

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase II ID No.	3008
4	EPA ID No.	UT3213820894
5	Facility Name	Tooele Army Depot North
6	Facility Location	
7	City	Tooele
8	State	Utah
9	Unit ID Name/No.	APE 1236M1 DF
10	Other Sister Facilities	
11	Number of Sister Facilities	0
12	Combustor Class	Onsite incinerator, DoD munitions popping, government
13	Combustor Type	Rotary hearth
	Combustor Characteristics	Designed to ignite the ammunition items and effectively incinerate reactive components from the metal shells. Equipped with a Hauck 783 proportioning burner located at the discharge end. The burner has a turndown ratio of 4:1. Operated at 800-1100F and slight negative pressure.
14		
15	Capacity (MMBtu/hr)	3
16	Soot Blowing	
17	APCS Detailed Acronym	C/AB/FF
18	APCS General Class	C, FF
	APCS Characteristics	Cyclone has a 90-95% removal efficiency for particles 10 microns or larger. Afterburner is built by Southern Technology Inc, designed to raise the temperature of the exhaust gases from the kiln. High temperature cast ceramic filters barehouse which is built by JT Systems Inc.
19		
20		New APCS, old APCS (pre 2000 testing) used low temperature baghouse
21	Hazardous Wastes	Liq, solid
22	Haz Waste Description	Propellant, ammunitions.
23	Supplemental Fuel	Oil
24		
25	Stack Characteristics	
26	Diameter (ft)	1.67
27	Height (ft)	34
28	Gas Velocity (ft/sec)	51.0
29	Gas Temperature (°F)	500
30		
31	Permitting Status	Tier II for Sb, Ba, Cr and tier III for Pb
32	HWC Burn Status (Date if Terminated)	

	B	C
1	Condition Description	
2		
3	3008C1	
4		
5	Report Name/Date	Trial Burn Report. July 2000
6	Report Prepare	Tooele Army Depot
7	Testing Firm	
8	Testing Dates	July 12- 14, 2000
9	Cond Dates	Jul-00
10	Condition Descr	Trial burn, M9 propellant feed
11	Content	PM, CO, PCDD/F
12		
13	3008C2	
14		
15	Report Name/Date	Trial Burn Report. July 2000
16	Report Prepare	Tooele Army Depot
17	Testing Firm	
18	Testing Dates	July 19-21, 2000
19	Cond Dates	Jul-00
20	Condition Descr	Trial burn, M1 propellant/ HCB powder
21	Content	PM, CO, PCDD/F
22		
23	3008C3	
24		
25	Report Name/Date	Trial Burn Report. July 2000
26	Report Prepare	Tooele Army Depot
27	Testing Firm	
28	Testing Dates	July 24-26, 2000
29	Cond Dates	Jul-00
30	Condition Descr	Trial burn, 0.5 caliber M17 tracer/ Cr powder. Max oper cond.
31	Content	PM, CO, PCDD/F, HCl/Cl2, metals
32		
33	3008C4	
34		
35	Report Name/Date	Risk Burn Report. May 2001
36	Report Prepare	Tooele Army Depot
37	Testing Firm	
38	Testing Dates	May 8-10, 2001
39	Cond Dates	May-01
40	Condition Descr	Risk burn, "normal" operation risk burn
41	Content	PM, metals, PCDD/F
42		
43	3008C9	
44		
45	Report Name/Date	TEAD-N Incinerator Trial Burn Report, 6 December 1993, Air Pollution Emission Assessment No. 42-21-M665-93, RCRA Trial Burn for Deactivation Furnace, Tooele, Utah, 9-31 Autust 1993, Prepared by the U.S. Army Environmental Hygiene Agency
46	Report Prepare	
47	Testing Firm	
48	Testing Dates	August 11-12, 1993
49	Cond Dates	Aug-93
50	Condition Descr	TEST SERIES 1
51	Content	
52		
53	3008B1	
54		
55	Report Name/Date	TEAD-N Incinerator Trial Burn Report, 6 December 1993, Air Pollution Emission Assessment No. 42-21-M665-93, RCRA Trial Burn for Deactivation Furnace, Tooele, Utah, 9-31 Autust 1993, Prepared by the U.S. Army Environmental Hygiene Agency
56	Report Prepare	
57	Testing Firm	
58	Testing Dates	August 13-16, 1993
59	Cond Dates	Aug-93
60	Condition Descr	TEST SERIES 2
61	Content	
62		
63	3008B2	
64		

	B	C
65	Report Name/Date	TEAD-N Incinerator Trial Burn Report, 6 December 1993, Air Pollution Emission Assessment No. 42-21-M665-93, RCRA Trial Burn for Deactivation Furnace, Tooele, Utah, 9-31 Autust 1993, Prepared by the U.S. Army Environmental Hygiene Agency
66	Report Prepare	
67	Testing Firm	
68	Testing Dates	
69	Testing Dates	Aug 17-19, 1993
70	Cond Dates	Aug-93
71	Condition Descr	TEST SERIES 3
72	Content	
73		
74	3008B3	
75		
76	Report Name/Date	TEAD-N Incinerator Trial Burn Report, 6 December 1993, Air Pollution Emission Assessment No. 42-21-M665-93, RCRA Trial Burn for Deactivation Furnace, Tooele, Utah, 9-31 Autust 1993, Prepared by the U.S. Army Environmental Hygiene Agency
77	Report Prepare	
78	Testing Firm	
79	Testing Dates	Aug 20-25, 1993
80	Cond Dates	Aug-93
81	Condition Descr	
82	Content	
83		
84	3008B4	
85		
86	Report Name/Date	TEAD-N Incinerator Trial Burn Report, 6 December 1993, Air Pollution Emission Assessment No. 42-21-M665-93, RCRA Trial Burn for Deactivation Furnace, Tooele, Utah, 9-31 Autust 1993, Prepared by the U.S. Army Environmental Hygiene Agency
87	Report Prepare	
88	Testing Firm	
89	Testing Dates	Aug 26-27, 1993
90	Cond Dates	Aug-93
91	Condition Descr	TEST SERIES 5
92	Content	

