	B	C
1	**Source Description**	
2		
3	Phase I ID No.	480
4	EPA ID No.	LAD053783445
5	Facility Name	CIBA-GEIGY CORPORATION
6	Facility Location	
7	City	ST. GABRIEL
8	State	LA
9	Unit ID Name/No.	MULTI-PURPOSE INCINERATOR
10	Other Sister Facilities	
11	Number of Sister Facilities	0
12	Combustor Class	Onsite incinerator
13	Combustor Type	Rotary kiln
14	Combustor Characteristics	Kiln: 12' diameter, 40' long, with afterburner
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS Detailed Acronym	QC/HS
18	APCS General Class	WQ, HEWS
19	APCS Characteristics	Quench, hydrosonic scrubber
20	Hazardous Wastes	Liq, sludge, solid
21	Haz Waste Description	
22	Supplemental Fuel	
23		
24	Stack Characteristics	
25	Diameter (ft)	4.0
26	Height (ft)	140.0
27	Gas Velocity (ft/sec)	18.9
28	Gas Temperature (°F)	185.9
29		
30	Permitting Status	
31	HWC Burn Status (Date if Terminated)	

	B	C
1	**Condition Description**	
2		
3	**480C1**	
4		
5	Report Name/Date	Source Emissions Survey of Ciba-Geigy Corporation, Multi Purpose Incinerator Stack, St. Gabriel, Louisiana, Prepared by METCO Environmental, File # 93-265, December 1993
6	Report Prepare	METCO Environmental
7	Testing Firm	METCO Environmental
8	Cond Descr	CONTAINER FEED
9	Testing Dates	December 10-13, 1993
10	Cond Dates	Dec-93
11		
12	**480C2**	
13		
14	Report Name/Date	Source Emissions Survey of Ciba-Geigy Corporation, Multi Purpose Incinerator Stack, St. Gabriel, Louisiana, Prepared by METCO Environmental, File # 93-265, December 1993
15	Report Prepare	METCO Environmental
16	Testing Firm	METCO Environmental
17	Cond Descr	?
18	Testing Dates	
19	Cond Dates	Dec-93
20		
21	**480C3**	
22		
23	Report Name/Date	Source Emissions Survey of Ciba-Geigy Corporation, Multi Purpose Incinerator Stack, St. Gabriel, Louisiana, Prepared by METCO Environmental, File # 93-265, December 1993
24	Report Prepare	METCO Environmental
25	Testing Firm	METCO Environmental
26	Cond Descr	CONTAINER AND BULK SOLIDS FEED
27	Testing Dates	December 14-16, 1993
28	Cond Dates	Dec-93

	B	C	D	E	F	G	H	I	J	K	L	M
1	**Stack Gas Emissions**											
2												
3												
4	**480C1**					R1		R2		R3		Cond Avg
5												
6	PM	E1	gr/dscf	y		0.0130		0.0144		0.0168		0.0147
7	CO (RA)	E1	ppmv	y	nd	0.5	nd	0.5	nd	0.5		0.5
8	HC (RA)	E1	ppmv	y		6.1		9.3		6.7		7.4
9	HCl	E1	ppmv	y		2.8		3.7		5.9		4.1
10	Cl2	E1	ppmv	y		0.1		0.1		0.1		0.1
11	Total Chlorine	E1	ppmv	y		3.0		3.9		6.1		4.4
12												
13	Carbon Tetrachloride	DRE	%			99.9997		99.9998		99.9998		
14	Chlorobenzene	DRE	%			99.9996		99.9999		99.9999		
15	Toluene	DRE	%			99.9988		99.9994		99.9992		
16												
17	Sampling Train	Particulate	E1									
18	Stack Gas Flowrate		dscfm			18717.0		17670.0		17178.0		
19	O2		%			9.0		7.5		7.0		
20	Moisture		%			52.0		55.6		55.5		
21	Temperature		°F			184.0		186.0		186.0		
22												
23	Sampling Train	Dioxin & Fu	E2									
24	Stack Gas Flowrate		dscfm			17294.0		15786.0		16250.0		
25	O2		%			9.0		7.5		7.0		
26	Moisture		%			53.9		55.7		55.3		
27	Temperature		°F			183.0		185.0		185.0		
28												
29	**480C2**					R1		R2		R3		Cond Avg
30												
31	PM	E1	gr/dscf	y		0.0057		0.0057		0.0058		0.0057
32	CO (RA)	E1	ppmv	y	nd	0.6	nd	0.6	nd	0.6		0.6
33	HC (RA)	E1	ppmv	y		6.6		6.8		9.0		7.5
34	HCl	E1	ppmv	y		1.0		1.7		1.6		1.4
35	Cl2	E1	ppmv	y		0.1		0.1		0.1		0.1
