	B	C
1	**Source Description**	
2		
3	Phase I ID No.	333
4	EPA ID No.	ILD098642424
5	Facility Name	TRADE WASTE INCINERATION
6	Facility Location	
7	City	SAUGET
8	State	IL
9	Unit ID Name/No.	UNIT NO. 4
10	Other Sister Facilities	3 other kilns?
11	Combustor Class	COMMERCIAL INCINERATOR
12	Combustor Type	Rotary kiln
13	Combustor Characteristics	Rotary kiln, afterburner, made by PYROX, kiln has 8' diameter, 35' long
14	Capacity (MMBtu/hr)	
15	Soot Blowing	
16	APCS	SD/FF
17	APCS Characteristics	Spray dryer, fabric filter
18	Hazardous Wastes	HW SLD/LIQ/SLUDGE
19	Haz Waste Description	
20	Supplemental Fuel	FUEL OIL
21		
22	Stack Characteristics	
23	Diameter (ft)	4.0
24	Height (ft)	101.0
25	Gas Velocity (ft/sec)	17.1
26	Gas Temperature (°F)	360.9
27		
28	Permitting Status	
29	HWC Burn Status (Date if Terminated)	

	B	C
1	**Condition Description**	
2		
3	**333C1**	
4		
5	Report Name/Date	Test Report for the RCRA Trial Burn on the TWI Unit 4 Incinerator, Trade Waste Incineration, Sauget, Illinois (ILD 098642424), Prepared by MRI, Project # 9730-M02, September 18, 1992
6	Report Prepare	MRI
7	Testing Firm	MRI
8	Cond Descr	NOMINAL SOLID FEED, NO LIQUID FEED
9	Test Dates	
10	Cond Date	09/18/92
11		
12	**333C2**	
13		
14	Report Name/Date	Test Report for the RCRA Trial Burn on the TWI Unit 4 Incinerator, Trade Waste Incineration, Sauget, Illinois (ILD 098642424), Prepared by MRI, Project # 9730-M02, September 18, 1992
15	Report Prepare	MRI
16	Testing Firm	MRI
17	Cond Descr	INCREASED SOLIDS AND CHLORINE FEEDS
18	Test Dates	
19	Cond Date	09/18/92

	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	**Stack Gas Emissions 2**													
2														
3	**333C1**					R1		R2		R3		R4		Cond Avg
4														
5	PM		gr/dscf	y		0.0046		0.0012		0.0004		0.0015		0.0019
6	CO		ppmv	y				7.4		7.4		8.9		
7	HCl		ppmv	y		52.3		32.7		58.6		49.3		
8	Cl2		ppmv	y		0.8		0.9		1.0		0.3		
9	Total Cl		ppmv	y		53.9		34.5		60.7		49.8		49.7
10														
11	Sampling Train	Halogens												
12	Moisture					42.1		41.5		41.6		41.7		
13	Oxygen					11.6		11.6		11.6		11.6		
14	Stack gas flowrate					15092.0		15088.0		15550.0		14898.0		
15	Temperature					367.0		367.0		361.0		364.0		
16														
17	Sampling Train	SVOC												
18	Moisture					41.8		42.8		41.4		41.7		
19	Oxygen					11.6		11.6		11.6		11.6		
20	Stack gas flowrate					15649.0		15880.0		16350.0		15610.0		
21	Temperature					365.0		366.0		359.0		362.0		
22														
23	Carbontetrachloride	DRE	%			99.99943		99.9996		99.99933		99.99967		
24	Hexachloroethane	DRE	%			99.99989		100		99.99998		100		
25	Trichlorobenzene	DRE	%			99.99998		99.99999		99.99999		100		
26														
27	**333C2**					R1		R2		R3		R4		Cond Avg
28														
29	PM		gr/dscf	y		0.0017		0.0027		0.0005		0.0008		0.0014
30	CO		ppmv	y		10.5				1.5		1.5		
31	HCl		ppmv	y		63.5		83.9		72.8		19.2		
32	Cl2		ppmv	y		0.4		0.3	nd	0.0		0.7		
33	Total Cl		ug/dscm	y		64.2		84.4		72.9		20.5		60.5
34														
35	Sampling Train	Halogens												
36	Moisture					42.1		42.1		41.6		41.8		
37	Oxygen					11.8		11.6		11.6		11.6		
38	Stack gas flowrate					15496.0		15554.0		15245.0		15664.0		
39	Temperature					363.0		354.0		366.0		362.0		
40														
41	Sampling Train	SVOC												
42	Moisture					42.2		41.5		41.1		41.9		
43	Oxygen					11.6		11.6		11.6		11.6		
44	Stack gas flowrate					15657.0		16109.0		16723.0		16423.0		
45	Temperature					361.0		354.0		365.0		362.0		
46														
47	Carbontetrachloride	DRE	%			99.99964		99.99972		99.9973		99.99973		
48	Hexachloroethane	DRE	%			99.99998		99.99989		100		100		
49	Monochlorobenzene	DRE	%			99.99959		99.99968		99.9975		99.99974		
50	Trichlorobenzene	DRE	%			99.99999		99.99999		100		100		