	B	C	D	E	F	G	H	I	J	K	L	M
1	Stack Gas Emissions											
2												
3		Comments	Units	7% O2								
4												
5	3008C1	Trial Burn				R1		R2		R3		Cond Avg
6												
7	PM	E1	gr/dscf	y		0.003		0.005		0.004		0.0040
8	CO (RA)	E1	ppmv	y		30.75		18.83		24.25		24.61
9	CO (MHRA)	E1	ppmv	y		67.1		35.2		36.5		46.27
10	HC	E1	ppmv	y		2.62		0.68		1.27		1.52
11												
12	POHC DRE	Dinitroglycerin										
13	POHC Feedrate		lb/hr			42.21		42.77		41.34		
14	Emission Rate	E2	lb/hr			4.85E-05		4.66E-06		5.88E-06		
15	DRE	E2	%			99.9999		99.9999		99.9999		
16												
17	Sampling Train	PM	E1									
18	Stack Gas Flowrate		dscfm			2606.7		2878.3		2831.6		2772.2
19	O2		%			14.87		15		15		15.0
20	Moisture		%			4.85		4.52		5.17		4.8
21	Temperature		°F			483		504		502		496.3
22												
23	Sampling Train	DRE	E2									
24	Stack Gas Flowrate		dscfm			2628.5		2877.6		2826.4		2777
25	O2		%									
26	Moisture		%									
27	Temperature		°F									
28												
29	Sampling Train	PCDD/F	E3									
30	Stack Gas Flowrate		dscfm			2615.9		2894.8		2805.6		2772.1
31	O2		%			14.87		15		15		15
32	Moisture		%			4.77		4.2		5.05		5
33	Temperature		°F			477		505		506		496
34												
35	3008C2	Trial Burn				R1		R2		R3		Cond Avg
36												
37	PM	E1	gr/dscf	y		0.004		0.013		0.003		0.0067
38	CO (RA)	E1	ppmv	y		11.54		9.36		11.4		10.77
39	CO (MHRA)	E1	ppmv	y		15.1		13		15.1		14.40
40	HC	E1	ppmv	y		4.36		0.91		1.64		2.30
41												
42	POHC	HCB										
43	POHC Feedrate		lb/hr			3		3.05		3.05		
44	Emission Rate	E2	lb/hr			1.28E-06		4.07E-06		6.38E-06		
45	DRE	E2	%			99.9997		99.9989		99.9983		
46												
47	POHC	2,4-DNT										
48	POHC Feedrate		lb/hr			11.11		11.25		11.28		
49	Emission Rate	E2	lb/hr			5.02E-05		5.05E-06		5.14E-06		
50	DRE	E2	%			99.9995		99.9996		99.9996		
51												
52	Sampling Train	PM, HCl/Cl2	E1									
53	Stack Gas Flowrate		dscfm			2523.5		2467.1		2442.3		2477.6
54	O2		%			14.73		14.6		14.8		14.7
55	Moisture		%			5.75		5.52		5.44		5.6
56	Temperature		°F			508		503		488		499.7
57												
58	Sampling Train	DRE	E2									
59	Stack Gas Flowrate		dscfm			2502.3		2489.4		2480.8		2490.8
60	O2		%			14.73		14.6		14.8		14.7
61	Moisture		%			5.8		5.75		5.54		5.7
62	Temperature		°F			513		503		493		503.0
63												
64	Sampling Train	PCDD/F	E3									
65	Stack Gas Flowrate		dscfm			2492.7		2497.8		2451.0		2480.5
66	O2		%			14.73		14.6		14.8		14.7
67	Moisture		%			5.66		5.52		5.36		5.5
68	Temperature		°F			520		508		499		509.0
69												
70	3008C3	Trial Burn				R1		R2		R3		Cond Avg
71												

	B	C	D	E	F	G	H	I	J	K	L	M
72	PM	E1	gr/dscf	y		0.005		0.005		0.004		0.005
73	CO (RA)	E1	ppmv	y		29.64		32.91		34.11		32.22
74	CO (MHRA)	E1	ppmv	y		73.8		83.2		71.7		76.23
75	HC	E1	ppmv	y		1.96		2.4		0.41		1.59
76	HCl		lb/hr			0.008		0.014		0.01		
77	Cl2		lb/hr			0.175		0.154		0.161		
78												
79	Aluminum		g/hr			5.28E-02		5.74E-02		5.20E-02		
80	Antimony		g/hr			8.63E-02		1.13E-01		9.98E-02		
81	Arsenic		g/hr			9.40E-03		1.11E-02		8.06E-03		
82	Barium		g/hr			1.44E-01		1.97E-01		1.65E-01		
83	Beryllium		g/hr			4.96E-03		4.56E-03		4.61E-03		
84	Cadmium		g/hr			9.71E-03		7.38E-03		7.06E-03		
85	Chromium		g/hr			7.70E-03		6.31E-03		6.35E-03		
86	Copper		g/hr			3.53E-02		4.77E-02		4.06E-02		
87	Lead		g/hr			4.5		6.76		5.73		
88	Mercury		g/hr			6.48E-03		9.48E-03		1.33E-02		
89	Nickel		g/hr			6.88E-03		6.69E-03		6.35E-03		
90	Selenium		g/hr			9.91E-03		9.14E-03		9.21E-03		
91	Silver		g/hr			1.98E-03		1.83E-03		1.84E-03		
92	Thallium		g/hr			1.45E-03		1.93E-03		1.73E-03		
93	Zinc		g/hr			9.97E-02		1.04E-01		8.45E-02		
94												
95	Sampling Train	PM, HCl/Cl2	E1									
96	Stack Gas Flowrate		dscfm			2513.9		2538.4		2703.1		2585.13
97	O2		%			14.7		14.4		15		14.70
98	Moisture		%			5.48		5.67				5.58
99	Temperature		°F			522		515				518.50
100												
101	Sampling Train	Metals	E2									
102	Stack Gas Flowrate		dscfm			2434.8		2505.5		2634.3		2524.9
103	O2		%			14.7		14.4		15		14.7
104	Moisture		%			5.42		5.7				5.6
105	Temperature		°F			490		487				488.5
106												
107	Sampling Train	PCDD/F	E3									
108	Stack Gas Flowrate		dscfm			2487.5		2498.9		2493.2		2493.2
109	O2		%			14.7		14.4		15		14.7
110	Moisture		%			5.46		5.63				5.5
111	Temperature		°F			502		499				500.5
112												
113	HCl	E1	ppmv	y		1.3		2.1		1.5		1.63
114	Cl2	E1	ppmv	y		14.2		11.8		12.8		12.93
115	Total Chlorine	E1	ppmv	y		29.67		25.72		27.06		27.48
116												
117	Aluminum	E2	ug/dscm	y		28.4		28.6		27.1		28.04
118	Antimony	E2	ug/dscm	y		46.4		56.3		52.1		51.60
119	Arsenic	E2	ug/dscm	y		5.1		5.5		4.2		4.93
120	Barium	E2	ug/dscm	y		77.4		98.2		86.1		87.23
121	Beryllium	E2	ug/dscm	y		2.7		2.3		2.4		2.45
122	Cadmium	E2	ug/dscm	y		5.2		3.7		3.7		4.19
123	Chromium	E2	ug/dscm	y		4.1		3.1		3.3		3.53
124	Copper	E2	ug/dscm	y		19.0		23.8		21.2		21.31
125	Lead	E2	ug/dscm	y		2418.8		3370.6		2989.0		2926.11
126	Mercury	E2	ug/dscm	y		3.5		4.7		6.9		5.05
127	Nickel	E2	ug/dscm	y		3.7		3.3		3.3		3.45
128	Selenium	E2	ug/dscm	y		5.3		4.6		4.8		4.90
129	Silver	E2	ug/dscm	y		1.1		0.9		1.0		0.98
130	Thallium	E2	ug/dscm	y		0.8		1.0		0.9		0.88
131	Zinc	E2	ug/dscm	y		53.6		51.9		44.1		49.84
132												
133	SVM	E2	ug/dscm	y		2424.0		3374.2		2992.7		2930.30
134	LVM	E2	ug/dscm	y		11.9		11.0		9.9		10.91
135												
136	3008C4	Risk Burn				R1		R2		R3		Cond Avg
137												
138	PM	E1	gr/dscf	y		0.008		0.006		0.006		0.007
139	CO (RA)	E1	ppmv	y		15.5		10.6		5.1		10.40
140												
141	Aluminum		g/hr			2.97E-02		2.24E-02		2.07E-02		
142	Antimony		g/hr			2.79E-01		1.96E-01		2.27E-01		

