B00070-WEY-037

0047772

Weyerhaeuser

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Federal Way, Washington 98003
Analytical Chemistry Laboratories
Tacoma, Washington 98477
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JUL 1990
RECEIVED
J.M. KESSNER

CASE NARRATIVE

WEYERHAEUSER (WEYER)
ANALYTICAL AND TESTING SERVICES

Case Number: 02666
SDG Number: B00070
Contract Number: 11003

Samples from this case (02666) were received on 5/17/90. This case was comprised of waters for VOAs, BNAs, and Pesticides. The requested analysis were as follows:

SAMPLE ID	MATRIX	ANALYSIS REQUESTED
B00070	WATER	BNA; VOA; PEST
B00074	WATER	BNA; VOA; PEST
B00078	WATER	BNA; VOA; PEST
B00082	WATER	VOA
B00083	WATER	BNA; VOA; PEST
B00087	WATER	BNA; VOA; PEST
B00091	WATER	BNA; VOA; PEST
B00095	WATER	BNA; VOA; PEST
B00099	WATER	VOA
B00100	WATER	BNA; VOA; PEST
B00070MS	WATER	BNA; VOA; PEST
B00070MSD	WATER	BNA; VOA; PEST
B00074MS	WATER	BNA
B00074MSD	WATER	BNA
B00100MS	WATER	PEST
B00100MSD	WATER	PEST
B00082DL	WATER	VOA
B00087DL	WATER	VOA
B00091DL	WATER	VOA
B00100DL	WATER	VOA

OCT 1997
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EDMC

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 CRQL for acetone, 2-Butanone, 4-Methyl-2-Pentanone, and 2-Hexanone remained at 10ppb for the 25 ML sample volume due to poor purging eficiency for ketones at 1-2 ppb.

c) Samples B00082, B00091, B00095, B00087, and B00100 had target compound concentrations greater than the calibration range of the instrument. Both the original and a dilution are reported as deliverables.

d) The initial undiluted sample B00087 had surrogate problems that were not noticed until after the holding times were expired. The diluted analysis was analyzed in time. Both results are submitted.

2. PESTICIDES

a) Several RPDs are outside QC limits on the MS/MSD pair. No action is required because these are advisory levels only.

3. BNA

a) The percent RPD for 2-Chlorophenol is outside QC limits and the recovery of Pentachlorophenol on the MSD is outside QC limits. No action is required because these are advisory limits only.

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.

DM Catalano 6/28/90

Dennis Catalano
Laboratory Manager

Date

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

Sincerely,

DM Catalano

Dennis Catalano, Manager
Organic Laboratory
Weyerhaeuser Analytical & Testing Services

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00070

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49931

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2741

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00070

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49931

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2741

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

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.

B00074

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49933

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2742

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

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.

B00074

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49933

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2742

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

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.

B00078

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49935

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2743

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

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.

B00078

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49935

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2743

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

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.

B00082

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49937

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2744

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

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	5	
67-64-1	Acetone	14	
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	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	40	E
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

Gm 6-12-90

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00082

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49937

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2744

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

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.

B00082DL

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49937DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A2753

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

Column: (pack/cap) CAP Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	4	DJ
67-64-1	Acetone	50	U
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	66	D
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00082DL

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49937DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A2753

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

Column (pack/cap) CAP Dilution Factor: 5.0

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.

B00083

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49938

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2745

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

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	3	
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.

B00083

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49938

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2745

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

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.

B00087

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49940

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2974

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 06/01/90

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	2	
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	100	E
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	0.7	J
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

Gm 6.12.90

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00087

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49940

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2974

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 06/01/90

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.

B00087DL

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49940DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A2758

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/25/90

Column: (pack/cap) CAP Dilution Factor: 5.0

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00087DL

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49940DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A2758

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/25/90

Column (pack/cap) CAP Dilution Factor: 5.0

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.

B00091

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49942

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2754

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

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	2	
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	94	E
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	0.7	J
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00091

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49942

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2754

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

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.

B00091DL

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49942DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A2761

Level: (low/med) LOW Date Received: 05/17/90

Moisture: not dec. ____ Date Analyzed: 05/25/90

Column: (pack/cap) CAP Dilution Factor: 5.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	50	U
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	50	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	97	D
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00091DL

ab Name: WEYERHAEUSER Contract: 046-5751

ab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

atrix: (soil/water) WATER Lab Sample ID: 49942DL

ample wt/vol: 5.0 (g/mL) ML Lab File ID: A2761

evel: (low/med) LOW Date Received: 05/17/90

Moisture: not dec. ____ Date Analyzed: 05/25/90

olumn (pack/cap) CAP Dilution Factor: 5.0

umber 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.

B00095

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49944

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2769

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/25/90

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	2	
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	90	E
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	0.7	J
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

Gm 6.17.90

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00095

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49944

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2769

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/25/90

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.

B00095DL

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49944DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A2975

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 06/01/90

Column: (pack/cap) CAP Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	50	U
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	50	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	91	D
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00095DL

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49944DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A2975

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 06/01/90

Column (pack/cap) CAP Dilution Factor: 5.0

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.

B00099

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49946

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2756

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

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	3	
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	14	
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	
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.

B00099

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49946

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2756

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

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.

B00100

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49947

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2757

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

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	
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	76	E
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	0.6	J
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

Gm 6-11-90

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00100

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49947

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: A2757

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/24/90

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.

B00100DL

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49947DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A2770

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/25/90

Column: (pack/cap) CAP Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	50	U
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	50	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	73	D
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00100DL

Lab Name: WEYERHAEUSER Contract: 046-5751

Lab Code: WEYER Case No.: 2666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49947DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A2770

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. ____ Date Analyzed: 05/25/90

Column (pack/cap) CAP Dilution Factor: 5.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

800070

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02666 SAS No.: SDG No.: 800070

Matrix: (soil/water) WATER Lab Sample ID: 49931

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN0529C

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/29/90

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.

B00070

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02666 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49931

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN0529C

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/29/90

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

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CFR SAMPLE NO.

800074

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02660 SAS No.: SDG No.: 800070

Matrix: (soil/water) WATER Lab Sample ID: 49973

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN0529D

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/29/90

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.

B00074

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02666 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49933

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN0529D

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/29/90

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

0285

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00074

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02666 SAS No.: SDG No.: B00074

Matrix: (soil/water) WATER Lab Sample ID: 49933

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN05239D

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/29/90

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

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.50	6.3	JX
2. 115-96-8	ETHANOL, 2-CHLORO-, PHOSPHAT	21.67	150	JX

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00078

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02666 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49935

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN05296

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/29/90

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.

B00078

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02666 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49935

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN05I9G

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/29/90

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

0299

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

500078

Lab Name: WEYERHAEUSER Contract: SECHTOLD

Lab Code: WEYER Case No.: 02660 SAS No.: SDG No.: 500070

Matrix: (soil/water) WATER Lab Sample ID: 49935

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN05196

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/29/90

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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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0-083

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02665 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49938

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN0529H

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/29/90

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.

B00083

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02660 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49938

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN0529H

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/29/90

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

EPM SAMPLE NO.

B00083

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02666 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49938

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN0529H

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/29/90

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

03.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00087

Lab Name: WEYERHAEUSER Contract: SECHTOLD

Lab Code: WEYER Case No.: 02666 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49940

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN05291

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/90

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.

B00087

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02666 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49940

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN0529I

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/90

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.

B00087

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02665 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49940

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN05291

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/90

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.

B00091

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02666 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49942

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN0530H

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/30/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/90

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.

B00091

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02666 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49942

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN0530H

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/30/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/90

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.

B00091

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02656 SAS No.: SDG No.: B00091

Matrix: (soil/water) WATER Lab Sample ID: 49942

Sample wt/vol: 1000 (g/mL) mL Lab File ID: BN0[illegible]H

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/30/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/90

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

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	32.24	5.3	JA
2.	UNKNOWN	33.67	[illegible]	J
3.	UNKNOWN	35.14	12	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00095

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02666 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49944

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN0529K

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/90

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.

B00095

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02666 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49944

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN0529K

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/90

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

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B00095

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02660 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49944

Sample wt/vol: 1000 (g/mL) mL Lab File ID: BN0029K

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/90

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

FORM I SV-TIC 1/87 Rev.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00100

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02666 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49947

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN0529L

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/90

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

0353

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00100

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02666 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49947

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN0529L

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/90

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.

B00100

Lab Name: WEYERHAEUSER Contract: BECHTOLD

Lab Code: WEYER Case No.: 02666 SAS No.: SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49947

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BN0529L

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. dec. Date Extracted: 05/22/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/30/90

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

0355

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00070

Lab Name: WEYERHAEUSER Contract: 1100

Lab Code: WEYER Case No.: 02666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49931

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

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. __ dec. __ Date Extracted: 05/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 06/26/90

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.

B00074

Lab Name: WEYERHAEUSER Contract: 1100

Lab Code: WEYER Case No.: 02666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49933

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

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. __ dec. __ Date Extracted: 05/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 06/26/90

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

C514

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00078

Lab Name: WEYERHAEUSER Contract: 1100

Lab Code: WEYER Case No.: 02666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49935

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

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. __ dec. __ Date Extracted: 05/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 06/26/90

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.

