	B	BNAWES-W	BNA on Waters - Westinghouse		
1	B	P-PWES-W	Pesticides-PCBs on Waters - Westinghouse		
3	C	MET-WES	Metals - Westinghouse - Inorganic Group 3 CLP Deliverables		
3	D	MET-WES	Metals - Westinghouse - Inorganic Group 3 CLP Deliverables ***DISSOLVED***		
4	E	CN-WES	Cyanide - Westinghouse (CLP deliverables)		
4	F	ALK	Alkalinity		
4	F	AOX-W	AOX on waters (Absorbable Organic Halides)		
4	F	COD	COD		
4	F	COND-W	Conductivity of water		
4	F	NH3-W	Nitrogen, Ammonia in water		
4	F	NO3-W	Nitrate/Nitrite-Nitrogen in Water		
4	F	PH-W	pH of waters		
4	F	SL-TDS	Solids, Total Dissolved (TDS)		

Interim Report Desired?	Hazardous Samples? Yes		No	

Reference:			Record Book:
Results Approved:	Date:	Signature applies to attached pages	Page Number:

Printed on: 08/29/90

0082

Weyerhaeuser

ANALYTICAL LABORATORY SERVICES REQUEST

Research and Development – Analysis and Testing

Request Number: 03580

Group	Series	Test Code	Test Description	Report Range	Report Basis	Lower Limit of Sensitivity
4	F	SO4-W	Sulfate, Turbidimetric in water			
4	F	TURB	Turbidity			
7	G	NOCODE/7	See comments SO4/7, CL-DION, NO3-W, PO4=ANIONS			
7	G	TOC-LL/7	Total organic carbon - low level - ampule			

Sample Number	Series to Be Evaluated	Submitter's Designation
55556	ABCEFG	B00CV7X REC'D 8-24
55557	D	B00CV8X REC'D 8-24
55558	ABCEFG	B00CX7 REC'D 8-24
55559	D	B00CX8 REC'D 8-24
55560	A	B00CZ7 REC'D 8-24
55752	A	B00CZ8 REC'D 8-28
55753	ABCEFG	B00D06 REC'D 8-28
55754	D	B00D07 REC'D 8-28
55755	ABCEFG	B00D10 REC'D 8-28
55756	D	B00D11 REC'D 8-28
55806	ABCEFG	B009X2 REC'D 8-29
55807	D	B009Z5 REC'D 8-29
55808	ABCEFG	B009Z9 REC'D 8-29
55809	D	B00B00 REC'D 8-29
55810	ABCEFG	B00B04 REC'D 8-29
55811	D	B00B05 REC'D 8-29
55812	ABCEFG	B00B27Y REC'D 8-29
55813	D	B00B28 REC'D 8-29
55814	A	B00CZ9 REC'D 8-29

RECEIPT OF WESTINGHOUSE SAMPLES
JEANETTE DUNCAN - (509) 373-4718

	DATE	TIME
WEYCO SHIPPING/RECEIVING	8.24.90	1100
WEYCO SAMPLE MANAGEMENT	8.24.90	1110

OPENING OF COOLER: 1115

TEMPERATURE: 3.4

SAMPLES RECEIVED: BOOCX7
CX8
CZ7
CV7
CV8

COMMENTS:
pH met <2
pH CN >12
Sulfide —

CONFIRMATION:

CALLED WESTINGHOUSE: ____

MAILED TALLY RECORD: ____

MAILED PAPER WORK: ____

ALL PAGES SIGNED: ____

008

RECEIPT OF WESTINGHOUSE SAMPLES
JEANETTE DUNCAN - (509) 373-4718

	DATE	TIME
WEYCO SHIPPING/RECEIVING	8.28.90	1000
WEYCO SAMPLE MANAGEMENT	8.28.90	1200 noon

OPENING OF COOLER:	1:15			
TEMPERATURE:	5.2			
SAMPLES RECEIVED:	B00D06			
	C28			
	D07			
	D10			
	D11			

COMMENTS:

pH met <2
pH CN >12
sulfide —

CONFIRMATION:

CALLED WESTINGHOUSE: _____

MAILED TALLY RECORD: _____

MAILED PAPER WORK: _____

ALL PAGES SIGNED: _____

RECEIPT OF WESTINGHOUSE SAMPLES
JEANETTE DUNCAN - (509) 373-4718

		DATE		TIME
WEYCO SHIPPING/RECEIVING		8·29·90		1200
WEYCO SAMPLE MANAGEMENT		8·29-90		1210
OPENING OF COOLER:	8·29.90	8·29.90		1215
TEMPERATURE:	7.5	7.8		
SAMPLES RECEIVED:	B009X2	B00B05		
	929	CZ9		
	925	B28		
	B00	B27		
		B04		

COMMENTS:

pH met <2
pH CN >12
sulfide —

CONFIRMATION:

CALLED WESTINGHOUSE: ____

MAILED TALLY RECORD: ____

MAILED PAPER WORK: ____

ALL PAGES SIGNED: ____

Westinhouse Hanford Company

CH)F CUSTODY

Company Contact B H. FORD Telephone 509-376-6465

:ple Collected by B. H. FORD Date 8/22/90 Time 12:45

ample Locations 1100-EM-1

ce Chest No. Field Logbook and Page No. WHC-N-370

Remarks NONE

Bill of Lading No. 238 369 059 5 Offsite Property No. W90-0-0006 #95

Method of Shipment ~~AIRBORNE~~ 8/22/90 EMERY

Shipped to WEYERHAEUSER

Sample Identification

BØØCX7

(3) 40 ml, amber, water, CLP-VOA

(1) 4l amber, water, CLP-VOA

(1) 1l, plastic, water CLP-CN⁻, 2ml NaOH

(1) 1l plastic, water CLP-METAL, 2 ml HNO_3, unfiltered

(1) 250ml, amber, water, TOX, .5ml H_2SO_4

(1) 250ml, amber, water, TOC, .5ml H_2SO_4

(1) 1l, plastic, water, Ammon/COD/NO_3/NO_2, 2ml H_2SO_4

(1) 1l, plastic, water Anions/TDS/pH/Cond/Alk/Turb/SO_4

BØØCZ7

(3) 40ml, amber, water, CLP-VOA

BØØCX8

(1) 1l, plastic, CLP-Metal, 2ml HNO_3, filtered

Chain of Possession

Relinquised by:	Received by:	Date/Time:
BH Ford	J. DEMAREST	8/23/90 10:45A
J. DEMAREST	P. CHAPMAN	8/24/90 11:10A

A-6000-107 (02/89)

Westinhouse Hanford Company

CHA F CUSTODY

:ompany Contact B H. FORD Telephone 509-376-6465

ıple Collected by BH Ford Date 8/22/90 Time 1:40

ample Locations 1100-EM-1

:e Chest No. IGLOO #24 Field Logbook and Page No. WHC-N-370

emarks NONE

ill of Lading No. 238369059 5 Offsite Property No. WA90-0-0006 #95

Method of Shipment ~~AIRBORNE~~ BH 8/23/90 EMERY

hipped to WEYER HAEUSER

Sample Identification

B00CV7

(3) 40 ml, amber, water, CLP-VOA

(1) 4l amber, water, CLP-VOA

(1) 1l plastic, water, CLP-CN⁻, 2ml NaOH

(1) 1l plastic, water, CLP-Metal, 2 ml HNO_3, unfiltered

(1) 250 ml, amber, water, TOX, .5 ml H_2SO_4

(1) 250 ml, amber, water, TOC, .5 ml H_2SO_4

(1) 1l, plastic, water, Ammon/COD/NO_3/NO_2, 2ml H_2SO_4

(1) 1l, plastic, water, Anions/TDS/pH/Cond/Alk/Turb/SO_4

~~B00~~

~~(3) 40 ml, amber, water, CLP-VOA - BH 8/23/90~~

B00CV8

(1) 1l, plastic, CLP-Metal, 2ml HNO_3, filtered

Chain of Possession

Relinquised by:	Received by:	Date/Time:
BH Ford BH Ford	J. Demarest J. Demarest	8/23/90 10:45 A
Relinquised by: J. DEMAREST J. Demarest	Received by: P. CHAPMAN P. Chapman	Date/Time: 8/24/90 11:10 A
Relinquised by:	Received by:	Date/Time:
Relinquised by:	Received by:	Date/Time:

A-6000-407 (07/89)

Westinhouse Hanford Company

CHAIN F CUSTODY

Company Contact: B H. Ford Telephone: 509-376-6465

Sample Collected by: R.L. Schroeder Date: 8-26-90 Time: 3:00 p.m.

Sample Locations: 1100-EM-1

Ice Chest No.: 19 A Field Logbook and Page No.: WHC-N-370

Remarks: NONE

Bill of Lading No.: 238 369 060 6 Offsite Property No.: W90-0-0006 #96

Method of Shipment: EMERY

Shipped to: WEYERHAEUSER

Sample Identification

B00D06
(3) 40 ml, amber, water, CLP-VOA
(1) 4l amber, water, CLP-VOA
(1) 1l plastic, water, CLP-CN⁻, 2ml NaOH
(1) 1l plastic, water, CLP-Metal, 2ml HNO_3, unfiltered
(1) 250ml amber, water, TOX, .5ml H_2SO_4
(1) 250ml amber, water, TOC, .5ml H_2SO_4
(1) 1l, plastic, water, Ammonia/COD/NO_3/NO_2, 2ml H_2SO_4
(1) 1l, plastic, water, Anions/TDS/pH/Cond/Alk/Turb/SO_4

B00CZ8
(3) 40ml amber, water, CLP-VOA

B00D07
(1) 1l, plastic, CLP-Metal, 2ml HNO_3, filtered

Chain of Possession

Relinquished by:	Received by:	Date/Time:
[signature]	Paula J Buggs	8/27/90 11 AM
Paula J Buggs	[signature]	8/27/90 11:35A
[signature]	B Wappel	8.28.90 1200 noon
Relinquished by:	Received by:	Date/Time:

A-6000-407 (07/89)

Westinhouse Hanford Company	CHAIN OF CUSTODY

Company Contact: B H. FORD — Telephone: 509-376-6445

Sample Collected by: Rob Schroeder — Date: 8-26-90 — Time: 3:00 p.m.

