	B	C
1	**Source Description**	
2		
3	Phase II ID No.	818
4	EPA ID No.	LAD010390599
5	Facility Name	Westvaco
6	Facility Location	
7	City	DeRidder
8	State	LA
9	Unit ID Name/No.	Boilers No. 2 and 3 (common ESP and stack)
10	Other Sister Facilities	None (Boiler No. 4 also shares common ESP and stack but does not burn haz waste)
11	Number of Sister Facilities	0
12	Combustor Class	Liquid-fired boiler
13	Combustor Type	Liquid injection
14	Combustor Characteristics	Watertube boilers. Both units identical, Combustion Engineering Stirling type boilers (Model VA-X) with Coen burners, watertube, single wall fired, 60,000 lb/hr steam
15	Capacity (MMBtu/hr)	86
16	Soot Blowing	Yes, every 8 hrs (6 blowers activated for 15 sec each, duration 15 min)
17	APCS Detailed Acronym	ESP
18	APCS General Class	ESP
19	APCS Characteristics	3 fields
20	Hazardous Wastes	Liq, solid
21	Haz Waste Description	Resinate filer cake, HC920/spage oil, acrylic process spent organics and overheads
22	Supplemental Fuel	natural gas, oil, misc. fuel
23		Tall oil pitch and heads fuel, fuel oil, natural gas
24	Stack Characteristics	
25	Diameter (ft)	8
26	Height (ft)	250
27	Gas Velocity (ft/sec)	46.5
28	Gas Temperature (°F)	383
29		
30	Permitting Status	Has Low Risk Waste Exemption (no PM/DRE), Tier I for metals/chlorine
31	HWC Burn Status (Date if Terminated)	

	B	C
1	**Cond Description**	
2		
3	**818C10**	
4		
5	Report Name/Date	Risk Burn Report, February 1998
6	Report Prepar	Westvaco Chemical Division, Deridder, LA facility
7	Testing Firm	METCO
8	Testing Dates	September 10-12, 1997
9	Cond Dates	September-97
10	Cond. Description	Risk burn
11	Content	Non D/F organics (no PM, chlorine, metals, volatiles, semi-vol, TOC)
12		
13	**818C11**	
14		
15	Report Name/Date	Recertification Test Report
16	Report Prepar	Westvaco
17	Testing Firm	Emission Testing Services, Inc.
18	Testing Dates	June 29-30, 1995
19	Cond Dates	Jun-95
20	Cond Description	CoC
21	Content	D/F
22		
23	**818C12**	
24		
25	Report Name/Date	CoC Testing
26	Report Prepar	Walk, Haydel & Associates
27	Testing Firm	TRC Environmental Corp.
28	Testing Dates	April 29-30, 1992
29	Cond Dates	Apr-92
30	Cond Description	Coc testing
31	Content	D/F, PM
32		
33	**818C13**	
34		
35	Report Name/Date	Recertification of Compliance Test Report
36	Report Prepar	Westvaco
37	Testing Firm	Metco Environmental
38	Testing Dates	June 24-26, 1998
39	Cond Dates	Jun-98
40	Cond Description	Coc testing
41	Content	D/F
42		
43	**818C14**	
44		
45	Report Name/Date	Air Quality Compliance Test
46	Report Prepar	Westvaco
47	Testing Firm	Emission Testing Services, Inc.
48	Testing Dates	7/5/1995
49	Cond Dates	Jul-95
50	Cond Description	Air Permit
51	Content	PM, CO, THC

	B	C	D	E	F	G	H	I	J	K	L	M
1	**Stack Gas Emissions**											
2												
3		Comments	Units	7% O2								
4												
5												
6	**818C10**	**(Risk Burn)**				R1		R2		R3		Cond Avg
7												
8	CO (RA)	E1	ppmv	y		27.7		10.1		12.2		16.7
9												
10	Sampling Train	SVOC	E1									
11	Stack Gas Flowrate		dscfm			63580		70941		70458		68326
12	O2		%			17		16.8		17.8		17.2
13	Moisture		%			8.96		7.25		6.58		7.6
14	Temperature		°F			376		371		371		372.7
15												
16												
17	**818C11**	**(COC test 6/29-30/95)**				R1		R2		R3		Cond Avg
18												
19	PM	E1	gr/dscf	y								0.0239
20	CO (RA)	E1	ppmv	y		1.7		1.6		1.3		1.5
21												
22	Sampling Train	PM	E1									
23	Stack Gas Flowrate		dscfm	y		75473		76481		72603		74852
24	O2		%			13.2		11.7		14.3		13.1
25	Moisture		%			4.94		5.03		5.75		5.24