	B	C	D	E	F	G	H	I	J	K	L	M
143	Arsenic		g/hr			1.63E+00		1.45E+00		1.41E+00		
144	Barium		g/hr			3.46E-01		2.38E-01		3.54E-01		
145	Beryllium		g/hr			3.14E-03		3.14E-03		3.12E-03		
146	Cadmium		g/hr			1.70E-02		9.50E-03		7.02E-03		
147	Chromium		g/hr			1.39E-03		1.40E-03		2.44E-03		
148	Copper		g/hr			4.17E-02		4.72E-02		4.93E-02		
149	Lead		g/hr			1.60E+01		1.12E+01		1.02E+01		
150	Nickel		g/hr			1.39E-03		1.40E-03		1.93E-03		
151	Selenium		g/hr			4.88E-03		4.89E-03		4.86E-03		
152	Silver		g/hr			1.67E-03		1.29E-03		1.91E-03		
153	Thallium		g/hr			1.25E-03		1.26E-03		1.25E-03		
154	Zinc		g/hr			1.12E-01		1.09E-01		1.21E-01		
155												
156	Sampling Train	PM, HCl/Cl2	E1									
157	Stack Gas Flowrate		dscfm			2768.3		2687.2		2687.8		2714.43
158	O2		%			15.2		14.67		14.8		14.89
159	Moisture		%			4.8		4.7		4.8		4.77
160	Temperature		°F			428		436		443		435.67
161												
162	Sampling Train	Metals	E2									
163	Stack Gas Flowrate		dscfm			2768.3		2687.2		2687.8		2714.4
164	O2		%			15.2		14.7		14.8		14.9
165	Moisture		%									
166	Temperature		°F			445		457		461		454.3
167												
168	Sampling Train	PCDD/F	E3									
169	Stack Gas Flowrate		dscfm			2796.6		2754.1		2704.8		2751.8
170	O2		%			15.2		14.67		14.8		14.9
171	Moisture		%			4.7		4.8		4.27		4.6
172	Temperature		°F			449		456		465		456.7
173												
174	Aluminum	E2	ug/dscm	y		15.3		10.9		10.2		12.13
175	Antimony	E2	ug/dscm	y		143.3		95.5		112.3		117.01
176	Arsenic	E2	ug/dscm	y		837.0		706.2		697.6		746.94
177	Barium	E2	ug/dscm	y		177.7		115.9		175.2		156.24
178	Beryllium	E2	ug/dscm	y		1.6		1.5		1.5		1.56
179	Cadmium	E2	ug/dscm	y		8.7		4.6		3.5		5.61
180	Chromium	E2	ug/dscm	y		0.7		0.7		1.2		0.87
181	Copper	E2	ug/dscm	y		21.4		23.0		24.4		22.93
182	Lead	E2	ug/dscm	y		8216.1		5454.6		5046.7		6239.15
183	Nickel	E2	ug/dscm	y		0.7		0.7		1.0		0.78
184	Selenium	E2	ug/dscm	y		2.5		2.4		2.4		2.43
185	Silver	E2	ug/dscm	y		0.9		0.6		0.9		0.81
186	Thallium	E2	ug/dscm	y		0.6		0.6		0.6		0.62
187	Zinc	E2	ug/dscm	y		57.5		53.1		59.9		56.82
188												
189	SVM	E2	ug/dscm	y		8224.8		5459.2		5050.2		6244.76
190	LVM	E2	ug/dscm	y		839.3		708.4		700.4		749.37