B00083

Lab Name: WEYERHAEUSER Contract: 1100

Lab Code: WEYER Case No.: 02666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49938

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

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. __ dec. __ Date Extracted: 05/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 06/26/90

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

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00087

Lab Name: WEYERHAEUSER Contract: 1100

Lab Code: WEYER Case No.: 02666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49940

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

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. __ dec. __ Date Extracted: 05/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 06/26/90

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

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00091

Lab Name: WEYERHAEUSER Contract: 1100

Lab Code: WEYER Case No.: 02666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49942

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

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. __ dec. __ Date Extracted: 05/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 06/26/90

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

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00095

Lab Name: WEYERHAEUSER Contract: 1100

Lab Code: WEYER Case No.: 02666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49944

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

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. __ dec. __ Date Extracted: 05/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 06/26/90

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

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00100

Lab Name: WEYERHAEUSER Contract: 1100

Lab Code: WEYER Case No.: 02666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49947

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

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. __ dec. __ Date Extracted: 05/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 06/26/90

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

JUN 1990
RECEIVED
J.H. KESSNER

CASE NARRATIVE

WEYERHAEUSER (WEYER)
ANALYTICAL AND TESTING SERVICES

Case Number: 02666
SDG Number: B00070
Contract Number: 68-D9-0080

Samples from this case (02666) were received on 05/17/90. This case was comprised of waters for metals analysis. The requested analyses were as follows:

Sample ID	Matrix	Analysis Requested
B00070	WATER	METALS
B00070D	WATER	METALS
B00070S	WATER	METALS
B00071	WATER	METALS
B00071D	WATER	METALS
B00071S	WATER	METALS
B00074	WATER	METALS
B00075	WATER	METALS
B00078	WATER	METALS
B00079	WATER	METALS
B00083	WATER	METALS
B00084	WATER	METALS
B00087	WATER	METALS
B00088	WATER	METALS
B00091	WATER	METALS
B00092	WATER	METALS
B00095	WATER	METALS
B00096	WATER	METALS
B000F5	WATER	METALS
B00100	WATER	METALS

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

1. The spike recovery was outside the control limit for selenium which is flagged with an "N".

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 ICP serial dilution was outside the control limit for sodium which is flagged with an "E".

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.

Mary Beth Lanza 06/27/90

Mary Beth Lanza, Scientist
Analytical Chemistry Laboratories

Date

Please feel free to contract me with any questions concerning this data report. I can be reached at (206) 924-6013.

Sincerely,

Mary Beth Lanza

Mary Beth Lanza
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.: B00070

SOW No.: 7/88

EPA Sample No.	Lab Sample ID.
B00070	49931
B00070D	49931D
B00070S	49931S
B00071	49932
B00071D	49932D
B00071S	49932S
B00074	49933
B00075	49934
B00078	49935
B00079	49936
B00083	49938
B00084	49939
B00087	49940
B00088	49941
B00091	49942
B00092	49943
B00095	49944
B00096	49945
B000F5	49948
B00100	49947

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: Mary Beth Lanza Name: Mary Beth Lanza

Date: 06/27/90 Title: Scientist

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00070

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49931

Level (low/med): LOW Date Received: 05/17/90

% 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	136	B		P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	6.8	B	W	F
7440-39-3	Barium	52.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	54900			P
7440-47-3	Chromium	7.8	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.6	B		P
7439-89-6	Iron	34.6	B		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	13700			P
7439-96-5	Manganese	8.9	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	5150			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	20700		E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	9.4	B		P
7440-66-6	Zinc	4.2	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00071

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49932

Level (low/med): LOW Date Received: 05/17/90

% 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	119	B		P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	7.0	B	W	F
7440-39-3	Barium	49.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	54600			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	3.5	B		P
7439-89-6	Iron	24.4	B		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	13700			P
7439-96-5	Manganese	9.0	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	5300			P
7782-49-2	Selenium	2.1	B	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	20500		E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	9.8	B		P
7440-66-6	Zinc	3.6	B		P
	Cyanide				NR

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

omments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00074

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49933

Level (low/med): LOW Date Received: 05/17/90

% 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	121	B		P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	63.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	20100			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.6	B		P
7439-89-6	Iron	42.7	B		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	4980	B		P
7439-96-5	Manganese	210			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	45.6			P
7440-09-7	Potassium	4450	B		P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	26700		E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	2.3	B		P
	Cyanide				NR

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.

B00075

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49934

Level (low/med): LOW Date Received: 05/17/90

% 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	115	B		P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	63.6	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	20100			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	23.2	B		P
7439-92-1	Lead	2.7	B		F
7439-95-4	Magnesium	4980	B		P
7439-96-5	Manganese	201			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	4630	B		P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	25100		E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

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.

B00078

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49935

Level (low/med): LOW Date Received: 05/17/90

% 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	418			P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.2	B	W	F
7440-39-3	Barium	97.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	97700			P
7440-47-3	Chromium	6.7	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	627			P
7439-92-1	Lead	54.0			F
7439-95-4	Magnesium	20900			P
7439-96-5	Manganese	44.6			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	8950			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	30600		E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	6.4	B		P
7440-66-6	Zinc	6.7	B		P
	Cyanide				NR

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

omments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00079

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49936

Level (low/med): LOW Date Received: 05/17/90

% 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	136	B		P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.1	B		F
7440-39-3	Barium	96.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	96200			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.7	B		P
7439-89-6	Iron	18.2	B		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	20300			P
7439-96-5	Manganese	27.7			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	9140			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	30200		E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	5.5	B		P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

omments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00083

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49938

Level (low/med): LOW Date Received: 05/17/90

% 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	194	B		P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	95.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	96500			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	139			P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	21100			P
7439-96-5	Manganese	165			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	10100			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	33000		E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	4.5	B		P
7440-66-6	Zinc	2.3	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.

B00084

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49939

Level (low/med): LOW Date Received: 05/17/90

% 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	135	B		P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	97.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	96700			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	34.6	B		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	21200			P
7439-96-5	Manganese	160			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	9970			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	32700		E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	4.0	B		P
7440-66-6	Zinc	3.7	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.

B00087

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49940

Level (low/med): LOW Date Received: 05/17/90

% 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	331			P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.5	B		F
7440-39-3	Barium	113	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	115000			P
7440-47-3	Chromium	17.0			P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	5.3	B		P
7439-89-6	Iron	388			P
7439-92-1	Lead	2.0	U	W	F
7439-95-4	Magnesium	23800			P
7439-96-5	Manganese	41.2			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	9040			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	32800		E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	7.3	B		P
7440-66-6	Zinc	2.0	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.

B00088

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49941

Level (low/med): LOW Date Received: 05/17/90

% 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	110	B		P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.7	B		F
7440-39-3	Barium	111	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	116000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	45.5	B		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	23900			P
7439-96-5	Manganese	36.8			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	8910			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	32900		E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	6.4	B		P
7440-66-6	Zinc	2.0	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.

B00091

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49942

Level (low/med): LOW Date Received: 05/17/90

% 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	137	B		P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	3.6	B		F
7440-39-3	Barium	114	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	116000			P
7440-47-3	Chromium	16.8			P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	3.5	B		P
7439-89-6	Iron	99.5	B		P
7439-92-1	Lead	2.0	U	W	F
7439-95-4	Magnesium	23800			P
7439-96-5	Manganese	38.4			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	9150			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	33000		E	P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	7.4	B		P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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EPA SAMPLE NO.

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INORGANIC ANALYSIS DATA SHEET

B00092

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49943

Level (low/med): LOW Date Received: 05/17/90

% 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	98.2	B		P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	114	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	117000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	5.2	B		P
7439-89-6	Iron	58.6	B		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	24600			P
7439-96-5	Manganese	40.2			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	8960			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	33700		E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	4.4	B		P
7440-66-6	Zinc	21.4			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.

B00095

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49944

Level (low/med): LOW Date Received: 05/17/90

% 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	157	B		P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	3.3	B		F
7440-39-3	Barium	104	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	107000			P
7440-47-3	Chromium	16.3			P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	6.1	B		P
7439-89-6	Iron	79.5	B		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	22800			P
7439-96-5	Manganese	109			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	8800			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	31400		E	P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	8.4	B		P
7440-66-6	Zinc	7.2	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.

B00096

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49945

Level (low/med): LOW Date Received: 05/17/90

% 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	94.1	B		P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	3.3	B		F
7440-39-3	Barium	97.9	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	104000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.6	B		P
7439-89-6	Iron	24.5	B		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	21900			P
7439-96-5	Manganese	96.8			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	8510			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	30500		E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	6.0	B		P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

omments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B000F5

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49948

Level (low/med): LOW Date Received: 05/17/90

% 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	125	B		P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	105	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	114000			P
7440-47-3	Chromium	7.9	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	6.1	B		P
7439-89-6	Iron	36.9	B		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	25300			P
7439-96-5	Manganese	216			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	10300			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	35200		E	P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	5.0	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00100

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49947

Level (low/med): LOW Date Received: 05/17/90

% 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	17.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	105	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	112000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	5.2	B		P
7439-89-6	Iron	34.0	B		P
7439-92-1	Lead	2.4	B	W	F
7439-95-4	Magnesium	24600			P
7439-96-5	Manganese	214			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	10100			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	34300		E	P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	4.2	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SDG#	B00070
SAS#	
CASE #	

Weyerhaeuser Company

Analytical Laboratories
Tacoma, Washington

Form 1

Request #	2666

	EPA Samp. No.	Matrix	Level	% Solids	Date Rec'd	Color Before	Color After	Clarity Before	Clarity After	Texture
1		W	L		5/17					
2	B00070					colorless	colorless	clear	clear	
3	~~B00070~~									
4	~~B00070S~~									
5	B00071									
6	~~B00071D~~									
7	~~B00071S~~									
8	B00074									
9	B00075									
10	B00078									
11	B00079									
12	B00083									
13	B00084									
14	B00087									
15	B00088									
16	B00091									
17	B00092									
18	B00095									
19	B00096									
20	B00100									
21	B000FS									

MKB 6/26/90

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

C84

ANALYTICAL WORKSHEET

Weyerhaeuser Company
Analytical Laboratories
Tacoma, Washington

Client/Case Westinghouse	Service Req. No./SDG# 2666/B00070
Analysis for: GFAAS METALS	Method Number: CLP WATER DIGEST

