

AR TARGET SHEET

The following document was too large to scan as one unit, therefore it has been broken down into sections.

DOCUMENT # 9057870

EDMC # 0011691

SECTION 2 OF 2

9513388.0332

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ATTACHMENT 7

CLP INORGANIC ANALYSES

DATA QUALIFIER DEFINITIONS

Column "C" of the table (Concentration Qualifier):

- B - Reported value is less than the CLDR (instrument standardization) but greater than the instrument detection limit (IDL).
- J - The associated numerical value is an estimated quantity.
- U - Undetected - Analyte is below the detection limits of the methods and instruments used. The associated numerical value is the calculated quantitation limit based upon wet weight of the soil sample. The quantitation limit based on dry weight (stated in the work plan) is higher.

Column "Q" of the table (Qualifier):

- E - Estimated because of interference (comments are usually provided).
- M - Duplicate injection precision not met.
- N - Spike sample recovery outside control limits.
- S - Analysis by method of standard additions (MSA).
- + - Correlation coefficient for MSA is less than 0.995
- W - Spike of AA is out of control limits.
- * - Duplicate analysis not in control limits.

Column "M" of the table (Method Qualifier):

- A - Atomic Absorption (AA).
- AS - Automatic Spectrophotometer.
- C - Manual spectrophotometric analysis.
- CV - Manual Cold Vapor AA analysis.
- AV - Automated Cold Vapor AA
- F - Furnace (AA).
- NR - Analyte not required to be analyzed
- P - ICP.
- T - Titration.

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ATTACHMENT 8

300-FF-1 SUMMARY TABLE
 Laboratory: Veyerhaeuser
 SDG #: ASPG19

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

Parameter	S. of 300 Area				Hanford Townsite						Franklin Co.									
	ASPG19	ASPG20	ASPG21	ASPG22	ASPG23	ASPG24	ASPG25	ASPG26	ASPG27	ASPG28	ASPG29	ASPG30	ASPG31	ASPG32	ASPG33	ASPG34	ASPG35	ASPG36	ASPG37	ASPG38
Al	15.9	12.9	15.0	6.1	10.4	6.6	9.0	8.2	9.4	7.5	27.5	20.3	15.5	16.6	17.8	18.2	75.9	69.3	49.3	57.8
Sb	4.0 U	3.5 U	3.4 U	2.7 U	3.4 U	2.9 U	2.8 U	3.9 U	3.4 U	3.1 U	3.3 U	3.7 U	3.3 U	3.8 U	2.8 U	3.0 U	3.2 U	3.1 U	3.0 U	3.0 U
As	0.31 UJ	0.38 UJ	0.37 UJ	0.36 UJ	1.4 UJ	0.32 UJ	0.29 UJ	0.39 UJ	0.33 UJ	0.31 UJ	0.39 UJ	1.4 UJ	1.7 UJ	0.32 UJ	1.5 UJ	0.37 UJ	0.31 UJ	0.39 UJ	1.4 UJ	0.35 UJ
Ba	2.8	2.0	3.6	1.4	0.90	1.1	0.83	1.6	1.2	0.84	4.2	4.0	3.5	4.1	3.0	3.2	4.7	5.5	4.6	5.0
Be	0.20 U	0.18 U	0.17 U	0.13 U	0.17 U	0.14 U	0.14 U	0.19 U	0.17 U	0.16 U	0.17 U	0.19 U	0.16 U	0.19 U	0.14 U	0.15 U	0.16 U	0.16 U	0.15 U	0.15 U
Cd	1.0 U	0.88 U	0.86 U	0.67 U	0.84 U	0.72 U	0.69 U	0.97 U	0.84 U	0.79 U	0.83 U	0.93 U	0.81 U	0.94 U	0.70 U	0.75 U	0.79 U	0.78 U	0.75 U	0.74 U
Ce	2590	1620	1700	1110	1310	1360	1280	1850	1520	1470	3180	2930	3100	3120	2750	2470	2230	2350	2350	2350
Cr	1.0 U	0.88 U	0.86 U	0.67 U	0.84 U	0.72 U	0.69 U	0.97 U	0.84 U	0.79 U	0.83 U	0.93 U	0.81 U	0.94 U	0.70 U	0.75 U	0.79 U	0.78 U	0.75 U	0.74 U
Co	0.40 U	0.35 U	0.34	0.27 U	0.34 U	0.29 U	0.28 U	0.39 U	0.34 U	0.31 U	0.33 U	0.37 U	0.33 U	0.38 U	0.29	0.30 U	0.59	0.57	0.66	0.45
Cu	27.7 J	13.7 J	14.8 J	14.5 J	15.5 J	15.7 J	16.0 J	17.9 J	17.9 J	17.3 J	15.3 J	17.1 J	14.9 J	15.6 J	15.3 J	13.6 J	16.8 J	17.8 J	18.4 J	18.0 J
Fe	84.9	58.1	68.8	52.9	66.5	62.0	63.3	70.1	67.9	63.7	83.9	70.9	68.1	68.3	70.4	66.9	183	189	146	153
Pb	2.5 J	2.2 J	3.3 J	3.8 J	0.47 J	0.52 J	4.5 J	1.1 J	4.7 J	6.3 J	2.6 J	1.3 J	0.50 UJ	14.1 J	1.3 J	0.59 J	3.9 J	0.59 UJ	3.9 J	0.63 J
Mg	1900	1340	1630	1360	1690	1500	1630	1530	1610	1520	1740	1660	1620	1620	1630	1400	1440	1530	1590	1540
Mn	19.4 J	11.9 J	17.5 J	11.8 J	14.7 J	12.5 J	15.1 J	13.8 J	13.9 J	13.1 J	19.8 J	19.6 J	20.1 J	19.3 J	19.3 J	16.2 J	18.9 J	19.0 J	18.7 J	18.6 J
Hg	0.10 UJ	0.10 UJ	0.09 UJ	0.10 UJ	0.09 UJ	0.10 UJ	0.10 UJ	0.09 UJ	0.10 UJ	0.09 UJ	0.10 UJ	0.09 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.08 UJ	0.10 U	0.10 UJ
Ni	4.0 U	3.5 U	3.4 U	2.7 U	3.4 U	2.9 U	3.1	3.9 U	4.0	3.1 U	3.9	3.7 U	3.3 U	3.8 U	2.9	3.3	3.3	3.1 U	3.0 U	3.6
K	29400 J	21900 J	24500 J	26700 J	31700 J	30000 J	32500 J	32300 J	32600 J	33200 J	24600 J	24600 J	35000 J	35400 J	34400 J	30400 J	30300 J	30500 J	30700 J	30000 J
Se	0.47 UJ	0.58 UJ	0.78 J	0.54 UJ	0.95 J	1.1 J	0.50 J	2.6 J	4.4 J	0.47 UJ	0.58 UJ	0.41 UJ	0.50 UJ	0.48 UJ	0.46 UJ	0.55 UJ	0.47 UJ	0.59 UJ	0.43 UJ	0.52 UJ
Ag	0.60 U	0.53 U	0.52 U	0.40 U	0.50 U	0.43 U	0.41 U	0.58 U	0.62	0.47 U	0.54	0.56 U	0.49 U	0.57 U	0.42 U	0.45 U	0.48 U	0.47 U	0.45 U	0.44 U
Na	87.4 J	63.7 J	95.1 J	60.5 J	109 J	100 J	103 J	118 J	103 J	109 J	152 J	158 J	150 J	152 J	146 J	146 J	163 J	156 J	153 J	160 J
Tl	0.16 UJ	0.19 UJ	0.47 J	0.34 J	0.24 J	0.16 UJ	0.35 J	0.37 J	0.21 J	0.28 J	0.19 UJ	0.14 UJ	0.17 UJ	0.18 J	0.15 UJ	0.18 UJ	0.16 UJ	0.20 UJ	0.14 UJ	0.17 UJ
V	0.40 U	0.35 U	0.34 U	0.27 U	0.34 U	0.29 U	0.28 U	0.39 U	0.34 U	0.31 U	0.33 U	0.37 U	0.33 U	0.38 U	0.28 U	0.30 U	0.32 U	0.31 U	0.30 U	0.30 U
Zn	52.9 J	38.9 J	46.0 J	42.4 J	61.9 J	63.0 J	70.9 J	72.3 J	66.1 J	71.2 J	59.5 J	57.9 J	61.8 J	58.1 J	57.8 J	50.5 J	52.8 J	56.1 J	58.8 J	59.4 J
CN	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

NR not reported and/or requested

951708-035

300-ff-1 SUMMARY TABLE
 Laboratory: Weyerhaeuser
 SDG #: ASPG39

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

Parameter	Franklin Co.								S. Plateau		S. River				Downstream Riparian						
	ASPG39	ASPG40	ASPG41	ASPG42	ASPG43	ASPG44	ASPG45	ASPG46	ASPG47	ASPG48	B00975	B00976	B00977	B00978	B00979	B00980	B00981	B00982	B00983	B00984	
Al	47.7	58.3	54.6	51.1	40.1	54.0	40.3	44.9	70.6	55.8	20.6	21.7	11.1	11.5	45.8	41.8	30.8	27.6	15.5	37.8	
Sb	2.8 U	3.3 U	3.8 U	3.4 U	3.6 U	3.3 U	3.8 U	3.5 U	3.6 U	3.9 U	3.8 U	3.8 U	3.8 U	3.8 U	3.2 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.7 U
As	0.33 UJ	0.32 UJ	0.34 UJ	0.33 UJ	0.34 UJ	0.35 UJ	0.37 UJ	0.37 UJ	0.40 UJ	0.37 UJ	0.37 UJ	0.36 UJ	0.35 UJ	0.36 UJ	0.38 UJ	0.36 UJ	0.34 UJ	0.40 UJ	0.33 UJ	0.31 UJ	
Ba	4.8	4.7	4.4	5.2	3.8	4.5	4.3	4.7	4.2	5.2	5.8	9.2	8.1	7.9	10.2	7.0	5.8	6.2	4.6	13.0	
Be	0.14 U	0.17 U	0.19 U	0.17 U	0.18 U	0.17 U	0.19 U	0.18 U	0.18 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U	0.16 U	0.17 U	0.17 U	0.17 U	0.17 U	0.18 U	
Cd	0.70 U	0.83 U	0.95 U	0.86 U	0.91 U	0.83 U	0.95 U	0.88 U	0.91 U	0.98 U	0.96 U	0.95 U	0.95 U	0.94 U	0.81 U	0.85 U	0.86 U	0.85 U	0.85 U	0.92 U	
Ca	2400	2280	2690	2750	2670	2790	2710	2700	3110	2360	3060	3530	3620	3520	4390	4030	3270	3220	2710	5290	
Cr	0.70 U	0.83 U	0.95 U	0.86 U	0.91 U	0.83 U	0.95 U	0.88 U	0.91 U	0.98 U	0.96 U	0.95 U	0.95 U	0.94 U	0.81 U	0.85 U	0.86 U	0.85 U	0.85 U	0.92 U	
Co	0.28 U	0.33 U	0.38 U	0.34 U	0.36 U	0.33 U	0.38 U	0.35 U	0.36 U	0.39 U	0.38 U	0.38 U	0.38 U	0.38 U	0.32 U	0.34 U	0.34 U	0.34 U	0.34 U	0.37 U	
Cu	24.0	17.5	19.8	18.6	20.0	19.7	17.5	18.9	10.1	12.7	8.3	7.7	5.8	6.3	9.4	8.7	10.8	5.8	11.6	7.4	
Fe	147	159	142	131	117	144	117	132	146	130	55.7	66.6	47.9	50.2	124	104	85.6	70.0	52.7	89.5	
Pb	0.18 J	0.16 J	0.19 J	0.28 J	0.48 J	5.0 J	0.50 J	0.19 R	0.26 J	0.19 R	0.59 J	0.18 R	0.44 J	0.18 R	0.46 J	0.32 J	0.71 J	0.22 J	0.23 J	0.36 J	
Mg	1530	1510	1520	1480	1580	1550	1530	1500	1730	1730	1390	1520	1380	1430	1830	1530	1320	1250	1060	1770	
Mn	18.4	18.3	20.2	18.3	18.6	19.7	18.6	18.8	21.5	18.4	15.0	17.0	15.8	18.4	22.6	21.8	15.3	9.3	10.8	16.4	
Hg	0.09 U	0.09 U	0.09 U	0.10 U	0.08 U	0.10 U	0.09 U	0.10 U	0.09 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.09 U	0.09 U	0.10 U	0.09 U	0.10 U	0.10 U	
Ni	5.0	3.4	5.2	4.0	5.1	4.2	3.8 U	4.4	3.6 U	4.0	3.8 U	4.4	3.8 U	4.8	3.2 U	3.4 U	3.4 U	3.4 U	3.4 U	3.7 U	
K	30000	30300	32700	30500	31900	31800	31400	32000	19700	24600	18900	19200	21900	20400	20400	17700	20200	17700	18500	18900	
Se	0.50 UJ	0.48 UJ	0.51 UJ	0.49 U	2.6 U	0.53 U	0.56 UJ	0.56 UJ	0.60 UJ	0.77	0.56 UJ	0.55 UJ	0.53 UJ	0.55 U	0.57 UJ	0.63	0.51 UJ	0.69	0.50 U	0.49 J	
Ag	0.42 U	0.50 U	0.57 U	0.52 U	0.55 U	0.50 U	0.57 U	0.53 U	0.55 U	0.59 U	0.58 U	0.57 U	0.57 U	0.57 U	0.48 U	0.51 U	0.52 U	0.51 U	0.51 U	0.55 U	
Na	148 J	154 J	154 J	144 J	153 J	155 J	147 J	146 J	66.9 J	83.2 J	70.7 J	76.8 J	57.9 J	96.1 J	44.5 J	52.7 J	64.6 J	121 J	74.3 J	50.6 J	
Tl	0.25 J	0.22 J	0.17 UJ	0.16 UJ	0.17 UJ	0.28 J	0.19 UJ	0.49 J	0.72 J	0.19 UJ	0.19 UJ	0.20 J	0.48 J	0.18 UJ	0.19 UJ	0.38 J	0.36 J	0.20 UJ	0.17 UJ	0.25 J	
V	0.28 U	0.33 J	0.38 U	0.34 U	0.36 U	0.33 U	0.38 U	0.35 U	0.36 U	0.39 U	0.38 U	0.38 U	0.38 U	0.38 U	0.32 U	0.34 U	0.34 U	0.34 U	0.34 U	0.37 U	
Zn	63.0	55.3	75.9	62.6	72.3	68.7	63.4	63.4	27.8	40.4	30.5	33.5	34.4	34.9	21.4	20.3	40.7	27.7	34.4	29.1	
CH	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	