Sample Locations: 1100-EM-1

Ice Chest No.: 19A — Field Logbook and Page No.: WHC-N-370

Remarks: NONE

Bill of Lading No.: 238 369 060 6 — Offsite Property No.: W90-0~~0~~-0006 #96 MB 8/20/90

Method of Shipment: EMERY

Shipped to: WEYERHAEUSER

Sample Identification

B00D1~~0~~
(3) 40 ml, amber, water, CLP-VOA
(1) 4l amber, water, CLP-VOA
(1) 1l plastic, water CLP-CN⁻, 2ml NaOH
(1) 1l plastic, water CLP-METAL, 2 ml HNO_3, unfiltered
(1) 250ml, amber, water, TOX, .5 ml H_2SO_4
(1) 250ml, amber, water, TOC, .5 ml H_2SO_4
(1) 1l, plastic, water, Ammon/COD/NO_3/NO_2, 2ml H_2SO_4
(1) 1l, plastic, water Anions/TDS/pH/Cond/Alk/Turb/SO_4

~~B00 8-26-90~~
~~(3) 40 ml, amber, water, CLP-VOA~~

B00D11
(1) 1l, plastic, CLP-Metal, 2ml HNO_3, filtered

Chain of Possession

Relinquished by:	Received by:	Date/Time:
[signature]	Paula J Buggs	8/27/90 11AM
Paula J Buggs	[signature]	8/27/90 11:35A
[signature]	[signature]	8 28 90 1200 noon
Relinquished by:	Received by:	Date/Time:

A-6000-407 (07/89)

Westinhouse Hanford Company	CHAIN OF CUSTODY

Company Contact: B H. Ford — Telephone: 509-376-6465

Sample Collected by: R. Schroder — Date: 8-27-90 — Time: 10:00 a.m.

Sample Locations: 1100-EM-1

Ice Chest No.: #17 — Field Logbook and Page No.: WHC-N-370

Remarks: NONE

Bill of Lading No.: 238 369047 4 — Offsite Property No.: W90-0-0006 #97

Method of Shipment: EMERY

Shipped to: WEYER HAEUSER

Sample Identification

B00979
(3) 40 ml, amber, water, CLP-VOA
(1) 4l amber, water, CLP-VOA
(1) 1l, plastic, water, CLP-CN⁻, 2ml NaOH
(1) 1l, plastic, water, CLP-Metal, 2 ml HNO_3, unfiltered
(1) 250 ml, amber, water, TOX, .5 ml H_2SO_4
(1) 250 ml, amber, water, TOC, .5 ml H_2SO_4
(1) 1l, plastic, water, Ammon/COD/NO_3/NO_2, 2ml H_2SO_4
(1) 1l, plastic, water Anions/TDS/pH/Cond/Alk/Turb/SO_4

~~B00~~ ~~RS~~ 8-27-90
(3) 40 ml, amber, water, ~~CLP VOA~~

B00B00
(1) 1l, plastic, CLP-Metal, 2ml HNO_3, filtered

Chain of Possession

Relinquised by:	Received by:	Date/Time:
Richard A. Schroder	Paula J. Buggs	8/28/90 9:27AM
Paula J. Buggs	J. Demarest	8/28/90 11.40 A
J. Demarest	D. Chappel	8.29.90 1210
Relinquised by:	Received by:	Date/Time:

0091

A-6000-407 (07/89)

Westinhouse Hanford Company	CHAI.)F CUSTODY

Company Contact B. H. FORD Telephone 509-376-6465

ıple Collected by R.H. Schroder Date 8-27-90 Time 1100

Sample Locations 1100-EM-1

ce Chest No. #17 Field Logbook and Page No. WHC-N-370

Remarks NONE

Bill of Lading No. 238369047 4 Offsite Property No. W90-0-0006 #97

Method of Shipment EMERY

Shipped to WEYERHAEUSER

Sample Identification

B00 9X2
(3) 40 ml, amber, water, CLP-VOA
(1) 4l amber, water, CLP-VOA
(1) 1l, plastic, water, CLP-CN⁻, 2ml NaOH
(1) 1l, plastic, water, CLP-Metal, 2ml HNO_3, unfiltered
(1) 250ml, amber, water, TOX, .5ml H_2SO_4
(1) 250ml, amber, water, TOC, .5ml H_2SO_4
(1) 1l, plastic, water, Ammon/COD/NO_3/NO_2, 2ml H_2SO_4
(1) 1l, plastic, water, Anions/TDS/pH/Cond/Alk/Turb/SO_4

~~B00~~ ~~BB~~ 8-27-90
(3) 40 ml, amber, ~~water~~, CLP-VOA
~~BB~~ 8-27-90
B00 ~~9X3~~ 975
(1) 1l, plastic, CLP-Metal, 2ml HNO_3, filtered

Chain of Possession

Relinquished by:	Received by:	Date/Time:
Richard H. Schroder	Paula J. Briggs	8/28/90 9:27 AM
Paula J. Briggs	J. Demaurst	8/22/90 11:40A
J. Demaurst	B. Chappel	8-29-90 1210
Relinquished by:	Received by:	Date/Time: 0092

A-6000-407 (07/89)

Westinhouse Hanford Company

CHAIN OF CUSTODY

Company Contact: B H. Ford Telephone: 509-376-6445

Sample Collected by: B.A. Schroder Date: 8-27-90 Time: 1230

Sample Locations: 1100-EM-1

Ice Chest No.: 44 Field Logbook and Page No.: WHC-N-370

Remarks: NONE

Bill of Lading No.: 238 369 047 4 Offsite Property No.: W90-0-00006 #97

Method of Shipment: EMERY

Shipped to: WEYERHAEUSER

Sample Identification

B00B04

(3) 40 ml, amber, water, CLP-VOA

(1) 4l amber, water, CLP-VOA

(1) 1l, plastic, water CLP-CN^-, 2ml NaOH

(1) 1l, plastic, water CLP-Metal, 2 ml HNO_3, unfiltered

(1) 250ml, amber, water, TOX, .5 ml H_2SO_4

(1) 250ml, amber, water, TOC, .5 ml H_2SO_4

(1) 1l, plastic, water, Ammon/COD/NO_3/NO_2, 2ml H_2SO_4

(1) 1l, plastic, water Anions/TDS/pH/Cond/Alk/Turb/SO_4

~~B00 8-27-90~~

~~(3) 40 ml, amber, water, CLP VOA~~

B00B05

(1) 1l, plastic, CLP-Metal, 2ml HNO_3, filtered

Chain of Possession

Relinquished by:	Received by:	Date/Time:
Richard A. Schroder	Paula J Buggs	8/28/90 9:25 AM
Paula J Buggs	J Demarest	8/28/90 11:40A
J Demarest	B. Chappel	8.29.90 1210

A-6100-302 (07/89)

Westinhouse Hanford Company	CHAI. JF CUSTODY

:ompany Contact B H. FORD Telephone 509-376-6465

:ple Collected by R.W. Schroeder Date 8-27-90 Time ~~1030~~ 1430

ample Locations 1100-EM-1

:e Chest No. 44 Field Logbook and Page No. WHC-N-370

emarks NONE

ill of Lading No. 2383690474 Offsite Property No. W90-0-CCC6 #97

Method of Shipment EMERY

hipped to WEYER HAEUSER

Sample Identification

B0B27

(3) 40 ml, amber, water, CLP-VOA

(1) 4l amber, water, CLP-VOA

(1) 1l, plastic, water CLP-CN^-, 2ml NaOH

(1) 1l, plastic, water CLP-METAL, 2 ml HNO_3, unfiltered

(1) 250ml, amber, water, TOX, .5 ml H_2SO_4

(1) 250ml, amber, water, TOC, .5 ml H_2SO_4

(1) 1l, plastic, water, Ammon/COD/NO_3/NO_2, 2ml H_2SO_4

(1) 1l, plastic, water Anions/TDS/pH/Cond/Alk/Turb/SO_4

B0BC79

(3) 40 ml, amber, water, CLP-VOA

B0B28

(1) 1l, plastic, CLP-Metal, 2ml HNO_3, filtered

Chain of Possession

Relinquised by:	Received by:	Date/Time:
Richard W. Schroeder	Paula J. Briggs	8/28/90 9:24 AM
Paula J. Briggs	J. Demarest	8/28/90 11:40 A
J. Demarest	B. Chappel	8.29.90 1210

A-6000-407 (07/89)

CLP

SDG#	B00CV7
SAS#	
CASE #	

Weyerhaeuser Company

Analytical Laboratories
Tacoma, Washington

Form 1

Request #
3580

	Samp. No. (Westinghouse ~~EPA~~)	Matrix	Level	% Solids	Date Rec'd	Color Before	Color After	Clarity Before	Clarity After	Texture
1	B00CV7	W	L		8/24/90	colorless	colorless	clear	clear	
D 2	B00CV8									
3	B00CX7									
D 4	B00CX8									
ORG 5	~~B00CZ7~~									
ORG 6	~~CZ8~~				8/28/90					
7	D06									
D 8	D07									
9	D10									
D 10	D11									
11	9X2				8/29/90					
D 12	9Z5									
13	9Z9									
D 14	B00									
15	B04									
D 16	B05									
17	B27									
D 18	B28									
19										
20										

Notes/Comments: (Include sample# and artifacts present.)