DATA

Sample Number	Client Sample Number	Aliquot (mL, as rec'd)	Final Dilution (mL)	Matrix	Comments
PBW	PBW	100	100	1% HNO3	
LCSW	LCSW				
49931	B00070				
49931D	B00070D				
49931S	B00070S				
49932	B00071				
49932D	B00071D				
49932S	B00071S				
49933	B00074				
49934	B00075				
49935	B00078				
49936	B00079				
49938	B00083				
49939	B00084				
49940	B00087				
49941	B00088				
49942	B00091				
49943	B00092				
49944	B00095				
49945	B00096				
49947	B00100				
49948	B000F5				

Comments: LCSW= ICV-2(0590) 1/20 + ICV-4(0389) 1/10

Analyst S.L	Date 05/30/90	NB Number
Witness	Date	Page Number

ANALYTICAL WORKSHEET

Weyerhaeuser Company
Analytical Laboratories
Tacoma, Washington

Client/Case Westinghouse	Service Req. No./SDG# 2666/B00070
Analysis for: ICP METALS	Method Number: CLP WATER DIGEST

DATA

Sample Number	Client Sample Number	Aliquot (mL, as rec'd)	Final Dilution (mL)	Matrix	Comments
PBW	PBW	100	100	1% HNO3, 5% HCl	
LCSW	LCSW				
49931	B00070				
49931D	B00070D				
49931S	B00070S				
49932	B00071				
49932D	B00071D				
49932S	B00071S				
49933	B00074				
49934	B00075				
49935	B00078				
49936	B00079				
49938	B00083				
49939	B00084				
49940	B00087				
49941	B00088				
49942	B00091				
49943	B00092				
49944	B00095				
49945	B00096				
49947	B00100				
49948	B000F5				

Comments: LCSW= ICV-1(0489) 1/10 + ICV-3(0189) 1/10

Analyst S. L	Date 05/30/90	NB Number
Witness	Date	Page Number

SR 02666

WEYERHAEUSER TECHNOLOGY CENTER
Analytical Laboratories
Tacoma, Washington

TOC REPORT
WESTINGHOUSE 1100 RI/FS

SUBMITTER'S DESIGNATION	SAMPLE NUMBER	TOC C mg/L AS REC'D BASIS	DATE ANALYZED	DATE SAMPLED
B00070	49931	0.8	6/6/90	5/14/90
B00074	49933	1.0	6/6/90	5/14/90
B00078	49935	1.2	6/6/90	5/14/90
B00083	49938	1.2	6/6/90	5/15/90
B00087	49940	2.1	6/6/90	5/15/90
B00091	49942	1.0	6/6/90	5/15/90
B00095	49944	1.6	6/6/90	5/15/90
B00100	49947	1.8	6/6/90	5/15/90

Approved Kim Dorsee Date 6/27/90 Notebook 000001

SR 02666

WEYERHAEUSER TECHNOLOGY CENTER
Analytical Laboratories
Tacoma, Washington

SUBMITTER'S DESIGNATION	SAMPLE NUMBER	TOC C mg/L AS REC'D BASIS
800070	49931	0.8
800070	49931 DUPL.	0.6
	RPD	25.7

SUBMITTER'S DESIGNATION	SAMPLE NUMBER	TOC C mg/L AS REC'D BASIS
800070	49931	0.8
800070	49931 SPIKE	11.2
	SPIKE ADDED	11.1
	% RECOVERY	93.8

Approved Ken Dorsee Date 6/27/90 Notebook 000002

ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser Research and Development - Analysis and Testing

Request Number:	02666

Title: WESTINGHOUSE WATER SAMPLES PROJECT 1100 AREA RI/FS		
Number of Samples: 18	Project Number: 046-5751	Groups: 1,3,4,7,A,V,
Date Received: 05/17/90	Date Desired: 06/01/90	Estimated Completion Date: 06/01/90
Submitted By: BECHTOLD, BECKY/ KHD	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 ******

NOTE METHODS LISTED

Group	Series	Test Code	Test Description		
			Report Range	Report Basis	Lower Limit of Sensitivity
1	A	CLP/ORG	Westinghouse - Organic CLP Deliverables		
3	B	CLPINOR3	Westinghouse - Inorganic Group 3 CLP Deliverables		
3	D	CLPINOR3	DISSOLVED- Westinghouse - Inorganic Group 3 CLP Deliverables		
4	C	CLPINOR4	Westinghouse - Inorganic Group 4 CLP Deliverables		
4	E	ALKA	Alkalinity SM403		
4	E	AOX	Absorbable Organic Halides (TOX) 9020		
4	E	COD	COD 410.1		
4	E	COND	Specific Conductivity of water 120.1		
4	E	NH3-N	Nitrogen, Ammonia in water 350.1		
4	E	NO3-W	Nitrate/Nitrite-Nitrogen in Water 353.2		
4	E	PH-WATER	pH of waters 150.1		
4	E	SO4-W	Sulfate, Turbidimetric in water 375.4		
4	E	SOL-TDS	Total Dissolved solids 160.1		
4	E	TURB	Turbidity 180.1		

Interim Report Desired?	Hazardous Samples? Yes		No	
Reference:				Record Book:
Results Approved:	Date: 6-22-90	Signature applies to attached pages		Page Number: 000001

Printed on: 05/17/90

Weyerhaeuser

ANALYTICAL LABORATORY SERVICES REQUEST

Research and Development - Analysis and Testing

Request Number: 02666

Group	Series	Test Code	Test Description		
			Report Range	Report Basis	Lower Limit of Sensitivity

7	F	NO CODE7 SO4/7, CL-DION, NO3-W, PO4 = ANIONS
7	F	TOC-LL/7 Total organic carbon - low level - ampule 415.1

Sample Number	Series to Be Evaluated	Submitter's Designation	
49931	ABC EF	B00070	
49932	D	B00071	
49933	ABC EF	B00074	
49934	D	B00075	
49935	ABC EF	B00078	
49936	D	B00079	
49937	A	B00082	VOA ONLY
49938	ABC EF	B00083	
49939	D	B00084	
49940	ABC EF	B00087	
49941	D	B00088	
49942	ABC EF	B00091	
49943	D	B00092	
49944	ABC EF	B00095	
49945	D	B00096	
49946	A	B00099	VOA ONLY
49947	ABC EF	B00100	
49948	D	B000F5	

WEYERHAEUSER TECHNOLOGY CENTER
Analytical Laboratories
Tacoma, Washington

REPORT

Westinghouse Water Samples
1100 Area R1/FS

Sample Description	Analytical Lab Code	pH	Turbidity NTU	Specific Conductance µs/Cm	TDS mg/L	Alkalinity mg/L $CaCO_3$	COD mg/L
B00070	49931	7.9; 7.9	0.4; 0.2	480; 480	340	160	8; 8
B00074	49933	8.1	0.5	260	220	94	9
B00078	49935	7.7	11	800	580	150	9
B00083	49938	7.7	0.6	800	580	150	10
B00087	49940	7.6	8	900	660	180	9
B00091	49942	7.6	2	900	310	180	8
B00095	49944	7.7	1	870	620	170	9
B00100	49947	7.7	0.3	920	700	180	14

Sample Description	Analytical Lab Code	NH_3-N mg/L	NO_3-NO_2-N mg/L	SO_4 mg/L	AOX mg/L	CN mg/L	TP mg/L
B00070	49931	<0.02	7.2	27; 28	<0.01	<0.01	0.04
B00074	49933	0.06	<0.05; <0.05	29	0.09; 0.10	<0.01	0.06
B00078	49935	0.11; 0.11	39.4	78	<0.01	<0.01	0.04
B00083	49938	0.81	43.4	77	0.01	<0.01	0.05
B00087	49940	<0.02	52.1	75	0.06	<0.01	0.03
B00091	49942	<0.02	50.4	75	0.06	<0.01; <0.01	0.03
B00095	49944	0.18	47.6	69	0.06	<0.01	0.03
B00100	49947	0.94	52.3	86	0.06	<0.01	0.02; 0.02

Notebook _____

Approved Marine Rad Date 6-22-90 Page Number _____

000003

ANALYTICAL LABORATORY SERVICES REQUEST

Requesting Division: Research and Development - Analysis and Testing

Request Number: 02666

Title: WESTINGHOUSE WATER SAMPLES PROJECT 1100 AREA RI/FS		
Number of Samples: 18	Project Number: 046-5751	Groups: 1,3,4,7,A,V,
Date Received: 05/17/90	Date Desired: 06/01/90	Estimated Completion Date: 06/01/90
Submitted By: BECHTOLD, BECKY/ KHD	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 ******

NOTE METHODS LISTED

Group	Test Code	Test Description		
		Report Range	Report Basis	Lower Limit of Sensitivity
1	A	CLP/ORG	Westinghouse - Organic CLP Deliverables	
3	B	CLPINOR3	Westinghouse - Inorganic Group 3 CLP Deliverables	
3	D	CLPINOR3	DISSOLVED- Westinghouse - Inorganic Group 3 CLP Deliverables	
4	C	CLPINOR4	Westinghouse - Inorganic Group 4 CLP Deliverables	
4	E	ALKA	Alkalinity SM403	
4	E	AOX	Absorbable Organic Halides (TOX) 9020	
4	E	COD	COD 410.1	
4	E	COND	Specific Conductivity of water 120.1	
4	E	NH3-N	Nitrogen, Ammonia in water 350.1	
4	E	NO3-W	Nitrate/Nitrite-Nitrogen in Water 353.2	
4	E	PH-WATER	pH of waters 150.1	
4	E	SO4-W	Sulfate, Turbidimetric in water 375.4	
4	E	SOL-TDS	Total Dissolved solids 160.1	
4	E	TURB	Turbidity 180.1	

Interim Report Desired?	Hazardous Samples? Yes		No	
Reference				Record Book:
Results Approved:	Date: 6 26 90	Signature applies to attached pages		Page Number: 002

ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser Research and Development - Analysis and Testing

Request Number 02666

Group	Series	Test Code	Test Description		
			Report Range	Report Basis	Lower Limit of Sensitivity