26	Temperature		°F			354		359		358		357
27												
28												
29	**818C13**	**(COC test 6/24-26/98)**				R1		R2		R3		Cond Avg
30												
31	CO (RA)	E1	ppmv	y		4		0.9		5.1		3.3
32												
33	Sampling Train	CO	E1									
34	Stack Gas Flowrate		dscfm	y		77932		77091		78975		77999
35	O2		%			13.4		13.9		13.8		13.7
36	Moisture		%			4.54		5.27		5.9		5.236666667
37	Temperature		°F			361		356		348		355
38												
39												
40	**818C14**	**(COC test 7/5/95)**				R1		R2		R3		Cond Avg
41												
42	HC (RA)	E1	ppmv	y								3.1
43												
44	Sampling Train		E1									
45	Stack Gas Flowrate		dscfm	y								77862
46	O2		%									13.2
47	Moisture		%									5.8
48	Temperature		°F									383

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	**Feedstreams**																			
2																				
3																				
4	**818C10**				R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg	
5																				
6	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2	
7	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Liq non-HW		Liq non-HW		Liq non-HW		Liq non-HW	
8	Feed Class 2				HW		HW		HW		HW		Non-HW		Non-HW		Non-HW		Non-HW	
9	Feedstream Description				Haz waste fuel/tall oil heads (Blr 2)		Haz waste fuel/tall oil heads (Blr 2)		Haz waste fuel/tall oil heads (Blr 2)		Haz waste fuel/tall oil heads (Blr 2)		Tall oil pitch (Blr 3)		Tall oil pitch (Blr 3)		Tall oil pitch (Blr 3)		Tall oil pitch (Blr 3)	
10	Feed Rate		lb/min		33.2		34.4		34.5		34.0		48		50		51		49.7	
11	Heating Value		Btu/lb		17100		17100		17100		17100									
12	Ash		% wt		0.54		0.54		0.54											
13	Chlorine		ppmw		1050		1050		1050											
14	Mercury		ppmw	nd	0.95	nd	0.95	nd	0.95											
15	Lead		ppmw	nd	2	nd	2	nd	2											
16	Cadmium		ppmw	nd	2	nd	2	nd	2											
17	Arsenic		ppmw	nd	2	nd	2	nd	2											
18	Beryllium		ppmw	nd	2	nd	2	nd	2											
19	Chromium		ppmw	nd	2	nd	2	nd	2											
20	Nickel		ppmw	nd	2	nd	2	nd	2											
21	Antimony		ppmw	nd	5	nd	5	nd	5											
22	Selenium		ppmw	nd	2	nd	2	nd	2											
23	Thallium		ppmw	nd	2	nd	2	nd	2											
24	Silver		ppmw	nd	5	nd	5	nd	5											
25																				
26	Stack Gas Flowrate		dscfm		63580		70941		70458		68326									
27	O2		%		17.0		16.8		17.8		17.2									
28																				
29	Thermal Feedrate		MMBtu/hr		69.4		70.7		70.3		70.1									
30	Estimated Firing Rate		MMBtu/hr																	
31																				
32	*Feedrate MTEC Calculations*																			
33	Ash		mg/dscm		158.3		140.0		185.6		161.3									
34	Chlorine		µg/dscm		30785		27227		36085		31366									
35	Mercury		µg/dscm	100	27.9	100	24.6	100	32.6	100	28.4									100
36	Lead		µg/dscm	100	58.6	100	51.9	100	68.7	100	59.7									100
37	Cadmium		µg/dscm	100	58.6	100	51.9	100	68.7	100	59.7									100
38	Arsenic		µg/dscm	100	58.6	100	51.9	100	68.7	100	59.7									100
39	Beryllium		µg/dscm	100	58.6	100	51.9	100	68.7	100	59.7									100
40	Chromium		µg/dscm	100	58.6	100	51.9	100	68.7	100	59.7									100
41	Nickel		µg/dscm	100	58.6	100	51.9	100	68.7	100	59.7									100
42	Antimony		µg/dscm	100	146.6	100	129.7	100	171.8	100	149.4									100
43	Selenium		µg/dscm	100	58.6	100	51.9	100	68.7	100	59.7									100
44	Thallium		µg/dscm	100	58.6	100	51.9	100	68.7	100	59.7									100
45	Silver		µg/dscm	100	146.60	100	129.7	100	171.8	100	149.4									100
46																				
47																				
48	SVM		µg/dscm	100	117.3	100	103.7	100	137.5	100	119.5									100
49	LVM		µg/dscm	100	175.9	100	155.6	100	206.2	100	179.2									100