NR not reported and/or requested

051 300 0036

300-FF-1 SUMMARY TABLE
 Laboratory: Ueyershaeuser
 SDG #: B00985

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

W of 300 Area

Yakima Valley

Sunnyside + Toppanish

Benton City

Parameter	B00985	B00986	B00987	B00988	B00989	B00990	B00991	B00992	B00993	B00994	B00995	B00996	B00997	B00998	B00999	B00980	B00981	B00982	B00983	B00984
Al	27.5	43.5	41.8	38.4	346	103	54.3	53.3	56.9	36.2	51.2	50.4	56.9	64.4	39.9	36.1	29.5	61.5	41.8	110
Sb	3.9 U	3.1 U	3.7 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	3.6 U	3.6 U	2.9 U	3.0 U	3.5 U	3.7 U	3.9 U	3.4 U	3.5 U
As	0.38 UJ	0.36 U	0.35 UJ	0.36 UJ	0.29 UJ	0.36 UJ	0.32 J	0.37 UJ	0.35 UJ	0.34 UJ	0.30 UJ	0.33 UJ	0.46 J	0.31 J	0.33 J	0.33 UJ	0.40 J	0.76 J	0.34 J	0.31 UJ
Ba	4.6 J	6.0 J	6.1 J	4.6 J	11.2 J	7.7 J	2.6 J	2.4 J	4.1 J	3.5 J	3.8 J	3.6 J	3.2 J	1.7 J	2.1 J	2.6 J	2.0 J	2.2 J	2.0 J	3.9 J
Be	0.19 U	0.16 U	0.19 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	0.18 U	0.18 U	0.15 U	0.15 U	0.17 U	0.19 U	0.20 U	0.17 U	0.18 U
Cd	0.97 U	0.78 U	0.93 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	0.91 U	0.91 U	0.74 U	0.75 U	0.87 U	0.93 U	0.98 U	0.88 U
Ca	2450	3420	3450	3130	5790	5510	3940	3940	3450	3330	3280	2950	2700	3060	3170	3190	3710	3320	3250	2750
Cr	0.97 U	0.78 U	0.93 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	0.91 U	0.91 U	0.74 U	0.75 U	0.87 U	0.93 U	0.98 U	0.88 U
Co	0.39 U	0.31 U	0.37 U	0.40 U	0.53	0.48	0.40 U	0.40 U	0.53	0.40 U	0.40 U	0.36 U	0.36 U	0.29 U	0.30 U	0.35 U	0.37 U	0.39 U	0.34 U	0.35 U
Cu	20.7	11.2	16.6	18.3	31.1	30.0	19.5	19.1	21.1	25.6	24.4	18.3	18.7	14.7	14.2	16.3	16.6	13.0	14.4	18.0
Fe	72.5 J	91.2 J	108 J	117 J	874 J	380 J	125 J	123 J	170 J	156 J	165 J	153 J	163 J	109 J	85.5 J	94.5 J	66.4 J	103 J	82.7 J	251 J
Pb	0.23	0.18 U	0.19	0.25	0.14 U	0.18 U	0.16 U	0.19 U	0.18 U	0.20	0.16	0.20	0.23	0.15	0.14 U	0.17 U	0.14 U	0.85	0.17 U	0.39
Hg	1370	1750	1890	1780	2280	2420	1860	1930	2040	2300	2190	1880	1710	1510	1620	1910	1670	1610	1610	1830
Mn	17.8 J	22.0 J	28.3 J	24.8 J	47.2 J	40.6 J	26.6 J	27.6 J	28.4 J	28.5 J	26.8 J	22.9 J	23.0 J	17.9 J	17.4 J	19.7 J	22.6 J	17.6 J	18.5 J	22.5 J
Ni	0.10 U	0.10 U	0.08 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.09 U	0.10 U	0.09 U	0.09 U	0.10 U	0.10 U	0.10 U	0.10 U	0.09 U	0.10 U
Nl	3.9 U	3.1 U	3.7 U	4.4	5.6	4.0 U	4.3	8.4	4.4	4.2	4.5	3.6 U	3.6 U	4.8	5.6	3.5 U	5.2	6.4	4.4	3.5 U
K	18100	21700	18300	26300	38200	46900	35300	37200	36300	41600	39800	33600	31800	33900	36000	39200	36000	34300	36000	38000
Se	2.2 J	0.55 R	0.67 J	0.72 J	0.43 R	0.55 R	0.47 R	0.56 R	0.53 R	0.52 J	0.45 R	0.50 R	0.57 R	0.42 R	0.42 R	0.50 R	0.43 R	0.54 R	0.51 R	0.47 R
Ag	0.58 UJ	0.47 UJ	0.56 UJ	0.60 UJ	0.60 UJ	0.60 UJ	0.60 UJ	0.60 UJ	0.60 UJ	0.60 UJ	0.60 UJ	0.55 UJ	0.55 UJ	0.44 UJ	0.45 UJ	0.52 UJ	0.56 UJ	0.59 UJ	0.52 UJ	0.53 UJ
Na	83.3 J	61.5 J	48.1 J	94.4 J	300 J	309 J	212 J	215 J	172 J	197 J	186 J	157 J	150 J	142 J	144 J	160 J	142 J	166 J	137 J	163 J
Tl	0.19 UJ	0.18 UJ	0.18 UJ	0.18 UJ	0.14 UJ	0.18 UJ	0.16 UJ	0.19 UJ	0.18 UJ	0.17 UJ	0.15 UJ	0.17 UJ	0.25 J	0.20 J	0.14 UJ	1.7 UJ	0.14 UJ	0.18 UJ	0.17 J	0.16 UJ
V	0.39 U	0.31 U	0.37 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.36 U	0.36 U	0.29 U	0.30 U	0.35 U	0.37 U	0.39 U	0.34 U	0.35 U
Zn	20.3	22.9	21.7	31.1	91.5	100	58.4	57.9	71.0	84.0	82.4	69.0	63.5	46.6	55.2	67.7	50.8	43.7	46.3	69.4
CN	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

NR not reported and/or requested

9513388.0337

300-FF-1 SUMMARY TABLE
 Laboratory: Meyerhaeuser
 SDG #: B00985

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

Parameter	<i>Benton City</i>					<i>Within 300FF1</i>					<i>S. of 300 Area</i>					<i>N. of 300 Area</i>				
	B00985	B00986	B00987	B00988	B00989	B009C0	B009C1	B009C2	B009C3	B009C4	B009C5	B009C6	B009C7	B009C8	B009C9	B00D00	B009D1	B009D2	B009D3	B009D4
Al	118	106	121	78.3	31.9 U	38.9 U	21.8 U	33.2 U	99.5	85.0	47.5	46.4	41.3 U	52.5	59.1	50.4	57.6	50.0	57.3	45.6
Sb	3.2 U	3.7 U	3.7 U	3.2 U	4.0 U	3.3 U	4.0 U	3.1 U	3.3 U	4.0 U	3.7 U	3.7 U	3.7 U	4.0 U	3.1 U	3.5 U	4.7 U	3.8 U	3.0 U	3.2 U
As	0.38 U	0.37 U	0.35 U	0.37 U	0.35 U	0.38 U	0.34 U	0.38 U	0.33 U	0.31 U	0.36 U	0.36 U	0.38 U	0.31 U	0.34 UJ	0.36 U	0.36 U	0.33 U	0.33 U	0.35 U
Be	3.6 J	3.8 J	3.9 J	3.2 J	6.0 J	9.3 J	7.3 J	8.1 J	10.7 J	10.8 J	9.9 J	10.1 J	9.0 J	10.8 J	21.9 J	12.7 J	11.0 J	17.7 J	13.5 J	14.0 J
Ba	0.14 U	0.19 U	0.18 U	0.16 U	0.18 U	0.17 U	0.20 U	0.15 U	0.17 U	0.20 U	0.18 U	0.19 U	0.19 U	0.20 U	0.16 U	0.18 U	0.20 U	0.19 U	0.15 U	0.16 U
Cd	0.71 U	0.93 U	0.92 U	0.79 U	0.89 U	0.83 U	1.1	0.76 U	0.83 U	1.0 U	0.92 U	0.93 U	1.0	1.0 U	1.5	0.88 U	1.0 U	0.96 U	0.76 U	0.81 U
Ce	2580	2500	2150	2420	3200	3440	3270	3620	6420	3650	3580	3650	3710	3220	5790	6960	6210	6150	7520	5880
Cr	0.71 U	0.93 U	0.92 U	0.79 U	0.89 U	0.83 U	1.0 U	0.76 U	0.83 U	1.0 U	0.92 U	0.93 U	0.93 U	1.0 U	1.5	0.88 U	1.0 U	0.96 U	0.76 U	0.81 U
Co	0.36	0.38	0.37 U	0.32 U	0.36 U	0.33 U	0.40 U	0.31 U	0.33 U	0.40 U	0.37 U	0.37 U	0.37 U	0.40 U	0.38	0.35 U	0.40 U	0.38 U	0.30 U	0.32 U
Cu	19.4	18.1	13.9	17.2	9.2	7.1	8.0	6.7	10.6	6.7	7.5	7.8	7.6	4.4	9.7	5.6	7.2	6.7	6.2	8.0
Fe	232	222	217	162	58.5	61.5	51.4	58.2	157	118	67.6	98.4	50.6	66.8	184	78.6	72.1	70.0	91.8	68.9
Pb	0.38 U	0.24 U	0.21 UJ	0.24 U	0.30 UJ	0.19 U	0.17 UJ	0.19 U	0.18 UJ	0.18 U	0.18 U	0.18 UJ	0.19 UJ	0.16 UJ	0.17 UJ	0.18 UJ	0.18 UJ	0.17 UJ	0.32 UJ	0.17 UJ
Mg	1930	1880	1580	1860	1310	1180	1270	1210	1630	1500	1410	1530	1430	1310	1760	1920	1540	1900	2040	1600
Mn	22.6	21.6	19.2	20.7	16.0	12.5	19.9	15.3	41.3	13.9	14.5	32.6	13.2	11.9	17.4	21.6	20.4	16.7	27.0	14.4
Hg	0.10 U	0.10 U	0.10 U	0.10 U	0.09 U	0.10 U	0.09 U	0.10 U	0.10 U	0.09 U	0.08 U	0.10 U	0.09 U	0.08 U	0.10 U	0.09 U	0.10 U	0.10 U	0.10 U	0.09 U
Ni	2.8 U	3.7 U	3.7 U	3.2 U	3.6 U	3.3 U	4.0 U	3.1 U	3.3 U	4.0 U	3.7 U	3.7 U	3.7 U	4.0 U	3.1 U	3.5 U	4.0 U	3.8 U	3.0 U	3.2 U
K	37400	36200	29400	35300	21600	18600	24400	19700	18800	19700	15800	20100	18000	19800	18700	21000	18400	16800	16700	20500
Se	0.57 U	0.56 U	0.53 UJ	0.55 U	0.53 U	0.57 U	0.50 U	0.57 U	0.55 J	0.46 U	0.55 U	0.54 UJ	0.57 U	0.47 U	0.52 UJ	0.55 UJ	1.4 J	0.50 U	0.50	0.52 UJ
Ag	0.43 UJ	0.56 UJ	0.55 UJ	0.48 UJ	0.54 UJ	0.50 UJ	0.60 UJ	0.46 UJ	0.50 UJ	0.60 UJ	0.55 UJ	0.56 UJ	0.56 UJ	0.60 UJ	0.47 UJ	0.53 UJ	0.60 UJ	0.58 UJ	0.45 UJ	0.48 UJ
Na	203 U	210 U	200 U	198 U	171 U	145 U	130 U	112 U	123 U	180 U	134 U	311 U	199 U	104 U	110 U	202 U	111 U	164 U	99.5 U	126 U
Tl	0.38 UJ	0.37 UJ	0.35 UJ	0.37 UJ	0.35 UJ	0.38 UJ	0.34 UJ	0.38 UJ	0.33 UJ	0.31 UJ	1.8 UJ	0.41 J	0.38 UJ	0.31 UJ	1.7 UJ	0.36 UJ	0.36 UJ	0.33 UJ	0.33 UJ	0.35 UJ
V	0.28 U	0.37 U	0.37 U	0.32 U	0.36 U	0.33 U	0.40 U	0.31 U	0.33 U	0.40 U	0.37 U	0.37 U	0.37 U	0.40 U	0.31 U	0.35 U	0.40 U	0.38 U	0.30 U	0.32 U
Zn	71.5 J	69.4 J	57.1 J	69.0 J	36.0 J	27.2 J	36.2 J	24.1 J	19.4 J	29.1 J	25.4 J	44.8 J	29.8 J	13.1 J	142 J	23.5 J	16.9 J	22.2 J	18.1 J	22.8 J
CN	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