36	Total Chlorine	E1	ppmv	y		1.2		1.9		1.8		1.6
37												
38	Carbon Tetrachloride	E1	%			99.9999		99.9999		99.9997		
39	Chlorobenzene	E1	%			99.9999		99.9999		99.9999		
40	Toluene	E1	%			99.9993		99.9994		99.999		
41												
42	Sampling Train	Particulate	E1									
43	Stack Gas Flowrate		dscfm			18578.0		19063.0		19170.0		
44	O2		%			8.2		8.7		8.4		
45	Moisture		%			49.9		49.7		50.4		
46	Temperature		°F			185.0		184.0		183.0		
47												
48	**480C3**					R1		R2		R3		Cond Avg
49												
50	PM	E1	gr/dscf	y		0.0286		0.0294		0.0285		0.0288
51	CO (RA)	E1	ppmv	y		1.4		1.4		0.5		1.1
52	HC (RA)	E1	ppmv	y		4.2		4.2		4.2		4.2
53	HCl	E1	ppmv	y		2.8		2.2		2.5		2.5
54	Cl2	E1	ppmv	y		0.2		0.1		0.1		0.1
55	Total Chlorine	E1	ppmv	y		3.2		2.3		2.7		2.7
56	Antimony	E2	ug/dscm	y		207.2		198.0		136.2		180.5
57	Arsenic	E2	ug/dscm	y		1632.0		3142.6		3713.9		2829.5
58	Barium	E2	ug/dscm	y		10.1		11.3		7.3		9.6
59	Beryllium	E2	ug/dscm	y		11.5		7.3		17.0		11.9
60	Cadmium	E2	ug/dscm	y		4244.0		6311.0		6720.4		5758.5
61	Chromium	E2	ug/dscm	y		1062.1		1508.6		1711.1		1427.2
62	Chromium (Hex)	E3	ug/dscm	y		200.5		191.6		262.6		218.2
63	Lead	E2	ug/dscm	y		7684.9		11282.1		11053.3		10006.8
64	Mercury	E2	ug/dscm	y		41355.2		39502.4		26348.1		35735.2
65	Silver	E2	ug/dscm	y		2.2		2.0		2.0		2.1
66	Thallium	E2	ug/dscm	y	nd	0.1	nd	0.1	nd	0.1	100	0.1
67	SVM	E2	ug/dscm	y		11928.9		17593.1		17773.8		15765.3
68	LVM	E2	ug/dscm	y		2705.5		4658.5		5442.0		4268.7
69												
70	Sampling Train	Particulate	E1									
71	Stack Gas Flowrate		dscfm			16684.0		17092.0		17331.0		

	B	C	D	E	F	G	H	I	J	K	L	M
72	O2		%			6.0		6.1		6.4		
73	Moisture		%			55.8		55.1		54.5		
74	Temperature		°F			186.0		186.0		186.0		
75												
76	Sampling Train	Metals	E2									
77	Stack Gas Flowrate		dscfm			17466.0		18169.0		17921.0		
78	O2		%			6.0		6.2		6.4		
79	Moisture		%			55.5		54.6		54.2		
80	Temperature		°F			186.0		186.0		186.0		
81												
82	Sampling Train	Cr Hex	E3									
83	Stack Gas Flowrate		dscfm			16749.0		16475.0		16723.0		
84	O2		%			6.0		6.1		6.4		
85	Moisture		%			56.0		55.9		54.6		
86	Temperature		°F			186.0		186.0		185.0		
87												
88	Carbon Tetrachloride	DRE	%			99.9998		99.9999		99.9999		
89	Chlorobenzene	DRE	%			99.9998		99.9999		99.9999		
90	Toluene	DRE	%			99.999		99.9992		99.9987		

	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
1	**Feedstream 2**																														
2																															
3																															
4																															
5	**480C1**				R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg
6																															
7	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3		F3								
8	Feed Class				Solid HW		Solid HW		Solid HW		Solid HW		Solid HW		Solid HW		Total		Total		Total		Total								
9	Feed Class 2																Total		Total		Total		Total		HW		HW		HW		HW
10	Feedstream Description				Drums						Trash						Total		Total		Total		Total								
11	Feedrate		lb/hr		20.8		20.8		19.2																						
12	Heating value																														
13	Ash		lb/hr																				7440								
14	Chlorine		lb/hr														1115.0		1102.8		1024.9										
15																															
16	Stack Gas Flowrate		dscfm														18717		17670		17178		17855								