50																				
51	**BIF Feedrate Limits**																			
52																				
53	Chlorine		g/hr								21000									
54	Mercury		g/hr								15000									
55	Lead		g/hr								4600									
56	Cadmium		g/hr								290									

	B	V	W	X	Y	Z	AA	AB	AC
1	**Feedstreams**								
2									
3									
4	**818C10**	R1		R2		R3		Cond Avg	
5									
6	Feedstream Number	F3		F3		F3		F3	
7	Feed Class	Total		Total		Total		Total	
8	Feed Class 2	Total		Total		Total		Total	
9	Feedstream Description	Total		Total		Total		Total	
10	Feed Rate								
11	Heating Value								
12	Ash								
13	Chlorine								
14	Mercury								
15	Lead								
16	Cadmium								
17	Arsenic								
18	Beryllium								
19	Chromium								
20	Nickel								
21	Antimony								
22	Selenium								
23	Thallium								
24	Silver								
25									
26	Stack Gas Flowrate								
27	O2								
28									
29	Thermal Feedrate	69.4		70.7		70.3		70.1	
30	Estimated Firing Rate							82.4	
31									
32	*Feedrate MTEC Calcula*								
33	Ash	158.3		140.0		185.6		161.3	
34	Chlorine	30785.4		27226.9		36084.9		31365.7	
35	Mercury	27.9	100	24.6	100	32.6	100	28.4	
36	Lead	58.6	100	51.9	100	68.7	100	59.7	
37	Cadmium	58.6	100	51.9	100	68.7	100	59.7	
38	Arsenic	58.6	100	51.9	100	68.7	100	59.7	
39	Beryllium	58.6	100	51.9	100	68.7	100	59.7	
40	Chromium	58.6	100	51.9	100	68.7	100	59.7	
41	Nickel	58.6	100	51.9	100	68.7	100	59.7	
42	Antimony	146.6	100	129.7	100	171.8	100	149.4	
43	Selenium	58.6	100	51.9	100	68.7	100	59.7	
44	Thallium	58.6	100	51.9	100	68.7	100	59.7	
45	Silver	146.6	100	129.7	100	171.8	100	149.4	
46									
47									
48	SVM	117.3	100	103.7	100	137.5	100	119.5	
49	LVM	175.9	100	155.6	100	206.2	100	179.2	
50									
51	**BIF Feedrate Limits**								
52									
53	Chlorine								
54	Mercury								
55	Lead								
56	Cadmium								

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
57	Arsenic		g/hr								120									
58	Beryllium		g/hr								220									
59	Chromium		g/hr								43									
60	Antimony		g/hr								15000									
61																				
62																				
63	**818C11**										Cond Avg								Cond Avg	
64																				
65	Feedstream Number										F1								F2	
66	Feed Class										Liq HW								Liq non-HW	
67	Feed Class 2										HW								Non-HW	
68	Feedstream Description										Haz waste fuel/Tall oil heads (Blr 2)								Tall oil derived fuel (Blr 3)	
69	Feed Rate		lb/hr								2585								2652.0	
70	Heat Content		Btu/lb								17000								1700	
71	Ash																			
72	Chlorine		g/hr							nd	469									
73	Antimony		g/hr							nd	5.86									
74	Arsenic		g/hr							nd	5.86									
75	Barium		g/hr								2.35									
76	Beryllium		g/hr							nd	1.17									
77	Cadmium		g/hr							nd	1.17									
78	Chromium		g/hr							nd	1.17									
79	Lead		g/hr								3.52									
80	Mercury		g/hr							nd	0.223									
81	Silver		g/hr							nd	1.17									
82	Thallium		g/hr							nd	5.86									
83																				
84	Stack Gas Flowrate		dscfm								74852									
85	O2		%								13									
86																				
87	Thermal Feedrate		MMBtu/hr								43.945								4.5084	
88	Estimated Firing Rate		MMBtu/hr																	
89																				
90	*Feedrate MTEC Calculations*																			
91	Chlorine		µg/dscm							100	6512									
92	Antimony		µg/dscm							100	81									
93	Arsenic		µg/dscm							100	81									
94	Barium		µg/dscm								33									
95	Beryllium		µg/dscm							100	16									
96	Cadmium		µg/dscm							100	16									