	B	C	D	E	F	G	H	I	J	K	L	M
1	Stack Gas Emissions 1											
2												
3												
4	3008C9					R1		R2		R3		Cond Avg
5												
6	PM	E1	gr/dscf	y		0.1668		0.1685		0.1433		0.16
7	CO	E1	ppmv	y		6.4		30.5		18.5		18.43
8	CO(MHRA)	E1	ug/dscm	y		8.8		37.4		36.8		27.69
9												
10												
11	3008B1					R1		R2		R3		Cond Avg
12												
13	PM	E1	gr/dscf	y		0.0310		0.0177		0.0210		0.0232
14	CO	E1	ppmv	y		37.9		60.8				49.4
15	CO(MHRA)	E1	ug/dscm	y		66.0		163.0				114.5
16	HCl	E1	ppmv	y		0.6		21.9		41.5		21.3
17	Cl2	E1	ppmv	y		0.6		21.8		41.4		21.3
18	Total Chlorine	E1	ppmv	y		1.8		65.6		124.3		63.9
19	Antimony	E1	ug/dscm	y		867.3		683.0		909.5		819.9
20	Arsenic	E1	ug/dscm	y		9.6		5.6		4.6		6.6
21	Barium	E1	ug/dscm	y		265.6		2217.5		2680.6		1721.2
22	Beryllium	E1	ug/dscm	y		0.3		0.3		0.3		0.3
23	Cadmium	E1	ug/dscm	y		6.8		4.3		7.3		6.1
24	Chromium	E1	ug/dscm	y		45.4		34.5		242.8		107.6
25	Lead	E1	ug/dscm	y		6849.3		6684.1		5095.8		6209.7
26	Mercury	E1	ug/dscm	y		1.1		0.0		0.1		0.4
27	Nickel	E1	ug/dscm	y		37.0		177.0		247.4		153.8
28	Selenium	E1	ug/dscm	y		0.9		1.0		0.8		0.9
29	Silver	E1	ug/dscm	y		1.0		0.5		0.6		0.7
30	Thallium	E1	ug/dscm	y		0.8		0.7		0.3		0.6
31	LVM	E1	ug/dscm	y		55.4		40.4		247.6		114.5
32	SVM	E1	ug/dscm	y		6856.1		6688.4		5103.1		6215.9
33												
34	3008B2					R1		R2		R3		Cond Avg
35												
36	PM	E1	gr/dscf	y		0.0153		0.0117		0.0350		0.0207
37	CO	E1	ppmv	y		82.0		40.4		10.4		44.3
38	CO(MHRA)	E1	ug/dscm	y		129.5		62.3		65.1		85.6
39	Antimony	E1	ug/dscm	y		581.2		5.4		2153.6		913.4
40	Arsenic	E1	ug/dscm	y		3.8		0.8		9.8		4.8
41	Barium	E1	ug/dscm	y		278.9		37.5		8619.9		2978.8
42	Beryllium	E1	ug/dscm	y		0.4		0.4		0.4		0.4
43	Cadmium	E1	ug/dscm	y		5.8		5.9		6.0		5.9
44	Chromium	E1	ug/dscm	y		162.1		104.1		443.3		236.5
45	Lead	E1	ug/dscm	y		2905.5		145.3		19262.7		7437.8
46	Mercury	E1	ug/dscm	y		0.1		0.0		0.0		0.0
47	Nickel	E1	ug/dscm	y		161.3		72.9		303.9		179.4
48	Selenium	E1	ug/dscm	y		1.0		0.8		1.1		0.9
49	Silver	E1	ug/dscm	y		0.6		0.4		1.1		0.7
50	Thallium	E1	ug/dscm	y		0.4		0.4		2.0		0.9
51	SVM	E1	ug/dscm	y		2911.2		151.2		19268.7		7443.7
52	LVM	E1	ug/dscm	y		166.3		105.3		453.4		241.7
53												
54												
55	3008B3					R1		R2		R3		Cond Avg
56												
57	PM	E1	gr/dscf	y				0.0494		0.0488		0.0491
58	CO	E1	ppmv	y		2.8		8.4		9.3		6.9
59	CO(MHRA)	E1	ug/dscm	y		4.1		44.4		12.0		20.2
60	Antimony	E1	ug/dscm	y				3800.7		4326.3		4063.5
61	Arsenic	E1	ug/dscm	y				11.0		12.9		12.0
62	Barium	E1	ug/dscm	y				5121.4		4634.2		4877.8
63	Beryllium	E1	ug/dscm	y				0.3		0.3		0.3
64	Cadmium	E1	ug/dscm	y				134.0		3.3		68.7
65	Chromium	E1	ug/dscm	y				110.1		110.3		110.2
66	Lead	E1	ug/dscm	y				16723.7		8056.1		12389.9
67	Mercury	E1	ug/dscm	y				0.0		0.4		0.2
68	Nickel	E1	ug/dscm	y				20.0		173.5		96.7
69	Selenium	E1	ug/dscm	y				0.9		0.6		0.8
70	Silver	E1	ug/dscm	y				1.0		1.0		1.0
71	Thallium	E1	ug/dscm	y				0.3		0.6		0.5

	B	C	D	E	F	G	H	I	J	K	L	M
72	SVM	E1	ug/dscm	y				16857.7		8059.5		12458.6
73	LVM	E1	ug/dscm	y				121.5		123.5		122.5
74												
75												
76	3008B4					R1		R2		R3		Cond Avg
77												
78	PM	E1	gr/dscf	y		0.0512		0.0221		0.0364		0.0365
79	CO	E1	ppmv	y		20.2		12.1		12.8		15.0
80	CO(MHRA)	E1	ug/dscm	y		147.5		12.4		28.8		62.9
81	Antimony	E1	ug/dscm	y		2575.3		985.1		1108.4		1556.3
82	Arsenic	E1	ug/dscm	y		12.3		7.0		7.6		9.0
83	Barium	E1	ug/dscm	y		4195.9		274.5		5077.1		3182.5
84	Beryllium	E1	ug/dscm	y		0.3		0.4		0.4		0.3
85	Cadmium	E1	ug/dscm	y		8.4		2.8		2.5		4.6
86	Chromium	E1	ug/dscm	y		132.2		46.3		198.4		125.6
87	Lead	E1	ug/dscm	y		8982.1		10675.6		20.9		6559.5
88	Mercury	E1	ug/dscm	y		0.1		0.0		0.0		0.0
89	Nickel	E1	ug/dscm	y		265.5		77.4		239.5		194.1
90	Selenium	E1	ug/dscm	y		0.6		0.7		0.9		0.8
91	Silver	E1	ug/dscm	y		1.4		0.9		0.9		1.1
92	Thallium	E1	ug/dscm	y		0.7		0.6		1.2		0.9
93	SVM	E1	ug/dscm	y		8990.5		10678.5		23.4		6564.1
94	LVM	E1	ug/dscm	y		144.8		53.6		206.4		134.9