7 F NO CODE7 SO4/7, CL-DION, NO3-W, PO4 = ANIONS

7 F TOC-LL/7 Total organic carbon low level - ampule 415.1

Sample Number	Series to be Evaluated	Submitter's Designation	
49931	ABC EF	B00070	
49932	D	B00071	
49933	ABC EF	B00074	
49934	D	B00075	
49935	ABC EF	B00078	
49936	D	B00079	
49937	A	B00082	VOA ONLY
49938	ABC EF	B00083	
49939	D	B00084	
49940	ABC EF	B00087	
49941	D	B00088	
49942	ABC EF	B00091	
49943	D	B00092	
49944	ABC EF	B00095	
49945	D	B00096	
49946	A	B00099	VOA ONLY
49947	ABC EF	B00100	
49948	D	B00F5	

SR 02666

WEYERHAEUSER TECHNOLOGY CENTER
Analytical Laboratories
Tacoma, Washington

ANION REPORT
WESTINGHOUSE 1100 RI/FS

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	SULPHATE SO4 mg/L AS REC'D BASIS	DATE ANALYZED	DATE SAMPLED
B00070	49931	0.3	15.6	<0.2	6.7	<0.5	30.3	5/17/90 6/6/90	[illegible]4/90
B00074	49933	0.3	2.4	<0.2	<0.1	<0.5	29.8	5/17/90 6/6/90	[illegible]14/90
B00078	49935	0.3	16.9	0.2	36.9	<0.5	78.6	5/17/90 6/6/90	5/14/90
B00083	49938	0.3	17.2	0.2	40.5	<0.5	85.3	5/17/90 6/6/90	[illegible]15/90
B00087	49940	0.3	16.0	<0.2	49.0	<0.5	81.7	5/17/90 6/6/90	[illegible]15/90
B00091	49942	0.3	16.2	<0.2	48.3	<0.5	81.8	5/17/90 6/6/90	[illegible]15/90
B00095	49944	0.5	14.7	0.2	44.9	<0.5	72.8	5/17/90 6/6/90	[illegible]15/90
B00100	49947	0.3	15.5	<0.2	50.9	<0.5	86.8	5/17/90 6/6/90	[illegible]15/90

Approved [signature] Date 6/27/90 Notebook ~~0-~~ 004

ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser Research and Development Analyses and Testing

Request Number: 02666

Title: WESTINGHOUSE WATER SAMPLES PROJECT 1100 AREA RI/FS			
Number of Samples: 18	Project Number: 046-5751 6/1		Groups: 1,3,4,7,A,V,
Date Received: 05/17/90	Date Desired: ~~06/01/90~~ 35 days		Estimated Completion Date: 06/01/90
Submitted By: BECHTOLD, BECKY/ KHD	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 ******

NOTE METHODS LISTED

Group	Series	Test Code	Test Description		
			Report Range	Report Basis	Lower Limit of Sensitivity
1	A	CLP/ORG	Westinghouse - Organic CLP Deliverables		
3	B	CLPINOR3	Westinghouse - Inorganic Group 3 CLP Deliverables		
3	D	CLPINOR3	DISSOLVED- Westinghouse - Inorganic Group 3 CLP Deliverables		
4	C	CLPINOR4	Westinghouse Inorganic Group 4 CLP Deliverables		
4	E	ALKA	Alkalinity SM403		
4	E	AOX	Absorbable Organic Halides (TOX) 9020		
4	E	COD	COD 410.1		
4	E	COND	Specific Conductivity of water 120.1		
4	E	NH3 N	Nitrogen, Ammonia in water 350.1		
4	E	NO3 W	Nitrate/Nitrite-Nitrogen in Water 353.2		
4	E	PH-WATER	pH of waters 150.1		
4	E	SO4-W	Sulfate, Turbidimetric in water 375.4		
4	E	SOL-TDS	Total Dissolved solids 160.1		
4	E	TURB	Turbidity 180.1		

16 waters

assuming all samples are digested in one batch →

only need 1 PBW + 1 LCS but do a dup + spike on both a total + a dissolved samp

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

Revision 05 17 '90 Page 01

070

ANALYTICAL LABORATORY SERVICES REQUEST

Weyerhaeuser Research and Development Analysis and Testing

Request Number: 02666

Group	Series	Test Code	Test Description		
			Report Range	Report Basis	Lower Limit of Sensitivity

7 F NO CODE7 SO4/7, CL-DION, NO3-W, PO4 ANIONS

7 F TOC-LL/7 Total organic carbon - low level - ampule 415.1

Sample Number	Series to Be Evaluated	Submitter's Designation
49931	ABC EF	B00070 — QC
49932	D	B00071 — QC
49933	ABC EF	B00074
49934	D	B00075
49935	ABC EF	B00078
49936	D	B00079
~~49937~~	A	B00082 VOA ONLY
49938	ABC EF	B00083
49939	D	B00084
49940	ABC EF	B00087
49941	D	B00088
49942	ABC EF	B00091 — CN QC
49943	D	B00092
49944	ABC EF	B00095
49945	D	B00096
~~49946~~	A	B00099 VOA ONLY
49947	ABC EF	B00100
49948	D	B00015

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

	DATE	TIME
WEYCO SHIPPING/RECEIVING	5.17.90	1200 noon
WEYCO SAMPLE MANAGEMENT	5.17.90	1200 noon

OPENING OF COOLER:	1330	1330	1330	1330
TEMPERATURE:	3.3	2.9	2.2	3.0
SAMPLES RECEIVED:	B00078	B00100	B00070	B00080
	79	B00F5	71	88
	83	95	72	91
	84	96	74	92
	99		75	

COMMENTS:

pH mcL - 6.2
pH CN - >10
Sulfide - —

CONFIRMATION:

CALLED WESTINGHOUSE: ____

MAILED TALLY RECORD: [illegible]

MAILED PAPER WORK: ____

ALL PAGES SIGNED: ____

OVERNIGHT DELIVERY

Signature Security Services

Contractor	OFF-SITE PROPERTY CONTROL	CONTROL NUMBER (To be obtained from PROPERTY MANAGEMENT)
Westinghouse Hanford Co.		W90[illegible]006 #78

PART I - TO BE COMPLETED BY ORIGINATOR

Department	Section	Unit
Env. Eng & Tech.	Geosciences	Hydrology

The following items are to be shipped from ☒ Contractor ☐ Vendor

Routing ~~Federal Express~~ EMERY ☒ Contractor ☐ Vendor

Shipped to	Off Site Custodian
Weyerhaeuser Co. 32901 32nd Dr. So. Federal Way, Wa 98003	KAZ[illegible]
	Full Title

Quantity	Description (Include Serial and any Government Tag Numbers)	Original Cost
1	Gen # 32 [illegible] IN WET ICE [illegible]	N/A
1	Gen # 86 Polycooler. Groundwater samples packed in wet ice and vermiculite Sample #: [illegible]	N/A

☐ Classified ☒ Unclassified ☐ Shipped Under DOE Contract ☐ Shipped Under Contractor's Use Permit Contract

Necessity for the Off-Site Use of this Property

Sampling support RI/FS work in the 1100 area

Bill of Lading #: 2355318160

CERTIFICATION OF THE RADIATION MONITORING RELEASE MUST BE SECURED THE SAME DAY THAT MATERIAL IS DELIVERED TO SHIPPING

RM Clearance for Public Release	RM Survey No	Date

Location of Property (Area & Bldg)	Contact	Phone
1100 EM-1	B. H. Ford	(509) 376-6465

Date Ready for Shipment	Cost Code to be Charged	Approximate Date This Property will be Returned
3/16/[illegible]	W80230	N/A

Originated By	Date	Authorized By	Date
[illegible]	3/[illegible]	[illegible]	3/[illegible]

Signature and Name of Property Control	Custodian Date	Property Management Approval	Date
			3/16/[illegible]

PART II - TO BE COMPLETED BY SHIPPING

Signature of Recipient	Return Order No	Date Issued	Purchase Order No	Date Issued
Date [illegible]				

DISTRIBUTION

By Originator	Shipping Operation - Sign all Copies and Forward to [illegible] 073
White, Green, Yellow, Pink - Property Management Goldenrod - Retain	White - Property Management Green - Property Control Custodian (Issuing Office) Yellow - Retain Pink - Originator

54 3000 479 (09 89)

OVERNIGHT DELIVERY

Signature Security Services

Contractor	OFF-SITE PROPERTY CONTROL	CONTROL NUMBER (To be obtained from PROPERTY MANAGEMENT)
Westinghouse Hanford Co.		W90-0-0006#79

PART I – TO BE COMPLETED BY ORIGINATOR

Department	Section	Unit
Env. Eng. & Tech.	Geosciences	Hydrology

The following items are to be shipped from ☒ Contractor ☐ Vendor

Routing ~~Federal Express~~ ☒ Contractor ☐ Vendor

Shipped to	Off site Custodian
Weyerhaeuser Co. 32901 32nd Dr. So. Federal Way, WA 98003	EARL DUNKEL
	Full Title MANAGER

Quantity	Description (Include Serial and any Government Tag Numbers)	Original Cost
1	GOTT #30 POLYCOOLER. GROUNDWATER SAMPLES PACKED IN WET ICE AND VERMICULITE SAMPLE #: B00070, B00071, B00072	N/A
1	IDAHO #16 Polycooler. Groundwater samples packed in wet ice and vermiculate Sample #: B00073, B00077, B00083, B00084, B00079	N/A

☐ Classified ☒ Unclassified ☐ Shipped Under DOE Contract ☐ Shipped Under Contractor's Use Permit Contract

Necessity for the Off Site Use of this Property

Sampling support RI/FS work in the 1100 area

Bill of Lading #: 2353519170

CERTIFICATION OF THE RADIATION MONITORING RELEASE MUST BE SECURED THE SAME DAY THAT MATERIAL IS DELIVERED TO SHIPPING

RM Clearance for Public Release	RM Survey No	Date

Location of Property (Area & Bldg.)	Contact	Phone
1100 EM-1	B H Ford	(509) 376-6465

