	B	C
1	**Source Description**	
2		
3	Phase I ID No.	490
4	EPA ID No.	ALD001221902
5	Facility Name	CIBA-GEIGY CORPORATION
6	Facility Location	
7	City	McINTOSH
8	State	AL
9	Unit ID Name/No.	HW INCINERATOR NO. 2
10	Other Sister Facilities	
11	Combustor Class	ONSITE INCINERATOR
12	Combustor Type	Rotary kiln
13	Combustor Characteristics	
14	Capacity (MMBtu/hr)	
15	Soot Blowing	
16	APCS	SS/PBS
17	APCS Characteristics	Spray saturator, packed bed scrubber
18	Hazardous Wastes	HW LIQ/SLUDGE
19	Haz Waste Description	
20	Supplemental Fuel	NATURAL GAS
21		
22	Stack Characteristics	
23	Diameter (ft)	3.0
24	Height (ft)	125.0
25	Gas Velocity (ft/sec)	19.7
26	Gas Temperature (°F)	167.7
27		
28	Permitting Status	
29	HWC Burn Status (Date if Terminated)	

	B	C
1	**Condition Description**	
2		
3	**490C1**	
4		
5	Report Name/Date	Hazardous Waste Incinerator No. 2, Trial Burn Report, Ciba-Geigy Corp, McIntosh, Alabama, Volume I of V, June 1994
6	Report Prepare	Ciba
7	Testing Firm	METCO
8	Cond Descr	Trial burn, HIGH KILN EXIT TEMPERATURE, METALS SPIKING
9	Test Dates	March 16-18, 1994
10	Cond Date	06/01/94
11		
12	**490C2**	
13		
14	Report Name/Date	Hazardous Waste Incinerator No. 2, Trial Burn Report, Ciba-Geigy Corp, McIntosh, Alabama, Volume I of V, June 1994
15	Report Prepare	Ciba
16	Testing Firm	METCO
17	Cond Descr	Trial burn, LOW KILN EXIT TEMPERATURE, DRE
18	Test Dates	3/17/94
19	Cond Date	06/01/94

	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	**Stack Gas Emissions 2**													
2														
3														
4	**490C1**					R1		R2		R3		R4		Cond Avg
5														
6	PM		gr/dscf	y		0.0125		0.0116		0.0110		0.0103		0.0114
7	CO		ppmv	y		0.0		0.0		0.0		0		
8	HCl		ppmv	y		0.1		0.2		0.1		0.1		
9	Cl2		ppmv	y		0.1		0.0		0.0		0.0		
10	Total Cl		ug/dscm	y		0.2		0.2		0.1		0.1		0.2
11	Antimony		ug/dscm	y			nd	2.5	nd	2.5	nd	2.5		
12	Arsenic		ug/dscm	y				38.9		35.4		26.8		
13	Barium		ug/dscm	y				3.7		3.7		3.6		
14	Beryllium		ug/dscm	y				0.1		0.1		0.0		
15	Cadmium		ug/dscm	y				13.7		13.9		23.9		
16	Chromium		ug/dscm	y				5.5		5.2		4.3		
17	Lead		ug/dscm	y				19.1		21.1		11.0		
18	Mercury		ug/dscm	y				30.3		23.4		29.4		27.7
19	Nickel		ug/dscm	y				1.3	nd	0.7		0.9		
20	Selenium		ug/dscm	y			nd	4.7	nd	4.6	nd	5.0		
21	Silver		ug/dscm	y			nd	0.2	nd	0.2	nd	0.2		
22	Thallium		ug/dscm	y				0.2		0.2	nd	0.1		
23	SVM		ug/dscm	y				32.9		35.0		34.9		34.2
24	LVM		ug/dscm	y				44.5		40.7		31.2		38.8
25														
26	Sampling Train	Metals												
27	Moisture							21.7		22.2		25.7		
28	Oxygen							8.4		7.7		7.1		
29	Stack gas flowrate							18503.0		17931.0		17010.0		
30	Temperature													
31														
32	Sampling Train	Particulate												
33	Moisture					21.4		21.5		22.1		26.4		
34	Oxygen					8.3		8.4		7.7		7.1		
35	Stack gas flowrate					17888.0		17922.0		17962.0		16814.0		
36	Temperature					157.0		159.0		160.0		168.0		
37														
38	**490C2**					R1		R2		R3		R4		Cond Avg
39														
40	PM		gr/dscf	y		0.0097		0.0090		0.0087				0.0091
41	CO		ppmv	y		0.0		0.0		0.0				
42	HCl		ppmv	y		0.2		0.2		0.1				
43	Cl2		ppmv	y		0.0		0.0		0.1				
44	Total Cl		ppmv	y		0.3		0.3		0.2				0.3
45														
46	Sampling Train	Particulate												
47	Moisture					24.5		25.5		26.0				
48	Oxygen					7.3		6.7		7.3				
49	Stack gas flowrate					17742.0		17038.0		16863.0				
50	Temperature					166.0		166.0		171.0				
51														
52	Carbon Tetrachloride	DRE	%			99.99998		99.99999		99.99999				
53	Chlorobenzene	DRE	%			99.99999		99.99999		99.99999				
54	Toluene	DRE	%			99.99994		99.99995		99.99992				