97	Chromium		µg/dscm							100	16									
98	Lead		µg/dscm								49									
99	Mercury		µg/dscm							100	3									
100	Silver		µg/dscm							100	16									
101	Thallium		µg/dscm							100	81									
102																				
103	SVM		µg/dscm							25	65.1									
104	LVM		µg/dscm							100	113.9									
105																				
106																				
107	**818C13**	(COC test 6/24-26/98)			R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg	
108																				
109	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2	
110	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Liq non-HW		Liq non-HW		Liq non-HW		Liq non-HW	
111	Feed Class 2				HW		HW		HW		HW		Non-HW		Non-HW		Non-HW		Non-HW	

	B	V	W	X	Y	Z	AA	AB	AC
57	Arsenic								
58	Beryllium								
59	Chromium								
60	Antimony								
61									
62									
63	**818C11**							Cond Avg	
64									
65	Feedstream Number							F3	
66	Feed Class							Total	
67	Feed Class 2							Total	
68	Feedstream Description							Total	
69	Feed Rate								
70	Heat Content								
71	Ash								
72	Chlorine								
73	Antimony								
74	Arsenic								
75	Barium								
76	Beryllium								
77	Cadmium								
78	Chromium								
79	Lead								
80	Mercury								
81	Silver								
82	Thallium								
83									
84	Stack Gas Flowrate								
85	O2								
86									
87	Thermal Feedrate							48.5	
88	Estimated Firing Rate							189	
89									
90	*Feedrate MTEC Calcul*								
91	Chlorine						100	6512	
92	Antimony						100	81	
93	Arsenic						100	81	
94	Barium						0	33	
95	Beryllium						100	16	
96	Cadmium						100	16	
97	Chromium						100	16	
98	Lead						0	49	
99	Mercury						100	3	
100	Silver						100	16	
101	Thallium						100	81	
102									
103	SVM						25	57.0	
104	LVM						100	56.9	
105									
106									
107	**818C13**	R1		R2		R3		Cond Avg	
108									
109	Feedstream Number	F3		F3		F3		F3	
110	Feed Class	Total		Total		Total		Total	
111	Feed Class 2	Total		Total		Total		Total	

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
112	Feedstream Description				Haz waste fuel/tall oil heads (Blr 2)		Haz waste fuel/tall oil heads (Blr 2)		Haz waste fuel/tall oil heads (Blr 2)		Haz waste fuel/tall oil heads (Blr 2)		Tall oil pitch (Blr 3)		Tall oil pitch (Blr 3)		Tall oil pitch (Blr 3)		Tall oil pitch (Blr 3)	
113	Feed Rate		lb/hr		2790		2808		2838				2040		2220		2220			
114	Heating Value		Btu/lb		16900		17300		17100				17600		17100		16900			
115	Ash		% wt		1.06		0.92		1.28				1.181		2.91		3.11			
116	Chlorine		ppmw	nd	400		764	nd	668			nd	904	nd	867	nd	458			
117	Antimony		ppmw	nd	5	nd	5	nd	5			nd	5	nd	5	nd	5			
118	Arsenic		ppmw	nd	5	nd	5	nd	5			nd	5	nd	5	nd	5			
119	Barium		ppmw	nd	5	nd	5		30			nd	5		8		8			
120	Beryllium		ppmw	nd	5	nd	5	nd	5			nd	5	nd	5	nd	5			
121	Cadmium		ppmw	nd	5	nd	5	nd	5			nd	5	nd	5	nd	5			
122	Chromium		ppmw	nd	5	nd	5	nd	5			nd	5	nd	5	nd	5			
123	Lead		ppmw	nd	5	nd	5	nd	5			nd	5	nd	5	nd	5			
124	Mercury		ppmw	nd	0.98	nd	0.77	nd	0.81			nd	0.58	nd	0.72	nd	0.71			
125	Silver		ppmw	nd	5	nd	5	nd	5			nd	5	nd	5	nd	5			
126	Thallium		ppmw	nd	10	nd	10	nd	10			nd	10	nd	10	nd	10			
127																				
128	Stack Gas Flowrate		dscfm		77932		77091		78975		77999		77932		77091		78975			
129	O2		%		13.4		13.9		13.8		14		13.4		13.9		13.8			
130																				
131	Thermal Feedrate		MMBtu/hr		47.2		48.6		48.5		48.1		35.9		38.0		37.5		37.1	
132	Estimated Firing Rate		MMBtu/hr																	
133																				
134	*Feedrate MTEC Calculations*																			