Date Ready for Shipment	Cost Code to be Charged	Approximate Date This Property will be Returned
	W80230	N/A

Originated By	Date	Authorized By	Date

Signature and Name of Property Control	Custodian Date	Property Management Approval	Date

PART II – TO BE COMPLETED BY SHIPPING

Signature of Recipient	Return Order No	Date Issued	Purchase Order No	Date Issued
Date				

DISTRIBUTION

By Originator	Shipping Operation – Sign all Copies and Forward to
White, Green, Yellow, Pink – Property Management Goldenrod – Retain	White – Property Management Green – Property Control Custodian (Issuing Office) Yellow – Retain Pink – Originator

54-3000-279 (09/89)

EMERY&Purolator

SIGNATURE SECURITY SERVICE

DATE: 5-16-90 SHIPMENT NO: 2353598170
SHIPPER WESTINGHOUSE HANFORD SHIPPING
REFERENCE NO: W90-0-006 #78, W90-0-0006 #79

SHIPPER NAME AND ORIGIN	CONSIGNEE NAME AND DESTINATION
WESTINGHOUSE SHIPPING DEPT (509) 376-6665 WESTINGHOUSE HANFORD CO 2355 STEVENS DR BLDG 1163 RICHLAND WA 99352	WEYERHAEUSER CO 32901 32ND DR. SO. FEDERAL WAY WA 98003

Pieces	Weight	Description Marks
4	302	3 GOTT POLYCOOLER #32, #86, #30 1 IGLOO POLYCOOLER #16 WATER SAMPLES

EACH PERSON HANDLING OR TAKING CUSTODY OF THIS SHIPMENT MUST SIGN AND COMPLETE THE INFORMATION BELOW

Name of Person Company	Transship Point Destination	Signature of Person Accepting Custody	Time Date
JOYCE DEMAREST WESTINGHOUSE HANFORD CO	Richland WA	Joyce K Demarest	5/16/90
LARRY HORTON EMERY AIR	RICHLAND WA	Larry Horton	5/16/90
Horizon Air Jim Hammer	PASCO	Jim Hammer	1630 5/16/90
BONNIE CHAPPEL	WENCO	Bonnie Chappel	1600 5/16/90

SPECIAL HANDLING INSTRUCTIONS

CP-29 6 88

075

Westinhouse Ha.: Company

N OF CUSTODY

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

:ple Collected by W. A. JORDAN Date 5/14/90 Time 0930

Samcle Locations 1100-EM-1

:ce Chest No. BOTT #30 Field Logbook and Page No. WHC-N-370 p. 22

Remarks NONE

2353578170

Bill of Lading No. 235359816 Tpu 5/14/90 Offsite Property No. W90-0006 #79

Method of Shipment ~~AIRBORNE~~ EMERY

Shipped to WEYERHAEUSER

Sample Identification

B0007Ø

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

(1) 4l, amber, water, CLP-~~[illegible]~~ Semi 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, Ammonia/COD/NO_3/NO_2, 2ml H_2SO_4

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

B0007Ø2

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

B0007Ø1 5/14/90

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

Chain of Possession

Relinquised by:	Received by:	Date/Time:
W.A. Jordan W A Jordan	Richard L. Schroeder	5-14-90 5:36 p.m.
Richard R. Schroeder	BH Ford	5/16/90 11:20
BH Ford BH Ford	J. Demarest	5/16/90 11:55
J. DEMAREST J. Demarest	BONNIE CHAPPELL Bonnie Chappell	5-17-90 1200

078

17

A-6000-407 (07/89)

Westinhouse Hanfo Company

(J OF CUSTODY

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

:ple Collected by W. A. JORDAN Date 5/14/90 Time 12:00.

Sample Locations 1100-EM-1

Ice Chest No. COOLER #30 Field Logbook and Page No. WHC-N-570 p.23

Remarks NONE

235559817 0

Bill of Lading No. ~~235559817~~ 5/11/90 Offsite Property No. WA0-0006 #99

Method of Shipment ~~AIRBORNE~~ EMERY

Shipped to WEYERHAEUSER

Sample Identification

BØØØ 74
(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

~~BØØØ- wal 5/14/90.~~
~~(3) 40 ml, amber, water, CLP-VOA~~

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

Chain of Possession

Relinquished by:	Received by:	Date/Time:
W.A. Jordan	[illegible]	5-14-90 3:36 p.m.
Relinquished by: [illegible]	Received by: [illegible] BH Ford	Date/Time: 5/16/90 11:20
Relinquished by: [illegible] BH Ford	Received by: J. Demarest [illegible]	Date/Time: 5/16/90 11:55
Relinquished by: J. Demarest [illegible]	Received by: B. CHAPPEL B. Chappel	Date/Time: 5.17.90 12:00

077

A-6000-407 (07/89)

Westinhouse Hanf Company

N OF CUSTODY

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

Sample Collected by W. A. JORDAN Date 5/14/90 Time ~~XX~~ 5/14/90 1330

Sample Locations 1100-EM-1

Ice Chest No. IC1100 #16 Field Logbook and Page No. WHC-N-370 p 23

Remarks NONE

Bill of Lading No. ~~235359867~~ 235359816 Offsite Property No. W90 00016 #79

Method of Shipment ~~AIRBORNE~~ EMERY

Shipped to WEYER HAEUSER

Sample Identification

BØØØ78

(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

~~BØØØ~~ W.A. Jordan 5/14/90

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

BØØØ77

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

Chain of Possession

Relinquised by:	Received by:	Date/Time:	
W.A. Jordan W.A. Jordan	Richard A. Schroeder	5-14-90	3:36 p.m.
Richard A. Schroeder	BH Ford BH Ford	5/16/90	11:20
BH Ford BH Ford	J Demarest J Demarest	5/16/90	11:55
J Demarest J Demarest	B Chappel B. Chappel	5-17-90	1200

A-6000-407 (07/89)

Westinhouse Hanf Company

( ) OF CUSTODY

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

Sample Collected by W. A. JORDAN Date 5/15/90 Time 0758.

Sample Locations 1100-EM-1

Ice Chest No. IC100 #16 Field Logbook and Page No. WHC-N-370 p.23

Remarks NONE

Bill of Lading No. ~~235359816T~~ 235258170 Offsite Property No. W90-00016 #79

Method of Shipment ~~PXB AIRBORNE~~ EMERY

Shipped to WEYERHAEUSER

Sample Identification

B0003 3
(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

B0003 9
(3) 40ml, amber, water, CLP-VOA

B0003 4
(1) 1l, plastic, CLP-Metal, 2ml HNO_3, filtered

Chain of Possession

Relinquised by:	Received by:	Date/Time:
W.A. Jordan / W.A. Jordan	B.H. Ford / B.H. Ford	5/15/90 16:20
Relinquised by: B.H. Ford / B.H. Ford	Received by: J. DEMAREST / J. Demarest	Date/Time: 5/16/90 11:55
Relinquised by: J. DEMAREST / J. Demarest	Received by: B CHAPPEL / B Chappel	Date/Time: 5.17.90 1200
Relinquised by:	Received by:	Date/Time:

C79

A-6000-407 (07/89)

Westinhouse Hanf Company	CHAIN OF CUSTODY

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

Sample Collected by: W. A. JORDAN — Date: 5/15/90 — Time: 09:40

Sample Locations: 1100-EM-1

Ice Chest No.: ACTT #32 — Field Logbook and Page No.: WHC-N-370 p24

Remarks: NONE
235359817 0

Bill of Lading No.: ~~235359816 T~~ 5/16/90 — Offsite Property No.: W90-0006 #78

Method of Shipment: ~~AIRBORNE~~ EMERY

Shipped to: WEYERHAEUSER

Sample Identification

BØØØ87
(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

~~BØØØ~~ W.A. Jordan 5/15/90
~~(3) 40 ml, amber, water, CLP-VOA~~

BØØØ88
(1) 1l, plastic, CLP-Metal, 2ml HNO_3, filtered

Chain of Possession

Relinquised by:	Received by:	Date/Time:
W.A. Jordan / W.A. Jordan	BH Ford / BH FORD	5/15/90 1620
BH Ford / BH FORD	J Demarest / J Demarest	5/16/90 11:55
J Demarest / J Demarest	B. CHAPPEL / B. Chappel	5-17-90 1200

A-6000-407 (07/89)

Westinhouse Hanf
Company

C:) USTOD

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

Sample Collected by: W. A. JORDAN Date: 5/15/90 Time: 09:40

Sample Locations: 1100-EM-1

Ice Chest No.: ACTT #32 Field Logbook and Page No.: WHC-N-370 p 24

Remarks: NANE
235359817 D

Bill of Lading No.: ~~235359816 F~~ 5/16/90 Offsite Property No.: W90-0006 #78

Method of Shipment: ~~AIRBORNE~~ EMERY

Shipped to: WEYERHAEUSER

Sample Identification

B0001 91
(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

~~B0001~~ W.A. Jordan 5/15/90
~~(3) 40 ml, amber, water, CLP-VOA~~

B0002 91
(1) 1l, plastic, CLP-Metal, 2 ml HNO_3, filtered

Chain of Possession

Relinquised by:	Received by:	Date/Time:
W.A. Jordan	BH Ford	5/15/90 1620
BH Ford	J. DEMAREST	5/16/90 11:55
J. DEMAREST	B. CHAPPEL	5.17.90 1200

A-6000-407 (07/89)

Westinhouse Hanf Company

C: OF CUSTODY

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

ple Collected by W. A. JORDAN Date 5/15/90 Time 11:35

Sample Locations 1100-EM-1

Ice Chest No. GOTT #86 Field Logbook and Page No. WHC-N-370 p 24

Remarks NONE

Bill of Lading No. ~~2353598117~~ 2353548170 Offsite Property No. W90-00006 #78

Method of Shipment ~~PP AIRBORNE~~ EMERY

Shipped to WEYER HAEUSER

Sample Identification

B0005 95

(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

~~B0005~~ W.A. Jordan 5/15/90

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

B0006 96.