NR not reported and/or requested

95300-0338

300-FF-1 SUMMARY TABLE

Laboratory: Meyerhaeuser

SDG #: B009D5

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

Parameter	NBS Std		
	N of 300 Area B009D5	B00BK6	B00BK7
		Pine Needle	Citrus 1BAF
Al	35.6 U	451	53.8 U
Sb	3.7 U	3.2 U	3.1 U
As	0.38 UJ	0.37 UJ	3.5 J
Ba	13.1 J	6.3 J	19.4 J
Be	0.18 U	0.16 U	0.16 U
Cd	0.92 U	0.80 U	0.79 U
Ca	6080	4030	29700
Cr	0.92 U	0.96	0.79 U
Co	0.37 U	0.32 U	0.36
Cu	15.4	3.7	15.4
Fe	78.7	135	63.9
Pb	0.19 R	10.3 J	13.4 J
Hg	1880	1150	5410
Mn	22.6	636	19.7
Hg	0.09 U	0.18	0.13
Ni	3.7 U	3.2 U	3.1 U
K	14900	3600	17000
Se	0.80 J	0.18 UJ	0.19 UJ
Ag	0.55 U	0.48 U	0.47 U
Na	134 J	89.9 U	212 U
Tl	0.38	0.55	0.20 J
V	0.37 U	0.53 U	0.31 U
Zn	23.6 J	58.0 J	25.7 J
CN	NR	NR	NR

NR not reported and/or requested

9513389-0339

300-FF-1 SUMMARY TABLE
 Laboratory: Meyerhaeuser
 SDG #: B009N7

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

Shrub + Grasses

Parameter	B009N7	B009N8	B009N9	B009P0	B009P1	B009P2	B009P3	B009P4	B009P5	B009P6	B009P7	B009P8	B009P9	B009P0	B009Q1	B009Q2
Al	371 J	1040 J	224 J	584 J	248 J	878 J	291 J	864 J	296 J	1170 J	429 J	635 J	230 J	829 J	350 J	1290 J
Sb	3.8 U	3.6 U	3.9 U	3.7 U	3.9 U	3.9 U	3.1 U	3.1 U	3.6 U	3.8 U	3.7 U	3.7 U	3.9 U	3.4 U	3.2 U	3.7 U
As	0.36 U	0.34 UJ	0.39 UJ	0.40 UJ	0.38 UJ	0.36 UJ	0.37 UJ	0.35 UJ	0.36 UJ	0.37 U	2.0 U	0.40 R	0.34 R	0.36 R	0.33 UJ	0.37 UJ
Ba	7.8	36.2	5.9	28.5	8.6	46.5	7.9	36.4	10.3	38.7	10.3	29.4	5.0 U	34.5	7.7	39.0
Be	0.19 U	0.18 U	0.19 U	0.18 U	0.19 U	0.20 U	0.16 U	0.16 U	0.18 U	0.19 U	0.19 U	0.19 U	0.19 U	0.17 U	0.16 U	0.18 U
Cd	0.95 U	0.91 U	0.97 U	0.92 U	0.97 U	0.98 U	0.78 U	0.79 U	0.91 U	0.96 U	0.93 U	0.93 U	0.97 U	0.85 U	0.79 U	0.92 U
Ca	6400	4090	6460	4110	7580	4920	6680	3310	10000	4600	8860	4420	5430	3810	6880	6490
Cr	0.95 U	1.3	0.97 U	0.92 U	12.8	0.98 U	0.78 U	0.81	0.91 U	1.1	0.93 U	0.93 U	0.97 U	0.85 U	0.79 U	1.2
Co	0.38 U	0.63	0.52	0.37 U	0.39 U	0.51	0.31 U	0.59	0.36 U	1.0	0.37 U	0.37 U	0.39 U	0.43	0.35	0.89
Cu	9.5	6.9	7.4	5.2	3.7	3.3	7.3	1.8	2.6	1.4	3.8	1.7	2.1	1.4	4.5	5.8
Fe	604	1580	326	892	460	1430	466	1470	440	2120	660	1040	323	1360	532	2180
Pb	4.9 J	3.9 J	2.8 J	3.5 J	3.6 J	4.8 J	2.7 J	1.9 J	1.2 J	3.4 J	1.5 J	1.9 J	1.7 J	4.2 J	2.0 J	4.5 J
Mg	1480	964	1640	1090	1700	1240	1330	971	1440	966	1410	905	680	907	1400	1380
Mn	36.6	50.5	30.3	33.1	45.0	45.8	48.7	50.9	62.2	52.1	65.2	43.5	28.4	41.2	52.1	62.0
Ni	0.09 UJ	0.09 UJ	0.09 UJ	0.10 UJ	0.10 UJ	0.09 UJ	0.09 UJ	0.09 UJ	0.09 UJ	0.10 UJ	0.09 UJ	0.09 UJ	0.09 UJ	0.09 UJ	0.09 UJ	0.09 UJ
Ni	3.8 U	3.6 U	3.9 U	3.7 U	8.4	3.9 U	3.1 U	3.1 U	3.6 U	3.8 U	3.7 U	3.7 U	3.9 U	3.4 U	3.2 U	3.7 U
K	19800	3120	20500	4510	16300	3280	18700	3290	17900	2810	16600	3660	17300	3100	16100	2860
Se	0.55 U	0.52 UJ	0.58 UJ	0.59 UJ	0.58 UJ	0.54 UJ	0.56 UJ	0.53 UJ	0.54 UJ	0.56 UJ	0.59 UJ	0.59 U	0.51 UJ	0.54 UJ	0.49 UJ	0.56 UJ
Ag	0.57 R	0.55 R	0.58 R	0.55 R	0.58 R	0.59 R	0.47 R	0.47 R	0.55 R	0.58 R	0.56 R	0.56 R	0.58 R	0.51 R	0.48 R	0.55 R
Na	113 U	189 U	104 U	157 U	80.0 U	238 U	90.2 U	164 U	120 U	189 U	151 U	145 U	106 U	152 U	113 U	194 U
Tl	0.18 UJ	0.17 UJ	0.19 UJ	0.20 UJ	0.19 UJ	0.18 UJ	0.19 UJ	0.18 UJ	0.18 UJ	0.19 U	0.25 J	0.20 UJ	0.17 UJ	0.18 UJ	0.16 UJ	0.19 UJ
V	0.82	6.5	0.39 U	2.9	0.39 U	4.4	0.57	3.6	0.71	5.3	1.3	2.2	0.39	3.3	0.85	5.7
Zn	23.2	64.9	28.0	15.9	27.1	27.2	14.3	22.8	21.0	18.1	29.3	103	10.5	15.3	13.4	20.5
Cd	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

NR not reported and/or requested

953380 0310

9513388.0341

9057870

ATTACHMENT 9



From: 200/300 Environmental Engineering Section 81220-90-403
Phone: 6-4034 H4-55
Date: November 7, 1990
Subject: ANALYSIS OF VEGETATION SAMPLES BY WEYERHAEUSER TECHNOLOGY CENTER

To: J. H. Kessner T6-08
J. A. Lerch T6-08

cc: M. R. Adams *MMA* H4-55
R. A. Bechtold T6-08
R. A. Carlson *RCC* H4-55
S. W. Clark H4-55
R. G. Dieffenbacher H4-16
D. H. Jones H4-16
E. J. Kosiancic R2-67
M. J. Lauterbach H4-55
LCH: File/LB

- Reference: (1) Internal Memo, J. A. Lerch to L. C. Hulstrom, "Transmittal of Validated Data for the 300-FF-1 Project (Trans #2)," dated September 20, 1990.
- (2) Internal Memo, L. C. Hulstrom to J. H. Kessner and J. A. Lerch, "Requirements for Data Validation of 300-FF-1 Operable Unit Data," dated September 13, 1990.
- (3) Internal Memo, J. A. Lerch to L. C. Hulstrom, "Transmittal of Validated Data for the 300-FF-1 Project (Trans #1)," dated September 4, 1990.

On 5/25/90, a contract was placed with the Weyerhaeuser Technology Center (Weyerhaeuser) to perform "Contract Laboratory Program (CLP) Routine Analytical Services for Inorganics by ICP, plus mercury on 121 samples of dried vegetation." These materials were from the 300-FF-1 Operable Unit Remedial Investigation. The first shipment of samples, consisting of 75 samples for mercury analysis was sent on 6/4/90. The second shipment, consisting of eight samples for mercury analysis, 81 CLP metals analysis, and two standards was sent on 6/21/90. The third and final shipment, consisting of 16 mercury analysis and 16 CLP metals analysis samples, was sent on 7/30/90.

The first copy of the Office of Sample Management (OSM) Sample Tracking System, which by procedure (WHC-CM-5-3, Section 1.0, Rev. 0, dated 8/27/90) is to be updated daily with weekly printouts, was delivered to L. C. Hulstrom on 9/17/90 after several requests and/or inquiries regarding the status of this database had been made. This was a month and a half after the last shipment had been sent to Weyerhaeuser. This information should be made available on a routine basis (e.g. within several days of receipt at the laboratory or after receipt of data from the laboratory) for customers with samples or analyses that are outstanding. The Environmental Engineering Group has yet to receive any further updates even though it has been requested.

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81220-90-403

On 9/4/90 the first transmittal of three Sample Delivery Groups (SDGs) (ASPG19, ASPG39, and B00985) was sent from the OSM (Reference 3). Receipt of these data packages initiated discussions with S. W. Clark and J. A. Lerch regarding an acceptable format for a data validation summary report. Reference 2 was written to OSM providing a format for an acceptable report. Table 1 provides an accounting of when the SDGs were received by OSM and when the validated data was transmitted to the Environmental Engineering Group.

SDG #	Log in Date at OSM	Data Validation Completed	Transmittal to Env. Eng.
ASPG19	8/13/90	9/1/90	9/4/90
ASPG39	8/28/90	9/1/90	9/4/90
B00985	8/28/90	9/1/90	9/4/90
B009B5	9/14/90	9/18/90	9/20/90
B009D5	9/14/90	9/17/90	9/20/90
B009N7	9/17/90	9/19/90	9/20/90

The second transmittal of three Sample Delivery Groups (B009B5, B009D5, and B009N7) was sent from OSM on 9/20/90 (Reference 1). This second set of data packages contained copies of Weyerhaeuser Analytical Laboratory Services Request forms, Battelle Chain of Custody forms, and Weyerhaeuser Sample Receipt forms not previously contained in the earlier transmittal of SDGs. After review of this supplemental information a number of discrepancies were noted. These discrepancies had not been noted on the Data Assessment Summary sheets from OSM. Therefore, R. A. Bechtold was contacted on 10/4/90 and requested to contact Weyerhaeuser to discuss these items, or have J. M. Duncan do so.

From recent discussions it is apparent that both personnel contacted Weyerhaeuser. R. A. Bechtold received a single facsimile page of a Sample Receipt form on 10/5/90. J. M. Duncan received a much more lengthy facsimile on 10/23/90. The information from J. M. Duncan was delivered to L. C. Hulstrom on 10/26/90. Comparison of this information to that included in the six data packages received thus far presented yet some additional discrepancies. These were again discussed with personnel from OSM and Environmental Quality Assurance during the week of 10/29/90. On 11/2/90 L. C. Hulstrom visited OSM's offices to inspect the data packages and discuss the situation with R. A. Bechtold and J. A. Lerch. The following is a list of the concerns/discrepancies that are notable.

Discrepancies from the second set of SDGs (information not included in the first set of SDGs)

- 1) Weyerhaeuser Analytical Laboratory Services Request forms contained blanks that were not filled in, marked "not applicable" or otherwise lined-out. Additionally the original forms completed by Battelle and transmitted with the samples were not transmitted to WHC in the SDGs and it appears that Weyerhaeuser translated this information to a new form for some reason.

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81220-90-403

- 2) Battelle Chain of Custody forms (CAB021, CAB022, and CAB023) were not complete. There was no signature and tally record from the shipping company indicating receipt of the samples. The signature acknowledging receipt by Weyerhaeuser was not present on the forms. The form was, however, copied and placed in at least two separate data packages where they were then numbered with the rest of the package.
- 3) The Sample Receipt form used by Weyerhaeuser to log in the sample containers acknowledges the date, time, and temperature only. The form was otherwise incomplete and did not contain any indications of what the sample numbers were. The form was, however, copied and placed in at least two separate data packages where they were then numbered with the rest of the package.

Discrepancies noted via comparison with the supplemental information from Weyerhaeuser received via OSM on 10/26/90

Note: In addition to the typed Analytical Services Request Form, the sample receipt form, and a copy of the original Analytical Services Request Form, the supplemental information also contained copies of the Battelle Chain of Custody forms, the WHC Release to Ship form, the Federal Express Constant Surveillance Service/Signature Security Service form, and a copy of the Federal Express Airbill form.

- 1) Copies of Battelle Chain of Custody forms (CAB021, CAB022, CAB023) in this supplemental package from Weyerhaeuser are different from those received with the original data packages. Differences include a "received by" signature and date now on the form that was absent before, the absence of page numbering at the top and bottom of the form, and the absence of notations that describe which SDG the samples belong to. This indicates that Weyerhaeuser potentially has a duplicate set of records that they inconsistently use at different times, and it potentially indicates that they may have backdated the Chain of Custody forms. This might be explained if they keep the original Chain of Custody forms separate from the originals of the data package. However it does not explain how the unsigned form got into the originals of the data package. These problems affect 5 of the 6 SDG's and therefore could jeopardize about 46% of the sample analyses that were performed.
- 2) This same situation occurs with the Weyerhaeuser Sample Receipt form that they provided. For samples received on 6/5/90 and 6/22/90 the forms placed in the data package files contained no indication of what sample numbers were received. After identifying this to Weyerhaeuser the copy of one such form that was transmitted to R. A. Bechtold on 10/5/90 contained all of the missing numbers. This same form was however different than the one received on 10/23/90 by J. M. Duncan. Consequently, there are three different versions of this one page in WHC possession. Again this would appear to be a duplication of records.