135	Ash		mg/dscm		186.9		176.7		239.1		201		152.3		441.8		454.5		349.5	0
136	Chlorine		µg/dscm	100	7053.1		14671.5	100	12480.0	57	11402	100	11655.1	100	13163.0	100	6693.3	100	10503.8	100
137	Antimony		µg/dscm	100	88.2	100	96.0	100	93.4	100	93	100	64.5	100	75.9	100	73.1	100	71.1	100
138	Arsenic		µg/dscm	100	88.2	100	96.0	100	93.4	100	93	100	64.5	100	75.9	100	73.1	100	71.1	100
139	Barium		µg/dscm	100	88.2	100	96.0		560.5	25	248	100	64.5		121.5		116.9	21	100.9	100
140	Beryllium		µg/dscm	100	88.2	100	96.0	100	93.4	100	93	100	64.5	100	75.9	100	73.1	100	71.1	100
141	Cadmium		µg/dscm	100	88.2	100	96.0	100	93.4	100	93	100	64.5	100	75.9	100	73.1	100	71.1	100
142	Chromium		µg/dscm	100	88.2	100	96.0	100	93.4	100	93	100	64.5	100	75.9	100	73.1	100	71.1	100
143	Lead		µg/dscm	100	88.2	100	96.0	100	93.4	100	93	100	64.5	100	75.9	100	73.1	100	71.1	100
144	Mercury		µg/dscm	100	17.3	100	14.8	100	15.1	100	16	100	7.5	100	10.9	100	10.4	100	9.6	100
145	Silver		µg/dscm	100	88.2	100	96.0	100	93.4	100	93	100	64.5	100	75.9	100	73.1	100	71.1	100
146	Thallium		µg/dscm	100	176.3	100	192.0	100	186.8	100	185	100	128.9	100	151.8	100	146.1	100	142.3	100
147																				
148	SVM		µg/dscm	100	88.2	100	96.0	100	93.4	100	93	100	64.5	100	75.9	100	73.1	100	71.1	100
149	LVM		µg/dscm	100	132.2	100	144.0	100	373.7	100	217	100	96.7	100	136.6	100	131.5	100	121.6	100
150																				
151																				
152																				
153	**818C14**										Cond Avg								Cond Avg	
154																				
155	Feedstream Number										F1								F2	
156	Feed Class										Liq HW								Liq non-HW	
157	Feed Class 2										HW								Non-HW	
158	Feedstream Description										Haz waste fuel/Tall oil heads (Blr 2)								Tall derived fuel (Blr 3)	
159	Feed Rate		lb/hr								2333								3027	

	B	V	W	X	Y	Z	AA	AB	AC
112	Feedstream Description	Total		Total		Total		Total	
113	Feed Rate								
114	Heating Value								
115	Ash								
116	Chlorine								
117	Antimony								
118	Arsenic								
119	Barium								
120	Beryllium								
121	Cadmium								
122	Chromium								
123	Lead								
124	Mercury								
125	Silver								
126	Thallium								
127									
128	Stack Gas Flowrate							78975	
129	O2							13.8	
130									
131	Thermal Feedrate	83.1		86.5		86.0		85.2	
132	Estimated Firing Rate							180.5	
133									
134	*Feedrate MTEC Calcul*								
135	Ash	339.2	0	618.5	0	693.6	0	550.4	
136	Chlorine	18708.2	47	27834.5	100	19173.3	78	21905.3	
137	Antimony	152.6	100	171.9	100	166.5	100	163.7	
138	Arsenic	152.6	100	171.9	100	166.5	100	163.7	
139	Barium	152.6	44	217.5	0	677.4	24	349.2	
140	Beryllium	152.6	100	171.9	100	166.5	100	163.7	
141	Cadmium	152.6	100	171.9	100	166.5	100	163.7	
142	Chromium	152.6	100	171.9	100	166.5	100	163.7	
143	Lead	152.6	100	171.9	100	166.5	100	163.7	
144	Mercury	24.8	100	25.7	100	25.5	100	25.3	
145	Silver	152.6	100	171.9	100	166.5	100	163.7	
146	Thallium	305.3	100	343.9	100	333.0	100	327.4	
147									
148	SVM	152.6	100	171.9	100	166.5	100	163.7	#
149	LVM	228.9	100	280.7	100	505.2	100	338.3	#
150									
151									
152									
153	**818C14**								
154									
155	Feedstream Number								
156	Feed Class								
157	Feed Class 2								
158	Feedstream Description								
159	Feed Rate								

	A	B
1	**Process Information**	
2		
3	Cond ID No.	Units
4		
5	All	For each test boiler #2 operating with Haz Waste fuel and boiler #3 with tall oil pitch
6		
7		Each boiler routed to common ESP and stack.
8		BIF sampling point for BIF CO and O2 is the boiler #2 duct.