MATRIX	Water (W), Soil (S)
LEVEL	Low (L), Medium (M)
COLOR	Red, blue, yellow, green, orange, violet, white, colorless, brown, grey, black
CLARITY	Clear, cloudy, opaque
TEXTURE	Fine (powdery), medium (sand), coarse (large crystals or rocks)
ARTIFACTS	Any man-made materials present

6.95

WEYERHAEUSER TECHNOLOGY CENTER
Analytical Laboratories
Tacoma, Washington

OCT 1990
RECEIVED
S.M. JOYCE

REPORT

Westinghouse Water Samples

Sample Description	Analytical Lab Code	pH	Turbidity NTU	Specific Conductance µs/Cm	TDS mg/L	Alkalinity mg/L $CaCO_3$	COD mg/L
B00CV7	55556	7.7; 7.7	0.71; 0.78	430; 430	280; 280	146	<5; <5
B00CX7	55558	7.8	1.8	500	330	148	<5
B00D06	55753	7.7; 7.7	0.23; 0.24	180	100; 100	71; 72	<5
B00D10	55755	7.8	0.39	160	90	67	<5
B009X2	55806	8.1; 8.1	21; 21	470	300	159	<5
B00929	55808	8.1	0.62	250	180	92	<5
B00B04	55810	7.7	7.1	790	590	154	<5
B00B27	55812	7.7	8.7	820	590	147	5

Notebook_____

Approved Maxine Rosta Date 10-1-90 Page Number_____

WEYERHAEUSER TECHNOLOGY CENTER
Analytical Laboratories
Tacoma, Washington

REPORT

Westinghouse Water Samples

Sample Description	Analytical Lab Code	NH_3-N mg/L	AOX mg/L	CN mg/L
B00CV7	55556	<0.02	0.012; 0.014	<0.01; <0.01
B00CX7	55558	<0.02	0.079	<0.01
B00D06	55753	<0.02	0.036	<0.01
B00D10	55755	<0.02	0.008	<0.01
B009X2	55806	<0.02	0.024	<0.01
B00929	55808	0.06; 0.06	0.025	<0.01
B00B04	55810	0.03	0.021	<0.01
B00B27	55812	0.65	0.021; 0.022	<0.01

Notebook_____

Approved Maxine Rast Date 10-1-90 Page Number_____

SAMPLE(S) ADDED 8/29/90

ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser Research and Development - Analysis and Testing

Request Number: 03580

00108

Title: WESTINGHOUSE 1100 EMI		
Number of Samples: 19	Project Number: 046-5751	Groups: 1,3,4,7,6
Date Received: 08/24/90	Date Desired: 09/21/90	Estimated Completion Date: 09/21/90
Submitted By: BECHTOLD, BECKY	Location: WTC 2F25	Telephone: (509) 373-3448
Reviewed By: DOXSEE, Kari	Location: 2F 25	Telephone: 924-6148
Copy To:		

Sample Description and History:

****ONLY PERFORM SO4 AND NO3 WATER LAB TESTS AFTER ANIONS TEST HAS BEEN COMPLETED****
SAMPLE MAY CONTAIN HAZARDOUS WASTE

Group	Series	Test Code	Test Description		
			Report Range	Report Basis	Lower Limit of Sensitivity
1	A	VOAWES-W	VOA by GC/MS on waters - Westinghouse		
1	B	BNAWES-W	BNA on Waters - Westinghouse		
1	B	P-PWES-W	Pesticides-PCBs on Waters - Westinghouse		
3	C	MET-WES	Metals - Westinghouse - Inorganic Group 3 CLP Deliverables		
3	D	MET-WES	Metals - Westinghouse - Inorganic Group 3 CLP Deliverables ***DISSOLVED***		
4	E	CN-WES	Cyanide - Westinghouse (CLP deliverables)		
4	F	ALK	Alkalinity		
4	F	AOX-W	AOX on waters (Absorbable Organic Halides)		
4	F	COD	COD		
4	F	COND-W	Conductivity of water		
4	F	NH3-W	Nitrogen, Ammonia in water		
~~4~~	~~F~~	~~NO3-W~~	~~Nitrate/Nitrite-Nitrogen in Water~~		
4	F	PH-W	pH of waters		
4	F	SL-TDS	Solids, Total Dissolved (TDS)		

Interim Report Desired?	Hazardous Samples? Yes		No	
Reference:				Record Book:
Results Approved: Marjina Rant	Date: 10-1-90	Signature applies to attached pages		Page Number:

Printed on: 08/29/90

Weyerhaeuser

ANALYTICAL LABORATORY SERVICES REQUEST

Research and Development - Analysis and Testing

Request Number: 03580

Group	Series	Test Code	Test Description		
			Report Range	Report Basis	Lower Limit of Sensitivity
4	~~F~~	~~SO4-W~~	~~Sulfate, Turbidimetric in water~~		
4	F	TURB	Turbidity		
7	G	NOCODE/7	See comments SO4/7, CL-DION, NO3-W, PO4=ANIONS		
7	G	TOC-LL/7	Total organic carbon - low level - ampule		

Sample Number	Series to Be Evaluated	Submitter's Designation
55556	ABCEFG	B00CV7 REC'D 8-24
55557	D	B00CV8 REC'D 8-24
55558	ABCEFG	B00CX7 REC'D 8-24
55559	D	B00CX8 REC'D 8-24
55560	A	B00CZ7 REC'D 8-24
55752	A	B00CZ8 REC'D 8-28
55753	ABCEFG	B00D06 REC'D 8-28
55754	D	B00D07 REC'D 8-28
55755	ABCEFG	B00D10 REC'D 8-28
55756	D	B00D11 REC'D 8-28
55806	ABCEFG	B009X2 REC'D 8-29
55807	D	B009Z5 REC'D 8-29
55808	ABCEFG	B009Z9 REC'D 8-29
55809	D	B00B00 REC'D 8-29
55810	ABCEFG	B00B04 REC'D 8-29
55811	D	B00B05 REC'D 8-29
55812	ABCEFG	B00B27 REC'D 8-29
55813	D	B00B28 REC'D 8-29
55814	A	B00CZ9 REC'D 8-29

SR 03580

WEYERHAEUSER TECHNOLOGY CENTER
Analytical Laboratories
Tacoma, Washington

TOC REPORT
WESTINGHOUSE 1100 EMI

SUBMITTER'S DESIGNATION	SAMPLE NUMBER	TOC C mg/L AS REC'D BASIS	DATE ANALYZED	DATE REC'D
B00CV7	55556	<0.1	9/21/90	8/24/90
B00CX7	55558	0.3	9/21/90	8/24/90
B00D06	55753	0.2	9/21/90	8/28/90
B00D10	55755	0.6	9/21/90	8/28/90
B009X2	55806	1.5	9/21/90	8/29/90
B009Z9	55808	<0.1	9/21/90	8/29/90
B00B04	55810	<0.1	9/21/90	8/29/90
B00B27	55812	<0.1	9/21/90	8/29/90

Approved [illegible] Date 10/9/90 Notebook [illegible]

SR 03580

WEYERHAEUSER TECHNOLOGY CENTER
Analytical Laboratories
Tacoma, Washington

SUBMITTER'S DESIGNATION	SAMPLE NUMBER	TOC C mg/L AS REC'D BASIS
B00B27	55812	<0.1
B00B27	55812 DUPL.	<0.1
	RPD	NC

SUBMITTER'S DESIGNATION	SAMPLE NUMBER	TOC C mg/L AS REC'D BASIS
B00B27	55812	<0.1
B00B27	55812 SPIKE	11.3
	SPIKE ADDED	11.1
	% RECOVERY	101.5

Approved [signature] Date 10/9/90 Notebook 0002

SR 03580

WEYERHAEUSER TECHNOLOGY CENTER
Analytical Laboratories
Tacoma, Washington

ANION REPORT
WESTINGHOUSE 1100-EM-1

SUBMITTER'S DESIGNATION	SAMPLE NUMBER	FLUORIDE F mg/L AS REC'D BASIS	CHLORIDE Cl mg/L AS REC'D BASIS	BROMIDE Br mg/L AS REC'D BASIS	NITRATE NITROGEN NO3-N mg/L AS REC'D BASIS	PHOSPHATE PO4 mg/L AS REC'D BASIS	SULFATE SO4 mg/L AS REC'D BASIS	DATE ANALYZED	DATE SAMPLED
B00CV7	55556	0.3	13.1	0.2	4.6	<0.7	33.5	8/24/90	8/22/90
B00CX7	55558	0.3	15.4	0.2	9.2	<0.7	43.7	8/24/90	8/22/90
B00D06	55753	0.1	1.6	<0.2	0.1	<0.7	10.1	8/28/90	8/26/90
B00D10	55755	0.1	0.9	<0.2	0.1	<0.7	8.6	8/28/90	8/26/90
B009X2	55806	0.3	16.6	<0.2	7.4	<0.7	30.9	8/29/90	8/27/90
B009Z9	55808	0.3	2.2	<0.2	<0.1	<0.7	22.4	8/29/90	8/27/90
B00B04	55810	0.3	19.0	<0.2	42.1	<0.7	79.2	8/29/90	8/27/90
B00B27	55812	0.4	20.0	<0.2	47.8	<0.7	83.3	8/29/90	8/27/90

Note: The phosphate detection limit was increased to 0.7 mg/L due to baseline interference.