9513388.0345

9057870

ATTACHMENT 10



From: Office of Sample Management
 Phone: 3-3419 MO-346/200W T6-08
 Date: November 14, 1990
 Subject: INSPECTION OF 300-FF-1 DATA PACKAGES AT WEYERHAEUSER
 ANALYTICAL AND TESTING SERVICES

16500-90-087

To: L. C. Hulstrom H4-55

cc: M. R. Adams H4-55*
 R. A. Bechtold T6-08
 W. L. Johnson H4-55*
 J. H. Kessner T6-08*
 E. J. Kosiancic R2-67*
 Data Files
 JAL File/LB
 *w/o attachments

Representatives from the Westinghouse Company (WHC) Office of Sample Management (OSM) and Weyerhaeuser Analytical and Testing Services (Weyerhaeuser) met on-site at Weyerhaeuser on November 7, 1990, to discuss shipping and sample documentation inconsistencies identified in six data packages transmitted to the OSM for the 300-FF-1 Project. Attendees of the meeting included:

R. A. Bechtold (WHC-OSM)
 J. A. Lerch (WHC-OSM)
 B. L. Chappel (Weyerhaeuser)
 K. H. Doxsee (Weyerhaeuser)
 M. B. Lanza (Weyerhaeuser)

The main issues of concern were the appearance of multiple Chain-of-Custody (COC) records and incomplete shipping/sample documentation in the six data packages. Inspection and discussion of the data files at Weyerhaeuser concluded with adequate resolution of the issues.

A brief chronological history is necessary to better understand the observed inconsistencies. Field samples taken by Pacific Northwest Laboratories (PNL) were collected in separate containers for Hg and the remaining Contract Laboratory Program (CLP) Target Analyte List (TAL) metals. All samples underwent a drying process prior to off-site shipment. Weyerhaeuser received three shipments of vegetation samples for the 300-FF-1 project as follows (also see Table 1):

June 5, 1990:

One cooler containing samples for Hg analysis only (sent prior to below shipment because of Hg holding time considerations).

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June 22, 1990:

Two coolers containing samples for remaining TAL metals analysis (corresponding to the Hg samples sent on June 5, 1990); eight samples for Hg analysis also included.

August 1, 1990:

One cooler containing samples for both Hg and TAL metals analysis.

Samples received on June 5, 1990, and June 22, 1990, were divided into five Sample Delivery Groups (SDG) according to EPA protocol, which defines a SDG as a group of twenty or fewer samples received over a period of up to fourteen calendar days. Weyerhaeuser was given a cross reference listing of TAL samples and Hg samples and was requested to combine the results in the same data package by R. A. Bechtold on June 29, 1990. Samples received on August 1, 1990, were placed in a stand-alone SDG.

300-FF-1 sample data was received by OSM in the six SDG's listed in Table 1. Review of the transmitted data packages revealed that sample and shipping documentation was absent or incomplete in the packages and that some of the COC forms transmitted in SDG packages B009B5 and B009D5 were unsigned by Weyerhaeuser.

The 300-FF-1 data are bound in three files at Weyerhaeuser as described in Table 1 (arbitrarily file one, two, and three). Discrepancies noted with transmittal of shipping/sample documentation are a reflection of the location of original documentation in two of the three bound Weyerhaeuser files containing data transmitted in six SDG's. Original documents in the bound files were inspected and found to be complete for the three shipment dates. Receipt of the coolers at Weyerhaeuser receiving was verified by signature on the Federal Express shipping forms. All original COC forms were signed and dated by Weyerhaeuser personnel and no evidence of back-dating was apparent.

The appearance of unsigned COC forms in the transmitted data packages were the result of copies made from the original forms for use as "worksheets" as samples were pulled from the two coolers, logged-in, and divided into SDG's on June 22, 1990. The original "worksheets" are located in the bound data files and were included with transmission of some of the data packages by the package assembly group, as a mistake. Bonnie Chappel of the Weyerhaeuser Sample Management Office acknowledged that the COC forms should have been signed before any copies were made. No further action concerning the issue was taken as the WHC contract with Weyerhaeuser has expired since OSM received the 300-FF-1 data.

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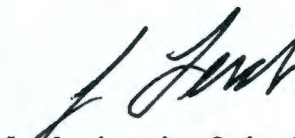
16500-90-087

Necessary attention will be given in this area to ensure that such events do not occur during future analytical contracts. The OSM recommends that sample shipments of greater than twenty samples per cooler/shipping container be avoided whenever possible. This suggested up-front type of corrective action would eliminate many of the problems described above.

Copies of the shipping/sample documentation from the two Weyerhaeuser data files containing original documentation for each of the three shipment dates are Attachments one through three. Together with this Internal Memo, they will be placed with the 300-FF-1 data packages currently located at OSM. The documentation included in the attachments consists of:

- o Battelle Pacific Northwest Laboratories COC Forms (generated by PNL)
- o Receipt of Westinghouse Samples Form (Weyerhaeuser)
- o Analytical Laboratory Services Request Forms (PNL)
- o WHC Release to Ship Form
- o Federal Express Airbill
- o Federal Express Constant Surveillance Service/Signature Security Service Tally Record (service was discontinued by Federal Express on July 1, 1990)

If you have any questions, please contact J. A. Lerch at 3-3419 or R. A. Bechtold at 3-3448.


J. A. Lerch, Scientist
Office of Sample Management


R. A. Bechtold, Principal Scientist
Office of Sample Management

jmd

Attachments - 3

9513388.0349

TABLE 1
300-FF-1 SAMPLE DELIVERY GROUPS

SAMPLE DELIVERY GROUP	Hg SAMPLES RECEIVED	TAL SAMPLES RECEIVED	WEYERHAEUSER FILE NUMBER	WEYERHAEUSER SHIPPING DOCUMENTATION FILE	ATTACHMENT NUMBER
ASPG19	06/05/90	06/22/90	1	1	1 & 2
ASPG39	06/05/90	06/22/90	1	1	1 & 2
B00985	06/05/90	06/22/90	1	1	1 & 2
B009B5	06/05/90	06/22/90	2	1	1 & 2
B009D5	06/22/90	06/22/90	2	1	1 & 2
B009N7	08/01/90	08/01/90	3	3	3



CHAIN OF CUSTODY

CAB 028

Company Contact: Charles A. Brandt Telephone: (509) 376-5345
 Samples Collected by: R.J. Fellows Date: 7/30/90 Time: 14:30
 Sample Location: 300 FF.1
 Ice Chest No.: RM #7 Field Logbook Page No.: 52960
 Remarks: Rabbit brush and Grass samples found in CAB 019 and CAB 020
for Metals + Pb
 Method of Shipment: Fed Exp.

Sample Identification

<u>B009N7</u>	<u>B009P8</u>
<u>B009N8</u>	<u>B009Q0</u>
<u>B009N9</u>	<u>B009Q1</u>
<u>B009P0</u>	<u>B009Q2</u>
<u>B009P1</u>	
<u>B009P2</u>	
<u>B009P3</u>	
<u>B009P4</u>	
<u>B009P5</u>	
<u>B009P6</u>	
<u>B009P7</u>	
<u>B009P9</u>	

Chain of Possession

Relinquished by: <u>Robert J. Fellows</u>	Received by: <u>R.J. Fellows</u>	Date/Time: <u>7-30-90 14:57</u>
Relinquished by: <u>R.J. Fellows</u>	Received by: <u>S. Raymond</u>	Date/Time: <u>7-30-90 3:10 PM.</u>
Relinquished by: <u>[Signature]</u>	Received by: <u>Bonnie Chappel</u>	Date/Time: <u>8-1-90 1030</u>
Relinquished by:	Received by:	Date/Time:



CHAIN OF CUSTODY

CAB 029

Company Contact: Charles A Brandt Telephone: 376.5345 (509)
 Samples Collected by: Robert Fellows Date: 7/30/90 Time: 14:30
 Sample Location: 300 FF-1
 Ice Chest No.: RM #7 Field Logbook Page No.: 52960
 Remarks: veg samples for Hg analysis as found in CAB 019 and CAB 020

Method of Shipment: Fed Express

Sample Identification

<u>B00BL0</u>	<u>B00BM2</u>
<u>B00BL1</u>	<u>B00BM3</u>
<u>B00BL2</u>	<u>B00BM4</u>
<u>B00BL3</u>	<u>B00BM5</u>
<u>B00BL4</u>	
<u>B00BL5</u>	
<u>B00BL6</u>	
<u>B00BL7</u>	
<u>B00BL8</u>	
<u>B00BL9</u>	
<u>B00BM0</u>	
<u>B00BM1</u>	

Chain of Possession

Relinquished by: Robert Fellows

Received by: R. J. Stoff

Date/Time: 7-30-90 1457

Relinquished by: R. J. Stoff

Received by: J. Raymond

Date/Time: 7/30/90 3:10 pm.

Relinquished by: [Signature]

Received by: Bonnie Chappel

Date/Time: 8-01-90 1030

Relinquished by: _____

Received by: _____

Date/Time: _____

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

	<u>DATE</u>	<u>TIME</u>
WEYCO SHIPPING/RECEIVING	<u>8.1.90</u>	<u>0900</u>
WEYCO SAMPLE MANAGEMENT	<u>8.1.90</u>	<u>1030</u>
OPENING OF COOLER:	<u>1145</u>	_____
TEMPERATURE:	<u>16</u>	_____
SAMPLES RECEIVED:	<u>B009N7</u>	<u>B009P6</u>
	N8	P7
	N9	P8
	P0	P9
	P1	Q0
	P2	Q1
	P3	<input checked="" type="checkbox"/> Q2
	P4	_____
	<input checked="" type="checkbox"/> P5	_____

COMMENTS: _____

CONFIRMATION:

CALLED WESTINGHOUSE: _____

MAILED TALLY RECORD: _____

MAILED PAPER WORK: _____

ALL PAGES SIGNED: _____



ANALYTICAL LABORATORY SERVICES REQUEST
Research and Development - Analysis and Testing

REQUEST NUMBER

TITLE **300-FF-1**

NUMBER OF SAMPLES **16** PROJECT NUMBER **15453** GROUPS

DATE RECEIVED DATE DESIRED ESTIMATED COMPLETION DATE

SUBMITTED BY **R. Bechtold** LOCATION **WHO Richland WA 99352** TELEPHONE **(509) 373-1035**

REVIEWED BY LOCATION TELEPHONE

COPY TO

NAME OF TEST OR METHOD	Expected Report Range			REPORT BASIS	LOWER LIMIT SENSITIVITY	SPECIAL HANDLING	
	%	PPM	PPB			<input type="checkbox"/> Keep Chilled	<input type="checkbox"/> Keep Frozen
Hg as specified in CLP SOW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As specified in CLP SOW		<input type="checkbox"/> Other	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			PRESERVATIVE ADDED	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Kind	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Amount	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Does submitter want non-hazardous samples returned?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

*Indicate volume or weight basis on O.D. or as received sample, etc.

SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
BφφBLφ		BφφBM3	
BφφBL1		BφφBM4	
BφφBL2		BφφBM5	
BφφBL3			
BφφBL4			
BφφBL5			
BφφBL6			
BφφBL7			
BφφBL8			
BφφBL9			
BφφBMφ			
BφφBM1			
BφφBM2			

INTERIM REPORT DESIRED Yes No HAZARDOUS SAMPLES Yes No

REFERENCE RECORD BOOK

RESULTS APPROVED DATE SIGNATURE APPLIES TO PAGE NUMBER

_____ attached pages



ANALYTICAL LABORATORY SERVICES REQUEST
Research and Development - Analysis and Testing

REQUEST NUMBER

TITLE 300-FF-1 RI/FS			
NUMBER OF SAMPLES 16	PROJECT NUMBER 15453	GROUPS	
DATE RECEIVED	DATE DESIRED	ESTIMATED COMPLETION DATE	
SUBMITTED BY R Bechtold		LOCATION WHO Richland WA 99352	TELEPHONE (509) 373-1035
REVIEWED BY		LOCATION	TELEPHONE
COPY TO			

NAME OF TEST OR METHOD	Expected Report Range			REPORT BASIS	LOWER LIMIT SENSITIVITY	SPECIAL HANDLING	
	%	PPM	PPB			<input type="checkbox"/> Keep Chilled	<input type="checkbox"/> Keep Frozen
ICP metals + Pb	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As specified in LLP Sow		<input type="checkbox"/> Other	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			PRESERVATIVE ADDED	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Kind	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Amount	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Does submitter want non-hazardous samples returned?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

*Indicate volume or weight basis on O.D. or as received sample, etc.

SAMPLE DESCRIPTION AND HISTORY (include potential hazards) **Vegetation Samples - environmental**

SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
B009N7		B009Q2	
B009N8		B009T10	
B009N9		B009P9	
B009P0		B009Q0	
B009P1			
B009P2			
B009P3			
B009P4			
B009P5			
B009P6			
B009P7			
B009P8			
B009Q1			

INTERIM REPORT DESIRED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	HAZARDOUS SAMPLES <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
REFERENCE	RECORD BOOK		
RESULTS APPROVED	DATE	SIGNATURE APPLIES TO	PAGE NUMBER
		attached pages	



Westinghouse Hanford Company
A subsidiary of Westinghouse Electric Corporation
P.O. Box 1970 Richland, Wa. 99352

RELEASE TO SHIP

42773

MO	DAY	YR
7	30	90

DATE SHIPPED		
MO	DAY	YR
7	30	90

VENDOR CODE
57650

PURCHASE ORDER REF
MDR-SVY-060642

SHIP TO
WEYERHAUSER ANALYTICAL & TESTING SERVICES - WEYERHAUSER TECH CENTER
32901 WEYERHAUSER WAY
FEDERAL WAY WA 98003

FOR ACCOUNT OF
WESTINGHOUSE HANFORD COMPANY
P. O. BOX 1970
RICHLAND WA 99352

F.O.B. Federal Way, WA	CAR INITIALS AND NO. <i>James</i>	FRT. CHGS. VENDOR WESTINGHOUSE HANFORD	BUYER CODE DR	BUYER NAME D. A. Raap	PHONE 376-3747
BL RPT - 301318	BL WEIGHT <i>11.71</i> <i>38#</i>	ROUTING Fed Express	RETURN DUE DATE	REQUISITION NO. 060642	

PRO ITEM	QUANTITY	U/M	DESCRIPTION	AMOUNT
1	1	EA	Chests of samples	\$10,000

REDISTRIBUTE COST YES NO SPECIAL PACKAGING REQUIRED YES NO

REASON FOR SHIPMENT: **N** (MISCELLANEOUS)

HAZARDOUS MATERIAL YES NO - IF YES, HAZARDOUS MATERIAL FORM IS REQUIRED TO ACCOMPANY MATERIAL.