9		Sampling points for (PM, D/F, THC, TOC, vol, semi-vol) are in the duct after ESP.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1		**PCDD/PCDF**																
2		N																
3		Facility Name and ID:	Westvaco (DeRidder, LA)															
4		Condition ID:	818C11															
5		Condition/Test Date:	CoC testing. December 1996 (1995?)															
6																		
7			I-TEF			Run 1					Run 2					Run 3		
8			Wght Fact		Total	TEQ	Total	TEQ		Total	TEQ	Total	TEQ		Total	TEQ	Total	TEQ
9					Full ND	Full ND	1/2 ND	1/2 ND		Full ND	Full ND	1/2 ND	1/2 ND		Full ND	Full ND	1/2 ND	1/2 ND
10		Detected in sample volume (ng)																
11		2,3,7,8-TCDD	1	nd	0.0010	0.0010	0.0005	0.0005	nd	0.0060	0.0060	0.0030	0.0030	nd	0.002	0.0020	0.001	0.0010
12		Total TCDD	0		0.0500	0.0000	0.0500	0.0000		0.1100	0.0000	0.1100	0.0000		0.010	0.0000	0.010	0.0000
13		1,2,3,7,8-PCDD	0.5		0.0030	0.0015	0.0030	0.0015	nd	0.0100	0.0050	0.0050	0.0025		0.003	0.0015	0.003	0.0015
14		Total PCDD	0		0.0300	0.0000	0.0300	0.0000		0.1100	0.0000	0.1100	0.0000		0.005	0.0000	0.005	0.0000
15		1,2,3,4,7,8-HxCDD	0.1	nd	0.0020	0.0002	0.0010	0.0001		0.0070	0.0007	0.0070	0.0007		0.004	0.0004	0.004	0.0004
16		1,2,3,6,7,8-HxCDD	0.1		0.0060	0.0006	0.0060	0.0006		0.0200	0.0020	0.0200	0.0020		0.003	0.0003	0.003	0.0003
17		1,2,3,7,8,9-HxCDD	0.1		0.0060	0.0006	0.0060	0.0006		0.0200	0.0020	0.0200	0.0020		0.003	0.0003	0.003	0.0003
18		Total HxCDD	0		0.0600	0.0000	0.0600	0.0000		0.1500	0.0000	0.1500	0.0000		0.007	0.0000	0.007	0.0000
19		1,2,3,4,6,7,8-HpCDD	0.01		0.0500	0.0005	0.0500	0.0005		0.0800	0.0008	0.0800	0.0008		0.020	0.0002	0.020	0.0002
20		Total HpCDD	0		0.1000	0.0000	0.1000	0.0000		0.1600	0.0000	0.1600	0.0000		0.040	0.0000	0.040	0.0000
21		OCDD	0.001		0.3900	0.0004	0.3900	0.0004		0.2700	0.0003	0.2700	0.0003		0.110	0.0001	0.110	0.0001
22		2,3,7,8-TCDF	0.1		0.0500	0.0050	0.0500	0.0050		0.9200	0.0920	0.9200	0.0920		0.190	0.0190	0.190	0.0190
23		Total TCDF	0		0.1900	0.0000	0.1900	0.0000		6.6000	0.0000	6.6000	0.0000		1.400	0.0000	1.400	0.0000
24		1,2,3,7,8-PCDF	0.05	nd	0.0100	0.0005	0.0050	0.0003		0.2100	0.0105	0.2100	0.0105		0.050	0.0025	0.050	0.0025
25		2,3,4,7,8-PCDF	0.5		0.0100	0.0050	0.0100	0.0050		0.2100	0.1050	0.2100	0.1050		0.050	0.0250	0.050	0.0250
26		Total PCDF	0		0.1900	0.0000	0.1900	0.0000		2.5000	0.0000	2.5000	0.0000		0.590	0.0000	0.590	0.0000
27		1,2,3,4,7,8-HxCDF	0.1	nd	0.0200	0.0020	0.0100	0.0010		0.1600	0.0160	0.1600	0.0160		0.020	0.0020	0.020	0.0020
28		1,2,3,6,7,8-HxCDF	0.1	nd	0.0080	0.0008	0.0040	0.0004		0.0600	0.0060	0.0600	0.0060		0.009	0.0009	0.009	0.0009
29		2,3,4,6,7,8-HxCDF	0.1		0.0200	0.0020	0.0200	0.0020		0.0500	0.0050	0.0500	0.0050		0.010	0.0010	0.010	0.0010
30		1,2,3,7,8,9-HxCDF	0.1		0.0030	0.0003	0.0030	0.0003	nd	0.0080	0.0008	0.0040	0.0004		0.003	0.0003	0.003	0.0003
31		Total HxCDF	0		0.0500	0.0000	0.0500	0.0000		0.4800	0.0000	0.4800	0.0000		0.070	0.0000	0.070	0.0000
32		1,2,3,4,6,7,8-HpCDF	0.01		0.0300	0.0003	0.0300	0.0003		0.1600	0.0016	0.1600	0.0016		0.010	0.0001	0.010	0.0001
33		1,2,3,4,7,8,9-HpCDF	0.01		0.0070	0.0001	0.0070	0.0001		0.0300	0.0003	0.0300	0.0003	nd	0.003	0.0000	0.002	0.0000
34		Total HpCDF	0		0.0400	0.0000	0.0400	0.0000		0.2700	0.0000	0.2700	0.0000		0.020	0.0000	0.020	0.0000
35		OCDF	0.001		0.0400	0.0000	0.0400	0.0000		0.2100	0.0002	0.2100	0.0002		0.020	0.0000	0.020	0.0000
36																		
37		Gas sample volume (dscf)			156.54	156.54	156.54	156.54		128.98	128.98	128.98	128.98		122.26	122.26	122.261	122.26
38		O2 (%)			13.20	13.20	13.20	13.20		11.70	11.70	11.70	11.70		14.30	14.30	14.300	14.30