	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	AC	AD	AE	AF	AG
1	**Feedstream 2**																															
2																																
3																																
4	**490C1**			R1		R2		R3		R4		R1		R2		R3		R4		R1		R2		R3		R4		R1		R2		R3
5																																
6	Feedstream			Biosludge								Nat gas								Synthetic liquid waste POHC								Metal spike				
7	Feedrate	lb/hr		8856		8844		8820		8844		1116		1099		1200		1209		2166		2160		2076		2166				0		0
8	Ash	lb/hr																														
9	Chlorine	lb/hr																		227		227		218		227						
10	Antimony	lb/hr			1	0.08844	1	0.0882	1	0.08844											1	0.0216	1	0.02076	1	0.02166						
11	Arsenic	lb/hr				0.021226		0.02205		0.02034											1	0.000648	1	0.00062	1	0.00065				0.132011		0.131923
12	Barium	lb/hr				0.311309		0.32369		0.29185												0.000259	1	0.00042		0.000173						
13	Beryllium	lb/hr				0.005925		0.00441		0.00407												4.32E-05		4.2E-05	1	0.000108				0.022002		0.022002
14	Cadmium	lb/hr				0.002565		0.00088		0.00106											1	4.32E-05	1	4.2E-05	1	4.33E-05				0.05172		0.051676
15	Chromium	lb/hr				0.133544		0.14112		0.13178												0.002592		0.00332		0.003032				0.915063		0.914666
16	Lead	lb/hr				0.042451		0.02911		0.01592												0.016416	1	0.01038	1	0.01083						
17	Mercury	lb/hr			1	0.001857	1	0.00159		0.00168											1	4.32E-05	1	4.2E-05	1	4.33E-05						
18	Nickel	lb/hr				0.041567		0.0441		0.03891												0.00324		0.00191		0.004982						
19	Selenium	lb/hr			1	0.08844	1	0.0882	1	0.08844											1	0.0216	1	0.02076	1	0.02166						
20	Silver	lb/hr			1	0.04422	1	0.0441	1	0.04422											1	0.0108	1	0.01038	1	0.01083						
21	Thallium	lb/hr				0.134429		0.17816		0.14416											1	0.0864	1	0.08304	1	0.08664						
22																																
23	Gas flowrate			17888		17922		17962		16814										17888		17922		17962		16814		17888		17922		17962
24	Oxygen			8.3		8.4		7.7		7.1										8.3		8.4		7.7		7.1		8.3		8.4		7.7
25																																
26	Feedrate MTECs																															
27																																
28	Ash	mg/dscm																														
29	Chlorine	ug/dscm																		3740301		3762834		3415831		3635685				0		0
30	Antimony	ug/dscm			1	1466.0	1	1382.0	1	1416.5												358.0		325.3		346.9				0.0		0.0
31	Arsenic	ug/dscm				351.8		345.5		325.8												10.7		9.8		10.4				2188.3		2067.1
32	Barium	ug/dscm				5160.4		5071.9		4674.4												4.3		6.5		2.8				0.0		0.0
33	Beryllium	ug/dscm				98.2		69.1		65.2												0.7		0.7		1.7				364.7		344.7
34	Cadmium	ug/dscm				42.5		13.8		17.0												0.7		0.7		0.7				857.3		809.7
35	Chromium	ug/dscm				2213.7		2211.2		2110.5												43.0		52.0		48.6				15168.4		14331.9
36	Lead	ug/dscm				703.7		456.1		255.0												272.1		162.6		173.5				0.0		0.0
37	Mercury	ug/dscm			1	30.8	1	24.9		26.9												0.7		0.7		0.7				0.0		0.0
38	Nickel	ug/dscm				689.0		691.0		623.2												53.7		29.9		79.8				0.0		0.0
39	Selenium	ug/dscm			1	1466.0	1	1382.0	1	1416.5												358.0		325.3		346.9				0.0		0.0
40	Silver	ug/dscm			1	733.0	1	691.0	1	708.2												179.0		162.6		173.5				0.0		0.0
41	Thallium	ug/dscm				2228.3		2791.6		2308.9												1432.2		1301.1		1387.6				0.0		0.0
42	SVM	ug/dscm				746.2		469.9		272.0												272.8		163.3		174.1				857.3		809.7
43	LVM	ug/dscm				2663.7		2625.8		2501.5												54.4		62.5		60.7				17721.4		16743.7
44																																
45																																
46	**490C2**			R1		R2		R3		R4		R1		R2		R3		R4		R1		R2		R3		R4		R1		R2		R3
47																																
48	Feedstream			Biosludge								Nat gas								Synthetic liquid waste POHC								Metal spike				
49	Feedrate	lb/hr		8838		8838		8844				1369		1367		1397				2178		2172		2166								
50	Ash	lb/hr																														
51	Chlorine	lb/hr		16.8		12.4		12.4												212		211		238								
52																																
53	Gas flowrate			17742		17038		16863				17742		17038		16863				17742		17038		16863				17742		17038		16863
54	Oxygen			7.3		6.7		7.3				7.3		6.7		7.3				7.3		6.7		7.3				7.3		6.7		7.3
55																																
56	Feedrate MTECs																															
57	Ash	mg/dscm																														
58	Chlorine	ug/dscm		258721		190508		200915												3264818		3241709		3856273								

