

THE UNIVERSITY OF MICHIGAN, ANN ARBOR - 1998 AIR EMISSIONS INVENTORY

BOILERS - Central Power Plant AND Satellite Locations

AQD ID	Building#	Building	PM		SO2		NOx		CO		VOC		Capacity MMBtu/Hr	Fuel Type	1998 Fuel Usage
			E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions			
001	260	Central Power Plant	7.60	3.29	0.60	0.26	217.56	94.31	2.14	0.93	5.50	2.38	225.8	Natural Gas	867.02
		# 3 Boiler	3.30	0.00	6.28	0.00	20.00	0.00	5.00	0.00	0.20	0.00		#2 Fuel Oil	0.01
			12.41	0.00	157.00	0.00	55.00	0.00	5.00	0.00	0.28	0.00		#6 Fuel Oil	
002	260	Central Power Plant	7.60	3.16	0.60	0.25	217.56	90.43	2.14	0.89	5.50	2.29	225.8	Natural Gas	831.28
		# 4 Boiler	3.30	0.00	6.28	0.00	20.00	0.01	5.00	0.00	0.20	0.00		#2 Fuel Oil	1.15
			12.41	0.00	157.00	0.00	55.00	0.00	5.00	0.00	0.28	0.00		#6 Fuel Oil	
003	260	Central Power Plant	7.60	0.58	0.60	0.05	155.40	11.93	2.53	0.19	5.50	0.42	122.8	Natural Gas	153.59
		# 5 Boiler	3.30	0.00	6.28	0.00	20.00	0.00	5.00	0.00	0.20	0.00		#2 Fuel Oil	0.00
			12.41	0.00	157.00	0.00	55.00	0.00	5.00	0.00	0.28	0.00		#6 Fuel Oil	
004	260	Central Power Plant	7.60	0.00	0.60	0.00	550.00	0.00	40.00	0.00	5.50	0.00	153.6	Natural Gas	0.00
		# 6 Boiler	3.30	0.00	6.28	0.00	20.00	0.00	5.00	0.00	0.20	0.00		#2 Fuel Oil	0.00
			12.41	0.00	157.00	0.00	55.00	0.00	5.00	0.00	0.28	0.00		#6 Fuel Oil	
006	260	Central Power Plant	7.60	0.63	0.60	0.05	145.04	12.10	10.36	0.86	5.50	0.46	149.2	Natural Gas	166.84
		# 1 Boiler	3.30	0.00	6.28	0.00	20.00	0.00	5.00	0.00	0.20	0.00		#2 Fuel Oil	0.00
			12.41	0.00	157.00	0.00	55.00	0.00	5.00	0.00	0.28	0.00		#6 Fuel Oil	
007	260	Central Power Plant	7.60	0.96	0.60	0.08	145.04	18.26	10.36	1.30	5.50	0.69	149.2	Natural Gas	251.76
		# 2 Boiler	3.30	0.52	6.28	0.98	20.00	3.13	5.00	0.78	0.20	0.03		#2 Fuel Oil	313.46
			12.41	0.00	157.00	0.00	55.00	0.00	5.00	0.00	0.28	0.00		#6 Fuel Oil	
008	260	Central Power Plant	7.60	1.04	0.60	0.08	31.08	4.25	20.72	2.83	5.50	0.75	65.0	Natural Gas	273.65
		# 7 Boiler												#2 Fuel Oil	N/A
009	260	Central Power Plant	7.60	1.02	0.60	0.08	31.08	4.17	20.72	2.78	5.50	0.74	65.0	Natural Gas	268.61
		# 8 Boiler												#2 Fuel Oil	N/A
010	260	Central Power Plant	7.60	1.34	0.60	0.11	31.08	5.48	20.72	3.65	5.50	0.97	57.0	Natural Gas	352.51
		Turbine # 9	5.00	0.00	140.00	0.00	67.80	0.00	15.40	0.00	4.77	0.00		#2 Fuel Oil	0.03
011	260	Central Power Plant	7.60	1.18	0.60	0.09	31.08	4.81	20.72	3.21	5.50	0.85	57.0	Natural Gas	309.47
		Turbine # 10	5.00	0.00	140.00	0.00	67.80	0.00	15.40	0.00	4.77	0.00		#2 Fuel Oil	0.01
105	890	Perry Bldg-1	7.6	0.011	0.6	0.001	100.0	0.140	84.0	0.118	5.5	0.008	4.1	Natural Gas	2.80
														#2 Fuel Oil	N/A
106	890	Perry Bldg-2	7.6	0.011	0.6	0.001	100.0	0.140	84.0	0.118	5.5	0.008	4.1	Natural Gas	2.80
														#2 Fuel Oil	N/A