Approved _____ Date 10/22/90 Notebook _____

SAMPLE(S) AUDIED 8/29/90

ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser Research and Development – Analysis and Testing

Request Number: 03580		
Title: WESTINGHOUSE 1100 EM1		
Number of Samples: 19	Project Number: 046-5751	Groups: 1,3,4,7,6
Date Received: 08/24/90	Date Desired: 09/21/90	Estimated Completion Date: 09/21/90
Submitted By: BECHTOLD, BECKY	Location: WTC 2F25	Telephone: (509) 373-3448
Reviewed By: DOXSEE, Kari	Location: 2F 25	Telephone: 924-6148
Copy To:		

Sample Description and History:

****ONLY PERFORM SO4 AND NO3 WATER LAB TESTS AFTER ANIONS TEST HAS BEEN COMPLETED****
SAMPLE MAY CONTAIN HAZARDOUS WASTE

Group	Series	Test Code	Test Description		
			Report Range	Report Basis	Lower Limit of Sensitivity
1	A	VOAWES-W	VOA by GC/MS on waters - Westinghouse		
1	B	BNAWES-W	BNA on Waters - Westinghouse		
1	B	P-PWES-W	Pesticides-PCBs on Waters - Westinghouse		
3	C	MET-WES	Metals - Westinghouse - Inorganic Group 3 CLP Deliverables		
3	D	MET-WES	Metals - Westinghouse - Inorganic Group 3 CLP Deliverables ***DISSOLVED***		
4	E	CN-WES	Cyanide - Westinghouse (CLP deliverables)		
4	F	ALK	Alkalinity		
4	F	AOX-W	AOX on waters (Absorbable Organic Halides)		
4	F	COD	COD		
4	F	COND-W	Conductivity of water		
4	F	NH3-W	Nitrogen, Ammonia in water		
4	F	NO3-W	Nitrate/Nitrite-Nitrogen in Water		
4	F	PH-W	pH of waters		
4	F	SL-TDS	Solids, Total Dissolved (TDS)		

Interim Report Desired?	Hazardous Samples? Yes		No	
Reference:				Record Book:
Results Approved: [signature]	Date: 10-22-90	Signature applies to attached pages		Page Number:

Printed on: 08/29/90 Page: 01

0003

Weyerhaeuser

ANALYTICAL LABORATORY SERVICES REQUEST

Research and Development - Analysis and Testing

Request Number: 03580

Group	Series	Test Code	Test Description		
			Report Range	Report Basis	Lower Limit of Sensitivity
4	F	SO4-W	Sulfate, Turbidimetric in water		
4	F	TURB	Turbidity		
7	G	NOCODE/7	See comments SO4/7, CL-DION, NO3-W, PO4=ANIONS		
7	G	TOC-LL/7	Total organic carbon - low level - ampule		

Sample Number	Series to Be Evaluated	Submitter's Designation
55556	ABCEFG	B00CV7 REC'D 8-24
55557	D	B00CV8 REC'D 8-24
55558	ABCEFG	B00CX7 REC'D 8-24
55559	D	B00CX8 REC'D 8-24
55560	A	B00CZ7 REC'D 8-24
55752	A	B00CZ8 REC'D 8-28
55753	ABCEFG	B00D06 REC'D 8-28
55754	D	B00D07 REC'D 8-28
55755	ABCEFG	B00D10 REC'D 8-28
55756	D	B00D11 REC'D 8-28
55806	ABCEFG	B009X2 REC'D 8-29
55807	D	B009Z5 REC'D 8-29
55808	ABCEFG	B009Z9 REC'D 8-29
55809	D	B00B00 REC'D 8-29
55810	ABCEFG	B00B04 REC'D 8-29
55811	D	B00B05 REC'D 8-29
55812	ABCEFG	B00B27 REC'D 8-29
55813	D	B00B28 REC'D 8-29
55814	A	B00CZ9 REC'D 8-29

Westinhouse Hanford Company	CHA... OF CUSTODY

Company Contact: B H. Ford — Telephone: 509-376-6465

Sample Collected by: R. Schroder — Date: 8-27-90 — Time: 10:00 a.m.

Sample Locations: 1100-EM-1

Ice Chest No.: #17 — Field Logbook and Page No.: WHC-N-370

Remarks: NONE

Bill of Lading No.: 238 369 047 4 — Offsite Property No.: W90-0-0006 #97

Method of Shipment: EMERY

Shipped to: WEYERHAEUSER

Sample Identification

B00979
(3) 40 ml, amber, water, CLP-VOA
(1) 4l amber, water, CLP-VOA
(1) 1l, plastic, water, CLP-CN⁻, 2ml NaOH
(1) 1l, plastic, water, CLP-Metal, 2ml HNO_3, unfiltered
(1) 250ml, amber, water, TOX, .5ml H_2SO_4
(1) 250ml, amber, water, TOC, .5ml H_2SO_4
(1) 1l, plastic, water, Ammon/COD/NO_3/NO_2, 2ml H_2SO_4
(1) 1l, plastic, water, Anions/TDS/pH/Cond/Alk/Turb/SO_4

~~B000 DS 8-27-90~~
~~(3) 40ml amber, water, CLP VOA~~

B00B00
(1) 1l, plastic, CLP-Metal, 2ml HNO_3, filtered

Chain of Possession

Relinquised by:	Received by:	Date/Time:
Richard M. Schroder	Paula J. Bugge	8/28/90 9:27 AM
Paula J. Bugge	J. Demarest	8/28/90 11:40 A
J. Demarest	B. Chappel	8.29.90 1210
Relinquised by:	Received by:	Date/Time:

A-6000-407 (07/89)

0011

Westinhouse Hanford Company

CHAI. OF CUSTODY

Company Contact: B. H. Ford Telephone: 509-376-6465

ole Collected by: R.D. Schroder Date: 8-27-90 Time: 1100

ample Locations: 1100-EM-1

:e Chest No.: #17 Field Logbook and Page No.: WHC-N-370

.emarks: NONE

ill of Lading No.: 238369047 4 Offsite Property No.: W90-0-0006 #97

Method of Shipment: EMERY

hipped to: WEYER HAEUSER

Sample Identification

B0009X2

(3) 40 ml, amber, water, CLP-VOA

(1) 4l amber, water, CLP-VOA

(1) 1l, plastic, water, CLP-CN^-, 2ml NaOH

(1) 1l, plastic, water, CLP-Metal, 2 ml HNO_3, unfiltered

(1) 250ml, amber, water, TOX, .5 ml H_2SO_4

(1) 250ml, amber, water, TOC, .5 ml H_2SO_4

(1) 1l, plastic, water, Ammon/COD/NO_3/NO_2, 2ml H_2SO_4

(1) 1l, plastic, water, Anions/TDS/pH/Cond/Alk/Turb/SO_4

~~B000~~ ~~BB~~ 8-27-90

(3) 40 ml, amber, ~~water~~, CLP-VOA

~~BB~~ 8-27-90

B0009X3 9Z5

(1) 1l, plastic, CLP-Metal, 2ml HNO_3, filtered

Chain of Possession

Relinquished by:	Received by:	Date/Time:
Richard D. Schroder	Paula J. Briggs	8/28/90 9:27 AM
Paula J. Briggs	J. Demaust	8/28/90 11:40 A
J. Demaust	B. Chappel	8-29-90 1210

0012

A-6000-407 (07/89)

Westinhouse Hanford Company

CHAI. JF CUSTODY

:ompany Contact B H. FORD Telephone 509-376-6465

ple Collected by R.A. Schroeder Date 8-27-90 Time ~~1030~~ 1430

ample Locations 1100-EM-1

:e Chest No. 44 Field Logbook and Page No. WHC-N-370

emarks NONE

ill of Lading No. 2383690474 Offsite Property No. W90-0-0006 #97

Method of Shipment EMERY

hipped to WEYERHAEUSER

Sample Identification

B00B27

(3) 40 ml, amber, water, CLP-VOA

(1) 4l amber, water, CLP-VOA

(1) 1l, plastic, water CLP-CN^-, 2ml NaOH

(1) 1l, plastic, water, CLP-Metal, 2 ml HNO_3, unfiltered

(1) 250 ml, amber, water, TOX, .5 ml H_2SO_4

(1) 250 ml, amber, water, TOC, .5 ml H_2SO_4

(1) 1l, plastic, water, Ammon/COD/NO_3/NO_2, 2ml H_2SO_4

(1) 1l, plastic, water Anions/TDS/pH/Cond/Alk/Turb/SO_4

B00C29

(3) 40 ml, amber, water, CLP-VOA

B00B28

(1) 1l, plastic, CLP-Metal, 2ml HNO_3, filtered

Chain of Possession

Relinquised by:	Received by:	Date/Time:
Robert A. Schroeder	Paula J. Briggs	8/28/90 9:24 AM
Paula J. Briggs	J. Demarest	8/28/90 11:40A
J. Demarest	B. Chappel	8.29.90 1210
Relinquised by:	Received by:	Date/Time:

0013

A-6000-407 (07/89)

Westinhouse Hanford Company	CHAIN OF CUSTODY

Company Contact: B H. Ford — Telephone: 509-376-6445

Sample Collected by: B.A. Schroder — Date: 8-27-90 — Time: 1230

Sample Locations: 1100-EM-1

Ice Chest No.: 44 — Field Logbook and Page No.: WHC-N-370

Remarks: NONE

Bill of Lading No.: 238369047 4 — Offsite Property No.: W90-0-00067#97

Method of Shipment: EMERY

Shipped to: WEYERHAEUSER

Sample Identification

B00B04
(3) 40 ml, amber, water, CLP-VOA
(1) 4l amber, water, CLP-VOA
(1) 1l plastic, water, CLP-CN⁻, 2ml NaOH
(1) 1l plastic, water, CLP-Metal, 2ml HNO_3, unfiltered
(1) 250ml, amber, water, TOX, .5ml H_2SO_4
(1) 250ml, amber, water, TOC, .5ml H_2SO_4
(1) 1l, plastic, water, Ammonia/COD/NO_3/NO_2, 2ml H_2SO_4
(1) 1l, plastic, water, Anions/TDS/pH/Cond/Alk/Turb/SO_4