17	Oxygen		%														9		7.5		7		7.8								
18																															
19	Estimated Firing Rate		MMBtu/hr														71.30		75.73		76.35		74.63								
20																															
21	*Feedrate MTEC Calculations*																														
22	Ash		mg/dscm																				118463.2								118463.2
23	Chlorine		ug/dscm														18582876		17304728		15952407		17280003		18582876		17304728		15952407		17280003
24																															
25																															
26	**480C2**				R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg								
27																															
28	Feedstream Number																F1		F1		F1		F1								
29	Feed Class																Total		Total		Total		Total								
30	Feed Class 2																Total		Total		Total		Total								
31	Feedstream Description				Drums						Trash						Total		Total		Total		Total								
32	Ash		lb/hr																				280.5								
33	Chlorine		lb/hr														90.034		96.514		91.165										
34																															
35	Stack Gas Flowrate		dscfm														18578		19063		19170		18937								
36	Oxygen		%														8.2		8.7		8.4		8.4								
37																															
38	Estimated Firing Rate		MMBtu/hr														75.49		74.44		76.68		75.55								
39																															
40	*Feedrate MTEC Calculations*																														
41	Ash		mg/dscm																				4412.125								
42	Chlorine		ug/dscm														1417241.4		1540778.3		1412803.2		1456941								
43																															
44	**480C3**				R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg								
45																															
46	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3		F3								
47	Feed Class				Solid HW		Solid HW		Solid HW		Solid HW		Solid HW		Solid HW		Total		Total		Total		Total								
48	Feed Class 2																Total		Total		Total		Total								
49	Feedstream Description				Drums						Trash						Total		Total		Total		Total								
50	Feedrate		lb/hr (drum/hr		16.9		17		17.3		4333		4345		3260.5																
51	Heating value																														
52	Ash																						610.5								
53	Chlorine		lb/hr														123.667		87.605		81.742										
54	Arsenic		lb/hr														2.869		3.015		2.898										
55	Beryllium		lb/hr														0.105		0.109		0.104										
56	Cadmium		lb/hr														3.818		3.8		3.83										
57	Chromium		lb/hr														3.918		4.09		3.998										
58	Lead		lb/hr														9.137		9.049		8.995										
59	Mercury		lb/hr														4.518		4.132		4.144										
60	Chromium (Hex)		lb/hr														3.878		4.038		3.948										

	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
61																															
62	Stack Gas Flowrate		dscfm														16684		17092		17331		17036								
63	Oxygen		%														6		6.1		6.4		6.2								
64																															
65	Estimated Firing Rate		MMBtu/hr														79.45		80.85		80.33		80.22								
66																															
67	*Feedrate MTEC Calculations*																														
68	Ash		mg/dscm																				9043								
69	Chlorine		ug/dscm														1849731		1287644		1209247		1448874								
70	Arsenic		ug/dscm														42913		44315		42871		43366								
71	Beryllium		ug/dscm														1571		1602		1539		1570								