107	400	Lay Auto Lab-1	7.6	0.089	0.6	0.007	100.0	1.167	84.0	0.980	5.5	0.064	20.9	Natural Gas	23.34
														#2 Fuel Oil	N/A
108	400	Lay Auto Lab-2	7.6	0.089	0.6	0.007	100.0	1.167	84.0	0.980	5.5	0.064	20.9	Natural Gas	23.34
														#2 Fuel Oil	N/A
109	435	Institute for Science&Tech-1	7.6	0.058	0.6	0.005	100.0	0.760	84.0	0.638	5.5	0.042	8.3	Natural Gas	15.19
														#2 Fuel Oil	N/A
110	435	Institute for Science&Tech-2	7.6	0.058	0.6	0.005	100.0	0.760	84.0	0.638	5.5	0.042	8.3	Natural Gas	15.19
														#2 Fuel Oil	N/A

AQD ID	Building#	Building	PM		SO2		NOx		CO		VOC		Capacity MMBtu/Hr	Fuel Type	1998 Fuel Usage
			E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions			
111	435	Institute for Science&Tech-3	7.6	0.058	0.6	0.005	100.0	0.760	84.0	0.638	5.5	0.042	8.3	Natural Gas	15.19
														#2 Fuel Oil	N/A
112	402	Center for DTM	7.6	0.013	0.6	0.001	100.0	0.166	84.0	0.139	5.5	0.009	2.1	Natural Gas	3.31
														#2 Fuel Oil	N/A
113	406	Advance Tech Labs-1	7.6	0.005	0.6	0.000	100.0	0.070	84.0	0.058	5.5	0.004	2.1	Natural Gas	1.39
														#2 Fuel Oil	N/A
114	406	Advance Tech Labs-2	7.6	0.005	0.6	0.000	100.0	0.070	84.0	0.058	5.5	0.004	2.1	Natural Gas	1.39
														#2 Fuel Oil	N/A
115	409	Fire Svc I&R Ctr	7.6	0.006	0.6	0.000	100.0	0.078	84.0	0.066	5.5	0.004	3.0	Natural Gas	1.56
														#2 Fuel Oil	N/A
116	444	UMTRI-1	7.6	0.016	0.6	0.001	100.0	0.213	84.0	0.179	5.5	0.012	6.0	Natural Gas	4.26
														#2 Fuel Oil	N/A
117	444	UMTRI-2	7.6	0.016	0.6	0.001	100.0	0.213	84.0	0.179	5.5	0.012	6.0	Natural Gas	4.26
														#2 Fuel Oil	N/A
118	407	G.G. Brown-1	7.6	0.032	0.6	0.003	100.0	0.427	84.0	0.359	5.5	0.024	8.3	Natural Gas	8.55
														#2 Fuel Oil	N/A
119	407	G.G. Brown-2	7.6	0.032	0.6	0.003	100.0	0.427	84.0	0.359	5.5	0.024	8.3	Natural Gas	8.55
														#2 Fuel Oil	N/A
120	407	G.G. Brown-3	7.6	0.031	0.6	0.002	100.0	0.412	84.0	0.346	5.5	0.023	8.0	Natural Gas	8.24
														#2 Fuel Oil	N/A
121	407	G.G. Brown-4	7.6	0.049	0.6	0.004	100.0	0.644	84.0	0.541	5.5	0.035	12.5	Natural Gas	12.87
														#2 Fuel Oil	N/A
122	407	G.G. Brown-5	7.6	0.049	0.6	0.004	100.0	0.644	84.0	0.541	5.5	0.035	12.5	Natural Gas	12.87
														#2 Fuel Oil	N/A
123	441	Space Research Lab-1	7.6	0.026	0.6	0.002	100.0	0.337	84.0	0.283	5.5	0.019	8.3	Natural Gas	6.74
														#2 Fuel Oil	N/A
124	441	Space Research Lab-2	7.6	0.019	0.6	0.002	100.0	0.252	84.0	0.211	5.5	0.014	6.2	Natural Gas	5.03
														#2 Fuel Oil	N/A
125	415	Naval Arch & Marine Engg	7.6	0.037	0.6	0.003	100.0	0.488	84.0	0.410	5.5	0.027	2.0	Natural Gas	9.76
														#2 Fuel Oil	N/A
126	443	Chrysler Center-1	7.6	0.008	0.6	0.001	100.0	0.102	84.0	0.086	5.5	0.006	2.0	Natural Gas	2.04
														#2 Fuel Oil	N/A
127	443	Chrysler Center-2	7.6	0.008	0.6	0.001	100.0	0.102	84.0	0.086	5.5	0.006	2.0	Natural Gas	2.04