39																		
40		PCDD/PCDF (ng in sample)			1.1400	0.0208	1.1400	0.0186		10.8600	0.2542	10.8600	0.2483		2.2720	0.0557	2.2720	0.0546
41		PCDD/PCDF (ng/dscm @ 7% O2)		21.6	0.4619	0.0084	0.4619	0.0075	4.6	4.4790	0.1048	4.4790	0.1024	3.6	1.3721	0.0336	1.3721	0.0330
42																		
43		TEQ Cond Avg	0.048															
44		Total Cond Avg	2.10															

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	**PCDD/PCDF**																	
2	N																	
3	Facility Name and ID:		Westvaco															
4	Condition ID:		818C12															
5	Condition/Test Date:		CoC testing. April 29-30, 1992															
6																		
7			I-TEF			Run 1					Run 2					Run 3		
8			Wght Fact		Total	TEQ	Total	TEQ		Total	TEQ	Total	TEQ		Total	TEQ	Total	TEQ
9					Full ND	Full ND	1/2 ND	1/2 ND		Full ND	Full ND	1/2 ND	1/2 ND		Full ND	Full ND	1/2 ND	1/2 ND
10	Detected in sample volume (pg)																	
11		2,3,7,8-TCDD	1	nd	3.3	3.3	1.7	1.7	nd	2.6	2.6	1.3	1.3	nd	3.0	3.0	1.5	1.5
12		Total TCDD	0		47	0.0	47	0.0		34.0	0.0	34.0	0.0		75.0	0.0	75.0	0.0
13		1,2,3,7,8-PCDD	0.5	nd	13	6.5	7	3.3	nd	13.0	6.5	6.5	3.3	nd	13.0	6.5	6.5	3.3
14		Total PCDD	0	nd	250	0.0	125	0.0	nd	230.0	0.0	115	0.0	nd	240.0	0.0	120	0.0
15		1,2,3,4,7,8-HxCDD	0.1	nd	18	1.8	9	0.9	nd	12.0	1.2	6	0.6	nd	11.0	1.1	5.5	0.6
16		1,2,3,6,7,8-HxCDD	0.1	nd	12	1.2	6	0.6	nd	8.4	0.8	4	0.4	nd	8.9	0.9	4.5	0.4
17		1,2,3,7,8,9-HxCDD	0.1	nd	14	1.4	7	0.7	nd	10.0	1.0	5	0.5	nd	11.0	1.1	5.5	0.6
18		Total HxCDD	0	nd	52	0.0	26	0.0	nd	29.0	0.0	15	0.0		20.0	0.0	20	0.0
19		1,2,3,4,6,7,8-HpCDD	0.01		66	0.7	66	0.7		25.0	0.3	25	0.3		29.0	0.3	29	0.3
20		Total HpCDD	0		120	0.0	120	0.0		53.0	0.0	53	0.0		59.0	0.0	59	0.0
21		OCDD	0.001		340	0.3	340	0.3		150.0	0.2	150	0.2		140.0	0.1	140	0.1
22		2,3,7,8-TCDF	0.1		63	6.3	63	6.3		14.0	1.4	14	1.4		21.0	2.1	21	2.1
23		Total TCDF	0		620	0.0	620	0.0		230.0	0.0	230	0.0		410.0	0.0	410	0.0
24		1,2,3,7,8-PCDF	0.05		39	2.0	39	2.0	nd	14.0	0.7	7	0.4		15.0	0.8	15	0.8
25		2,3,4,7,8-PCDF	0.5		47	23.5	47	23.5		12.0	6.0	12	6.0		25.0	12.5	25	12.5
26		Total PCDF	0		450	0.0	450	0.0		120.0	0.0	120	0.0		280.0	0.0	280	0.0
27		1,2,3,4,7,8-HxCDF	0.1		50	5.0	50	5.0		18.0	1.8	18	1.8		27.0	2.7	27	2.7
28		1,2,3,6,7,8-HxCDF	0.1		34	3.4	34	3.4		14.0	1.4	14	1.4		27.0	2.7	27	2.7
29		2,3,4,6,7,8-HxCDF	0.1		54	5.4	54	5.4		20.0	2.0	20	2.0		46.0	4.6	46	4.6
30		1,2,3,7,8,9-HxCDF	0.1	nd	11	1.1	5.5	0.6	nd	8.1	0.8	4.1	0.4	nd	12.0	1.2	6	0.6
31		Total HxCDF	0		430	0.0	430	0.0		130.0	0.0	130	0.0		240.0	0.0	240	0.0
32		1,2,3,4,6,7,8-HpCDF	0.01		180	1.8	180	1.8		46.0	0.5	46	0.5		72.0	0.7	72	0.7
33		1,2,3,4,7,8,9-HpCDF	0.01	nd	17	0.2	9	0.1	nd	10.0	0.1	5	0.1	nd	13.0	0.1	6.5	0.1
34		Total HpCDF	0		180	0.0	180	0.0		46.0	0.0	46	0.0		72.0	0.0	72	0.0
35		OCDF	0.001		98	0.1	98	0.1		28.0	0.0	28	0.0		29.0	0.0	29	0.0
36																		
37		Gas sample volume (dscf)			122	122	122	122		137	137	137	137		132.6	132.6	132.6	132.6
38		O2 (%)			15.5	15.5	15.5	15.5		14.4	14.4	14.4	14.4		14.5	14.5	14.5	14.5
39																		
40		PCDD/PCDF (pg in sample)			2587	64	3013	56		1050	27	1109	20		1565	40	1743	33
41		PCDD/PCDF (ng/dscm @ 7% O2)		24.2	1.9073	0.0471	2.2215	0.0414	50.5	0.5745	0.0149	0.6065	0.0111	34.4	0.8983	0.0232	1.0004	0.0192
42																		
43		TEQ Cond Avg	0.0239															
44		Total Cond Avg	1.28															

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	**PCDD/PCDF**																			
2	N																			
3	Facility Name and ID:		Westvaco																	
4	Condition ID:		818C13																	