~~B00 BS 8-27-90~~
~~(3) 40ml, amber, water, CLP-VOA~~

B00B05
(1) 1l, plastic, CLP-Metal, 2ml HNO_3, filtered

Chain of Possession

Relinquished by:	Received by:	Date/Time:
Richard A. Schroder	Paula J Briggs	8/28/90 9:25 AM
Paula J Briggs	J Demarest	8/28/90 11:40A
J Demarest	B. Chappel	8.29.90 1210

0014

A-6000-407 (07/89)

VALIDATION SUMMARY

Westinghouse
Hanford Company

OSM INORGANIC DATA ASSESSMENT

DATE 11/03/90

REVIEWED BY JA Lerch

LABORATORY Weyerhaeuser

CASE # 03580

SDG # B00CV7

SAMPLES/MATRIX B009X2 B00B05 B00CX7 B00D11
B00925 B00B27 B00CX8
B00929 B00B28 B00D06
B00B00 B00CV7 B00D07
B00B04 B00CV8 B00D10
all water

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN
1. Calibrations (Form II)	O	O	O	O
2. Blanks (III)	X	X	O	O
3. ICS (IV)	X			
4. Matrix Spike (V)	O	O	X	O
5. Duplicate Analysis (VI)	X	O	O	O
6. LCS (VII)	O	O		
7. Serial Dilution (IX)	X			
8. GFAA		X		
9. Holding Times (XIV)	O	O	O	O
10. Other QC see attachment				

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSSMENT: no major problems - all results acceptable w/attached qualifiers

NOTES: CN not requested for dissolved metals (see KEY on other QC; pg 10)

- Refer to the corresponding attachments for explanation of any problems.

54 7900 046

INORGANIC QC - Calibrations

Name JA Lerch Date 11/03/90

COMMENTS: all ICV + CCV % recoveries within limits
- analysis run log check ok; Hg - last CCV in run delayed (see Case Narrative)
- CN midrange std; CN, Hg correlation coefficients ok

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

- INORGANIC QC - Blanks

Name JA Lerch Date 11/03/90

COMMENTS: possible blank contamination for Al, Sb, Ca, Se, Na,

ACTION: qualify associated sample results as per OSM guidelines (5x criteria)

sample #	constituent	value/qual
all	Al	U
- with the following exceptions:		
B00B04	Al	acceptable
B00B27	Al	acceptable
B009K2	Se	U
B009Z9	Se	U
B00B04	Se	U
B00B05	Se	U
B00B28	Se	U
B00CV7	Se	U

sample #	constituent	value/qual

INORGANIC QC - ICS

Name JA Lerch Date 11/03/90

COMMENTS: -all ICS solution results within control limits
-positive interference possible for Sb, Na
-negative intereference possible for K

ACTION: qualify associated results as per OSM guidelines

sample #	constituent	value/qual
B00D06	Na	J
B00D07	Na	J
B00D10	Na	J
B00D11	Na	J

-other Na significantly > Levels detected in ICS

sample #	constituent	value/qual

INORGANIC QC - Matrix Spike

Name JA Lerch Date 11/03/90

COMMENTS: B00B27S - all spike recoveries within control limits (TOTA
B00CV7S - CN recovery within control limits (TOTAL)
B00CV8S - Hg recovery out of control (bias high)
- all other recoveries ok (DISSOLVED)

ACTION: qualify associated results as per QSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
B00B05	Hg	J			

- all other Hg results for dissolved metals acceptable w/out qualification

INORGANIC QC - Duplicate Analysis

Name JA Lerch Date 11/03/90

COMMENTS: B00B27D- Al, Cr duplicate RPD's out of control, all other RPD's ok where applicable (TOTA
B00CV7D - CN duplicate results ok (TOTAL)
B00CV8D- all duplicate analysis results ok (DISSOLVE

ACTION: qualify associated TOTAL metals results as per OSM guidelines

sample #	constituent	value/qual
B009K2	Al	UJ
	Cr	J
B009Z9	Al	UJ
	Cr	UJ
B00B04	Al	J
	Cr	J
B00B27	Al	J
	Cr	J
B00CV7	Al	UJ
	Cr	J
B00CX7	Al	UJ
	Cr	J
B00D06	Al	UJ
	Cr	J
B00D10	Al	UJ
	Cr	UJ

sample #	constituent	value/qual

INORGANIC QC - LCS

Name JA Lerch Date 11/03/90

COMMENTS: all aqueous LCS results within control limits
- no solid sample run

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - Serial Dilution

Name JA Lerch Date 11/03/90

COMMENTS: 800B22L - Ba dilution %D out of control, all other results ok (TOTAL)

800CVBL - all dilution results within limits (DISSOLVED)

ACTION: qualify associated TOTAL results as per OSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
all TOTAL Metals	Ba	J			

INORGANIC QC - Holding Times

Name JA Lerch JL Date 11/03/90

COMMENTS: all CN, Hg and metals holding time criteria met

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - GFAA

Name JA Lerch Date 11/03/90

COMMENTS: MSA performed on B00CV8, B00CX8 for Se; correlation coefficients ok
- furnace analytical spike out of control for some samples analyzed for As, Se, Tl (see below)

ACTION: qualify associated results as per QSM guidelines

sample #	constituent	value/qual
B009X2	Se	acceptable
	Tl	UJ
B00975	Tl	UJ
B00979	Se	acceptable
	Tl	UJ
B00B00	Se	acceptable
	Tl	UJ
B00B05	Tl	UJ
B00B28	As	UJ
	Se	acceptable
B00CV7	As	J
B00CX7	Se	~~UJ~~ acceptable
B00CX8	Tl	UJ
B00D06	Se	acceptable
	Tl	UJ

sample #	constituent	value/qual
B00D07	Se	acceptable
B00D10	Se	acceptable
B00D11	Se	acceptable

INORGANIC QC - other

Name JA Lerch Date 11/03/90

COMMENTS: Case narrative sample listing inaccurate; samples B00CZ7, B00CZ8, B00CZ9 were for VOA analyses and were not included. Case narrative not signed by lab manager. See below for DISSOLVED vs TOTAL key

ACTION: Request new CASE NARRATIVE from lab with signature and correct samples

sample #	constituent	value/qual

sample #	constituent	value/qual

KEY

Dissolved

B009Z5
B00B00
B00B05
B00B28
B00CV8
B00CX8
B00D07
B00D11

TOTAL

B009X2
B009Z9
B00B04
B00B27
B00CX7
B00D06
B00D10

U.S. EPA - CLP

1A

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B009X2

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55806

Level (low/med): LOW Date Received: 08/29/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	134	~~B~~	* UJ	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	8.4	B		F
7440-39-3	Barium	47.5	~~B~~	E J	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	53100			P
7440-47-3	Chromium	6.1	~~B~~	* J	P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	13300			P
7439-96-5	Manganese	5.8	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	4930	B		P
7782-49-2	Selenium	3.2	~~B~~	W U	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	19600			P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	9.8	B		P
7440-66-6	Zinc	3.0	U		P
	Cyanide	10.0	U		AC

11/03/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1B

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B009Z5

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55807

Level (low/med): LOW Date Received: 08/29/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	90.1	~~B~~	U	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	7.7	B		F
7440-39-3	Barium	48.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	53700			P
7440-47-3	Chromium	5.4	B		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	12900			P
7439-96-5	Manganese	2.8	B		P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	5010			P
7782-49-2	Selenium	3.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	20400			P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	9.9	B		P
7440-66-6	Zinc	3.0	U		P
	Cyanide				NR

11/03/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
DISSOLVED

U.S. EPA - CLP

1C

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B009Z9

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55808

Level (low/med): LOW Date Received: 08/29/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	88.0	~~B~~	* UJ	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	2.6	B		F
7440-39-3	Barium	62.7	~~B~~	E J	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	18800			P
7440-47-3	Chromium	5.0	U	*	P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	4510	B		P
7439-96-5	Manganese	156			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	3690	B		P
7782-49-2	Selenium	3.3	~~B~~	W U	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	22100			P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
	Cyanide	10.0	U		AC

JJ 11/03/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1 D

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B00

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55809

Level (low/med): LOW Date Received: 08/29/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	111	~~B~~	U	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	2.2	B		F
7440-39-3	Barium	63.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	19300			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.5			F
7439-95-4	Magnesium	4700	B		P
7439-96-5	Manganese	147			P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	4170	B		P
7782-49-2	Selenium	3.0	U	W	F
7440-22-4	Silver	5.1	B		P
7440-23-5	Sodium	21200			P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	3.0	U		P
	Cyanide				NR

11/03/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
DISSOLVED

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1E

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B04

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55810

Level (low/med): LOW Date Received: 08/29/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	883	J	*	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	3.4	B		F
7440-39-3	Barium	95.7	B	E J	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	91600			P
7440-47-3	Chromium	7.0	B	* J	P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	1630			P
7439-92-1	Lead	8.3			F
7439-95-4	Magnesium	19900			P
7439-96-5	Manganese	45.0			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	8220			P
7782-49-2	Selenium	5.2	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	30100			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	4.2	B		P
7440-66-6	Zinc	3.2	B		P
	Cyanide	10.0	U		AC

11/03/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B05

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55811

Level (low/med): LOW Date Received: 08/29/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	102	~~B~~	U	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	2.6	B		F
7440-39-3	Barium	90.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	93400			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	19800			P
7439-96-5	Manganese	5.2	B		P
7439-97-6	Mercury	0.20	J	N	CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	8200			P
7782-49-2	Selenium	4.7	~~B~~	U	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	31000			P
7440-28-0	Thallium	5.0	U	W	F
7440-62-2	Vanadium	2.4	B		P
7440-66-6	Zinc	3.0	U		P
	Cyanide				NR