US EPA ARCHIVE DOCUMENT

	B	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
1	Feedstream 2											
2												
3												
4	3008C1											
5	Feedstream Number											
6	Feed Class											
7	Feed Class 2											
8	Feedstream Description											
9	Feed Rate											
10	Thermal Feedrate											
11	Heating Value											
12	Density											
13	Ash											
14												
15												
16	Stack Gas Flowrate											
17	Oxygen											
18												
19	Thermal Feedrate											
20	Estimated Firing Rate											
21												
22	<i>Feedrate MTEC Calculat</i>											
23	Ash											
24												
25	3008C2											
26												
27	Feedstream Number											
28	Feed Class											
29	Feed Class 2											
30	Feedstream Description											
31	Feed Rate											
32	Thermal Feedrate											
33	Heating Value											
34	Density											
35												
36	Stack Gas Flowrate											
37	Oxygen											
38												
39	Thermal Feedrate											
40	Estimated Firing Rate											
41												
42	<i>Feedrate MTEC Calculat</i>											
43	Ash											
44												
45	3008C3											
46												
47	Feedstream Number											
48	Feed Class											
49	Feed Class 2											
50	Feedstream Description											
51	Feed Rate											
52	Feed Rate											
53	Heating Value											
54	Density											
55	Ash											
56	Chlorine											
57	Antimony											
58	Barium											
59	Chromium											
60	Lead											

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	M	X	Y	Z	AA	AB	AC	AD	AE	AF	AG				
61	Stack Gas Flowrate		dscfm																																	
62	Oxygen		%																																	
63	Thermal Feedrate		MMBtu/hr																																	
64	Estimated Firing Rate		MMBtu/hr																																	
65	<i>Feedrate MTEC Calculations</i>																																			
66	Ash		mg/dscm																																	
67	Chlorine		ug/dscm																																	
68	Antimony		ug/dscm																																	
69	Barium		ug/dscm																																	
70	Chromium		ug/dscm																																	
71	Lead		ug/dscm																																	
72	SVM		ug/dscm																																	
73	LVM		ug/dscm																																	
74																																				
75	3008C4		Risk burn																																	
76	Feedstream Number																																			
77	Feed Class																																			
78	Feed Class 2																																			
79	Feedstream Description																																			
80	Feed Rate		lb/hr																																	
81	Feed Rate		items/hr																																	
82	Heating Value		Btu/lb																																	
83	Density		kg/L																																	
84	Ash		lb/hr																																	
85	Chlorine		lb/hr																																	
86	Antimony		lb/hr																																	
87	Barium		lb/hr																																	
88	Chromium		lb/hr																																	
89	Lead		lb/hr																																	
90																																				
91	Stack Gas Flowrate		dscfm																																	
92	Oxygen		%																																	
93	Thermal Feedrate		MMBtu/hr																																	
94	Estimated Firing Rate		MMBtu/hr																																	
95	<i>Feedrate MTEC Calculations</i>																																			
96	Ash		mg/dscm																																	
97	Chlorine		ug/dscm																																	
98	Antimony		ug/dscm																																	
99	Barium		ug/dscm																																	
100	Lead		ug/dscm																																	
101	SVM		ug/dscm																																	
102																																				
103																																				
104																																				
105																																				
106																																				
107																																				

	B	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
61	Stack Gas Flowrate					2513.9	2538.4	2703.1				2585.1
62	Oxygen					14.7	14.4	15.0				14.7
63	Thermal Feedrate											
64	Estimated Firing Rate											
65	Feedrate MTEC Calculat											
66	Ash					10182.0	9781.7	10016.8				9979.6
67	Chlorine					798866.8	768595.4	787032.3				783750.8
68	Antimony					787049.2	732846.8	752412.1				749275.0
69	Barium					1392108.1	1338339.1	1370959.5				1365243.4
70	Chromium					2363.5	2234.3	2308.0				2298.4
71	Lead					36211354.3	34787880.5	35628792.1				35491731.5
72	SVM					36211354.3	34787880.5	35628792.1				35491731.5
73	LVM					2363.5	2234.3	2308.0				2298.4
74												
75	3008C4						R2	R3				Cond Avg
76	Feedstream Number						F5	F5				F5
77	Feed Class											
78	Feed Class 2											
79	Feedstream Description											
80	Feed Rate											
81	Feed Rate											
82	Heating Value											
83	Density											
84	Ash											
85	Chlorine											
86	Antimony											
87	Barium											
88	Chromium											
89	Lead											
90	Stack Gas Flowrate											
91	Oxygen											
92	Thermal Feedrate											
93	Estimated Firing Rate											
94	Feedrate MTEC Calculat											
95	Ash											
96	Chlorine											
97	Antimony											
98	Barium											
99	Chromium											
100	Lead											
101	SVM											

	B	C	D	E	F	G
1	Process Information					
2						
3	3008C1 Trial burn					
4						
5	Retort Speed	rpm		1.75	1.82	1.93
6	Afterburner Temperature	°F		1600.98	1602.6	1601.73
7	Baghouse Diff. Press.	in W.C		9.064	10.078	11.556
8	Bahouse Temperature	°F		666.7	687.69	680.1
9	Kiln Feed End Draft	in. H2O		0.32	0.283	0.282
10	Kiln Feed End Temperature	°F		517.15	463.44	467.42
11	Kiln Burner End Temperature	°F		1301.02	1285.45	1229.97
12				14.362	14.343	14.346
13	3008C2 Trial burn					
14						
15	Retort Speed	rpm		2.79	2.78	2.77
16	Afterburner Temperature	°F		1604.9	1606.78	1600.1
17	Baghouse Diff. Press.	in W.C		8.36	8.963	10.027
18	Bahouse Temperature	°F		690.93	671.8	660.32
19	Kiln Feed End Draft	in. H2O		0.297	0.295	0.3
20	Kiln Feed End Temperature	°F		591.2	621.98	630.23
21	Kiln Burner End Temperature	°F		1201.18	1212.92	1276.14
22						
23	3008C3 Trial burn					
24						
25	Retort Speed	rpm		1.65	1.61	1.58
26	Afterburner Temperature	°F		1712.8	1687.75	1649.57
27	Baghouse Diff. Press.	in W.C		14.40	14.529	14.29
28	Bahouse Temperature	°F		671.55	666.24	638.51
29	Kiln Feed End Draft	in. H2O		0.368	0.348	0.337
30	Kiln Feed End Temperature	°F		679.4	637.16	606.17
31	Kiln Burner End Temperature	°F		1409.81	1280.97	1261.33
32						
33	3008C4 Risk burn					
34						
35	Retort Speed	rpm		1.5	1.5	1.5
36	Afterburner Temperature	°F		1634.0	1632	1634
37	Baghouse Diff. Press.	in W.C		3.54	4.13	4.53
38	Bahouse Temperature	°F		792	806	818
39	Kiln Feed End Draft	in. H2O		-0.28	-0.29	-0.29
40	Kiln Feed End Temperature	°F		507.0	538	597
41	Kiln Burner End Temperature	°F		821	844	799