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	**Feedstream 2**																							
2																								
3																								
4	**333C1**				R1		R2		R3		R4	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4	R1
5																								
6	Feedstream				Aqueous							Organic liq				Lab packs				Containerized solids				Sludge
7	Feedrate		lb/hr		1463		2006		1600		1767					229	234	225	262	1728	1708	1680	1673	981
8	Heating value		Btu/lb		789		652		606		430									2597	976	1028	343	13981
9	Ash		wt %																					
10	Chlorine		ppmw		1800		1900		2200		1800									875	2350	1800	790	3070
11																								
12	Stack Gas Flowrate		dscfm		15092		15088		15550		14898									15092	15088	15550	14898	15092
13	Oxygen		%		11.6		11.6		11.6		11.6									11.6	11.6	11.6	11.6	11.6
14																								
15	Chlorine		ug/dscm		69484.57		100593.8		90142.71		85015.76									39895.448	105935.7	77440.78	35327.5	79465.6
16																								
17	**333C2**				R1		R2		R3		R4	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4	R1
18																								
19	Feedstream				Aqueous							Organic liq				Lab packs				Containerized solids				Sludge
20	Feedrate		lb/hr		1842		1300		1332		1501	971	960	948	1043	366	473	319	336	2433	2245	2433	2515	1115
21	Heating value		Btu/lb		385		409		324		441	13368	13570	14383	13049					45	30	37	54	9054
22	Ash		wt %																					
23	Chlorine		ppmw		2220		2390		2520		2850	7140	4830	4840	5450					80	50	30	40	1800
24																								
25	Stack Gas Flowrate		dscfm		15496		15554		15245		15664	15496	15554	15245	15664	15496	15554	15245	15664	15496	15554	15245	15664	15496
26	Oxygen		%		11.8		11.6		11.6		11.6	11.8	11.6	11.6	11.6	11.8	11.6	11.6	11.6	11.8	11.6	11.6	11.6	11.8
27																								
28	Chlorine		ug/dscm		107369.6		79545.85		87679.02		108753	182035.5	118712	119852	144510	0	0	0	0	5110.6	2873.8	1906.6	2557.5	52697.0

	B	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO
1	**Feedstream 2**																
2																	
3																	
4	**333C1**	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4	R1
5																	
6	Feedstream				Bulk solids				CCl4 spike				Trichlorobenzene				Hexachlorober
7	Feedrate	1194	1082	1190	8274	8151	8079	8037	60	56	59.8	60.5	201	209	175	196	169
8	Heating value	9856	11847	12368	369	369	369	369	432	432	432	432	6120	6120	6120	6120	828
9	Ash																
10	Chlorine	3060	1140	710	900	900	900	900	922000	922000	922000	922000	587000	587000	587000	587000	899000
11																	
12	Stack Gas Flowrate	15088	15550	14898	15092	15088	15550	14898	15092	15088	15550	14898	15092	15088	15550	14898	15092
13	Oxygen	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
14																	
15	Chlorine	96430.1	31587.9	22583.7	196485.1	193615.5	186203.6	193342.3	1459666.8	1362716.8	1411952.4	1490996.7	3113190.6	3237956.9	2630656.3	3075279.2	4008832.9
16																	
17	**333C2**	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4	R1
18																	
19	Feedstream				Bulk solids				CCl4 spike				Trichlorobenzene				Hexachlorober
20	Feedrate	1085	989	1038	12072	12176	11954	12282	74.9	76	75.8	75.3	311	270	270	291	246
21	Heating value	8735	8948	8949	911	911	595	508	432	432	432	432	6120	6120	6120	6120	828
22	Ash																
23	Chlorine	2180	2780	2100	1810	1840	2560	2190	922000	922000	922000	922000	587000	587000	587000	587000	899000
24																	
25	Stack Gas Flowrate	15554	15245	15664	15496	15554	15245	15664	15496	15554	15245	15664	15496	15554	15245	15664	15496
26	Oxygen	11.6	11.6	11.6	11.8	11.6	11.6	11.6	11.8	11.6	11.6	11.6	11.8	11.6	11.6	11.6	11.8
27																	
28	Chlorine	60556.7	71817.8	55415.6	573715.5	573586.2	799363.2	683799.7	1813224.2	1793993.1	1825538.7	1764987.2	4793329.2	4057683.0	4139928.0	4342569.4	5806755.9

	B	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA
1	**Feedstream 2**												
2													
3													
4	**333C1**	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4	Cond Avg
5													
6	Feedstream	ızene			Chlorobenzene				Total				
7	Feedrate	166	165	164									
8	Heating value	828	828	828									
9	Ash												
10	Chlorine	899000	899000	899000									
11													
12	Stack Gas Flowrate	15088	15550	14898									
13	Oxygen	11.6	11.6	11.6									
14													
15	Chlorine	3938714.1	3798670.2	3940886.4					7507786.1	7573084.2	6825584.5	7267851.2	7293576.5
16													
17	**333C2**	R2	R3	R4	R1	R2	R3	R4	R1	R2	R3	R4	Cond Avg
18													
19	Feedstream	ızene			Chlorobenzene				Total				
20	Feedrate	248	244	251	75.6	76	76.5	75.5					
21	Heating value	828	828	828	11880	11880	11880	11880					
22	Ash												
23	Chlorine	899000	899000	899000	316000	316000	316000	316000					
24													
25	Stack Gas Flowrate	15554	15245	15664	15496	15554	15245	15664					
26	Oxygen	11.6	11.6	11.6	11.8	11.6	11.6	11.6					
27													
28	Chlorine	5708048.1	5729812.9	5736527.6	627260.1	614861.0	631450.7	606526.4	12148273.4	11136321.0	11573676.7	11571905.7	11607544.2

	B	C	D	E	F	G	H
1		**Process Information 2**					
2							
3		**333C1**					
4							
5	33310	Kiln Temperature	F	1406	1409	1407	1384
6	33311	Afterburner Temperature	F	1871	1884	1883	1889
7							
8		**333C2**					
9							
10	33310	Kiln Temperature	F	1400	1400	1441	1444
11	33311	Afterburner Temperature	F	1888	1888	1886	1915