JJ 11/05/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
DISSOLVED

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B27

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55812

Level (low/med): LOW Date Received: 08/29/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	869	J	*	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	107	~~B~~	E J	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	96500			P
7440-47-3	Chromium	15.3	J	*	P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	7.0	B		P
7439-89-6	Iron	1390			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	22400			P
7439-96-5	Manganese	217			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	9670			P
7782-49-2	Selenium	3.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	34000			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	4.3	B		P
	Cyanide	10.0	U		AC

JJ 11/03/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1H

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00B28

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55813

Level (low/med): LOW Date Received: 08/29/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	111	~~B~~	U	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	2.0	~~U~~	W	F
7440-39-3	Barium	90.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	96900			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	22000			P
7439-96-5	Manganese	167			P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	9320			P
7782-49-2	Selenium	3.0	~~B~~	W U	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	32400			P
7440-28-0	Thallium	5.0	U	E	F
7440-62-2	Vanadium	3.4	B		P
7440-66-6	Zinc	3.0	U		P
	Cyanide				NR

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Comments:
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CV7

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55556

Level (low/med): LOW Date Received: 08/24/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	91.6	~~B~~	* UJ	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	6.4	~~B~~	W J	F
7440-39-3	Barium	44.9	~~B~~	E J	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	47100			P
7440-47-3	Chromium	6.8	~~B~~	* J	P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	101			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	9860			P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	5150			P
7782-49-2	Selenium	3.4	~~B~~	U	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	22200			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	6.7	B		P
7440-66-6	Zinc	9.6	B		P
	Cyanide	10.0	U		AC

JJ 11/03/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1J

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CV8

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55557

Level (low/med): LOW Date Received: 08/24/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	97.1	~~B~~	U	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	5.7	B		F
7440-39-3	Barium	44.9	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	48000			P
7440-47-3	Chromium	5.6	B		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	77.8	B		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	9980			P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	5450			P
7782-49-2	Selenium	3.0	U	S	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	23200			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	6.7	B		P
7440-66-6	Zinc	9.9	B		P
	Cyanide				NR

11/03/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
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1 K

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CX7

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55558

Level (low/med): LOW Date Received: 08/24/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	85.1	~~B~~	* UJ	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	4.4	B		F
7440-39-3	Barium	50.8	~~B~~	E J	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	57000			P
7440-47-3	Chromium	8.4	~~B~~	* J	P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	229			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	11300			P
7439-96-5	Manganese	2.3	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	5740			P
7782-49-2	Selenium	3.0	~~U~~	W U	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	23700			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	6.0	B		P
7440-66-6	Zinc	3.0	U		P
	Cyanide	10.0	U		AC

JJ 11/05/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1L

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00CX8

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55559

Level (low/med): LOW Date Received: 08/24/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	88.6	~~B~~	U	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	5.0	B		F
7440-39-3	Barium	50.8	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	56200			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	11500			P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	6040			P
7782-49-2	Selenium	3.0	U	S	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	23100			P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	6.6	B		P
7440-66-6	Zinc	3.0	U		P
	Cyanide				NR

11/03/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
DISSOLVED

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1M

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00D06

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55753

Level (low/med): LOW Date Received: 08/28/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	108	~~B~~	* UJ	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	13.2	~~B~~	E J	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	6.6			P
7440-70-2	Calcium	23000			P
7440-47-3	Chromium	5.8	~~B~~	* J	P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	23.3	B		P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	4470	B		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	1330	B		P
7782-49-2	Selenium	3.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	2930	~~B~~	J	P
7440-28-0	Thallium	1.0	~~U~~	W	F
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	6.9	B		P
	Cyanide	10.0	U		AC

11/05/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1 N

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00D07

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55754

Level (low/med): LOW Date Received: 08/28/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	99.6	~~B~~	U	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	3.3	B		F
7440-39-3	Barium	15.8	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	22900			P
7440-47-3	Chromium	7.9	B		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	71.9			P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	4350	B		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	1330	B		P
7782-49-2	Selenium	3.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	3020	~~B~~	J	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	21.6			P
	Cyanide				NR

11/05/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00D10

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55755

Level (low/med): LOW Date Received: 08/28/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	97.5	B	* UJ	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	10.5	B	E J	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	20800			P
7440-47-3	Chromium	5.0	U	*	P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	58.2			P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	4270	B		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	716	B		P
7782-49-2	Selenium	3.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	2870	B	J	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	6.1	B		P
	Cyanide	10.0	U		AC

11/03/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00D11

Lab Name: WEYERHAEUSER COMPANY Contract: 68-D9-0080

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00CV7

Matrix (soil/water): WATER Lab Sample ID: 55756

Level (low/med): LOW Date Received: 08/28/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	118	~~B~~	U	P
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	2.1	B		F
7440-39-3	Barium	13.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	21100			P
7440-47-3	Chromium	5.6	B		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	26.2			P
7439-89-6	Iron	49.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	4510	B		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	20.0	U		P
7440-09-7	Potassium	1030	B		P
7782-49-2	Selenium	3.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	2920	~~B~~	J	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	5.1	B		P
	Cyanide				NR

11/03/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
DISSOLVED

1100-EM-1 SUMMARY TABLE
Laboratory: Weyerhaeuser
SDG #: B00CV7

INORGANICS sample value/qualifier (all values ppm unless otherwise indicated)

Parameter	B009X2	B009Z5	B009Z9	B00B00	B00B04	B00B05	B00B27	B00B28	B00CV7	B00CV8	B00CX7	B00CX8	B00D06	B00D07	B00D10	B00D11
Al	134 UJ	90.1 U	88.0 UJ	111 U	883 J	102 U	869 J	111 U	91.6 UJ	97.1 U	85.1 UJ	88.6 U	108 UJ	99.6 U	97.5 UJ	118 U
Sb	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
As	8.4	7.7	2.6	2.2	3.4	2.6	2.0 U	2.0 UJ	6.4 J	5.7	4.4	5.0	2.0 U	3.3	2.0 U	2.1
Ba	47.5 J	48.2	62.7 J	63.3	95.7 J	90.4	107 J	90.4	44.9 J	44.9	50.8 J	50.8	13.2 J	15.8	10.5 J	13.2
Be	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cd	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	6.6	5.0 U	5.0 U	5.0 U
Ca	53100	53700	18800	19300	91600	93400	96500	96900	47100	48000	57000	56200	23000	22900	20800	21100
Cr	6.1 J	5.4	5.0 UJ	5.0 U	7.0 J	5.0 U	15.3 J	5.0 U	6.8 J	5.6	8.4 J	5.0 U	5.8 J	7.9	5.0 UJ	5.6
Co	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cu	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	7.0	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	23.3	71.9	58.2	26.2
Fe	49.0 U	49.0 U	49.0 U	49.0 U	1630	49.0 U	1390	49.0 U	101	77.8	229	49.0 U	49.0 U	49.0 U	49.0 U	49.0 U
Pb	3.0 U	3.0 U	3.0 U	3.5	8.3	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Mg	13300	12900	4510	4700	19900	19800	22400	22000	9860	9980	11300	11500	4470	4350	4270	4510
Mn	5.8	2.8	156	147	45.0	5.2	217	167	2.0 U	2.0 U	2.3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hg	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Ni	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
K	4930	5010	3690	4170	8220	8200	9670	9320	5150	5450	5740	6040	1330	1330	716	1030
Se	3.2 U	3.0 U	3.3 U	3.0 U	5.2 U	4.7 U	3.0 U	3.0 U	3.4 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Ag	3.0 U	3.0 U	3.0 U	5.1	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Na	19600	20400	22100	21200	30100	31000	34000	32400	22200	23200	23700	23100	2930 J	3020 J	2870 J	2920 J
Tl	1.0 UJ	1.0	1.0 UJ	1.0 UJ	1.0 U	5.0 UJ	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U
V	9.8	9.9 UJ	2.0 U	2.0 U	4.2	2.4	2.0 U	3.4	6.7	6.7	6.0	6.6	2.0 U	2.0 U	2.0 U	2.0 U
Zn	3.0 U	3.0 U	3.0 U	3.0 U	3.2	3.0 U	4.3	3.0 U	9.6	9.9	3.0 U	3.0 U	6.9	21.6	6.1	5.1
CN	10.0 U	NR	10.0 U	NR	10.0 U	NR	10.0 U	NR	10.0 U	NR	10.0 U	NR	10.0 U	NR	10.0 U	NR

NR not reported and/or requested

1100-EM-1 SUMMARY TABLE
Laboratory: Weyerhaeuser
SDG #: B00CV7

INORGANICS sample value/qualifier (all values ppb unless otherwise indicated)