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	PCDD/PCDF																
2	Facility Name and ID:	Tooele Army Depot North															
3	Condition ID:	308C1															
4	Condition/Test Date:	Trial burn, M9 propellant feed															
5																	
6																	
7																	
8																	
9																	
10	Detected in sample volume (pg)																
11	2,3,7,8-TCDD	1															
12	1,2,3,7,8-PCDD	0.5															
13	1,2,3,4,7,8-HxCDD	0.1															
14	1,2,3,6,7,8-HxCDD	0.1															
15	1,2,3,7,8,9-HxCDD	0.1															
16	1,2,3,4,6,7,8-HpCDD	0.01															
17	OCDD	0.001															
18	2,3,7,8-TCDF	0.1	210	0.21	210.00	0.21	0.21	0.21	360	0.36	360	0.36	0.36	290	0	290	0
19	1,2,3,7,8-PCDF	0.05	13	1.30	13.00	1.30	1.30	1.30	12	1.20	12	1.20	1.20	10	1	10	1
20	2,3,4,7,8-PCDF	0.5															
21	1,2,3,4,7,8-HxCDF	0.1															
22	1,2,3,6,7,8-HxCDF	0.1															
23	2,3,4,6,7,8-HxCDF	0.1															
24	1,2,3,7,8,9-HxCDF	0.1															
25	1,2,3,4,6,7,8-HpCDF	0.01															
26	1,2,3,4,7,8,9-HpCDF	0.001															
27	OCDF	0															
28	Total TCDD	0	38	0	38	0	0	0	13	0.00	13	0.00	0.00	13	0	13	0
29	Total PCDD	0															
30	Total HxCDD	0															
31	Total HpCDD	0															
32	Total TCDF	0	146	0	146	0	0	0	187	0.00	187	0.00	0.00	44	0	44	0
33	Total PCDF	0															
34	Total HxCDF	0															
35	Total HpCDF	0															
36																	
37	Gas sample volume (dscf)		107.54	107.54	107.54	107.54	107.54	107.54	112.53	112.53	112.53	112.53	112.53	112.09	112.09	112.09	112.09
38	O2 (%)		14.87	14.87	14.87	14.87	14.87	14.87	15.0	15.0	15.0	15.0	15.0	15.00	15.00	15.00	15.00
39																	
40	PCDD/PCDF (ng in sample)		0.00	0.00	0.4	0.00	0.00	0.00	0.00	0.00	0.6	0.00	0.00	0.00	0.00	0.3	0.00
41	PCDD/PCDF (ng/dscm @ 7% O2)	0.0	0.0011	0.0011	0.30	0.0011	0.0011	0.0011	0.0011	0.0011	0.41	0.0011	0.0011	0.0009	0.0009	0.26	0.0009
42																	
43	TEQ Cond Avg	0.001															
44	Total Cond Avg	0.320															