LOCATION OF MATERIAL: _____ TOTAL PIECES: _____ RM CLEARANCE FOR PURCHASE: _____ SURVEY NO.: 301318
DATE: 7-30-90

CUSTODIAN: *James* PHONE: _____ DATE AVAILABLE FOR SHIPMENT: _____

ITEM	CO ID	COST CENTER	MC	COST ELEMENT	CHARGE CODE	% OF COST	AUTHORIZED BY D. A. Raap	DATE 7/30/90
1	TW	81222		210	EC324	100	FOR SHIPPING OPERATION	7/30/90

tem 21.6



CHAIN OF CUSTODY

CAB021

Company Contact: Charles A Brandt Telephone: (509) 376-5345
 Samples Collected by: RJ Fellows Date: 6/21/90 Time: 11:00
 Sample Location: 300-FF-1
 Ice Chest No.: #9 Field Logbook Page No.: 52960-934-11
 Remarks: Asparagus stems+leaves - samples for TCAP Analysis Shanon Coc-CAB021,05
06, 07, 08, 09, 010, 011
 Method of Shipment: Fed Express

Sample Identification

ASPG-019	ASPG-031	ASPG-043	B00981
ASPG-020	ASPG-032	ASPG-044	B00982
ASPG-021	ASPG-033	ASPG-045	B00983
ASPG-022	ASPG-034	ASPG-046	B00984
ASPG-023	ASPG-035	ASPG-047	B00985
ASPG-024	ASPG-036	ASPG-048	B00986
ASPG-025	ASPG-037	ASPG-049	B00987
ASPG-026	ASPG-038	ASPG-050	B00988
ASPG-027	ASPG-039	ASPG-0	B00989
ASPG-028	ASPG-040	B00978	B00990
ASPG-029	ASPG-041	B00979	B00991
ASPG-030	ASPG-042	B00980	B00992

Chain of Possession

Relinquished by: <u>RJ Fellows</u>	Received by: <u>C. Russell</u>	Date/Time: <u>6-21-90 1300</u>
Relinquished by: <u>C. Russell</u>	Received by: <u>Shessett</u>	Date/Time: <u>6/21/90 1:30 pm</u>
Relinquished by:	Received by: <u>Karen Kiler</u>	Date/Time: <u>6/22/90 10:20AM</u>
Relinquished by:	Received by:	Date/Time:

Temp 21.5



CHAIN OF CUSTODY

CAB022

Company Contact: Charles A Brandt Telephone: (509) 376-5345
 Samples Collected by: RJ Fellows Date: 6/21/90 Time: 11:00
 Sample Location: 300-FF-1
 Ice Chest No.: 20 Field Logbook Page No.: 52960-934-35
 Remarks: Asparagus Stems+leaves - Samples for ICAP Analysis shown in CAC's CAB-04,05,06,
07,08,09,10,11, B00BK6- Pine Nadelstid B00BK7-Citrus lf. Std
 Method of Shipment: Fed Express

Sample Identification

B00993	B00985	B009C7
B00994	B00986	B009C8
B00995	B00987	B009C9
B00996	B00988	B009D0
B00997	B00989	B009D1
B00998	B009C0	B009D2
B00999	B009C1	B009D3
B009B0	B009C2	B009D4
B009B1	B009C3	B009D5
B009B2	B009C4	B00BK6
B009B3	B009C5	B00BK7
B009B4	B009C6	

Chain of Possession

Relinquished by: R J Fellows

Received by: C. Russell

Date/Time: 6-21-90 1300

Relinquished by: C. Russell

Received by: C. Russell

Date/Time: 6/21/90 1:30pm

Relinquished by: _____

Received by: Karen Wilson

Date/Time: 6/22/90 10:20 AM

Relinquished by: _____

Received by: _____

Date/Time: _____

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

	DATE	TIME		
WEYCO SHIPPING/RECEIVING	<u>6.22.90</u>	<u>0920</u>		
WEYCO SAMPLE MANAGEMENT	<u>6.22.90</u>	<u>1020</u>		
OPENING OF COOLER:	<u>1100</u>	<u>1100</u>		
TEMPERATURE:	<u>21.6</u>	<u>21.5</u>		
SAMPLES RECEIVED:	ASPG19	ASPG43	B00993	B009C7
	20	44	94	C8.
	21	45	95	C9
	22	46	96	D0
	23	47	97	D1
	24	✓ 48	98	D2
	25	B00975	99	D3
	26	76	B0	D4
	27	77	B1	✓ D5
	28	78	B2	B00BK6
	29	79	B3	↓ K7
COMMENTS:	30	80	B4	B009N0
	31	81	B5	N1
	32	82	B6	N2
	33	83	B7	N6
	34	84	B8	N4
	35	85	B9	↓ N5
	36	86	C0	B00BN6
	37	87	C1	↓ N7
	38	88	C2	
	39	89	C3	
	40	90	C4	
	41	91	C5	
	✓ 42	✓ 92	✓ C6	

CONFIRMATION:

CALLED WESTINGHOUSE: _____
 MAILED TALLY RECORD: _____
 MAILED PAPER WORK: ✓
 ALL PAGES SIGNED: ✓

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ANALYTICAL LABORATORY SERVICES REQUEST
Research and Development - Analysis and Testing

REQUEST NUMBER

TITLE 300-FF-1 R1/F3		PROJECT NUMBER 15153		GROUPS	
NUMBER OF SAMPLES 83 (85-1-4) (85-1-2)		DATE RECEIVED		DATE DESIRED	
DATE RECEIVED		DATE DESIRED		ESTIMATED COMPLETION DATE	
SUBMITTED BY R. Beckbold			LOCATION WHO Richland WA 99352		TELEPHONE (509) 323-1035
REVIEWED BY			LOCATION		TELEPHONE
COPY TO					

NAME OF TEST OR METHOD	Expected Report Range			REPORT BASIS	LOWER LIMIT SENSITIVITY	SPECIAL HANDLING	
	%	PPM	PPB			<input type="checkbox"/> Keep Chilled	<input type="checkbox"/> Keep Frozen
ICP metals	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	as specified in CLP SOL.		<input type="checkbox"/> Other	
# Pb	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			PRESERVATIVE ADDED	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Kind	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Amount	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Does submitter want non-hazardous samples returned?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

*Indicate volume or weight basis on O.D. or as received sample, etc.

SAMPLE DESCRIPTION AND HISTORY (include potential hazards)
Vegetation samples - environmental

SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
A306019	ICP, Pb	A306032	ICP, Pb
A306020	"	" 033	"
A306021	"	" 034	"
" 022	"	" 035	"
" 023	"	" 036	"
" 024	"	" 037	"
" 025	"	" 038	"
" 026	"	" 039	"
" 027	"	" 040	"
" 028	"	" 041	"
" 029	"	" 042	"
" 030	"	" 043	"
" 031	"	" 044	"

INTERIM REPORT DESIRED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		HAZARDOUS SAMPLES <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
REFERENCE			RECORD BOOK
RESULTS APPROVED	DATE	SIGNATURE APPLIES TO _____ attached pages	PAGE NUMBER

pg 2 of 4



ANALYTICAL LABORATORY SERVICES REQUEST
Research and Development - Analysis and Testing

REQUEST NUMBER

TITLE 300-FF-1 R1/E5		
NUMBER OF SAMPLES 83	PROJECT NUMBER 15453	GROUPS
DATE RECEIVED	DATE DESIRED	ESTIMATED COMPLETION DATE
SUBMITTED BY R. Bechtold	LOCATION WHO, Richland WA 99352	TELEPHONE (509) 373-1035
REVIEWED BY	LOCATION	TELEPHONE
COPY TO		

NAME OF TEST OR METHOD	Expected Report Range			REPORT BASIS	LOWER LIMIT SENSITIVITY	SPECIAL HANDLING	
	%	PPM	PPB			<input type="checkbox"/> Keep Chilled	<input type="checkbox"/> Keep Frozen
ICP metals	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	as specified in CLP 5002		<input type="checkbox"/> Other	
Pb	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			PRESERVATIVE ADDED	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Kind	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Amount	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Does submitter want non-hazardous samples returned?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

*Indicate volume or weight basis on O.D. or as received sample, etc.

SAMPLE DESCRIPTION AND HISTORY (includes potential hazards)
Vegetation samples - environmental

SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
A5PG045	ICP, Pb	B00984	ICP, Pb
" 046	"	B00985	"
" 047	"	B00986	"
" 048	"	B00987	"
B00975	"	B00988	"
B00976	"	B00989	"
B00977	"	B00990	"
B00978	"	B00991	"
B00979	"	B00992	"
B00980	"	B00993	"
B00981	"	B00994	"
B00982	"	B00995	"
B00983	"	B00996	"

INTERIM REPORT DESIRED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	HAZARDOUS SAMPLES <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
REFERENCE	RECORD BOOK
RESULTS APPROVED	DATE
SIGNATURE APPLIES TO _____ attached pages	PAGE NUMBER

15384



ANALYTICAL LABORATORY SERVICES REQUEST
Research and Development - Analysis and Testing

REQUEST NUMBER

TITLE 300-FF-1 R1/F5			
NUMBER OF SAMPLES 83	PROJECT NUMBER 15453	GROUPS	
DATE RECEIVED	DATE DESIRED	ESTIMATED COMPLETION DATE	
SUBMITTED BY R. Bechtold	LOCATION W.H.O. Richland WA 99352	TELEPHONE 373-1035 (509)	
REVIEWED BY	LOCATION	TELEPHONE	
COPY TO			

NAME OF TEST OR METHOD	Expected Report Range			REPORT BASIS	LOWER LIMIT SENSITIVITY	SPECIAL HANDLING	
	%	PPM	PPB			<input type="checkbox"/> Keep Chilled	<input type="checkbox"/> Keep Frozen
ICP metals	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	as specified in CLP form		<input type="checkbox"/> Other _____	
Pb	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			PRESERVATIVE ADDED	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Kind _____	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Amount _____	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Does submitter want non-hazardous samples returned?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

*Indicate volume or weight basis on O.D. or as received sample, etc.

SAMPLE DESCRIPTION AND HISTORY (include potential hazards)

Vegetation samples - environmental

SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
B00997 B00997	ICP, Pb	B009C0	ICP, Pb
B00998	"	B009C1	"
B00999	"	B009C2	"
B00980	"	B009C3	"
B00981	"	B009C4	"
B00982	"	B009C5	"
B009D3	"	B009C6	"
B009B4	"	B009C7	"
B009B5	"	B009C8	"
B00936	"	B009C9	"
B00937	"	B009D0	"
B00938	"	B009D1	"
B009B9	"	B009D2	"

INTERIM REPORT DESIRED	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	HAZARDOUS SAMPLES	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
REFERENCE				RECORD BOOK	
RESULTS APPROVED	DATE	SIGNATURE APPLIES TO		PAGE NUMBER	
		_____ attached pages			

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ANALYTICAL LABORATORY SERVICES REQUEST
Research and Development - Analysis and Testing

REQUEST NUMBER

TITLE 300-PF-1 R1/FS		
NUMBER OF SAMPLES 83	PROJECT NUMBER 15453	GROUPS
DATE RECEIVED	DATE DESIRED	ESTIMATED COMPLETION DATE
SUBMITTED BY R. Bechtold	LOCATION W.H.D. Richard WA 99352	TELEPHONE (509) 373-1035
REVIEWED BY	LOCATION	TELEPHONE
COPY TO		

NAME OF TEST OR METHOD	Expected Report Range			REPORT BASIS	LOWER LIMIT SENSITIVITY	SPECIAL HANDLING	
	%	PPM	PPB			<input type="checkbox"/> Keep Chilled	<input type="checkbox"/> Keep Frozen
ICP metals	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	as specified in CLP SW		<input type="checkbox"/> Other	
Pb	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			PRESERVATIVE ADDED	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Kind	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Amount	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Does submitter want non-hazardous samples returned?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

*Indicate volume or weight basis on O.D. or as received sample, etc.

SAMPLE DESCRIPTION AND HISTORY (include potential hazards) **environmental samples - vegetation**

SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
B009D3	ICP, Pb		
B009D4	"		
B009D5	"		
B00BR6	"		
B00BR7	"		

INTERIM REPORT DESIRED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	HAZARDOUS SAMPLES <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
REFERENCE	RECORD BOOK		
RESULTS APPROVED	DATE	SIGNATURE APPLIES TO	PAGE NUMBER
		attached pages	



ANALYTICAL LABORATORY SERVICES REQUEST
Research and Development - Analysis and Testing

REQUEST NUMBER

TITLE 300-FF-1 R1/F 3		
NUMBER OF SAMPLES 8	PROJECT NUMBER 15453	GROUPS
DATE RECEIVED	DATE DESIRED	ESTIMATED COMPLETION DATE
SUBMITTED BY R. Bechtold	LOCATION 4510, Richland WA 99352	TELEPHONE (509) 373-1035
REVIEWED BY	LOCATION	TELEPHONE
COPY TO		

NAME OF TEST OR METHOD	Expected Report Range			REPORT BASIS	LOWER LIMIT SENSITIVITY	SPECIAL HANDLING	
	%	PPM	PPB			<input type="checkbox"/> Keep Chilled	<input type="checkbox"/> Keep Frozen
Hg, as specified in CLP sol.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	as specified in CLP Sol		<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			PRESERVATIVE ADDED	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Kind _____	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Amount _____	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Does submitter want non-hazardous samples returned?	
						<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

*Indicate volume or weight basis on O.D. or as received sample, etc.