	B	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS
1	**Feedstream 2**												
2													
3													
4	**490C1**		R4		R1		R2		R3		R4		Cond Avg
5													
6	Feedstream				Total								
7	Feedrate		0										
8	Ash				499		387		407		410		
9	Chlorine												
10	Antimony												
11	Arsenic		0.13201										
12	Barium												
13	Beryllium		0.022										
14	Cadmium		0.05172										
15	Chromium		0.9092				1.0511997						
16	Lead												
17	Mercury												
18	Nickel												
19	Selenium												
20	Silver												
21	Thallium												
22													
23	Gas flowrate		16814		17888		17922		17962		16814		
24	Oxygen		7.1		8.3		8.4		7.7		7.1		
25													
26	Feedrate MTECs												
27													
28	Ash				8222		6415		6377		6567		6895
29	Chlorine		0		3740301		3762834		3415831		3635685		3638663
30	Antimony		0.0				1824		1707		1763		1765
31	Arsenic		2114.3				2551		2422		2451		2475
32	Barium		0.0				5165		5078		4677		4973
33	Beryllium		352.4				464		414		419		432
34	Cadmium		828.4				901		824		846		857
35	Chromium		14561.9				17425		16595		16721		16914
36	Lead		0.0				976		619		428		674
37	Mercury		0.0				16		13		28		19
38	Nickel		0.0				743		721		703		722
39	Selenium		0.0				1824		1707		1763		1765
40	Silver		0.0				912		854		882		882
41	Thallium		0.0				3661		4093		3697		3817
42	SVM		828.4				1876.4		1442.9		1274.5		1531
43	LVM		17028.7				20439.6		19432.0		19590.9		19821
44													
45													
46	**490C2**		R4		R1		R2		R3		R4		Cond Avg
47													
48	Feedstream				Total								
49	Feedrate												
50	Ash				515		404		405				
51	Chlorine												
52													
53	Gas flowrate				17742		17038		16863				
54	Oxygen				7.3		6.7		7.3				
55													
56	Feedrate MTECs												
57	Ash				7931		6207		6562				6900
58	Chlorine				3523539		3432216.9		4057187.9				3670981

	C	D	E	F	G	H
1	**Process Information 2**					
2						
3	**490C1**					
4						
5	Kiln Temperature	F	1700	1702	1696	1700
6	Afterburner Temperature	F	1800	1800	1798	1801
7	WS Temperature	F	142	142	143	148
8	WS Pressure Drop	in H2O	0.83	0.87	0.84	0.9
9	WS pH		7.5	6.5	6.8	6.5
10						
11	**490C2**					
12						
13	Kiln Temperature	F	1590	1591	1583	
14	Afterburner Temperature	F	1800	1800	1800	
15	WS Temperature	F	146	148	149	
16	WS Pressure Drop	in H2O	0.96	0.93	0.91	
17	WS pH		7.7	7.2	6.5	