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R																										
																		PCDD/PCDF		Run 1		Run 2		Run 3																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
Facility Name and ID:		Tooele Army Depot North																																									
Condition ID:		3008C2																																									
Condition/Test Date:		Trial burn, M1 propellant/ HCB powder																																									
I-TEF		Wight Fact																																									
Detected in sample volume (pg)		0																																									
2,3,7,8-TCDD		74		0		74		0		95		0.00		0.00		60		0		60		0		180		0		180		0		180		0									
Total TCDD		74		0		74		0		95		0.00		0.00		60		0		60		0		180		0		180		0		180		0									
1,2,3,7,8-PCDD		0.5		0		0.5		0		61		0.00		0.00		61		0.00		0.00		61		0.00		0.00		61		0.00		61		0.00									
Total PCDD		0.5		0		0.5		0		61		0.00		0.00		61		0.00		0.00		61		0.00		0.00		61		0.00		61		0.00									
1,2,3,4,7,8-HxCDD		0.1		0		0.1		0		200		0.00		0.00		200		0.00		0.00		200		0.00		0.00		200		0.00		200		0.00									
1,2,3,6,7,8-HxCDD		0.1		0		0.1		0		150		1.50		150.00		0.00		0.00		0.00		150		1.50		150.00		0.00		0.00		150		1.50									
1,2,3,7,8,9-HxCDD		0.1		0		0.1		0		300		0.00		300		0.00		0.00		0.00		300		0.00		0.00		300		0.00		300		0.00									
Total HxCDD		0		0		0		0		200		0.00		0.00		200		0.00		0.00		200		0.00		0.00		200		0.00		200		0.00									
1,2,3,4,6,7,8-HpCDD		0.01		0		0.01		0		150		0.59		0.59		0		0		0		150		0.59		0.59		0		0		150		0.59									
Total HpCDD		0.01		0		0.01		0		150		0.59		0.59		0		0		0		150		0.59		0.59		0		0		150		0.59									
OCDD		0.001		0		0.001		0		240		0.24		240.00		0.00		0.00		0.00		240		0.24		0.24		240		0.00		240		0.24									
2,3,7,8-TCDF		0.1		0		0.1		0		84.4		8.44		84.4		0.00		0.00		0.00		84.4		8.44		84.4		0.00		0.00		84.4		8.44									
Total TCDF		0		0		0		0		86		4.30		86		0.00		0.00		0.00		86		4.30		86		0.00		0.00		86		4.30									
1,2,3,7,8-PCDF		0.05		0		0.05		0		130		65.00		65.00		0.00		0.00		0.00		130		65.00		65.00		0.00		0.00		130		65.00									
2,3,4,7,8-PCDF		0.5		0		0.5		0		1400		0.00		1400		0.00		0.00		0.00		1400		0.00		0.00		1400		0.00		1400		0.00									
Total PCDF		0.5		0		0.5		0		1400		0.00		1400		0.00		0.00		0.00		1400		0.00		0.00		1400		0.00		1400		0.00									
1,2,3,4,7,8-HxCDF		0.1		0		0.1		0		140		14.00		140		0.00		0.00		0.00		140		14.00		140		0.00		0.00		140		14.00									
1,2,3,6,7,8-HxCDF		0.1		0		0.1		0		120		12.00		120		0.00		0.00		0.00		120		12.00		120		0.00		0.00		120		12.00									
2,3,4,6,7,8-HxCDF		0.1		0		0.1		0		110		11.00		110		0.00		0.00		0.00		110		11.00		110		0.00		0.00		110		11.00									
Total HxCDF		0		0		0		0		86		4.30		86		0.00		0.00		0.00		86		4.30		86		0.00		0.00		86		4.30									
1,2,3,7,8,9-HxCDF		0.1		0		0.1		0		1000		0.00		1000		0.00		0.00		0.00		1000		0.00		0.00		1000		0.00		1000		0.00									
Total HxCDF		0		0		0		0		1000		0.00		1000		0.00		0.00		0.00		1000		0.00		0.00		1000		0.00		1000		0.00									
1,2,3,4,6,7,8-HpCDF		0.01		0		0.01		0		530		5.30		530		0.00		0.00		0.00		530		5.30		530		0.00		0.00		530		5.30									
2,3,4,7,8,9-HpCDF		0.01		0		0.01		0		77		0.77		77		0.00		0.00		0.00		77		0.77		77		0.00		0.00		77		0.77									
Total HpCDF		0		0		0		0		860		0.00		860		0.00		0.00		0.00		860		0.00		860		0.00		860		0.00											
OCDF		0.001		0		0.001		0		310		0.31		310		0.00		0.00		0.00		310		0.31		310		0.00		0.00		310		0.31									
Gas sample volume (dscf)		104.82		14.73		104.82		14.73		104.82		14.73		104.82		14.73		104.82		14.73		104.82		14.73		104.82		14.73		104.82		14.73		104.82									
O2 (%)		0.03		0.0262		0.03		0.0262		0.03		0.0262		0.03		0.0262		0.03		0.0262		0.03		0.0262		0.03		0.0262		0.03		0.0262											
PCDD/PCDF (ng in sample)		1.4		1.07		1.4		1.07		1.4		1.07		1.4		1.07		1.4		1.07		1.4		1.07		1.4		1.07		1.4		1.07											
PCDD/PCDF (ng/dscm @ 7% O2)		0.0		0.0		0.0		0.0		0.0262		0.0262		0.0		0.0		0.0262		0.0262		0.0		0.0		0.0		0.0262		0.0262		0.0											
TEQ Cond Avg		0.1		0.11		0.1		0.11		0.12		0.12		0.1		0.11		0.12		0.12		0.1		0.11		0.12		0.11		0.12		0.11											
Total Cond Avg		3.5		4.30		3.5		4.30		5.04		5.04		3.5		4.30		5.04		5.04		3.5		4.30		5.04		3.5		4.30													

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	PCDD/PCDF																
2	N																
3	Facility Name and ID:	Tooele Army Depot North															
4	Condition ID:	3008C3															
5	Condition/Test Date:	Trial burn, 0.5 caliber M17 tracer/ Cr powder. Max oper cond.															
6																	
7																	
8																	
9																	
10	Detected in sample volume (pg)																
11	2,3,7,8-TCDD	1															
12	Total TCDD	0		120.00	0.00	120.00	0.00	0.00	10.00	0.00	10.00	0.00	0.00	69.00	0.00	69.00	0.00
13	1,2,3,7,8-PCDD	0.5		66.00	0.00	66.00	0.00	0.00						41.00	0.00	41.00	0.00
14	Total PCDD	0															
15	1,2,3,4,7,8-HxCDD	0.1		210.00	0.00	210.00	0.00	0.00						113.00	1.13	113.00	1.13
16	1,2,3,6,7,8-HxCDD	0.1		198.00	1.98	198.00	1.98	0.00	69.00	0.69	69.00	0.69	0.00	230.00	0.00	230.00	0.00
17	1,2,3,7,8,9-HxCDD	0.1		420.00	0.00	420.00	0.00	0.00	130.00	0.00	130.00	0.00	0.00	780.00	0.78	780.00	0.78
18	Total HxCDD	0		1600.00	1.60	1600.00	1.60	0.00	800.00	0.80	800.00	0.80	0.00	54.00	5.40	54.00	5.40
19	1,2,3,4,6,7,8-HpCDD	0.01		350.00	35.00	350.00	35.00	0.00	43.00	4.30	43.00	4.30	0.00	2300.00	0.00	2300.00	0.00
20	Total HpCDD	0		1600.00	0.00	1600.00	0.00	0.00	1000.00	0.00	1000.00	0.00	0.00	56.00	28.00	56.00	28.00
21	OCDD	0.001		60.00	30.00	60.00	30.00	0.00	160.00	0.00	160.00	0.00	0.00	220.00	0.00	220.00	0.00
22	2,3,7,8-TCDF	0.1		500.00	0.00	500.00	0.00	0.00									
23	Total TCDF	0		70.00	7.00	70.00	7.00	0.00									
24	1,2,3,7,8-PCDF	0.05															
25	2,3,4,7,8-PCDF	0.5		60.00	30.00	60.00	30.00	0.00	160.00	0.00	160.00	0.00	0.00	56.00	28.00	56.00	28.00
26	Total PCDF	0		70.00	7.00	70.00	7.00	0.00									
27	1,2,3,4,7,8-HxCDF	0.1															
28	1,2,3,6,7,8-HxCDF	0.1		170.00	0.00	170.00	0.00	0.00						52.00	0.00	52.00	0.00
29	2,3,4,6,7,8-HxCDF	0.1		130.00	1.30	130.00	1.30	0.00									
30	1,2,3,7,8,9-HxCDF	0.1															
31	Total HxCDF	0		170.00	0.00	170.00	0.00	0.00									
32	1,2,3,4,6,7,8-HpCDF	0.01		130.00	1.30	130.00	1.30	0.00									
33	1,2,3,4,7,8,9-HpCDF	0.01															
34	Total HpCDF	0		130.00	0.00	130.00	0.00	0.00									
35	OCDF	0.001															
36																	
37	Gas sample volume (dscf)			104.15	104.15	104.15	104.15	0.00	114.76	114.76	114.76	114.76	0.00	122.21	122.21	122.21	122.21
38	O2 (%)			14.70	14.70	14.70	14.70	0.00	14.4	14.4	14.4	14.4	0.00	15.00	15.00	15.00	15.00
39																	
40	PCDD/PCDF (ng in sample)			4.8	0.08	4.8	0.08	0.00	2.1	0.01	2.1	0.01	0.00	3.7	0.04	3.7	0.04
41	PCDD/PCDF (ng/dscm @ 7% O2)	0.0		3.63	0.0580	3.63	0.0580	0.0	1.37	0.0038	1.37	0.0038	0.0	2.49	0.0238	2.49	0.0238
42																	
43	TEQ Cond Avg	0.029															
44	Total Cond Avg	2.50															

