

US EPA ARCHIVE DOCUMENT

	B	C	D	E	F
1	<b>Source Description</b>				
2					
3	Phase I ID No.	212			
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. 2			
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, packed bed scrubber; Fabric filter: Teflon bags, A/C 4.5, 15,000 ft2 bag area. PBS: 600 pgm liquid, 1" Raschig ring packing, 4 ft depth.			
20	Hazardous Wastes	Liq, sluge, solid			HW SLD/LIQ/SLUDGE
21	Haz Waste Description	Solid, liquid, sludge			
22	Supplemental Fuel				
23					
24	Stack Characteristics				
25	Diameter (ft)	5.0			
26	Height (ft)	150.0			
27	Gas Velocity (ft/sec)	11.2			
28	Gas Temperature (°F)	158.3			
29					
30	Permitting Status				
31	HWC Burn Status (Date if Terminated)				

	B	C
1	<b>Condition Description</b>	
2		
3	<b>212C1</b>	
4		
5	Report Name/Date	Stationary Source Sampling Report, Reference # 11606, LWD, Inc., Hazardous Waste Incineration Testing, Unit No. 2, 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>212C1</b>					R1		R2		R3		Cond Avg
5												
6	PM	E1	gr/dscf	y		0.0200		0.0236		0.0235		0.0224
7	CO	E1	ppmv	y		4.9	nd	2.3		5.3		4.2
8	HC	E1	ppmv	y		5.8		3.2		3.5		4.2
9	HCl	E1	ppmv	y		63.9		87.0		249.4		133.4
10	Cl2	E1	ppmv	y		0.2		0.5	nd	0.1		0.2
11	Total Chlorine	E1	ppmv	y		64.2		87.9	0	249.6	0	133.9
12												
13	1,2-dichlorobenzene	DRE	%			99.9998		99.9998		99.9998		
14	Hexachloroethane	DRE	%			99.9992		99.9993		99.9992		
15												
16	Sampling Train	Halogens	E1									
17	Stack Gas Flowrate		dscfm			25844.0		23344.0		26150.0		
18	O2		%			15.3		14.9		15.7		
19	Moisture		%			32.1		34.8		30.0		
20	Temperature		°F			159.0		163.0		157.0		
21												
22	Sampling Train	SVOC	E2									
23	Stack Gas Flowrate		dscfm			25039.0		24955.0		26810.0		
24	O2		%			15.3		14.9		15.7		
25	Moisture		%			31.1		31.1		28.7		
26	Temperature		°F			158.0		158.0		155.0		

	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
1	<b>Feedstream 2</b>																								
2																									
3																									
4	<b>212C1</b>		R1		R2		R3		R1		R2		R3		R1		R2		R3		R1		R2		
5																									
6	Feedstream Number		F1		F1		F1		F2		F2		F2		F3		F3		F3		F4		F4		
7	Feed Class		Sludge		Sludge		Sludge		Solid HW		Solid HW		Solid HW		Solid HW		Solid HW		Solid HW		Liq HW		Liq HW		
8	Feed Class 2																								
9	Feedstream Description		Aqueous		Aqueous		Aqueous		Bulk Solids		Bulk Solids		Bulk Solids		Packaged		Packaged		Packaged		Organic		Organic		
0	Feed Rate	lb/hr	1,567		1,654		1,645		9,862		9,669		9,749		844		866		782		1,077		1,449		
1	Heating Value	Btu/lb	0		0		0		875		830		1,016		3,794		5,102		5,321		12,890		13,618		
2	Ash	wt %	0		0		0		85		86		86		88		87		89		45		52		
3	Chlorine	ppmw	364,391		298,670		396,353		27,783		29,476		31,593		35,545		36,374		34,783		180,130		149,068		
4																									
5	Stack Gas Flowrate	dscfm	25,844		23,344		26,150		25,844		23,344		26,150		25,844		23,344		26,150		25,844		23,344		
6	Oxygen	%	15.3		14.9		15.7		15.3		14.9		15.7		15.3		14.9		15.7		15.3		14.9		
7																									
8	<i>Feedrate MTEC Calculations</i>																								
9	Ash	mg/dscm							214,010		218,331		225,915		18,808		19,851		18,734		12,315		19,692		
0	Chlorine	ug/dscm	14,509,342		12,985,780		17,609,468		6,962,451		7,491,796		8,318,583		762,312		828,041		734,628		4,929,619		5,677,993		

	B	AB	AD	AF	AH	AJ	AL	AN	AP	AR	AT	AV
1	<b>Feedstream 2</b>											
2												
3												
4	<b>212C1</b>	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	Cond Avg
5												
6	Feedstream Number	F4	F5	F5	F5				F6	F6	F6	F6
7	Feed Class	Liq HW	Liq HW	Liq HW	Liq HW				Total	Total	Total	Total
8	Feed Class 2					HW	HW	HW	Total	Total	Total	Total
9	Feedstream Description	Organic	Waste	Waste	Waste				Total	Total	Total	Total
10	Feed Rate	1,082	1,157	1,182	1,293							
11	Heating Value	12,164	9,197	9,554	9,576							
12	Ash	37	63	56	59							
13	Chlorine	258,780	120,138	126,904	125,290							
14												
15	Stack Gas Flowrate	26,150	25,844	23,344	26,150							
16	Oxygen	15.7	15.3	14.9	15.7							
17												
18	<i>Feedrate MTEC Calculations</i>											
19	Ash	10,725	18,610	17,524	20,744	263,744	275,399	276,118	263,744	275,399	276,118	271,753
20	Chlorine	7,562,348	3,532,047	3,943,051	4,375,359	30,695,771	30,926,660	38,600,386	30,695,771	30,926,660	38,600,386	33,407,606