72	Cadmium		ug/dscm														57107		55854		56659		56540								
73	Chromium		ug/dscm														58603		60116		59144		59288								
74	Lead		ug/dscm														136665		133005		133067		134246								
75	Mercury		ug/dscm														67577		60733		61304		63205								
76	Chromium (Hex)		ug/dscm														58005		59352		58405		58587								
77																															
78	SVM		ug/dscm														193773		188858		189726		190786								
79	LVM		ug/dscm														103086		106034		103554		104225								

	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	**480C1**													
2					R1				R2				R3	
3	ng/dscm	I-TEF		Full	Total	TEQ		Full	Total	TEQ		Full	Total	TEQ
4		Wt Fact		ND	1/2 ND	1/2 ND		ND	1/2 ND	1/2 ND		ND	1/2 ND	1/2 ND
5	4D 2378	1	1	0.002	0.001	0.001	1	0.002	0.001	0.001	1	0.002	0.001	0.001
6	4D Other	0		0.025	0.025	0.000		0.024	0.024	0.000		0.023	0.023	0.000
7	4D Total	0		0.027	0.027	0.000		0.026	0.026	0.000		0.025	0.025	0.000
8	5D 12378	0.5	1	0.004	0.002	0.001	1	0.003	0.002	0.001	1	0.003	0.002	0.001
9	5D Other	0		0.015	0.015	0.000	1	0.010	0.005	0.000		0.029	0.029	0.000
10	5D Total	0		0.019	0.019	0.000	1	0.013	0.007	0.000		0.032	0.032	0.000
11	6D 123478	0.1	1	0.004	0.002	0.000	1	0.003	0.002	0.000	1	0.003	0.002	0.000
12	6D 123678	0.1	1	0.003	0.002	0.000	1	0.003	0.001	0.000	1	0.003	0.002	0.000
13	6D 123789	0.1	1	0.004	0.002	0.000	1	0.003	0.001	0.000	1	0.003	0.002	0.000
14	6D Other	0		0.004	0.004	0.000		0.000	0.000	0.000		0.022	0.022	0.000
15	6D Total	0		0.015	0.015	0.000	1	0.007	0.003	0.000		0.032	0.032	0.000
16	7D 1234678	0.01		0.012	0.012	0.000	1	0.003	0.002	0.000	1	0.006	0.003	0.000
17	7D Other	0		0.008	0.008	0.000		0.003	0.003	0.000		0.003	0.003	0.000
18	7D Total	0		0.019	0.019	0.000		0.007	0.007	0.000		0.010	0.010	0.000
19	8D	0.001		0.035	0.035	0.000		0.020	0.020	0.000		0.022	0.022	0.000
20	4F 2378	0.1		0.012	0.012	0.001	1	0.007	0.003	0.000		0.019	0.019	0.002
21	4F Other	0		0.323	0.323	0.000		0.352	0.352	0.000		0.459	0.459	0.000
22	4F Total	0		0.335	0.335	0.000		0.358	0.358	0.000		0.478	0.478	0.000
23	5F 12378	0.05		0.012	0.012	0.001		0.007	0.007	0.000		0.016	0.016	0.001
24	5F 23478	0.5		0.015	0.015	0.008	1	0.010	0.005	0.002		0.022	0.022	0.011
25	5F Other	0		0.081	0.081	0.000		0.088	0.088	0.000		0.191	0.191	0.000
26	5F Total	0		0.108	0.108	0.000		0.104	0.104	0.000		0.229	0.229	0.000
27	6F 123478	0.1		0.019	0.019	0.002		0.010	0.010	0.001		0.025	0.025	0.003
28	6F 123678	0.1		0.008	0.008	0.001	1	0.003	0.002	0.000		0.013	0.013	0.001
29	6F 123789	0.1	1	0.003	0.002	0.000	1	0.002	0.001	0.000	1	0.003	0.001	0.000
30	6F 234678	0.1		0.012	0.012	0.001		0.007	0.007	0.001		0.013	0.013	0.001
31	6F Other	0		0.028	0.028	0.000		0.011	0.011	0.000		0.048	0.048	0.000
32	6F Total	0		0.069	0.069	0.000		0.033	0.033	0.000		0.102	0.102	0.000
33	7F 1234678	0.01	1	0.015	0.008	0.000		0.007	0.007	0.000	1	0.013	0.006	0.000
34	7F 1234789	0.01	1	0.004	0.002	0.000	1	0.003	0.002	0.000	1	0.003	0.002	0.000
35	7F Other	0		0.008	0.008	0.000		0.000	0.000	0.000		0.000	0.000	0.000
36	7F Total	0	1	0.027	0.013	0.000		0.007	0.007	0.000		0.003	0.003	0.000
37	8F	0.001		0.019	0.019	0.000	1	0.007	0.003	0.000	1	0.006	0.003	0.000
38	Total PCDD/PCDF			0.674	0.660			0.580	0.567			0.940	0.936	
39	TEQ		30.3	0.019		0.016	83.5	0.012		0.007	21.7	0.024		0.022