														#2 Fuel Oil	N/A
128	443	Chrysler Center-3	7.6	0.002	0.6	0.000	100.0	0.031	84.0	0.026	5.5	0.002	0.6	Natural Gas	0.61
														#2 Fuel Oil	N/A
129	403	Cooley M. E. Lab. 1	7.6	0.021	0.6	0.002	100.0	0.283	84.0	0.238	5.5	0.016	5.4	Natural Gas	5.66
														#2 Fuel Oil	N/A
130	403	Cooley M. E. Lab. 2	7.6	0.033	0.6	0.003	100.0	0.429	84.0	0.361	5.5	0.024	8.2	Natural Gas	8.59
														#2 Fuel Oil	N/A

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			E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions			
131	403	Cooley M. E. Lab-3	7.6	0.033	0.6	0.003	100.0	0.429	84.0	0.361	5.5	0.024	8.2	Natural Gas	8.59
															#2 Fuel Oil
132	440	School of Music-1	7.6	0.024	0.6	0.002	100.0	0.318	84.0	0.267	5.5	0.017	8.3	Natural Gas	6.35
															#2 Fuel Oil
133	440	School of Music-2	7.6	0.024	0.6	0.002	100.0	0.318	84.0	0.267	5.5	0.017	8.3	Natural Gas	6.35
															#2 Fuel Oil
134	442	Pierpont Commons-1	7.6	0.023	0.6	0.002	100.0	0.309	84.0	0.259	5.5	0.017	8.4	Natural Gas	6.18
															#2 Fuel Oil
135	442	Pierpont Commons-2	7.6	0.023	0.6	0.002	100.0	0.309	84.0	0.259	5.5	0.017	8.4	Natural Gas	6.18
															#2 Fuel Oil
136	800	Hoover Plant-1	7.6	0.034	0.6	0.003	100.0	0.449	84.0	0.377	5.5	0.025	13.0	Natural Gas	8.97
			2.0	0.000	42.6	0.000	20.0	0.000	5.0	0.000	0.2	0.000		#2 Fuel Oil	0.00
137	800	Hoover Plant-2	7.6	0.034	0.6	0.003	100.0	0.449	84.0	0.377	5.5	0.025	13.0	Natural Gas	8.97
			2.0	0.000	42.6	0.000	20.0	0.000	5.0	0.000	0.2	0.000		#2 Fuel Oil	0.00
138	800	Hoover Plant-3	7.6	0.142	0.6	0.011	100.0	1.864	84.0	1.566	5.5	0.103	54.0	Natural Gas	37.28
			2.0	0.000	42.6	0.000	20.0	0.000	5.0	0.000	0.2	0.000		#2 Fuel Oil	0.00
139	800	Hoover Plant-4	7.6	0.168	0.6	0.013	100.0	2.209	84.0	1.856	5.5	0.122	64.0	Natural Gas	44.18
			2.0	0.000	42.6	0.000	20.0	0.000	5.0	0.000	0.2	0.000		#2 Fuel Oil	0.00
140	432	Art and Architecture-1	7.6	0.041	0.6	0.003	100.0	0.543	84.0	0.456	5.5	0.030	9.0	Natural Gas	10.85
															#2 Fuel Oil
141	432	Art and Architecture-2	7.6	0.041	0.6	0.003	100.0	0.543	84.0	0.456	5.5	0.030	9.0	Natural Gas	10.85
															#2 Fuel Oil
142	432	Art and Architecture-3	7.6	0.041	0.6	0.003	100.0	0.543	84.0	0.456	5.5	0.030	9.0	Natural Gas	10.85
															#2 Fuel Oil
143	439	Bentley Hist Library-1	7.6	0.011	0.6	0.001	100.0	0.144	84.0	0.121	5.5	0.008	2.1	Natural Gas	2.87
															#2 Fuel Oil
144	439	Bentley Hist Library-2	7.6	0.005	0.6	0.000	100.0	0.068	84.0	0.057	5.5	0.004	1.0	Natural Gas	1.37
															#2 Fuel Oil
145	332	North Ingalls-1	7.6	0.068	0.6	0.005	100.0	0.889	84.0	0.747	5.5	0.049	15.0	Natural Gas	17.79
															#2 Fuel Oil
146	332	North Ingalls-2	7.6	0.068	0.6	0.005	100.0	0.889	84.0	0.747	5.5	0.049	15.0	Natural Gas	17.79