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

Chain of Possession

Relinquised by:	Received by:	Date/Time:
W.A. Jordan W.A. Jordan	BH Ford BH FORD	5/15/90 1620
Relinquised by: BH Ford BH FORD	Received by: J. Demarest J. DEMAREST	Date/Time: 5/16/90 11:55
Relinquised by: J. Demarest J. DEMAREST	Received by: D. CHAPPEL B. Chappel	Date/Time: 5.17.90 1200
Relinquised by:	Received by:	Date/Time:

082

A-6000-407 (07/89)

Westinhouse Hanfor Company

C. OF CUSTODY

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

Sample Collected by W. A. JORDAN Date 5/15/90 Time 13:26

Sample Locations 1100-EM-1

Ice Chest No. GOTT #86 Field Logbook and Page No. WHC-N-370 p 24

Remarks NONE

Bill of Lading No. ~~235359817~~ 2353593170 Offsite Property No. W290-00006 #78

Method of Shipment ~~PPD AIRBORNE~~ EMERY

Shipped to WEYERHAEUSER

Sample Identification

B0001 00

(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

~~B0001 5~~ WA Jordan 5/15/90

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

B0001 5

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

Chain of Possession

Relinquised by:	Received by:	Date/Time:
W.A. Jordan W.A. Jordan	BH Ford BH FORD	5/15/90 16:20
BH Ford BH FORD	J DEMAREST J Demarest	5/16/90 11 55
J. DEMAREST J Demarest	B. Chappel B. Chappel	5.17-90 1200

A-6000-407 (07/89)

Westinghouse
Hanford Company

OSM RCRA LEVEL C/CLP-SAS DATA ASSESSMENT

DATE 08/07/90

REVIEWED BY JA Lerch

LABORATORY Weyerhaeuser

CASE # NA

SDG # SR 2606

SAMPLES/MATRIX B00070 B00091 ____
B00074 B00095 ____
B00078 B00100 ____
B00083 ____ ____
B00087 ____ all water

DATA ASSESSMENT SUMMARY

QUALITY CONTROL CHECK	ANALYSIS	TOC	Anions	Water Lab Data (See Notes)
1. Holding Time		O	O	O
2. Spike Recovery		O	O	O
3. Duplicate Analysis		O	O	X
4. Calibrations		O	O	O
5. Laboratory Control Sample		O	O	O
6. Blanks		O	X	O
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 with qualification

NOTES: Water Lab Data includes pH, Turbidity, Conductivity, TDS, Alkalinity, COD, Nitrate/Nitrite, Nitrogen-Ammonia, Sulfate, TOX, CN, TP

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

54 /900 046

RCRA LEVEL C/CLP-SAS QC

Name JA Lerch Date 08/07/90

QC Check: HOLDING TIME

COMMENTS: TOC— all samples analyzed within 28 day HT
Anions - all samples analyzed within 28 day HT
Water Lab Data - all HT criteria met where applicable (see below for specific HT's)

ACTION: none

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

HOLDING TIMES for Water Data

Alkalinity	14 days
pH	immediately
COD	28
CN	14
Sulfate	28
turbidity	2
conductivity	28
TOX	7

RCRA LEVEL C/CLP-SAS QC

Name JA Lerch Date 08/07/90

QC Check: Spike Recovery

COMMENTS: TOC - recovery within ±25% control limit

Anions ([redacted] 300070) - all %R within 75-125%

Water Data - all spike %R within 75-125% limits

(spike analysis not required for all tests)

ACTION: none

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

RCRA LEVEL C/CLP-SAS QC

Name JA Lerchi Date 08/07/90

QC Check: Duplicate Analysis

COMMENTS: TOC - duplicate RPD within limits
Anions (B00070) - all RPD's < 5%
Water Data - Turbidity RPD out of control (B00070)
all other results within ± 20% limit

ACTION: qualify associated results as per OSM guidelines.

sample #	constituent	value/qual	sample #	constituent	value/qual
all	turbidity	J			

RCRA LEVEL C/CLP-SAS QC

Name JA Lerch JL Date 08/07/90

QC Check: Calibrations

COMMENTS: TOC - 6 pt calibration curve; all ICV + CCV %R within 90-110% control limits
Anions - all ICV + CCV %R within 90-110% control limit
Water Data - all calibration requirements met where applicable

ACTION: none

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

RCRA LEVEL C/CLP-SAS QC

Name JA Lerch Date 08/07/90

QC Check: LCS

COMMENTS: TOC- LCS recovery within limits of 80-120%
Anions- 2 samples run; all %R within 80-120%
Water Data- all %R within 80-120% limits
for all LCS analyses

ACTION: none

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

RCRA LEVEL C/CLP-SAS QC

Name JA Lerch JL Date 08/07/90

QC Check: Blanks

COMMENTS: TOC - ICB + CCB free of contamination
Anions - trace contamination of Cl on CCB-3; all other ICB + CCB results < detection limit
Water Data - no evidence of blank contamination

ACTION: qualify associated results as per OSM guidelines

	sample #	constituent	value/qual	sample #	constituent	value/qual
Anions	all	Cl	acceptable			

WEYERHAEUSER TECHNOLOGY CENTER
Analytical Laboratories
Tacoma, Washington

REPORT

Westinghouse Water Samples
1100 Area R1/FS

Sample Description	Analytical Lab Code	pH	Turbidity NTU	Specific Conductance µs/Cm	TDS mg/L	Alkalinity mg/L $CaCO_3$	COD mg/L
B00070	49931	7.9; 7.9	0.4 J 0.2 J	480; 480	340	160	8; 8
B00074	49933	8.1	0.5 J	260	220	94	9
B00078	49935	7.7	11 J	800	580	150	9
B00083	49938	7.7	0.6 J	800	580	150	10
B00087	49940	7.6	8 J	900	660	180	9
B00091	49942	7.6	2 J	900	310	180	8
B00095	49944	7.7	1 J	870	620	170	9
B00100	49947	7.7	0.3 J	920	700	180	14

08/07/90

Sample Description	Analytical Lab Code	NH_3-N mg/L	NO_3-NO_2-N mg/L	SO_4 mg/L	AOX mg/L	CN mg/L	TP mg/L
B00070	49931	<0.02	7.2	27; 28	<0.01	<0.01	0.04
B00074	49933	0.06	<0.05; <0.05	29	0.09; 0.10	<0.01	0.06
B00078	49935	0.11; 0.11	39.4	78	<0.01	<0.01	0.04
B00083	49938	0.81	43.4	77	0.01	<0.01	0.05
B00087	49940	<0.02	52.1	75	0.06	<0.01	0.03
B00091	49942	<0.02	50.4	75	0.06	<0.01; <0.01	0.03
B00095	49944	0.18	47.6	69	0.06	<0.01	0.03
B00100	49947	0.94	52.3	86	0.06	<0.01	0.02; 0.02

000003

Notebook_____

Approved Marine Ra[illegible] Date 6-22-90 Page Number_____

1100-EM-1 SUMMARY TABLE
Laboratory: Weyerhaeuser
SDG #: B00070

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

Parameter	B00070	B00071	B00074	B00075	B00078	B00079	B00083	B00084	B00087	B00088	B00091	B00092	B00095	B00096	B000F5	B00100
Al	136 U	119 U	121 U	115 U	418	136 U	194 U	135 U	331	110 U	137 U	98.2 U	157 U	94.1 U	125 U	99.6 U
Sb	17.0 U	17.0 U	17.0 U	17.0 U	17.0 U	17.0 U	17.0 U	17.0 U	17.0 U	17.0 U	17.0 U	17.0 U	17.0 U	17.0 U	17.0 U	17.0 U
As	6.8 J	7.0 J	2.0 U	2.0 U	2.2 J	2.1	2.0 U	2.0 U	2.5	2.7	3.6	2.0 U	3.3	3.3	2.0 U	2.0 U
Ba	52.4	49.3	63.0	63.6	97.3	96.7	95.4	97.3	113	111	114	114	104	97.9	105	105
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	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	3.0 U	3.0 U	3.0 U	3.0 U
Ca	54900	54600	20100	20100	97700	96200	96500	96700	115000	116000	116000	117000	107000	104000	114000	112000
Cr	7.8	5.0 U	5.0 U	5.0 U	6.7	5.0 U	5.0 U	5.0 U	17.0	5.0 U	16.8	5.0 U	16.3	5.0 U	7.9	5.0 U
Co	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	3.0 U	3.0 U	3.0 U	3.0 U
Cu	2.6	3.5	2.6	2.0 U	2.0 U	2.7	2.0 U	2.0 U	5.3	2.0 U	3.5	5.2	6.1	2.6	6.1	5.2
Fe	34.6 U	24.4 U	42.7 U	23.2 U	627	18.2 U	139 U	34.6 U	388	45.5 U	99.5 U	58.6 U	79.5 U	24.5 U	36.9 U	34.0 U
Pb	2.0 U	2.0 U	2.0 U	2.7	54.0	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.4 J
Mg	13700	13700	4980	4980	20900	20300	21100	21200	23800	23900	23800	24600	22800	21900	25300	24600
Mn	8.9	9.0	210	201 U	44.6	27.7	165	160	41.2	36.8	38.4	40.2	109	96.8	216	214
Hg	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	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Ni	15.0 U	15.0 U	45.6	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U
K	5150	5300	4450	4630 U	8950	9140	10100	9970	9040	8910	9150	8960	8800	8510	10300	10100
Se	2.0 U	2.1 J	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
Ag	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	3.0 U	3.0 U	3.0 U	3.0 U
Na	20700 J	20500 J	26700 J	25100 J	30600 J	30200 J	33000 J	32700 J	32800 J	32900 J	33000 J	33700 J	31400 J	30500 J	35200 J	34300 J
Tl	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 UJ	2.0 U	2.0 U
V	9.4 U	9.8 U	3.0 U	3.0 U	6.4 U	5.5 U	4.5 U	4.0 U	7.3 U	6.4 U	7.4 U	4.4 U	8.4 U	6.0 U	3.0 U	3.0 U
Zn	4.2	3.6	2.3	2.0 U	6.7	2.0 U	2.3	3.7	2.0 U	2.0 U	2.0 U	21.4	7.2	2.0 U	5.0 U	4.2
CN	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