SAMPLE DESCRIPTION AND HISTORY
(include potential hazards)

SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
B009N0	Hg		
B009N1	"		
B009N2	"		
B009N3 CAB 6/20/90	"		
B009N4	"		
B009N5	"		
B009N6	"		
B009N7	"		

INTERIM REPORT DESIRED <input type="checkbox"/> Yes <input type="checkbox"/> No	HAZARDOUS SAMPLES <input type="checkbox"/> Yes <input type="checkbox"/> No		
REFERENCE	RECORD BOOK		
RESULTS APPROVED	DATE	SIGNATURE APPLIES TO _____ attached pages	PAGE NUMBER

9513388.0366



Westinghouse
Hanford Company

Westinghouse Hanford Company
A subsidiary of Westinghouse Electric
Corporation
P.O. Box 1970 Richland, Wa. 99352

RELEASE TO SHIP

38235

DAY 21
YR 90

DATE SHIPPED
MO. 21 90

VENDOR CODE
57650

PURCHASE ORDER REF.
MDR-SYV-060642

SHIP TO
WEYERHAUSER ANALYTICAL & TESTING
SERVICES-WEYERHAUSER TECH CENTER
32901 WEYERHAUSER WAY
FEDERAL WAY WA 98003

FOR ACCOUNT OF
WESTINGHOUSE HANFORD COMPANY
P. O. BOX 1970
RICHLAND WA 99352

F.O.B. Federal Way, WA CAR INITIALS AND NO. 54#
FRT. CHGS. VENDOR WESTINGHOUSE HANFORD BUYER CODE DR BUYER NAME D.A. Raap PHONE 376-3747
B/L RPT -301099 BY WEIGHT 2 CHILTS 64# ROUTING ...Federal Express REQUISITION NO. 060642

QTY	ITEM	QUANTITY	U/M	DESCRIPTION	AMOUNT
1	2	EA		Chests of samples	\$10,000

RECEIVED BY
SIGNATURE
DATE 6-22-90

REDISTRIBUTE COST YES NO SPECIAL PACKAGING REQUIRED YES NO

REASON FOR SHIPMENT: N
A. RETURN FOR CREDIT
B. RETURN FOR REPLACEMENT
C. RETURN FOR REPAIR
D. RETURN VENDOR-OWNED RETURNABLE CONTAINER
E. RETURN OVERSHIPMENTS
F. RETURN SAMPLE
G. RETURN VENDOR-OWNED MATERIAL OR EQUIPMENT
H. SHIP GOVERNMENT-OWNED TOOLS, JGS, AND FIXTURES
I. SHIP EXCHANGE UNITS (CORE)
J. SHIP MATERIAL OR EQUIPMENT FOR REPAIR OR REBUILD
K. SHIP MATERIAL OR EQUIPMENT FOR REPAIR ESTIMATE
L. SHIP GOVERNMENT-OWNED RETURNABLE CONTAINER
M. SHIP GOVERNMENT-OWNED MATERIAL FOR USE IN FABRICATION
N. MISCELLANEOUS.

HAZARDOUS MATERIAL YES NO; IF YES, HAZARDOUS MATERIAL FORM IS REQUIRED TO ACCOMPANY MATERIAL.

LOCATION OF MATERIAL LSL/1311 Fred S. DeCoria RM CLEARANCE FOR PUBLIC SALE SURVEY NO. 301099
DATE 6-21-90

CUSTODIAN Becky Bechtold PHONE 3-3448 DATE AVAILABLE FOR SHIPMENT

ITEM	CO ID*	COST CENTER	MC	COST ELEMENT	CHARGE CODE	% OF COST	AUTHORIZED BY	DATE
1	TW	81222		210	EC324		D. A. Raap	6/21/90
							FOR DOE	DATE
							FOR SHIPPING OPERATION	DATE 6-21-90

9513388.0367

FEDERAL EXPRESS

QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER

7342240743

7342240743

RECIPIENT'S COPY

Date
06/21/90

From (Your Name) Please Print WESTINGHOUSE SHIPPING		Your Phone Number (Very Important) 509 376-6665	To (Recipient's Name) Please Print WEYERHAUSER ANALYTICAL & TESTING		Recipient's Phone Number (Very Important)
Company WESTINGHOUSE HANFORD		Department/Floor No.	Company SERVICES-WEYERHAUSER TECH CENTER		Department/Floor No.
Street Address 1000 AREA 1165 CLOG			Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Code.) 32901 WEYERHAUSER WAY		
City RTC-LAND	State VA	ZIP Required 94342	City FEDERAL WAY	State WA	ZIP Required 98003

YOUR INTERNAL BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice)
TWB1222 210 EC324 100 RO#38235 PO#MDR-SVV-060642

IF HOLD FOR PICK-UP, Print FEDEX Address Here
Street Address
City
State
ZIP Required

PAYMENT: Bill Sender Bill Recipient's FedEx Acct. No. Bill 3rd Party FedEx Acct. No. Bill Credit Card
 Cash

SERVICES (Check only one box)		DELIVERY AND SPECIAL HANDLING			PKGS	WEIGHT in Pounds oz	YOUR DECLARED VALUE	OVER INS	Emp. No.	Date	Federal Express Use Basic Charges
Priority Overnight Service (Delivery by next business morning)	Standard Overnight Service (Delivery by next business afternoon)	1 <input type="checkbox"/> HOLD FOR PICK-UP #8 on Box 10	1	54							Declared Value Charge
<input checked="" type="checkbox"/> FOUR PACKAGING 51	<input type="checkbox"/> FEDEX LETTER 56	2 <input checked="" type="checkbox"/> DELIVER WEEKDAY	1	64							Other 1
<input type="checkbox"/> FEDEX LETTER 56	<input type="checkbox"/> FEDEX LETTER 56	3 DELIVER SATURDAY (Late charge)									Other 2
<input type="checkbox"/> FEDEX PAK 52	<input type="checkbox"/> FEDEX PAK 52	4 DANGEROUS GOODS (Late charge) (GDS not available for Dangerous Goods Shipments)									Tobacco Charges
<input type="checkbox"/> FEDEX BOX 53	<input type="checkbox"/> FEDEX BOX 53	5 INSTANT SURVEILLANCE SVC. (CSS) (Late charge) (Passport Signature Not Applicable)									REVISION DATE 11/90 FORMAT 8014
<input type="checkbox"/> FEDEX TUBE 54	<input type="checkbox"/> FEDEX TUBE 54	6 DRY ICE (Late charge)	2	118							014
Economy Service (Standard AM/second)	Heavyweight Service (for Extra Large & any package over 150 lbs.)	7 OTHER SPECIAL SERVICE S.S.S	DIM SHIPMENT (package weight Services 149)								1040
<input type="checkbox"/> HEAVYWEIGHT 70	<input type="checkbox"/> HEAVYWEIGHT 70	8 O'NITE DELIVERY	DIM SHIPMENT (package weight Services 149)								6-22-90 9:20 AM
<input type="checkbox"/> DEFERRED HEAVYWEIGHT 80	<input type="checkbox"/> DEFERRED HEAVYWEIGHT 80	9 SATURDAY PICK-UP (if no charge)	DIM SHIPMENT (package weight Services 149)								6-22-90
<input type="checkbox"/> HOLIDAY DELIVERY (if no charge)	<input type="checkbox"/> HOLIDAY DELIVERY (if no charge)	10	DIM SHIPMENT (package weight Services 149)								1040
		11	DIM SHIPMENT (package weight Services 149)								1040
		12	DIM SHIPMENT (package weight Services 149)								1040

Received By: *[Signature]*
Date/Time Received: 6-22-90 9:20 AM
FedEx Employee Number: 1040
Release Signature: *B. Chappell*
Date/Time: 6-22-90



CONSTANT SURVEILLANCE SERVICE/SIGNATURE SECURITY SERVICE. 1071315
PACKAGE RECORD

INSTRUCTIONS: This record provides continuous accountability from pick up to ultimate delivery of packages noted below. Each person whose signature appears in Section A acknowledges acceptance and responsibility for the packages noted.
In all instances, the person to whom the shipment is delivered (or transferred to) must acknowledge receipt of and responsibility for the shipment (Federal-Express Corp. flight crew members are excluded).
When delivery is completed, the recipient signature (in Section B) will be the final signature and a fully completed copy of the Federal Express Constant Surveillance Service form will be provided to the recipient. A copy will also be attached to the appropriate delivery record & sent to MEMTRACE each day.

ORIGIN STA. I.D. PSCA	AIRBILL NUMBER 7342240743	NO. OF PIECES 2	TOTAL WEIGHT 118 LB	DESTINATION STA. I.D. OCTCM
SHIPPER'S NAME WESTINGHOUSE SHIPPING WESTINGHOUSE HANFORD COMPANY		ACCOUNT NO. 0981-0127-6		PHONE NUMBER (509) 376-6665
CONSIGNEE'S NAME WEYERHAUSER ANALYTICAL & TESTING		ACCOUNT NO.		PHONE NUMBER

SECTION A: MUST BE COMPLETED BY EACH PERSON RECEIVING THIS SHIPMENT.

PRINT NAME/TITLE/EMP. NO.	SIGNATURE	RECEIVING POINT	TIME AND DATE
1 SUSAN DOSSETT	<i>Susan Dossett</i>	RICHLAND WA	3:10 ^{PM} 06/21/90
2 Dan Vance 56763	<i>Dan Vance</i>	Richland	1510 6/21
3 Terry J. Oldham 104950	<i>Terry J. Oldham</i>	GRK	1640 6/21
4 Bruce Lett 104950	<i>Bruce Lett</i>	GRK	1640 6/21
5			
6			
7			
8			
9			
10			

SECTION B: MUST BE COMPLETED BY EACH INDIVIDUAL DELIVERING THIS SHIPMENT.

PRINT NAME/TITLE/EMP. NO.	SIGNATURE	DELIVERY POINT	TIME AND DATE
1 <i>[Signature]</i>	<i>[Signature]</i>	SVPT	0610 6/22
2 BAYNES 104950/3048	<i>B. Baynes</i>	TCMA	0652 6/22
3 <i>[Signature]</i> 76838	<i>[Signature]</i>	TCMA	0850 6/22
4 M GOMEZ	<i>[Signature]</i>	WTC	8:50 6-22
5 B. CHAPPEL	<i>B. Chappel</i>	WTC	1040 6-22
6			
7 PLEASE SIGN AND RETURN A COPY TO:	WESTINGHOUSE HANFORD COMPANY		
8	ATTENTION SHIPPING DEPARTMENT		G2-06
9	PO BOX 1970		
10	RICHLAND WA 99352		
10 RO#38235	PO#MDR-SVV-060642		


ORIGIN — Courier/agent accepting package must insure sender and recipient information is complete and correct; acknowledge receipt and responsibility for acceptance of package in Section A.

INTERMEDIATE transfer person(s) responsible for movement of packages from origin location to outbound aircraft or vehicle must acknowledge receipt and responsibility for continuing movement of package by signing in Section A. Person(s) responsible for movement of packages at destination location from inbound aircraft or vehicle must acknowledge receipt and responsibility of acceptance and continuing movement of package by signing in Section B.

DESTINATION — Courier/agent accepting package at destination location for delivery will acknowledge receipt of package and responsibility by also signing in Section B. Recipient who ultimately accepts delivery of package will sign in Section B to complete the written record of the package movement.

NOTE: ANY EXCEPTIONS DURING PICKUP/TRANSFER/DELIVERY, MUST BE CALLED TO LOCAL DISPATCH, WHO WILL NOTIFY SHIPPER AND RECIPIENT OF EXCEPTION.

