

US EPA ARCHIVE DOCUMENT

	B	C	D	E
1	<b>Source Description</b>			
2				
3	Phase I ID No.	211		
4	EPA ID No.	KYD088438817		
5	Facility Name	LWD, INC.		
6	Facility Location			
7	City	CALVERT CITY		
8	State	KY		
9	Unit ID Name/No.	UNIT NO. 1		
10	Other Sister Facilities	None		
11	Number of Sister Facilities	0		
12	Combustor Class	Commercial incinerator		
13	Combustor Type	Rotary kiln		
14	Combustor Characteristics			
15	Capacity (MMBtu/hr)			
16	Soot Blowing			
17	APCS Detailed Acronym	SD/FF/PT		
18	APCS General Class	FF, LEWS		
19	APCS Characteristics	Spray dryer, fabric filter (Teflon fabric, A/C = 4.5, 15,000 ft2 cloth area), packed tower (Rachig ring packing, 4 ft packing depth, 600 gpm caustic liquor)		
20	Hazardous Wastes	Liq, solid		HW LIQ, solids
21	Haz Waste Description			
22	Supplemental Fuel			
23				
24	Stack Characteristics			
25	Diameter (ft)	5.0		
26	Height (ft)	150.0		
27	Gas Velocity (ft/sec)	11.3		
28	Gas Temperature (°F)	155.7		
29				
30	Permitting Status			
31	HWC Burn Status (Date if Terminated)			

	B	C
1	<b>Source Description</b>	
2		
3	<b>211C1</b>	
4		
5	Report Name/Date	Stationary Source Sampling Report, Reference # 11658, LWD, Inc., Hazardous Waste Incineration Testing, Unit No. 1, Calvert City, Kentucky, Prepared by Entropy, March 1993
6	Report Prepare	Entropy
7	Testing Firm	Entropy
8	Cond Descr	Trial burn
9	Testing Dates	
10	Cond Dates	Mar-93

	B	C	D	E	F	G	H	I	J	K	L	M
1	<b>Stack Gas Emissions 2</b>											
2												
3												
4	<b>211C1</b>					R1		R2		R3		Cond Avg
5												
6	PM	E1	gr/dscf	y		0.0114		0.0104		0.0038		0.0085
7	CO (RA)	E1	ug/dscm	y		4.8 nd		2.6		5.8		4.4
8	HC	E1	ppmv	y		4.0		2.2		2.3		2.8
9	HCl	E1	ppmv	y		20.6		23.2		29.3		24.3
10	Cl2	E1	ppmv	y		8.1		2.4		9.5		6.7
11	Total Chlorine	E1	ppmv	y		36.8		27.9		48.3		37.7
12												
13	1,2-dichlorobenzene	E2	%			99.9998		99.9969		99.9997		
14												
15	Sampling Train	Halogens	E1									
16	Stack Gas Flowrate		dscfm			26412.0		25958.0		26765.0		
17	O2		%			15.7		15.6		15.7		
18	Moisture		%			28.6		29.1		28.0		
19	Temperature		°F			156.0		157.0		155.0		
20												
21	Sampling Train	SVOC	E2									
22	Stack Gas Flowrate		dscfm			27262.0		27306.0		27250.0		
23	O2		%			15.7		15.6		15.7		
24	Moisture		%			27.6		28.4		27.8		
25	Temperature		°F			156.0		156.0		154.0		

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB		
1	<b>Feedstream 2</b>																												
2																													
3																													
4	<b>211C1</b>		R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3			
5																													
6	Feedstream Number		F1	F1	F1	F2	F2	F2	F3	F3	F3																		
7	Feed Class		Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW																		
8	Feed Class 2																												
9	Feedstream Description		Aqueous 14	Aqueous 14	Aqueous 14	Aqueous 15	Aqueous 15	Aqueous 15	Organic	Organic	Organic												HW		HW		HW		
10	Feed Rate	lb/hr	3,249	3,601	3,148	2,880	3,014	3,124	2,396	1,937	1,935																		
11	Heating Value	Btu/lb							14,360	14,916	13,896																		
12	Ash	wt %							33	41	37																		
13	Chlorine	ppmw	122,191	103,305	112,135	114,931	101,526	110,115	141,903	103,252	143,152																		
14																													
15	Stack Gas Flowrate	dscfm	26,412	25,958	26,765	26,412	25,958	26,765	26,412	25,958	26,765																		
16	Oxygen	%	15.7	15.6	15.7	15.7	15.6	15.7	15.7	15.6	15.7																		
17																													
18	<i>Feedrate MTEC Calculations</i>																												
19	Ash	mg/dscm							20,951	21,001	19,097												20,951		21,001		19,097		
20	Chlorine	ug/dscm	10,615,967	9,934,000	9,314,891	8,851,096	8,171,516	9,077,401	9,091,760	5,340,860	7,309,419												28,558,822		23,446,376		25,701,711		

	B	AC	AD	AE	AF	AG	AH	AI	AJ
1	<b>Feedstream 2</b>								
2									
3									
4	<b>211C1</b>		R1		R2		R3		Cond Avg
5									
6	Feedstream Number		F4		F4		F4		F4
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									
15	Stack Gas Flowrate								
16	Oxygen								
17									
18	<i>Feedrate MTEC Calculations</i>								
19	Ash		20,951		21,001		19,097		20,349
20	Chlorine		28,558,822		23,446,376		25,701,711		25,902,303