	B	C
1	**Source Description**	
2		
3	Phase I ID No.	824
4	EPA ID No.	NJD980753875
5	Facility Name	PENNWALT CORPORATION
6	Facility Location	
7	City	THOROFARE
8	State	NJ
9	Unit ID Name/No.	ISOTRON 142
10	Other Sister Facilities	None
11	Combustor Class	ONSITE INCINERATOR
12	Combustor Type	Liquid injection?
13	Combustor Characteristics	
14	Capacity (MMBtu/hr)	
15	Soot Blowing	
16	APCS	QT/VS/PT/DM
17	APCS Characteristics	Quench, venturi scrubber, packed tower, demister
18	Hazardous Wastes	HW LIQ/GAS
19	Haz Waste Description	
20	Supplemental Fuel	NATURAL GAS
21		
22	Stack Characteristics	
23	Diameter (ft)	0.7
24	Height (ft)	48.0
25	Gas Velocity (ft/sec)	15.8
26	Gas Temperature (°F)	67.6
27		
28	Permitting Status	
29	HWC Burn Status (Date if Terminated)	

	B	C
1	**Condition Description**	
2		
3	**824C1**	
4		
5	Report Name/Date	Trial Burn Test Report, Pennwalt Corporation, Isotron 142b Incinerator, Thorofare, New Jersey, June 1989, Volume 1 of 2, prepared by PEI Associates, Inc.
6	Report Prepare	PEI
7	Testing Firm	PEI
8	Cond Descr	DCFE Trial Burn
9	Test Dates	June 20-22, 1989
10	Cond Date	10/01/89

	B	C	D	E	F	G	H	I	J	K	L	M
1	**Stack Gas Emissions 1**											
2												
3												
4	**824C1**					R1		R2		R3		Cond Avg
5												
6	PM		gr/dscf	y		0.0056		0.0064		0.0068		0.0063
7	CO		ppmv	y		8.5		8.7		5.1		
8	HCl		ppmv	y		2.4		2.4		1.6		2.1
9	Arsenic		ug/dscm	y		23.4		18.7		19.4		
10	Barium		ug/dscm	y		12.2		13.0		10.3		
11	Beryllium		ug/dscm	y	nd	0.3	nd	0.3	nd	0.3		
12	Cadmium		ug/dscm	y		0.8		5.3		14.8		
13	Chromium		ug/dscm	y		54.8		60.5		91.9		
14	HF		ug/dscm	y	nd	0.2	nd	0.2	nd	0.2		
15	Lead		ug/dscm	y		48.4		8.5		49.8		
16	Mercury		ug/dscm	y		0.7		0.9		0.6		0.77
17	Nickel		ug/dscm	y		15.2		26.3		74.6		
18	Selenium		ug/dscm	y		4.9		0.3		0.4		
19	Silver		ug/dscm	y	nd	1.2		10.9		6.1		
20												
21	SVM		ug/dscm	y		49.1		13.9		64.6		42.5
22	LVM		ug/dscm	y		78.3		79.4		111.4		89.7
23												
24	Sampling Train	Halogens										
25	Moisture					2.1		1.8		2.2		
26	Oxygen		%			3.5		3.2		3.4		
27	Stack gas flowrate					1123.0		1073.0		1053.0		
28	Temperature					66.0		66.0		67.0		
29												
30	Sampling Train	Metals										
31	Moisture					1.5		1.7		1.5		
32	Oxygen					3.2		3.2		3.8		
33	Stack gas flowrate					1042.0		1093.0		1043.0		
34	Temperature					68.0		68.0		69.0		
35												
36	Sampling Train	Particulate										
37	Moisture					1.6		2.0		2.2		
38	Oxygen					3.5		3.0		3.2		
39	Stack gas flowrate					1097.0		1064.0		1028.0		
40	Temperature					67.0		68.0		69.0		
41												
42	1,1,1-dichloroflouroethane	DRE	%			99.992		99.994		99.994		