110

 Battelle Pacific Northwest Laboratories Richland, Washington	CHAIN OF CUSTODY	CAB 017
---	------------------	---------

Company Contact: Charles A. Brandt Telephone: (509) 376-5345
 Samples Collected by: R. Fellows Date: 6/4/90 Time: 9:48
 Sample Location: 300-FF-1
 Ice Chest No.: DSM-1 CAB 64/90 #16 Field Logbook Page No.: 52960-P331
 Remarks: Asparagus sample - Hg analytical splits - see COC #CAB004, CAB005, CAB006, CAB007, CAB008, CAB009, CAB010, CAB011 for master #s
 Method of Shipment: Fed Express

Sample Identification

<input checked="" type="checkbox"/> B009D6	<input checked="" type="checkbox"/> B009G0	<input checked="" type="checkbox"/> B009F9	<input checked="" type="checkbox"/> B009J2
<input checked="" type="checkbox"/> B009D7	<input checked="" type="checkbox"/> B009G1	<input checked="" type="checkbox"/> B009H2	<input checked="" type="checkbox"/> B009J3
<input checked="" type="checkbox"/> B009D8	<input checked="" type="checkbox"/> B009G2	<input checked="" type="checkbox"/> B009H3	<input checked="" type="checkbox"/> B009J4
<input checked="" type="checkbox"/> B009D9	<input checked="" type="checkbox"/> B009G3	<input checked="" type="checkbox"/> B009H4 ^{CAB 6/1/90}	<input checked="" type="checkbox"/> B009J5
<input checked="" type="checkbox"/> B009E0	<input checked="" type="checkbox"/> B009G4	<input checked="" type="checkbox"/> B009H4	<input checked="" type="checkbox"/> B009J6
<input checked="" type="checkbox"/> B009E1	<input checked="" type="checkbox"/> B009G5	<input checked="" type="checkbox"/> B009H5	<input checked="" type="checkbox"/> B009J7
<input checked="" type="checkbox"/> B009E2	<input checked="" type="checkbox"/> B009G6	<input checked="" type="checkbox"/> B009H6	<input checked="" type="checkbox"/> B009J8
<input checked="" type="checkbox"/> B009E3	<input checked="" type="checkbox"/> B009G7	<input checked="" type="checkbox"/> B009H7	<input checked="" type="checkbox"/> B009J9
<input checked="" type="checkbox"/> B009E4	<input checked="" type="checkbox"/> B009G8	<input checked="" type="checkbox"/> B009H8	<input checked="" type="checkbox"/> B009K0
<input checked="" type="checkbox"/> B009E5	<input checked="" type="checkbox"/> B009G9	<input checked="" type="checkbox"/> B009H9	<input checked="" type="checkbox"/> B009K1
<input checked="" type="checkbox"/> B009E6	<input checked="" type="checkbox"/> B009H0	<input checked="" type="checkbox"/> B009J0	<input checked="" type="checkbox"/> B009K2
<input checked="" type="checkbox"/> B009E7	<input checked="" type="checkbox"/> B009H1	<input checked="" type="checkbox"/> B009J1	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> B009E8			

Chain of Possession

Relinquished by: <u>Robert J. Fellows</u>	Received by: <u>A. Lassiter</u>	Date/Time: <u>6/4/90 10:05 AM.</u>
Relinquished by: _____	Received by: <u>B. Chappel</u>	Date/Time: <u>6.5.90 1100</u>
Relinquished by: _____	Received by: _____	Date/Time: _____
Relinquished by: _____	Received by: _____	Date/Time: _____



CHAIN OF CUSTODY

CAB018

Company Contact: Charles A. Brandt Telephone: (509) 376-5345
 Samples Collected by: R. J. Fellus Date: 6/4/90 Time: 9:48
 Sample Location: 300-FF-1
 Ice Chest No.: DSM-2 CAB 6/4/90 #16 Field Logbook Page No.: 52960-P331
 Remarks: asparagus stems & leaves. Hg splits of samples shown on COC #'s
CAB012, CAB013, CAB014, CAB015
 Method of Shipment: Fed Express

Sample Identification

<input checked="" type="checkbox"/> B009K3	<input checked="" type="checkbox"/> B009L5	<input checked="" type="checkbox"/> B009m7
<input checked="" type="checkbox"/> B009K4	<input checked="" type="checkbox"/> B009L6	<input checked="" type="checkbox"/> B009m8
<input checked="" type="checkbox"/> B009K5	<input checked="" type="checkbox"/> B009L7	<input checked="" type="checkbox"/> B009m9
<input checked="" type="checkbox"/> B009K6	<input checked="" type="checkbox"/> B009L8	
<input checked="" type="checkbox"/> B009K7	<input checked="" type="checkbox"/> B009L9	
<input checked="" type="checkbox"/> B009K8	<input checked="" type="checkbox"/> B009m0	
<input checked="" type="checkbox"/> B009K9	<input checked="" type="checkbox"/> B009m1	
<input checked="" type="checkbox"/> B009L0	<input checked="" type="checkbox"/> B009m2	
<input checked="" type="checkbox"/> B009L1	<input checked="" type="checkbox"/> B009m3	
<input checked="" type="checkbox"/> B009L2	<input checked="" type="checkbox"/> B009m4	
<input checked="" type="checkbox"/> B009L3	<input checked="" type="checkbox"/> B009m5	
<input checked="" type="checkbox"/> B009L4	<input checked="" type="checkbox"/> B009m6	

Chain of Possession

Relinquished by: <u>Robert J. Fellus</u>	Received by: <u>A. L. Dessett</u>	Date/Time: <u>6/4/90 10:05 AM</u>
Relinquished by: _____	Received by: <u>B. Chappel</u>	Date/Time: <u>6.5.90 1100</u>
Relinquished by: _____	Received by: _____	Date/Time: _____
Relinquished by: _____	Received by: _____	Date/Time: _____

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

	<u>DATE</u>	<u>TIME</u>
WEYCO SHIPPING/RECEIVING	<u>6.5</u>	<u>8:50</u>
WEYCO SAMPLE MANAGEMENT	<u>6.5</u>	<u>1100</u>

OPENING OF COOLER: 1120 _____

TEMPERATURE: 17.7 _____

SAMPLES RECEIVED:

<table border="1"> <tr><td>B009D6</td></tr> <tr><td>9D7</td></tr> <tr><td>9D8</td></tr> <tr><td>9D9</td></tr> <tr><td>9F0</td></tr> <tr><td>9F1</td></tr> <tr><td>9F2</td></tr> <tr><td>9F3</td></tr> <tr><td>9F4</td></tr> </table>	B009D6	9D7	9D8	9D9	9F0	9F1	9F2	9F3	9F4	<table border="1"> <tr><td>B009F5</td></tr> <tr><td>9F6</td></tr> <tr><td>9F7</td></tr> <tr><td>9F8</td></tr> <tr><td>9F9</td></tr> <tr><td>9G0</td></tr> <tr><td>9G1</td></tr> <tr><td>9G2</td></tr> <tr><td>9G3</td></tr> </table>	B009F5	9F6	9F7	9F8	9F9	9G0	9G1	9G2	9G3	<table border="1"> <tr><td>B009G4</td></tr> <tr><td>9G5</td></tr> <tr><td>9G6</td></tr> <tr><td>9G7</td></tr> <tr><td>9G8</td></tr> <tr><td>9G9</td></tr> <tr><td>9H0</td></tr> <tr><td>9H1</td></tr> <tr><td>9H2</td></tr> </table>	B009G4	9G5	9G6	9G7	9G8	9G9	9H0	9H1	9H2	<table border="1"> <tr><td>B009H3</td></tr> <tr><td>9H4</td></tr> <tr><td>9H5</td></tr> <tr><td>9H6</td></tr> <tr><td>9H7</td></tr> <tr><td>9H8</td></tr> <tr><td>9H9</td></tr> <tr><td>9J0</td></tr> <tr><td>9J1</td></tr> <tr><td>9J2</td></tr> <tr><td>9J3</td></tr> <tr><td>9J4</td></tr> <tr><td>9J5</td></tr> </table>	B009H3	9H4	9H5	9H6	9H7	9H8	9H9	9J0	9J1	9J2	9J3	9J4	9J5
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COMMENTS:

<table border="1"> <tr><td>B00J96</td></tr> <tr><td>J97</td></tr> <tr><td>J98</td></tr> <tr><td>J99</td></tr> </table>	B00J96	J97	J98	J99	<table border="1"> <tr><td>B009J6</td></tr> <tr><td>9J7</td></tr> <tr><td>9J8</td></tr> <tr><td>9J9</td></tr> <tr><td>9K0</td></tr> <tr><td>9K1</td></tr> <tr><td>9K2</td></tr> <tr><td>9K3</td></tr> <tr><td>9K4</td></tr> <tr><td>9K5</td></tr> <tr><td>9K6</td></tr> <tr><td>9K7</td></tr> <tr><td>9K8</td></tr> <tr><td>9K9</td></tr> </table>	B009J6	9J7	9J8	9J9	9K0	9K1	9K2	9K3	9K4	9K5	9K6	9K7	9K8	9K9	<table border="1"> <tr><td>B009L0</td></tr> <tr><td>9L1</td></tr> <tr><td>9L2</td></tr> <tr><td>9L3</td></tr> <tr><td>9L4</td></tr> <tr><td>9L5</td></tr> <tr><td>9L6</td></tr> <tr><td>9L7</td></tr> <tr><td>9L8</td></tr> <tr><td>9L9</td></tr> <tr><td>9M0</td></tr> <tr><td>9M1</td></tr> <tr><td>9M2</td></tr> <tr><td>9M3</td></tr> <tr><td>9M4</td></tr> <tr><td>9M5</td></tr> <tr><td>9M6</td></tr> <tr><td>9M7</td></tr> <tr><td>9M8</td></tr> <tr><td>9M9</td></tr> <tr><td>9N3</td></tr> </table>	B009L0	9L1	9L2	9L3	9L4	9L5	9L6	9L7	9L8	9L9	9M0	9M1	9M2	9M3	9M4	9M5	9M6	9M7	9M8	9M9	9N3
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9N3																																									

CONFIRMATION:

CALLED WESTINGHOUSE: _____

MAILED TALLY RECORD: _____

MAILED PAPER WORK: _____

ALL PAGES SIGNED: _____



ANALYTICAL LABORATORY SERVICES REQUEST
Research and Development - Analysis and Testing

REQUEST NUMBER

TITLE # 300-FF-1 R1/F5		PROJECT NUMBER 060642		GROUPS	
NUMBER OF SAMPLES 26		DATE RECEIVED		DATE DESIRED	
DATE RECEIVED		DATE DESIRED		ESTIMATED COMPLETION DATE	
SUBMITTED BY RA (Becky) Bechtold			LOCATION WTC - Richland, WA		TELEPHONE (509) 373-3448
REVIEWED BY			LOCATION		TELEPHONE
COPY TO					

NAME OF TEST OR METHOD	Expected Report Range			REPORT BASIS	LOWER LIMIT SENSITIVITY	SPECIAL HANDLING	
	%	PPM	PPB			<input type="checkbox"/> Keep Chilled	<input type="checkbox"/> Keep Frozen
Hg - CLP via CVAA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Detection Limits as specified in CLP-50w		<input type="checkbox"/> Other _____	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			PRESERVATIVE ADDED	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Kind _____	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Amount _____	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Does submitter want non-hazardous samples returned?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

*Indicate volume or weight basis on O.D. or as received sample, etc.

SAMPLE DESCRIPTION AND HISTORY
(Include potential hazards)

Vegetation samples - no constituents hazardous

SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
B00906	Hg - CLP	B009F9	Hg - CLP
B00907	"	B00960	"
B00908	"	B00961	"
B00909	"	B00962	"
B009F0	"	B00963	"
B009F1	"	B00964	"
B009F2	"	B00965	"
B009F3	"	B00966	"
B009F4	"	B00967	"
B009F5	"	B00968	"
B009F6	"	B00969	"
B009F7	"	B009H0	"
B009F8	"	B009H1	"

INTERIM REPORT DESIRED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		HAZARDOUS SAMPLES <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
REFERENCE		RECORD BOOK	
RESULTS APPROVED	DATE	SIGNATURE APPLIES TO _____ attached pages	PAGE NUMBER



ANALYTICAL LABORATORY SERVICES REQUEST
Research and Development - Analysis and Testing

REQUEST NUMBER

TITLE: 300-FF-1 R1/FS

NUMBER OF SAMPLES: 2622 PROJECT NUMBER: 060642 GROUPS:

DATE RECEIVED: 06/1/90 DATE DESIRED: ESTIMATED COMPLETION DATE:

SUBMITTED BY: RA Bechtold LOCATION: WHC - Richland, WA TELEPHONE: (509) 373-3448

REVIEWED BY: LOCATION: TELEPHONE:

COPY TO:

NAME OF TEST OR METHOD	Expected Report Range			REPORT BASIS	LOWER LIMIT SENSITIVITY	SPECIAL HANDLING	
	%	PPM	PPB			<input type="checkbox"/> Keep Chilled	<input type="checkbox"/> Keep Frozen
Hg-CLP via CVAA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Detection limits as specified on CLP-SOW		<input type="checkbox"/> Other	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			PRESERVATIVE ADDED	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Kind	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Amount	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Does submitter want non-hazardous samples returned?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

*Indicate volume or weight basis on O.D. or as received sample, etc.

SAMPLE DESCRIPTION AND HISTORY (include potential hazards)

Vegetation samples - no constituents hazardous

SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
B009H2	Hg - CLP	B009J4	Hg - CLP
B009H3	"	B009J5	"
B009H3	"	B009J6	"
B009H4	"	B009J7	"
B009H5	"	B009J8	"
B009H6	"	B009J9	"
B009H7	"	B009K0	"
B009H8	"	B009K1	"
B009H9	"	B009K2	"
B009J0	"	B009K3 CAB 6/1/90	CAB
B009J1	"	B009K4 CAB	CAB
B009J2	"	B009K5 CAB	CAB
B009J3	"	B009K6 CAB	CAB

INTERIM REPORT DESIRED Yes No

HAZARDOUS SAMPLES Yes No

REFERENCE: RESULTS APPROVED: DATE: SIGNATURE APPLIES TO: attached pages: RECORD BOOK: PAGE NUMBER:



ANALYTICAL LABORATORY SERVICES REQUEST
Research and Development - Analysis and Testing

REQUEST NUMBER

TITLE 300-FF-1 R1/FS			
NUMBER OF SAMPLES 2326	PROJECT NUMBER 060642	GROUPS	
DATE RECEIVED 08/04/89	DATE DESIRED	ESTIMATED COMPLETION DATE	
SUBMITTED BY RA Bechtold	LOCATION W2HC - Richland, WA	TELEPHONE (509) 373-3448	
REVIEWED BY	LOCATION	TELEPHONE	
COPY TO			

NAME OF TEST OR METHOD	Expected Report Range			REPORT BASIS	LOWER LIMIT SENSITIVITY	SPECIAL HANDLING	
	%	PPM	PPB			<input type="checkbox"/> Keep Chilled	<input type="checkbox"/> Keep Frozen
Hg-CLP via CAAA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Detection limit as specified in CLP-Sow		<input type="checkbox"/> Other _____	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			PRESERVATIVE ADDED	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Kind _____	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Amount _____	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Does submitter want non-hazardous samples returned?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

*Indicate volume or weight basis on O.D. or as received sample, etc.