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	PCDD/PCDF																
2	N																
3	Facility Name and ID:	Tooele Army Depot North															
4	Condition ID:	3008C4															
5	Condition/Test Date:	Risk burn, "normal" operation risk burn															
6																	
7																	
8		I-TEF															
9		Wght Fact															
10		Detected in sample volume (pg)															
11	2,3,7,8-TCDD	1	nd	6.37	6.37	3.19	3.19	nd	5.20	5.20	2.60	2.60	nd	4.20	4.20	2.10	2.10
12	Total TCDD	0		401.90	401.90	0.00	0.00		232.20	232.20	0.00	0.00		242.10	242.10	0.00	0.00
13	1,2,3,7,8-PCDD	0.5	nd	20.30	10.15	10.15	5.08	nd	5.10	5.10	5.10	5.10	nd	10.50	5.25	5.25	2.63
14	Total PCDD	0		344.10	344.10	0.00	0.00		194.05	194.05	0.00	0.00		232.70	0.00	232.70	0.00
15	1,2,3,4,7,8-HxCDD	0.1	nd	19.30	1.93	9.65	0.97	nd	10.80	1.08	5.40	5.40	nd	8.20	0.82	4.10	0.41
16	1,2,3,6,7,8-HxCDD	0.1	nd	50.40	5.04	25.20	2.52	nd	15.20	1.52	7.60	7.60	nd	16.90	1.69	8.45	0.85
17	1,2,3,7,8,9-HxCDD	0.1	nd	50.20	5.02	25.10	2.51	nd	27.00	2.70	13.50	13.50	nd	25.60	2.56	12.80	1.28
18	Total HxCDD	0		505.00	505.00	0.00	0.00		125.50	0.00	125.50	0.00		146.50	0.00	146.50	0.00
19	1,2,3,4,6,7,8-HpCDD	0.01		364.00	3.64	364.00	3.64		193.50	1.94	193.50	1.94		230.00	2.30	230.00	2.30
20	Total HpCDD	0		715.00	0.00	715.00	0.00		177.50	0.00	177.50	0.00		500.00	0.00	500.00	0.00
21	OCDD	0.001		1050.00	1.05	1050.00	1.05		420.00	0.42	420.00	0.42		2390.00	2.39	2390.00	2.39
22	2,3,7,8-TCDF	0.1		95.90	9.59	95.90	9.59		47.75	4.78	47.75	4.78		44.30	4.43	44.30	4.43
23	Total TCDF	0		2151.00	0.00	2151.00	0.00		1339.00	0.00	1339.00	0.00		1153.00	0.00	1153.00	0.00
24	1,2,3,7,8-PCDF	0.05		76.45	3.82	76.45	3.82		40.20	2.01	20.10	20.10		35.80	1.79	17.90	0.90
25	2,3,4,7,8-PCDF	0.5		143.20	71.60	143.20	71.60		66.10	33.05	66.10	33.05		47.40	23.70	23.70	11.85
26	Total PCDF	0		1311.50	1311.50	0.00	0.00		501.50	0.00	501.50	0.00		370.00	0.00	370.00	0.00
27	1,2,3,4,7,8-HxCDF	0.1		93.50	9.35	93.50	9.35		57.00	5.70	28.50	28.50		74.00	7.40	74.00	7.40
28	1,2,3,6,7,8-HxCDF	0.1		113.35	11.34	113.35	11.34		42.80	4.28	21.40	21.40		40.10	4.01	20.05	2.01
29	2,3,4,6,7,8-HxCDF	0.1		134.30	13.43	134.30	13.43		50.70	5.07	25.35	25.35		44.50	4.45	22.25	2.23
30	1,2,3,7,8,9-HxCDF	0.1	nd	14.70	1.47	7.35	0.74	nd	6.50	0.65	3.25	3.25		8.80	0.88	4.40	0.44
31	Total HxCDF	0		737.50	0.00	737.50	0.00		93.50	0.00	93.50	0.00		156.00	0.00	156.00	0.00
32	1,2,3,4,6,7,8-HpCDF	0.01		473.50	4.74	473.50	4.74		102.50	1.03	102.50	1.03		117.05	1.17	117.05	1.17
33	1,2,3,4,7,8,9-HpCDF	0.01		93.50	0.94	93.50	0.94		18.70	0.19	9.35	9.35		59.00	0.59	29.50	0.30
34	Total HpCDF	0		773.50	0.00	773.50	0.00		102.50	0.00	102.50	0.00		146.00	0.00	146.00	0.00
35	OCDF	0.001		489.50	0.49	489.50	0.49		59.00	0.06	29.50	29.50		108.00	0.11	54.00	0.05
36																	
37	Gas sample volume (dscf)			124.27	124.27	124.27	124.27		122.20	122.20	122.20	122.20		120.77	120.77	120.77	120.77
38	O2 (%)			15.20	15.20	15.20	15.20		14.7	14.7	14.7	14.7		14.80	14.80	14.80	14.80
39																	
40	PCDD/PCDF (ng in sample)			0.16	8.5	8.5	0.14		0.07	0.07	3.2	3.2		0.07	5.4	5.4	0.04
41	PCDD/PCDF (ng/dscm @ 7% O2)	18.7		0.1098	5.82	0.0995	44.9		0.0478	0.0478	2.06	0.0371	73.9	0.0448	3.56	3.56	0.0282
42																	
43	TEQ Cond Avg	0.055															
44	Total Cond Avg	3.8															