NR not reported and/or requested

1100-EM-1 SUMMARY TABLE
Laboratory: Weyerhaeuser
SDG #: B00070

ORGANICS sample value/qualifier (values in ppb)

Parameter	B00070	B00074	B00078	B00082	B00083	B00087	B00091	B00095	B00099	B00100
MeCl2	1 U	1 U	1 U	5	1 U	1 U	1 U	1 U	3	1 U
acetone	10 U	10 U	10 U	14	10 U	10 U	10 U	10 U	10 U	10 U
chloroform	1 U	1 U	1 U	1	1 U	1 U	1 U	1 U	2	1 U
2-butanone	10 U	10 U	10 U	66	10 U	10 U	10 U	10 U	14	10 U
1,1,1-trichloroethane	0.8 J	1 U	1	1 U	1	2	2	2	1 U	1
trichloroethene	1 U	1 U	2	1 U	3	110	97	91	1	73
tetrachloroethene	1 U	1 U	1 U	1 U	1 U	0.7 J	0.7 U	0.7 U	1 U	0.6 J
ethanol, 2-chloro-, phosphat @ 21.67	ND	150 J	ND	ND	ND	ND	ND	ND	ND	ND
TICSV1 @ 6.50	ND	6.3 J	ND	ND	ND	ND	ND	ND	ND	ND
TICSV2 @ 32.24	ND	ND	ND	ND	ND	ND	5.3 J	ND	ND	ND
TICSV3 @ 33.67	ND	ND	ND	ND	ND	ND	13 J	ND	ND	ND
TICSV4 @ 35.14	ND	ND	ND	ND	ND	ND	12 J	ND	ND	ND

NR not reported and/or requested
ND corresponding TIC was not detected

:100-EM-1 SUMMARY TABLE
aboratory: Weyerhaeuser
DG #: B00070

RGANIC TARGET COUMPOUND LIST - NON DETECTED COMPOUNDS

Compound	SQL (in ppb)
OLATILES	
chloromethane	2
bromomethane	2
vinyl chloride	2
chloroethane	2
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	1
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
1,1,2,2-tetrachloroethane	1
toluene	1
chlorobenzene	1
ethylbenzene	1
styrene	1
xylene (total)	1
EMI-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 #: B00070

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	10
phenanthrene	10
anthracene	10
di-n-butylphthalate	10
fluoranthene	10
pyrene	10

1100-EM-1 SUMMARY TABLE
Laboratory: Weyerhaeuser
SDG #: B00070

ORGANIC TARGET COUMPOUND LIST - NON DETECTED COMPOUNDS

Compound	SQL (in ppb)
butylbenzylphthalate	10
3,3'-dichlorobenzidine	20
benzo(a)anthracene	10
chrysene	10
bis(2-ehtylhexyl)phthalate	10
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
beta-BHC	0.050
delta-BHC	0.050
gamma-BHC (lindane)	0.050
heptachlor	0.050
aldrin	0.050
heptachlor epoxide	0.050
endosulfan I	0.050
dieldrin	0.10
4,4'-DDE	0.10
endrin	0.10
endosulfan II	0.10
4,4'-DDD	0.10
endosulfan sulfate	0.10
4,4'-DDT	0.10
methoxychlor	0.50
endrin ketone	0.10
alpha-chlordane	0.50
gamma-chlordane	0.50
toxaphene	1.0
aroclor-1016	0.50
aroclor-1221	0.50
aroclor-1232	0.50
aroclor-1242	0.50
aroclor-1248	0.50
aroclor-1254	1.0
aroclor-1260	1.0

Westinghouse
Hanford Company

OSM ORGANIC DATA ASSESSMENT

DATE 07/14/90

REVIEWED BY JA Lerch

LABORATORY Weyerhaeuser

CASE # 02666

SDG # B00070

SAMPLES/MATRIX

B00070	B00087	
B00074	B00091	all water
B00078	B00095	
B00082	B00099	
B00083	B00100	

DATA ASSESSMENT SUMMARY

	VOA	ABN	PEST
1. Holding Times (Form I)	O	O	O
2. Surrogate Recovery (II)	O	O	X
3. Matrix Spike/ MSD (III)	O	X	X
4. Blanks (IV)	O	O	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 ( ) 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 ASSESSMENT: no major problems - all results acceptable w/qualification

NOTES : samples B00082, B00099 analyzed for VOA only

Refer to the corresponding attachments for explanation of any problems.

ORGANIC QC - Holding Times

Name JA Lerch JL Date 07/14/90

COMMENTS: all VOA, SemiVOA, Pest HT requirements met

ACTION: none

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

ORGANIC QC - Surrogate Recovery

Name JA Lerch Date 07/14/90

COMMENTS: all VOA, SemiVOA recoveries within control limits

Pest - B00091; DBC recovery high (by 1%)

ACTION: qualify results according to OSM guidelines

	sample #	constituent	value/qual	sample #	constituent	value/qual
Pest	B00091	all	UJ			

ORGANIC QC - MS/MSD

Name JA Lerch Date 07/14/90

COMMENTS: VOA B00070 MS+MSD : all recoveries + RPD's in control

SemiVOA - B00074 MS+MSD: pentachlorophenol MSD %R high

2-chlorophenol RPD out of control

Pest - all recoveries in control limits; Lindane, heptachlor, aldrin RPD's out

ACTION: no action required for MS/MSD alone; no major problems to indicate need for qual.

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

ORGANIC QC - Blanks

Name JA Lerch Date 07/14/90

COMMENTS: all SemiVOA, VOA, Pest method blank Summaries ok, no contaminants detected in blanks

ACTION: none

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

ORGANIC QC - GC/MS Tune

Name JA Lerch Date 07/14/90

COMMENTS: all GC/MS tune criteria met for VOA, SemiVOA analysis

ACTION: none

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

ORGANIC QC - Calibrations

Name JA Lerch JL Date 07/14/90

COMMENTS: all VOA, SemiVOA initial + continuing cal. criteria met

Pest – initial cal. linearity check ok
– analytical sequence check ok
– continuing cal. %D criteria met

ACTION: none

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

ORGANIC QC - Internal Standards

Name JA Lerch Date 07/14/90

COMMENTS: all IS Area Count, RT shifts within control limits for VOA, SemiVOA analysis

ACTION: none

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

ORGANIC QC - Instrument Performance (pest)

Name JA Lerch Date 07/14/90

COMMENTS: endrin/DDT % breakdown check ok

- DBC RT shift criteria met
- all DDT RT's > 12 min
- all RT window criteria met

ACTION: none

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

ORGANIC QC - Other

Name JA Lerch Date 07/14/90

COMMENTS: VOA - Sample B00082 (2-butanone) B00087 (trichloroethene) B00091 (trichloroethene) B00095 (trichloroethene) B00100 (trichloroethene) identified at secondary dilution

ACTION: none

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

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00091

Lab Name: WEYERHAEUSER Contract: 1100

Lab Code: WEYER Case No.: 02666 SAS No.: _____ SDG No.: B00070

Matrix: (soil/water) WATER Lab Sample ID: 49942

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

Level: (low/med) LOW Date Received: 05/17/90

% Moisture: not dec. __ dec. __ Date Extracted: 05/21/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 06/26/90

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

JZ 07/15/90

Westinghouse
Hanford Company

OSM INORGANIC DATA ASSESSMENT

DATE 07/14/90

REVIEWED BY JA Lerch

LABORATORY Weyerhaeuser

CASE # 026666

SDG # B00070

SAMPLES/MATRIX

B00070	B00079	B00091
B00071	B00083	B00092
B00074	B00084	B00095
B00075	B00087	B00096
B00078	B00088	B00095 B00100

— all water

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN
1. Calibrations (Form II)	O	O	O	NA
2. Blanks (III)	X	O	O	NA
3. ICS (IV)	X			
4. Matrix Spike (V)	O	X	O	NA
5. Duplicate Analysis (VI)	O	O	O	NA
6. LCS (VII)	O	O		
7. Serial Dilution (IX)	X			
8. GFAA		X		
9. Holding Times (XIV)	O	O	O	NA
10. Other QC none				NA

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: CN not requested, No major problems — all results acceptable w/qualification

NOTES: non

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

54 7900 046

INORGANIC QC - Calibrations

Name JA Lerch Date 07/14/90

COMMENTS: -all IGV + CCV recoveries within control limits
- analysis run log check ok
- Hg correlation coefficient ok; CN not requested

ACTION: none

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

INORGANIC QC - Blanks

Name JA Larch Date 07/14/90

COMMENTS: possible trace cont. of Al, Sb, Ca, Fe, Mn, K, Na, Mg, V

ACTION: qualify associated results as per OSM guidelines

sample #	constituent	value/qual
all	Al	U
	Fe	U
	V	U
- with the following exceptions		
B00074	Al	U
	Fe	U
B00075	Al	U
	Fe	U
B00078	V	U
B00087	V	U
B00095	Al	U
	Fe	U
B00100	Al	U
	Fe	U

sample #	constituent	value/qual

INORGANIC QC - ICS

Name JA Lerch JL Date 07/14/90

COMMENTS: all initial + final ICS results within control limits

- possible of negative interference for K, positive interference for Na

ACTION: qualify results as per OSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
all	Na	J			