Parameter	B009X2	B009Z5	B009Z9	B00B00	B00B04	B00B05	B00B27	B00B28	B00CV7	B00CV8	B00CX7	B00CX8	B00D06	B00D07	B00D10	B00D11
Al	134 UJ	90.1 U	88.0 UJ	111 U	883 J	102 U	869 J	111 U	91.6 UJ	97.1 U	85.1 UJ	88.6 U	108 UJ	99.6 U	97.5 UJ	118 U
Sb	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
As	8.4	7.7	2.6	2.2	3.4	2.6	2.0 U	2.0 UJ	6.4 J	5.7	4.4	5.0	2.0 U	3.3	2.0 U	2.1
Ba	47.5 J	48.2	62.7 J	63.3	95.7 J	90.4	107 J	90.4	44.9 J	44.9	50.8 J	50.8	13.2 J	15.8	10.5 J	13.2
Be	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cd	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	6.6	5.0 U	5.0 U	5.0 U
Ca	53100	53700	18800	19300	91600	93400	96500	96900	47100	48000	57000	56200	23000	22900	20800	21100
Cr	6.1 J	5.4	5.0 UJ	5.0 U	7.0 J	5.0 U	15.3 J	5.0 U	6.8 J	5.6	8.4 J	5.0 U	5.8 J	7.9	5.0 UJ	5.6
Co	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cu	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	7.0	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	23.3	71.9	58.2	26.2
Fe	49.0 U	49.0 U	49.0 U	49.0 U	1630	49.0 U	1390	49.0 U	101	77.8	229	49.0 U	49.0 U	49.0 U	49.0 U	49.0 U
Pb	3.0 U	3.0 U	3.0 U	3.5	8.3	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Mg	13300	12900	4510	4700	19900	19800	22400	22000	9860	9980	11300	11500	4470	4350	4270	4510
Mn	5.8	2.8	156	147	45.0	5.2	217	167	2.0 U	2.0 U	2.3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hg	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Ni	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
K	4930	5010	3690	4170	8220	8200	9670	9320	5150	5450	5740	6040	1330	1330	716	1030
Se	3.2 U	3.0 U	3.3 U	3.0 U	5.2 U	4.7 U	3.0 U	3.0 U	3.4 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Ag	3.0 U	3.0 U	3.0 U	5.1	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Na	19600	20400	22100	21200	30100	31000	34000	32400	22200	23200	23700	23100	2930 J	3020 J	2870 J	2920 J
Tl	1.0 UJ	1.0	1.0 UJ	1.0 UJ	1.0 U	5.0 UJ	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U
V	9.8	9.9 UJ	2.0 U	2.0 U	4.2	2.4	2.0 U	3.4	6.7	6.7	6.0	6.6	2.0 U	2.0 U	2.0 U	2.0 U
Zn	3.0 U	3.0 U	3.0 U	3.0 U	3.2	3.0 U	4.3	3.0 U	9.6	9.9	3.0 U	3.0 U	6.9	21.6	6.1	5.1
CN	10.0 U	NR	10.0 U	NR	10.0 U	NR	10.0 U	NR	10.0 U	NR	10.0 U	NR	10.0 U	NR	10.0 U	NR

NR not reported and/or requested

Westinghouse
Hanford Company

OSM RCRA LEVEL C DATA ASSESSMENT

DATE 11/10/90

REVIEWED BY JA Lerch

LABORATORY Weyerhaeuser

CASE # 03580

SDG # —

SAMPLES/MATRIX B00CV7 B00929
B00CX7 B00B04
B00D06 B00B27
B00D10
B00X2
all water

DATA ASSESSMENT SUMMARY

QUALITY CONTROL CHECK	ANALYSIS	TOC	Anions	Water Data
1. Holding time		O	O	O
2. Duplicate Analysis		O	O	O
3. Spike Recovery		O	O	O
4. Blank Analysis		O	O	O
5. Calibration		O	O	O
6.				
7.				
8.				
9.				
10.				

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSSMENT: No major problems - all results acceptable

NOTES: Water Data includes: pH, turbidity, conductance, TDS, alkalinity, COD, NH_3-N, AOX, CN

o Refer to the corresponding attachments for explanation of any problems.

54 7600 046

RCRA LEVEL C QC

Name JA Lerch Date 11/10/90

QC Check: Holding time

COMMENTS: Toc - all samples analyzed within 28 days
Anions - all samples analyzed within 2 days
Water Data - all Holding time criteria met

ACTION: none

sample #	constituent	value/qual

sample #	constituent	value/qual

Water Holding times

Alkalinity	14 days
pH	imm
COD	28
CN	14
Sulfate	28
turbidity	2
conductivity	28
AOX	7
Nitrogen-Ammonia	28

RCRA LEVEL C QC

Name JA Lerch Date 11/10/90

QC Check: Duplicate Analysis

COMMENTS: TOC - both sample + dup. < Detection limit
Anions - no problems, all RPD's below 13%
Water - no problems, RPD's below 14%

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

RCRA LEVEL C QC

Name JA Lerch Date 11/10/90

QC Check: Spike Recovery

COMMENTS: TOC - no problems, %R 101.5
Anions - no problems, all %R between 83-119 %
Water - no problems - all %R 87-105 %

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

RCRA LEVEL C QC

Name JA Lerch Date 11/10/90

QC Check: Blank Analysis

COMMENTS: TOC - no problems, all initial + continuing blanks < DL
Anions - no blank contamination evident
Water Data - blanks free of contaminants

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

RCRA LEVEL C QC

Name JA Lerch Date 11/10/90

QC Check: Calibrations

COMMENTS: TOC - 4pt curve used; all ICV + CCV recoveries 95-106%
Anions - all calibration data acceptable

Water - no problems, recoveries of control samples 92-112%

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

Westinghouse
Hanford Company

OSM ORGANIC DATA ASSESSMENT

DATE 11/03/90

REVIEWED BY JA Lerch

LABORATORY Weyerhaeuser

CASE # 03580

SDG # B00CV7

SAMPLES/MATRIX B009X2 B00CX7 B00D10
B009Z9 B00BZ7
B00B04 B00CZ8
B00B27 B00CZ9
B00CV7 B00D06
all water

DATA ASSESSMENT SUMMARY

	VOA	ABN	PEST
1. Holding Times (Form I)	O	O	O
2. Surrogate Recovery (II)	O	O	O
3. Matrix Spike/ MSD (III)	O	O	X
4. Blanks (IV)	O	X	O
5. GC/MS Tune (V)	O	O	
6. Calibration (VI-VII; VIII pest)	O	O	O
7. Internal Standards (VIII)	O	O	
8. Instr. Perform. (IX pest)			O
9. Other ( ) none			

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems, some data may be unusable

OVERALL ASSESSMENT: no major problems - all results acceptable w/qualification

NOTES : Samples B00CZ7, B00CZ8, B00CZ9 for VOA only

Refer to the corresponding attachments for explanation of any problems.

ORGANIC QC - Holding Times

Name JA Lerch Date 11/03/90

COMMENTS: -all VOA, SemiVOA, Pest. Holding time criteria met

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Surrogate Recovery

Name JA Lerch Date 11/03/90

COMMENTS: all VOA, SemiVOA, Pest surrogate recoveries within control limits

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - MS/MSD

Name JA Lerch Date 11/03/90

COMMENTS: B00CV7 MS, MSD (VOA), B00CX7 MS, MSD (SemiVOA) - all recoveries & RPD's ok

B00CV7 MS, MSD (Pest) - Endrin % R high, all other recoveries, RPD's ok

ACTION: none - advisory limits, no major problems

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Blanks

Name JA Lerch Date 11/03/90

COMMENTS: - all method blank summaries ok
- no contaminants detected in VOA, Pest blanks
- bis(2-ethylhexyl)phthalate detected in SBLKW3

ACTION: qualify associated results as per OSM guidelines

sample #	constituent	value/qual
300929	bis(2-ethylhexyl) phthalate	28 U

sample #	constituent	value/qual

ORGANIC QC - GC/MS Tune

Name JA Lerch Date 11/07/90

COMMENTS: all GC/MS tune, mass calibration criteria met

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Calibrations

Name JA Lerch Date 11/03/90

COMMENTS: VOA, SemiVOA - all initial + continuing calibration RRF + $\overline{RRF}$ criteria met
Pest - initial cal. check for linearity ok
- analytical sequence requirements met
- continuing cal. factor %D criteria met

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Internal Standards

Name JA Lerch Date 11/03/90

COMMENTS: all VOA, SemiVOA IS area counts + RT shifts within control limits

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Instrument Performance (pest)

Name JA Lerch Date 11/03/90

COMMENTS: - DDT/Endrin % breakdown criteria met
- DBC RT shift within limits for SDG samples
- all DDT RT's > 12 min
- all Retention time window Criteria met

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Other

Name JA Larch Date 11/03/90

COMMENTS: none

ACTION: —

sample #	constituent	value/qual	sample #	constituent	value/qual

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0097Z9

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 03580 SAS No.: SDG No.: B00CV7

Matrix: (soil/water) WATER Lab Sample ID: 55808

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN1003K

Level: (low/med) LOW Date Received: 08/29/90

% Moisture: not dec. dec. Date Extracted: 08/31/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 10/04/90

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	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
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)	10	U
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	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	28	~~B~~ 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

11/03/90

1100-EM-1 SUMMARY TABLE
Laboratory: Weyerhaeuser
SDG #: B00CV7

ORGANICS sample value/qualifier (values in ppb)

Parameter	B009X2	B009Z9	B00B04	B00B27	B00CV7	B00CX7	B00CZ7	B00CZ8	B00CZ9	B00D06	B00D10
MeCl2	1 U	1 U	1 U	1 U	1 U	1 U	5	4	4	1 U	1 U
chloroform	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	13	2
2-butanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10	10 U	10 U
1,1,1-trichloroethane	0.8 J	1 U	1	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trichloroethene	1 U	1 U	2	2	1 U	0.9 J	1 U	1 U	1 U	1 U	1 U
TICSV1 @ 7.17	ND	ND	9.6 J	ND	ND	ND	NR	NR	NR	ND	ND
TICSV2 @ 21.44	ND	18 J	ND	ND	ND	ND	NR	NR	NR	ND	ND
TICSV3 @ 24.10	ND	ND	ND	ND	ND	5.3 J	NR	NR	NR	ND	ND
TICSV4 @ 28.29	ND	5.5 J	ND	ND	ND	ND	NR	NR	NR	ND	ND
TICSV5 @ 29.17	ND	22 J	ND	ND	ND	ND	NR	NR	NR	ND	ND
TICSV6 @ 33.61	ND	18 J	ND	ND	ND	ND	NR	NR	NR	ND	ND