	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
1	**Feedstream 2**																												
2																													
3																													
4	**824C1**				R1		R2		R3		R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg
5																													
6	Feedstream				Gas						Liquid						Nat gas						Composite						
7	Feedrate	lb/hr			110		118		139		660		660		660		32.3		31.5		31.6								
8	Heating value	Btu/lb																											
9	Ash	wt %																											
10	Chlorine	ppmw			131000		180000		202000		4900		6000		4700														
11	Arsenic	ppmw			4.8		6.2		7.6		42		39		35														
12	Barium	ppmw			0.61		0.8		0.8		1.1		1.5		0.9														
13	Beryllium	ppmw		1	0.02	1	0.02	1	0.01	1	0.023	1	0.023	1	0.026														
14	Cadmium	ppmw		1	0.03	1	0.02	1	0.02		0.27	1	0.05	1	0.056														
15	Chromium	ppmw			0.15		0.09		0.08		21		23		32														
16	Fluorine	ppmw			313000		286000		270000		667000		616000		650000														
17	Lead	ppmw		1	0.47	1	0.41	1	0.33		2.8		3.3		1.9														
18	Mercury	ppmw			0.01	1	0.01	1	0.01		0.03		0.03		0.05														
19	Nickel	ppmw		1	0.28	1	0.25	1	0.02		54		58		87														
20	Selenium	ppmw		1	0.02	1	0.02	1	0.01	1	0.029	1	0.028	1	0.032														
21	Silver	ppmw			0.12		0.14		0.31		0.45		0.57		0.69														
22																													
23	Stack gas flow				1123		1073		1053		1123		1073		1053		1123		1073		1053								
24	Oxygen				3.5		3.2		3.4		3.5		3.2		3.4		3.5		3.2		3.4								
25																													
26	*Feedrate MTEC Calculations*																												
27	Chlorine	ug/dscm	y		2.7.E+06		4.2.E+06		5.7.E+06		6.2.E+05		7.8.E+05		6.3.E+05								3.4.E+06		4.9.E+06		6.3.E+06		4.9.E+06
28	Arsenic	ug/dscm	y		100.6		143.4		213.4		5279.9		5044.7		4665.7														
29	Barium	ug/dscm	y		12.8		18.5		22.5		138.3		194.0		120.0														
30	Beryllium	ug/dscm	y	1	0.4	1	0.5	1	0.3	1	2.9	1	3.0	1	3.5														
31	Cadmium	ug/dscm	y	1	0.6	1	0.5	1	0.6		33.9	1	6.5	1	7.5														
32	Chromium	ug/dscm	y		3.1		2.1		2.2		2639.9		2975.1		4265.8														
33	Fluorine	ug/dscm	y		6.6.E+06		6.6.E+06		7.6.E+06		8.4.E+07		8.0.E+07		8.7.E+07														
34	Lead	ug/dscm	y	1	9.85	1	9.48	1	9.26		351.99		426.86		253.28														
35	Mercury	ug/dscm	y		0.21	1	0.23	1	0.28		3.77		3.88		6.67								3.98		4.00		6.81		4.93
36	Nickel	ug/dscm	y	1	5.87	1	5.78	1	0.56		6788.38		7502.37		11597.61														
37	Selenium	ug/dscm	y	1	0.42	1	0.46	1	0.28	1	3.65	1	3.62	1	4.27														
38	Silver	ug/dscm	y		2.51		3.24		8.70		56.57		73.73		91.98														
39																													
40	SVM	ug/dscm	y		5.24		4.97		4.91		385.93		430.09		257.01								391		435		262		363
41	LVM	ug/dscm	y		104		146		216		7921		8021		8933								8025		8167		9149		8447

	C	D	E	F	G
1	**Process Information 2**				
2					
3	**824C1**				
4					
5	Combustion Temperature	F	2089	2094	2102
6	WS Temperature	F	89	88	90
7	WS Pressure Drop	in H2O	62	62	60