INORGANIC QC - Matrix Spike

Name JA Lerch JL Date 07/14/90

COMMENTS: B000705 - Se recovery out of control - biased high
B0000715 - all recoveries within control limits

ACTION: qualify associated results as per OSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
all	Se	acceptable			
- with the following exception					
B00071	Se	J			

INORGANIC QC - Duplicate Analysis

Name JA Lerch Date 07/14/90

COMMENTS: all dupicate analysis results within control limits

-Duplicate samples B00070D, B00071D

ACTION: none

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

INORGANIC QC - LCS

Name JA Lerch JL Date 07/14/90

COMMENTS: all LSC %R within control limits

ACTION: none

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

INORGANIC QC - Serial Dilution

Name JA Lerch Date 07/14/90

COMMENTS: B000701L - all serial dilution %D within limits
B000711L - Na %D out of control limits

ACTION: qualify data according to OSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
all	Na	J			

INORGANIC QC - Holding Times

Name JA Lerch JL Date 07/14/90

COMMENTS: all HT criteria met

ACTION: none

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

INORGANIC QC - GFAA

Name JA Lerch JL Date 07/14/90

COMMENTS: no MSA required or performed
- analytical spikes outside control limits for As, ~~Pb~~, Se, Tl for the samples listed below

ACTION: qualify results as per OSM guidelines

sample #	constituent	value/qual
B00070	As	J
	Tl	acceptable
B00071	As	J
	Tl	acceptable
B00074	As	acceptable
	Tl	" "
B00075	As	acceptable
	Tl	" "
B00078	As	J
	Tl	acceptable
B00079	Tl	acceptable
B00083	Tl	acceptable
B00084	As	acceptable
	Tl	" "

sample #	constituent	value/qual
B00087	Pb	UJ
	Tl	acceptable
B00088	Tl	acceptable
B00091	Pb	~~acceptable~~ jt UJ
B00092	Tl	acceptable
B00096	Tl	UJ
B000F5	As	acceptable
B00100	As	acceptable
	Pb	J

INORGANIC QC - other

Name JA Lerch Date 07/14/90

COMMENTS: none

ACTION:

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

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00070

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49931

Level (low/med): LOW Date Received: 05/17/90

% 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	136	~~B~~	U	P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	6.8	~~B~~	W J	F
7440-39-3	Barium	52.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	54900			P
7440-47-3	Chromium	7.8	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.6	B		P
7439-89-6	Iron	34.6	~~B~~	U	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	13700			P
7439-96-5	Manganese	8.9	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	5150			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	20700	J	E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	9.4	~~B~~	U	P
7440-66-6	Zinc	4.2	B		P
	Cyanide				NR

JJ 07/14/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1 b

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00071

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49932

Level (low/med): LOW Date Received: 05/17/90

% 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	119	~~B~~	U	P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	7.0	~~B~~	W J	F
7440-39-3	Barium	49.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	54600			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	3.5	B		P
7439-89-6	Iron	24.4	~~B~~	U	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	13700			P
7439-96-5	Manganese	9.0	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	5300			P
7782-49-2	Selenium	2.1	~~B~~	N J	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	20500	J	E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	9.8	~~B~~	U	P
7440-66-6	Zinc	3.6	B		P
	Cyanide				NR

JJ 07/14/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1 C

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00074

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49933

Level (low/med): LOW Date Received: 05/17/90

% 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	121	~~B~~	U	P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	63.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	20100			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.6	B		P
7439-89-6	Iron	42.7	~~B~~	U	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	4980	B		P
7439-96-5	Manganese	210			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	45.6			P
7440-09-7	Potassium	4450	B		P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	26700	J	E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	2.3	B		P
	Cyanide				NR

JZ 07/14/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1 D

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00075

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49934

Level (low/med): LOW Date Received: 05/17/90

% 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	115	~~B~~	U	P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	63.6	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	20100			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	23.2	~~B~~	U	P
7439-92-1	Lead	2.7	B		F
7439-95-4	Magnesium	4980	B		P
7439-96-5	Manganese	201			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	4630	B		P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	25100	J	E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

07/14/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1 E

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00078

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49935

Level (low/med): LOW Date Received: 05/17/90

% 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	418			P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.2	~~B~~	W J	F
7440-39-3	Barium	97.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	97700			P
7440-47-3	Chromium	6.7	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	627			P
7439-92-1	Lead	54.0			F
7439-95-4	Magnesium	20900			P
7439-96-5	Manganese	44.6			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	8950			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	30600	~~J~~	E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	6.4	~~B~~	U	P
7440-66-6	Zinc	6.7	B		P
	Cyanide				NR

JJ 07/11/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1 F

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00079

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49936

Level (low/med): LOW Date Received: 05/17/90

% 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	136	~~B~~	U	P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.1	B		F
7440-39-3	Barium	96.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	96200			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.7	B		P
7439-89-6	Iron	18.2	~~B~~	U	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	20300			P
7439-96-5	Manganese	27.7			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	9140			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	30200	J	E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	5.5	~~B~~	U	P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

JL 07/14/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1 G

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00083

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49938

Level (low/med): LOW Date Received: 05/17/90

% 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	194	~~B~~	U	P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	95.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	96500			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	139	U		P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	21100			P
7439-96-5	Manganese	165			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	10100			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	33000	J	E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	4.5	~~B~~	U	P
7440-66-6	Zinc	2.3	B		P
	Cyanide				NR

JL 07/14/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1 H

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00084

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49939

Level (low/med): LOW Date Received: 05/17/90

% 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	135	~~B~~	U	P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	97.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	96700			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	34.6	~~B~~	U	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	21200			P
7439-96-5	Manganese	160			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	9970			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	32700	J	E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	4.0	~~B~~	U	P
7440-66-6	Zinc	3.7	B		P
	Cyanide				NR

JJ 07/14/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

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Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00087

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49940

Level (low/med): LOW Date Received: 05/17/90

% 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	331			P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.5	B		F
7440-39-3	Barium	113	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	115000			P
7440-47-3	Chromium	17.0			P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	5.3	B		P
7439-89-6	Iron	388			P
7439-92-1	Lead	2.0	U	W	F
7439-95-4	Magnesium	23800			P
7439-96-5	Manganese	41.2			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	9040			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	32800	J	E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	7.3	B	U	P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

07/14/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1 J

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00088

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49941

Level (low/med): LOW Date Received: 05/17/90

% 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	110	~~B~~	U	P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.7	B		F
7440-39-3	Barium	111	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	116000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	45.5	~~B~~	U	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	23900			P
7439-96-5	Manganese	36.8			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	8910			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	32900	J	E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	6.4	~~B~~	U	P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

JJ 07/14/90

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.

B00091

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49942

Level (low/med): LOW Date Received: 05/17/90

% 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	137	~~B~~	U	P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	3.6	B		F
7440-39-3	Barium	114	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	116000			P
7440-47-3	Chromium	16.8			P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	3.5	B		P
7439-89-6	Iron	99.5	~~B~~	U	P
7439-92-1	Lead	2.0	~~U~~	W	F
7439-95-4	Magnesium	23800			P
7439-96-5	Manganese	38.4			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	9150			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	33000	J	E	P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	7.4	~~B~~	U	P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

JL 07/14/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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EPA SAMPLE NO.

1 L

INORGANIC ANALYSIS DATA SHEET

B00092

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49943

Level (low/med): LOW Date Received: 05/17/90

% 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	98.2	~~B~~	U	P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	114	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	117000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	5.2	B		P
7439-89-6	Iron	58.6	~~B~~	U	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	24600			P
7439-96-5	Manganese	40.2			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	8960			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	33700	J	E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	4.4	~~B~~	U	P
7440-66-6	Zinc	21.4			P
	Cyanide				NR

JL 07/14/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1 m

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00095

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49944

Level (low/med): LOW Date Received: 05/17/90

% 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	157	~~B~~	U	P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	3.3	B		F
7440-39-3	Barium	104	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	107000			P
7440-47-3	Chromium	16.3			P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	6.1	B		P
7439-89-6	Iron	79.5	~~B~~	U	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	22800			P
7439-96-5	Manganese	109			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	8800			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	31400	J	E	P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	8.4	~~B~~	U	P
7440-66-6	Zinc	7.2	B		P
	Cyanide				NR

07/14/90

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.

B00096

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49945

Level (low/med): LOW Date Received: 05/17/90

% 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	94.1	~~B~~	U	P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	3.3	B		F
7440-39-3	Barium	97.9	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	104000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.6	B		P
7439-89-6	Iron	24.5	~~B~~	U	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	21900			P
7439-96-5	Manganese	96.8			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	8510			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	30500	J	E	P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	6.0	~~B~~	U	P
7440-66-6	Zinc	2.0	U		P
	Cyanide				NR

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B000F5

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49948

Level (low/med): LOW Date Received: 05/17/90

% 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	125	~~B~~	U	P
7440-36-0	Antimony	17.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	105	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	114000			P
7440-47-3	Chromium	7.9	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	6.1	B		P
7439-89-6	Iron	36.9	~~B~~	U	P
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	25300			P
7439-96-5	Manganese	216			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	10300			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	35200	J	E	P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	5.0	B		P
	Cyanide				NR

JJ 07/14/90

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Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00100

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

Lab Code: WEYER Case No.: SAS No.: SDG No.: B00070

Matrix (soil/water): WATER Lab Sample ID: 49947

Level (low/med): LOW Date Received: 05/17/90

% 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	17.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	105	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	112000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	5.2	B		P
7439-89-6	Iron	34.0	~~B~~	U	P
7439-92-1	Lead	2.4	~~B~~	W J	F
7439-95-4	Magnesium	24600			P
7439-96-5	Manganese	214			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	10100			P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	34300	J	E	P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	4.2	B		P
	Cyanide				NR

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