NR not reported and/or requested
ND corresponding TIC was not detected

1100-EM-1 SUMMARY TABLE
Laboratory: Weyerhaeuser
SDG #: B00CV7

ORGANIC TARGET COUMPOUND LIST - NON DETECTED COMPOUNDS

Compound	SQL (in ppb)
VOLATILES	
chloromethane	2
bromomethane	2
vinyl chloride	2
chloroethane	2
acetone	10
carbon disulfide	1
1,1-dichloroethene	1
1,1-dichloroethane	1
1,2-dichloroethene (total)	1
1,2-dichloroethane	1
carbon tetrachloride	1
vinyl acetate	2
bromodichloromethane	1
1,2-dichloropropane	1
cis-1,3-dichloropropene	1
dibromochloromethane	1
1,1,2-trichloroethane	1
benzene	1
trans-1,3-dichloropropene	1
bromoform	1
4-methyl-2-pentanone	10
2-hexanone	10
tetrachloroethene	1
1,1,2,2-tetrachloroethane	1
toluene	1
chlorobenzene	1
ethylbenzene	1
styrene	1
xylene (total)	1
SEMI-VOA	
phenol	10
bis(2-chloroethyl)ether	10
2-chlorophenol	10
1,3-dichlorobenzene	10
1,4-dichlorobenzene	10
benzyl alcohol	10
1,2-dichlorobenzene	10
2-methylphenol	10
bis(2-chloroisopropyl)ether	10
4-methylphenol	10
N-nitroso-di-n-propylamine	10

1100-EM-1 SUMMARY TABLE
Laboratory: Weyerhaeuser
SDG #: B00CV7

ORGANIC TARGET COUMPOUND LIST - NON DETECTED COMPOUNDS

Compound	SQL (in ppb)
hexachloroethane	10
nitrobenzene	10
isophorone	10
2-nitrophenol	10
2,4-dimethylphenol	10
benzoic acid	50
bis(2-chloroethoxy)methane	10
2,4-dichlorophenol	10
1,2,4-trichlorobenzene	10
naphthalene	10
4-chloroaniline	10
hexachlorobutadiene	10
4-chloro-3-methylphenol	10
2-methylnaphthalene	10
hexachlorocyclopentadiene	10
2,4,6-trichlorophenol	10
2,4,5-trichlorophenol	50
2-chloronaphthalene	10
2-nitroaniline	50
dimethylphthalate	10
acenaphthylene	10
2,6-dinitrotoluene	10
3-nitroaniline	50
acenaphthene	10
2,4-dinitrophenol	50
4-nitrophenol	50
dibenzofuran	10
2,4-dinitrotoluene	10
diethylphthalate	10
4-chlorophenyl-phenylether	10
fluorene	10
4-nitroaniline	50
4,6-dinitro-2-methylphenol	50
N-nitrosodiphenylamine (1)	10
4-bromophenyl-phenylether	10
hexachlorobenzene	10
pentachlorophenol	50
phenanthrene	10
anthracene	10
di-n-butylphthalate	10
fluoranthene	10
pyrene	10
butylbenzylphthalate	10
3,3'-dichlorobenzidine	20

1100-EM-1 SUMMARY TABLE
Laboratory: Weyerhaeuser
SDG #: B00CV7

ORGANIC TARGET COUMPOUND LIST - NON DETECTED COMPOUNDS

Compound	SQL (in ppb)
benzo(a)anthracene	10
chrysene	10
bis(2-ehtylhexyl)phthalate	10-28
di-n-octylphthalate	10
benzo(b)fluoranthene	10
benzo(k)fluoranthene	10
benzo(a)pyrene	10
indeno(1,2,3-cd)pyrene	10
dibenz(a,h)anthracene	10
benzo(g,h,i)perylene	10

PESTICIDES

alpha-BHC	0.050-0.10
beta-BHC	0.050-0.10
delta-BHC	0.050-0.10
gamma-BHC (lindane)	0.050-0.10
heptachlor	0.050-0.10
aldrin	0.050-0.10
heptachlor epoxide	0.050-0.10
endosulfan I	0.050-0.10
dieldrin	0.10-0.20
4,4'-DDE	0.10-0.20
endrin	0.10-0.20
endosulfan II	0.10-0.20
4,4'-DDD	0.10-0.20
endosulfan sulfate	0.10-0.20
4,4'-DDT	0.10-0.20
methoxychlor	0.50-1.0
endrin ketone	0.10-0.20
alpha-chlordane	0.50-1.0
gamma-chlordane	0.50-1.0
toxaphene	1.0-2.0
aroclor-1016	0.50-1.0
aroclor-1221	0.50-1.0
aroclor-1232	0.50-1.0
aroclor-1242	0.50-1.0
aroclor-1248	0.50-1.0
aroclor-1254	1.0-2.0
aroclor-1260	1.0-2.0

1100-EM-1 SUMMARY TABLE
Laboratory: Weyerhaeuser
SDG #: B00CV7

INORGANICS sample value/qualifier (all values ppb unless otherwise indicated)

Sample #	B009X2	B009Z5	B009Z9	B00B00	B00B04	B00B05	B00B27	B00B28	B00CV7	B00CV8	B00CX7	B00CX8	B00D06	B00D07	B00D10	B00D11
Well #	MW-8	MW-8	MW-9	MW-9	MW-10	MW-10	MW-11	MW-11	S29-E12	S29-E12	S27-E14	S27-E14	RWF E	RWF E	RWF W	RWF W
Al	134 UJ	90.1 U	88.0 UJ	111 U	883 J	102 U	869 J	111 U	91.6 UJ	97.1 U	85.1 UJ	88.6 U	108 UJ	99.6 U	97.5 UJ	118 U
Sb	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
As	8.4	7.7	2.6	2.2	3.4	2.6	2.0 U	2.0 UJ	6.4 J	5.7	4.4	5.0	2.0 U	3.3	2.0 U	2.1
Ba	47.5 J	48.2	62.7 J	63.3	95.7 J	90.4	107 J	90.4	44.9 J	44.9	50.8 J	50.8	13.2 J	15.8	10.5 J	13.2
Be	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cd	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	6.6	5.0 U	5.0 U	5.0 U
Ca	53100	53700	18800	19300	91600	93400	96500	96900	47100	48000	57000	56200	23000	22900	20800	21100
Cr	6.1 J	5.4	5.0 UJ	5.0 U	7.0 J	5.0 U	15.3 J	5.0 U	6.8 J	5.6	8.4 J	5.0 U	5.8 J	7.9	5.0 UJ	5.6
Co	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cu	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	7.0	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	23.3	71.9	58.2	26.2
Fe	49.0 U	49.0 U	49.0 U	49.0 U	1630	49.0 U	1390	49.0 U	101	77.8	229	49.0 U	49.0 U	49.0 U	49.0 U	49.0 U
Pb	3.0 U	3.0 U	3.0 U	3.5	8.3	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Mg	13300	12900	4510	4700	19900	19800	22400	22000	9860	9980	11300	11500	4470	4350	4270	4510
Mn	5.8	2.8	156	147	45.0	5.2	217	167	2.0 U	2.0 U	2.3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hg	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Ni	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
K	4930	5010	3690	4170	8220	8200	9670	9320	5150	5450	5740	6040	1330	1330	716	1030
Se	3.2 U	3.0 U	3.3 U	3.0 U	5.2 U	4.7 U	3.0 U	3.0 U	3.4 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Ag	3.0 U	3.0 U	3.0 U	5.1	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Na	19600	20400	22100	21200	30100	31000	34000	32400	22200	23200	23700	23100	2930 J	3020 J	2870 J	2920 J
Tl	1.0 UJ	1.0	1.0 UJ	1.0 UJ	1.0 U	5.0 UJ	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U
V	9.8	9.9 UJ	2.0 U	2.0 U	4.2	2.4	2.0 U	3.4	6.7	6.7	6.0	6.6	2.0 U	2.0 U	2.0 U	2.0 U
Zn	3.0 U	3.0 U	3.0 U	3.0 U	3.2	3.0 U	4.3	3.0 U	9.6	9.9	3.0 U	3.0 U	6.9	21.6	6.1	5.1
CN	10.0 U	NR	10.0 U	NR	10.0 U	NR	10.0 U	NR	10.0 U	NR	10.0 U	NR	10.0 U	NR	10.0 U	NR

NR not reported and/or requested

1100-EM-1 SUMMARY TABLE
Laboratory: Weyerhaeuser
SDG #: B00CV7

ORGANICS sample value/qualifier (values in ppb)

Sample #	B009X2	B009Z9	B00B04	B00B27	B00CV7	B00CX7	B00CZ7	B00CZ8	B00CZ9	B00D06	B00D10
Well #	MW-8	MW-9	MW-10	MW-11	S29-E12	S27-E14	T Blk	T Blk	T Blk	RWF E	RWF W
MeCl2	1 U	1 U	1 U	1 U	1 U	1 U	5	4	4	1 U	1 U
chloroform	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	13	2
2-butanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10	10 U	10 U
1,1,1-trichloroethane	0.8 J	1 U	1	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trichloroethene	1 U	1 U	2	2	1 U	0.9 J	1 U	1 U	1 U	1 U	1 U
TICSV1 @ 7.17	ND	ND	9.6 J	ND	ND	ND	NR	NR	NR	ND	ND
TICSV2 @ 21.44	ND	18 J	ND	ND	ND	ND	NR	NR	NR	ND	ND
TICSV3 @ 24.10	ND	ND	ND	ND	ND	5.3 J	NR	NR	NR	ND	ND
TICSV4 @ 28.29	ND	5.5 J	ND	ND	ND	ND	NR	NR	NR	ND	ND
TICSV5 @ 29.17	ND	22 J	ND	ND	ND	ND	NR	NR	NR	ND	ND
TICSV6 @ 33.61	ND	18 J	ND	ND	ND	ND	NR	NR	NR	ND	ND

NR not reported and/or requested
ND corresponding TIC was not detected

T Blk Trip Blank