	B	C
1	**Source Description**	
2		
3	Phase II ID No.	740
4	EPA ID No.	TXD065096273
5	Facility Name	Rohm and Haas Texas, Incorporated
6	Facility Location	
7	City	Deer Park
8	State	TX
9	Unit ID Name/No.	HT-1 Thermal Oxidizer
10	Other Sister Facilities	None
11	Number of Sister Facilities	0
12	Combustor Class	Liquid-fired boiler
13	Combustor Type	Liquid-fired
14	Combustor Characteristics	Furnace with watertube boiler. John Zink watertube boiler; horizontally mounted circular furnace; 235 MMBtu/hr rated at 175,000 lb/hr steam @ 600 psi and 750 F
15	Capacity (MMBtu/hr)	335
16	APCS Detailed Acronym	None
17	APCS General Class	
18	APCS Characteristics	
19	Hazardous Wastes	Liq
20	Haz Waste Description	HT-2 EA light ends and HT & HT-2 acetic acid, each liquid wastes; propylene wastes; wastes are ignitable (D001) and/or corrositve (D002); also process gas
21	Supplemental Fuel	natural gas, process gas
22		
23	Stack Characteristics	
24	Diameter (ft)	9
25	Height (ft)	146.0
26	Gas Temperature (°F)	335
27	Velocity (ft/s)	4.4-44
28		
29	Permitting Status	Tier I for metals and chlorine
30	HWC Burn Status (Date if Terminated)	

	B	C
1	**Cond Description**	
2		
3	**740C10**	
4		
5	Report Name/Date	Source Emission Survey of Rohm & Haas Texas, Inc. HT-1 Thermal Oxidizer Stack (EPN HT-3), BIF Certification Test, No. 99-196A, July 1999
6	Report Prepar	METCO
7	Testing Firm	METCO
8	Testing Dates	July 16, 1999
9	Cond Dates	Jul-99
10	Cond. Description	CoC; max feedrate
11	Content	PM, CO emissions; metals, chlorine, and ash in feeds

	B	C	D	E	F	G	H	I	J	K	L	M
1	**Stack Gas Emissions**											
2												
3												
4		Comme	Units	7% O2								
5	**740C10**					R1		R2		R3		Cond Avg
6												
7	PM	E1	gr/dscf	y		0.0347		0.0337		0.0344		0.0343
8	CO (RA)	E1	ppmv	y		8.1		14.1		22.2		14.8
9	CO (MHRA)	E1	ppmv	y		10.6		17.1		26		17.9
10												
11	Sampling Train	PM	E1									
12	Stack Gas Flowrate		dscfm			47444		49949		47802		48398
13	O2		%			7.2		7.1		7.2		7.2
14	Moisture		%			15.2		14.8		13.5		14.5
15	Temperature		°F			333		335		336		334.7

	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
1	**Feedstreams**																										
2																											
3																											
4	**740C10**				R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg
5																											
6	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2		F3		F3		F3		F3
7	Feed Class				Liq HW		Li q HW		Li q HW		Li q HW		Spike		Spike		Spike		Spike		Total		Total		Total		Total
8	Feed Class 2				HW		HW		HW		HW		Spike		Spike		Spike		Spike		Total		Total		Total		Total
9	Feedstream Description				Liq haz waste		Liq haz waste		Liq haz waste		Liq haz waste		Spike		Spike		Spike		Spike		Total		Total		Total		Total
10	Feed Rate		lb/hr		4185		4185		4185		4189		60		62		63		62								
11	Heating Value		Btu/lb		5460		5080		5360		5300																
12	Ash		g/hr		380.117		380.099		190.054		317		10746		11095		11240		11027								
13	Chlorine		g/hr		241.374		317.382		319.29		292.7																
14	Mercury		g/hr		0.19		0.19		0.19		0.190																
15	Lead		g/hr	nd	0.95	nd	0.95	nd	0.95		1.0																
16	Cadmium		g/hr	nd	0.475	nd	0.475	nd	0.475		0.5																
17	Arsenic		g/hr	nd	9.503	nd	9.503	nd	9.503		9.5																
18	Beryllium		g/hr	nd	0.095	nd	0.095	nd	0.095		0.1																
19	Chromium		g/hr	nd	0.475	nd	0.475	nd	0.475		0.5																
20	Antimony		g/hr	nd	1.901	nd	1.901	nd	1.901		1.9																
21																											
22	Stack Gas Flowrate		dscfm		47444		49949		47802		48398.3		47444		49949		47802		48398.3								
23	O2		%		7		7		7		7.2		7		7		7		7.2								
24																											
25	Thermal Feedrate		MMBtu/hr		22.9		21.3		22.4		22.2										22.9		21.3		22.4		22.2
26	Estimated Firing Rate		MMBtu/hr																								212.5
27																											
28	*Feedrate MTEC Calculations*																										
29	Ash		mg/dscm		5		5		2		3.9		135		132		140		136		140		136		143		140
30	Chlorine		µg/dscm		3040		3769		3991		3600										3040		3769		3991		3600
31	Mercury		µg/dscm		2		2		2		2.3										2		2		2		2.3
32	Lead		µg/dscm	100	12	100	11	100	12	100	11.7									100	12	100	11	100	12	100	11.7
33	Cadmium		µg/dscm	100	6	100	6	100	6	100	5.9									100	6	100	6	100	6	100	5.9
34	Arsenic		µg/dscm	100	120	100	113	100	119	100	117.1									100	120	100	113	100	119	100	117.1
35	Beryllium		µg/dscm	100	1	100	1	100	1	100	1.2									100	1	100	1	100	1	100	1.2
36	Chromium		µg/dscm	100	6	100	6	100	6	100	5.9									100	6	100	6	100	6	100	5.9
37	Antimony		µg/dscm	100	24	100	23	100	24	100	23.4									100	24	100	23	100	24	100	23.4
38																											
39	SVM		µg/dscm	100	17.9	100	16.9	100	17.8	100	17.6									100	18	100	17	100	18	100	17.6
40	LVM		µg/dscm	100	126.8	100	119.6	100	125.9	100	124.1									100	127	100	120	100	126	100	124.1
41																											
42																											
43	**BIF Feedrate Limits**																										
44																											
45	Antimony		g/hr								2200																
46	Arsenic		g/hr								12.33																
47	Barium		g/hr								360000																
48	Beryllium		g/hr								0.51																
49	Cadmium		g/hr								0.96																
50	Chromium		g/hr								1.4																
51	Lead		g/hr								640																
52	Mercury		g/hr								2200																
53	Silver		g/hr								22000																
54	Thallium		g/hr								2200																
55	Chlorine		g/hr								2900																

	A	B	C
1	**Process Information**		
2			
3		Units	Cond Avg
4			
5	**740C10**		
6			
7	Combustion Chamber Temp	°F	Confidential