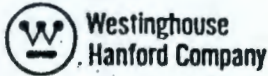
SAMPLE DESCRIPTION AND HISTORY (include potential hazards)

Vegetation samples - no constituents hazardous

SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED	SAMPLE DESIGNATION	PROPERTIES TO BE EVALUATED
B009K7	Hg-CLP	B009M0	Hg-CLP
B009K8	"	B009M1	"
B009K9	"	B009M2	"
B009L0	"	B009M3	"
B009L1	"	B009M4	"
B009L2	"	B009M5	"
B009L3	"	B009M6	"
B009L4	"	B009M7	"
B009L5	"	B009M8	"
B009L6	"	B009M9	"
B009L7	"	B009K3	"
B009L8	"	B009K4	"
B009L9	"	B009K5	"

INTERIM REPORT DESIRED	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	HAZARDOUS SAMPLES	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
REFERENCE				RECORD BOOK	
RESULTS APPROVED	DATE	SIGNATURE APPLIES TO		PAGE NUMBER	
		_____ attached pages			

9513388.0376



Westinghouse Hanford Company
A subsidiary of Westinghouse Electric Corporation
P.O. Box 1970 Richland, Wa. 99352

RELEASE TO SHIP

38236

QTY 90

DATE SHIPPED
MO. 6 DAY 1 YR. 90

VENDOR CODE
57650

PURCHASE ORDER REF.
MDR-SVY-060642

SHIP TO
MEYERHAUSER ANALYTICAL & TESTING SERVICES-MEYERHAUSER TECH CENTER
32901 MEYERHAUSER WAY
FEDERAL WAY WA 98003

FOR ACCOUNT OF
WESTINGHOUSE HANFORD COMPANY
P.O. BOX 1970
RICHLAND WA 99352

F.O.B. FEDERAL WAY, WA CAR INITIALS AND NO. FRT. CHGS. VENDOR WESTINGHOUSE HANFORD BUYER CODE DR BUYER NAME D. A. Raap PHONE 376-3747

B/L *RPT-300984* B/L WEIGHT *1 lb* ROUTING *48th* Federal Express REQUISITION NO. 060642

FFID ITEM	QUANTITY	U/M	DESCRIPTION	AMOUNT
1	1	EA	Chest of Samples	\$5,000.00

REDISTRIBUTE COST YES NO SPECIAL PACKAGING REQUIRED YES NO

- REASON FOR SHIPMENT: N
- A. RETURN FOR CREDIT
- B. RETURN FOR REPLACEMENT
- C. RETURN FOR REPAIR
- D. RETURN VENDOR-OWNED RETURNABLE CONTAINER
- E. RETURN OVERSHIPMENTS
- F. RETURN SAMPLE
- G. RETURN VENDOR-OWNED MATERIAL OR EQUIPMENT
- H. SHIP GOVERNMENT-OWNED TOOLS, JIGS, AND FIXTURES
- I. SHIP EXCHANGE UNITS (CORE)
- J. SHIP MATERIAL OR EQUIPMENT FOR REPAIR OR REBUILD
- K. SHIP MATERIAL OR EQUIPMENT FOR REPAIR ESTIMATE
- L. SHIP GOVERNMENT-OWNED RETURNABLE CONTAINER
- M. SHIP GOVERNMENT-OWNED MATERIAL FOR USE IN FABRICATION
- N. MISCELLANEOUS

HAZARDOUS MATERIAL YES NO; IF YES, HAZARDOUS MATERIAL FORM IS REQUIRED TO ACCOMPANY MATERIAL

LOCATION OF MATERIAL RM CLEARANCE FOR PUBLIC SALE SURVEY NO. *RPT-300984*
H. Martin DATE: *6-4-90*

CUSTODIAN **Becky Bechtold** PHONE **3-3448** DATE AVAILABLE FOR SHIPMENT

ITEM	CO ID*	COST CENTER	MC	COST ELEMENT	CHARGE CODE	% OF COST	AUTHORIZED BY	DATE
1	TW	81222		210	EC324	100	D. A. Raap	6/1/90
							FOR SHIPPING OPERATION	DATE: <i>6/4/90</i>

9513388.0377

FEDERAL EXPRESS		QUESTIONS? CALL 800-238-5355 TOLL FREE		AIRBILL PACKAGE TRACKING NUMBER		7342240684											
1014 7342240684				Date: 6-4-90													
From (Name) Please Print WESTINGHOUSE SHIPPING		Your Phone Number (Very Important) 509 376-6665		To (Recipient's Name) Please Print WEYERHAUSER ANALYTICAL & TESTING		Recipient's Phone Number (Very Important)											
Company WESTINGHOUSE HANFORD		Department/Floor No.		Company SERVICES- WEYERHAUSER TECH CENTER		Department/Floor No.											
Street Address 1100 AREA 1163 BLDG.				Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip 9 Codes.) 32901 WEYERHAUSER WAY													
City RICHLAND WA		State WA		City FEDERAL WAY		State WA											
ZIP Required 99352		ZIP Required 98003															
YOUR INTERNAL BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice.) TW81222 210 EC324 100 RW38236 PO#-MOR-SVY-060642				IF HOLD FOR PICK-UP, Print FEDEX Address Here													
PAYMENT <input checked="" type="checkbox"/> Bill Sender <input type="checkbox"/> Bill Recipient's FedEx Acct. No. <input type="checkbox"/> Bill 3rd Party FedEx Acct. No. <input type="checkbox"/> Bill Credit Card				Street Address													
<input type="checkbox"/> Cash				City													
				State													
				ZIP Required													
SERVICES (Check only one box)		DELIVERY AND SPECIAL HANDLING		PACKAGES		WEIGHT		POST RELEASED		DATE		Emp. No.		Date		Federal Express Usa	
Priority Overnight Service (Delivery by next business morning)		Standard Overnight Service (Delivery by next business afternoon)		1 <input type="checkbox"/> HOLD FOR PICK-UP (if in box is)		1 5.48										Basic Charges	
<input checked="" type="checkbox"/> YOUR PACKAGING 51		<input type="checkbox"/> DELIVER WEEKDAY		2 <input type="checkbox"/> DELIVER SATURDAY (if no charge)												Electronical Value Charge	
<input type="checkbox"/> FEDEX LETTER 56		3 <input type="checkbox"/> DANGEROUS GOODS (if no charge)		4 <input type="checkbox"/> CONSTANT SURVEILLANCE SVC. (CSS)		Total		Total		Total						Other 1	
<input type="checkbox"/> FEDEX PAK 52		5 <input type="checkbox"/> DRY ICE		6 <input type="checkbox"/> OTHER SPECIAL SERVICE S.S.S.		1 48										Other 2	
<input type="checkbox"/> FEDEX BOX 53		7 <input type="checkbox"/> SATURDAY PICK-UP (if no charge)		8 <input type="checkbox"/> O'NITE DELIVERY												Total Charge	
<input type="checkbox"/> FEDEX TUBE 54		9 <input type="checkbox"/> DIM SHIPMENT (if heavy weight Services Only)		9 <input type="checkbox"/> SUNDAY PICK-UP (if no charge)												RECEIVED DATE 11/88	
Economy Service (formerly Standard Air) (Delivery by second business day)		10 <input type="checkbox"/> HEAVYWEIGHT **		10 <input type="checkbox"/> DEFERRED HEAVYWEIGHT **												FORMAT 8014	
11 <input type="checkbox"/> ECONOMY SERVICE		11 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)		12 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)												© 1987 F. L. C. PRINTED IN USA	
12 <input type="checkbox"/> ECONOMY SERVICE		12 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)		12 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)												014	
13 <input type="checkbox"/> ECONOMY SERVICE		13 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)		13 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)												6-5-90	
14 <input type="checkbox"/> ECONOMY SERVICE		14 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)		14 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)												6-5-1100	
15 <input type="checkbox"/> ECONOMY SERVICE		15 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)		15 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)												1471	
16 <input type="checkbox"/> ECONOMY SERVICE		16 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)		16 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)													
17 <input type="checkbox"/> ECONOMY SERVICE		17 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)		17 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)													
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21 <input type="checkbox"/> ECONOMY SERVICE		21 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)		21 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)													
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26 <input type="checkbox"/> ECONOMY SERVICE		26 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)		26 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)													
27 <input type="checkbox"/> ECONOMY SERVICE		27 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)		27 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)													
28 <input type="checkbox"/> ECONOMY SERVICE		28 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)		28 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)													
29 <input type="checkbox"/> ECONOMY SERVICE		29 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)		29 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)													
30 <input type="checkbox"/> ECONOMY SERVICE		30 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)		30 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)													



CONSTANT SURVEILLANCE SERVICE/SIGNATURE SECURITY SERVICE 1071314
PACKAGE RECORD

INSTRUCTIONS: This record provides continuous accountability from pick up to ultimate delivery of packages noted below. Each person whose signature appears in Section A acknowledges acceptance and responsibility for the packages noted.
In all instances, the person to whom the shipment is delivered (or transferred to) must acknowledge receipt of and responsibility for the shipment (Federal Express Corp. flight crew members are excluded).
When delivery is completed, the recipient signature (in Section B) will be the final signature and a fully completed copy of the Federal Express Constant Surveillance Service form will be provided to the recipient. A copy will also be attached to the appropriate delivery record & sent to MEMTRACE each day.

ORIGIN STA. I.D. PSC	AIRBILL NUMBER 7342240684	NO. OF PIECES 1	TOTAL WEIGHT 48 LBS	DESTINATION STA. I.D. 04 TCM
SHIPPER'S NAME WESTINGHOUSE SHIPPING		ACCOUNT NO. 0981-0127-6		PHONE NUMBER (509) 376-6665
WESTINGHOUSE HANFORD COMPANY		ACCOUNT NO.		PHONE NUMBER
CONSIGNEE'S NAME MEYERHAUSER ANALYTICAL & TESTING				

SECTION A: MUST BE COMPLETED BY EACH PERSON RECEIVING THIS SHIPMENT.

PRINT NAME/TITLE/EMP. NO.	SIGNATURE	RECEIVING POINT	TIME AND DATE
1 SUSAN DOSSETT	<i>Susan Dossett</i>	RICHLAND WA	14:51 ^{PM} 6-04-90
2 <i>Van Umm</i> 56763	<i>Van Umm</i>	" "	1451 6/4
3 <i>M. Callender</i> 32377	<i>M. Callender</i>	PSCR	1656 6/4
4 <i>MARTIN ROBERTS</i> #44211 <i>RAMPAGERS</i>	<i>Martin Roberts</i>	GEGP	1800 06-04-90
5 <i>Kirtherford</i> CK 40451	<i>Kirtherford</i>	(35/M2M)	07:38 6-4
6			
7			
8			
9			
10			

SECTION B: MUST BE COMPLETED BY EACH INDIVIDUAL DELIVERING THIS SHIPMENT.

PRINT NAME/TITLE/EMP. NO.	SIGNATURE	DELIVERY POINT	TIME AND DATE
1 <i>Blaine C. G. ...</i>	<i>Blaine C. G. ...</i>	SC187	0615 6/5
2 <i>C. HAYNES</i> 613344	<i>C. Haynes</i>	TCMTA	0617 6/5
3 <i>J. HARRIS</i> 76538	<i>J. Harris</i>	TRUIT	0615
4 <i>S. Amundson</i>	<i>S. Amundson</i>	Weyerhaeuser	6-15 8:50
5 B CHAPPEL	<i>B Chappel</i>	Weyerhaeuser	6-5 1100
6			
7	PLEASE SIGN AND RETURN A COPY TO:	WESTINGHOUSE HANFORD COMPANY	
8		ATTN: SHIPPING DEPARTMENT	
9		PO BOX 1970 G2-06	
10		RICHLAND WA 99352	
10	RO# 38236 PO#-MDR-SVV-060642		

ORIGIN - Courier/agent accepting package must insure sender and recipient information is complete and correct; acknowledge receipt and responsibility for acceptance of package in Section A.

INTERMEDIATE transfer - person(s) responsible for movement of packages from origin location to outbound aircraft or vehicle must acknowledge receipt and responsibility for continuing movement of package by signing in Section A. Person(s) responsible for movement of packages at destination location from inbound aircraft or vehicle must acknowledge receipt and responsibility of acceptance and continuing movement of package by signing in Section B.

DESTINATION - Courier/agent accepting package at destination location for delivery will acknowledge receipt of package and responsibility by also signing in Section B. Recipient who ultimately accepts delivery of package will sign in Section B to complete the written record of the package movement.

NOTE: ANY EXCEPTIONS DURING PICKUP/TRANSFER/DELIVERY, MUST BE CALLED TO LOCAL DISPATCH, WHO WILL NOTIFY SHIPPER AND RECIPIENT OF EXCEPTION.

9513388 0379

CORRESPONDENCE DISTRIBUTION COVERSHEET

Author	Addressee	Correspondence No.
L. C. Hulstrom, WHC	D. R. Einan, EPA	9057870

Subject: ANALYTICAL DATA FROM ASPARAGUS SAMPLES FROM THE 300-FF-1 OPERABLE UNIT

INTERNAL DISTRIBUTION

Approval	Date	Name	Location	w/att
		Correspondence Control	A3-01	X
		President's Office	B3-01	
X MNA	11/19/90	M. R. Adams	H4-55	
		J. D. Bauer	B3-15	
		R. J. Bliss	B3-04	
X JCB	11/14/90	L. C. Brown	H4-51	
X RAC	11/14/90	R. A. Carlson	H4-55	
		R. G. Dieffenbacher	H4-16	
X LCH	11/14/90	L. C. Hulstrom	H4-55	X
		W. L. Johnson	H4-55	
		R. E. Lerch	B2-35	
		T. B. Veneziano	B2-35	
		T. M. Wintczak	L4-92	
		R. D. Wojtasek	L4-92	
		EDMC	H4-22	X
		MRA:LB	H4-55	
		LCH:LB	H4-55	