5	Condition/Test Date:		CoC testing June 24-26, 1998																	
6																				
7			I-TEF				Run 1					Run 2					Run 3			Avg
8			Wght Fact		Total	TEQ	Total	TEQ		Total	TEQ	Total	TEQ		Total	TEQ	Total	TEQ		Total
9					Full ND	Full ND	1/2 ND	1/2 ND		Full ND	Full ND	1/2 ND	1/2 ND		Full ND	Full ND	1/2 ND	1/2 ND		1/2 ND
10	Detected in sample volume (ng)																			
11		2,3,7,8-TCDD	1	nd	0.003	0.003	0.002	0.002	nd	0.003	0.003	0.002	0.002	nd	0.002	0.002	0.001	0.001		0.001
12		Total TCDD	0		0.012	0.000	0.012	0.000		0.018	0.000	0.018	0.000		0.004	0.000	0.004	0.000		0.011
13		1,2,3,7,8-PCDD	0.5	nd	0.006	0.003	0.003	0.002	nd	0.005	0.003	0.003	0.001	nd	0.004	0.002	0.002	0.001		0.003
14		Total PCDD	0	nd	0.006	0.000	0.003	0.000		0.017	0.000	0.017	0.000	nd	0.004	0.000	0.002	0.000		0.007
15		1,2,3,4,7,8-HxCDD	0.1	nd	0.003	0.000	0.002	0.000		0.005	0.001	0.005	0.001	nd	0.004	0.000	0.002	0.000		0.003
16		1,2,3,6,7,8-HxCDD	0.1		0.008	0.001	0.008	0.001		0.012	0.001	0.012	0.001	nd	0.004	0.000	0.002	0.000		0.007
17		1,2,3,7,8,9-HxCDD	0.1		0.007	0.001	0.007	0.001		0.008	0.001	0.008	0.001	nd	0.004	0.000	0.002	0.000		0.006
18		Total HxCDD	0		0.035	0.000	0.035	0.000		0.075	0.000	0.075	0.000		0.014	0.000	0.014	0.000		0.041
19		1,2,3,4,6,7,8-HpCDD	0.01		0.029	0.000	0.029	0.000		0.083	0.001	0.083	0.001		0.022	0.000	0.022	0.000		0.045
20		Total HpCDD	0		0.042	0.000	0.042	0.000		0.100	0.000	0.100	0.000		0.035	0.000	0.035	0.000		0.059
21		OCDD	0.001		0.140	0.000	0.140	0.000		0.420	0.000	0.420	0.000		0.170	0.000	0.170	0.000		0.243
22		2,3,7,8-TCDF	0.1		0.008	0.001	0.008	0.001		0.011	0.001	0.011	0.001	nd	0.003	0.000	0.002	0.000		0.007
23		Total TCDF	0		0.038	0.000	0.038	0.000		0.044	0.000	0.044	0.000	nd	0.003	0.000	0.002	0.000		0.028
24		1,2,3,7,8-PCDF	0.05		0.016	0.001	0.016	0.001		0.022	0.001	0.022	0.001		0.006	0.000	0.006	0.000		0.015
25		2,3,4,7,8-PCDF	0.5		0.012	0.006	0.012	0.006		0.016	0.008	0.016	0.008		0.005	0.003	0.005	0.003		0.011
26		Total PCDF	0		0.076	0.000	0.076	0.000		0.120	0.000	0.120	0.000		0.012	0.000	0.012	0.000		0.069
27		1,2,3,4,7,8-HxCDF	0.1		0.060	0.006	0.060	0.006		0.074	0.007	0.074	0.007		0.021	0.002	0.021	0.002		0.052
28		1,2,3,6,7,8-HxCDF	0.1		0.028	0.003	0.028	0.003		0.038	0.004	0.038	0.004		0.011	0.001	0.011	0.001		0.026
29		2,3,4,6,7,8-HxCDF	0.1		0.023	0.002	0.023	0.002		0.030	0.003	0.030	0.003		0.009	0.001	0.009	0.001		0.021
30		1,2,3,7,8,9-HxCDF	0.1		0.017	0.002	0.017	0.002		0.021	0.002	0.021	0.002		0.007	0.001	0.007	0.001		0.015
31		Total HxCDF	0		0.210	0.000	0.210	0.000		0.290	0.000	0.290	0.000		0.077	0.000	0.077	0.000		0.192
32		1,2,3,4,6,7,8-HpCDF	0.01		0.290	0.003	0.290	0.003		0.360	0.004	0.360	0.004		0.110	0.001	0.110	0.001		0.253
33		1,2,3,4,7,8,9-HpCDF	0.01		0.052	0.001	0.052	0.001		0.053	0.001	0.053	0.001		0.015	0.000	0.015	0.000		0.040
34		Total HpCDF	0		0.430	0.000	0.430	0.000		0.520	0.000	0.520	0.000		0.160	0.000	0.160	0.000		0.370
35		OCDF	0.001		0.600	0.001	0.600	0.001		0.560	0.001	0.560	0.001		0.220	0.000	0.220	0.000		0.460
36																				
37		Gas sample volume (dscf)			3.84	3.84	3.84	3.84		3.96	3.96	3.96	3.96		3.98	3.98	3.98	3.98		
38		O2 (%)			17.3	17.3	17.3	17.3		17.1	17.1	17.1	17.1		17.0	17.0	17.0	17.0		
39																				
40		PCDD/PCDF (ng in sample)			1.59	0.03	2.14	0.03		2.16	0.04	2.90	0.04		0.70	0.01	0.91	0.01		
41		PCDD/PCDF (ng/dscm @ 7% O2)		19.3	1.5657	0.0322	2.1106	0.0291	13.6	1.9617	0.0367	2.6298	0.0342	36.8	0.6147	0.0132	0.8020	0.0107		
42																				
43		TEQ Cond Avg	0.0247																	
44		Total Cond Avg	1.85																	