															#2 Fuel Oil
147	332	North Ingalls-3	7.6	0.068	0.6	0.005	100.0	0.889	84.0	0.747	5.5	0.049	15.0	Natural Gas	17.79
															#2 Fuel Oil
148	427	North Campus Recreation-1	7.6	0.043	0.6	0.003	100.0	0.563	84.0	0.473	5.5	0.031	10.0	Natural Gas	11.26
															#2 Fuel Oil
149	427	North Campus Recreation-2	7.6	0.004	0.6	0.000	100.0	0.056	84.0	0.047	5.5	0.003	1.0	Natural Gas	1.13
															#2 Fuel Oil
150	427	North Campus Recreation-3	7.6	0.002	0.6	0.000	100.0	0.028	84.0	0.024	5.5	0.002	0.5	Natural Gas	0.56
															#2 Fuel Oil

AQD ID	Building#	Building	PM		SO2		NOx		CO		VOC		Capacity MMBtu/Hr	Fuel Type	1998 Fuel Usage
			E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions			
151	324	Kellogg Eye Center-1	7.6	0.029	0.6	0.002	100.0	0.383	84.0	0.322	5.5	0.021	6.0	Natural Gas	7.67
															#2 Fuel Oil
152	324	Kellogg Eye Center-2	7.6	0.029	0.6	0.002	100.0	0.383	84.0	0.322	5.5	0.021	6.0	Natural Gas	7.67
															#2 Fuel Oil
153	324	Kellogg Eye Center-3	7.6	0.002	0.6	0.000	100.0	0.026	84.0	0.021	5.5	0.001	0.4	Natural Gas	0.51
															#2 Fuel Oil
154	324	Kellogg Eye Center-4	7.6	0.002	0.6	0.000	100.0	0.032	84.0	0.027	5.5	0.002	0.5	Natural Gas	0.64
															#2 Fuel Oil
155	324	Kellogg Eye Center-5	7.6	0.002	0.6	0.000	100.0	0.032	84.0	0.027	5.5	0.002	0.5	Natural Gas	0.64
															#2 Fuel Oil
156	424	Engg Prog Bldg-1	7.6	0.065	0.6	0.005	100.0	0.850	84.0	0.714	5.5	0.047	10.4	Natural Gas	17.01
															#2 Fuel Oil
157	424	Engg Prog Bldg-2	7.6	0.065	0.6	0.005	100.0	0.850	84.0	0.714	5.5	0.047	10.4	Natural Gas	17.01
															#2 Fuel Oil
158	183	Lane Hall	7.6	0.007	0.6	0.001	100.0	0.096	84.0	0.080	5.5	0.005	2.0	Natural Gas	1.91
															#2 Fuel Oil
159	186	Pound Madelon House	7.6	0.002	0.6	0.000	100.0	0.031	84.0	0.026	5.5	0.002	0.3	Natural Gas	0.62
															#2 Fuel Oil
160	257	Church Street Parking	7.6	0.004	0.6	0.000	100.0	0.048	84.0	0.041	5.5	0.003	0.5	Natural Gas	0.97
															#2 Fuel Oil
161	445	Stearns Frederick Bldg	7.6	0.005	0.6	0.000	100.0	0.063	84.0	0.053	5.5	0.003	1.5	Natural Gas	1.25
															#2 Fuel Oil
162	710	Coliseum	7.6	0.017	0.6	0.001	100.0	0.220	84.0	0.185	5.5	0.012	1.3	Natural Gas	4.40
															#2 Fuel Oil
163	728	Elbel Field	7.6	0.001	0.6	0.000	100.0	0.015	84.0	0.012	5.5	0.001	0.2	Natural Gas	0.30
															#2 Fuel Oil
164	816	Mail Services Bldg	7.6	0.003	0.6	0.000	100.0	0.034	84.0	0.028	5.5	0.002	0.2	Natural Gas	0.68
															#2 Fuel Oil
165	834	Corner House-1	7.6	0.001	0.6	0.000	100.0	0.015	84.0	0.013	5.5	0.001	0.2	Natural Gas	0.30
															#2 Fuel Oil
166	834	Corner House-2	7.6	0.001	0.6	0.000	100.0	0.015	84.0	0.013	5.5	0.001	0.2	Natural Gas	0.30
															#2 Fuel Oil
167	836	RP Law School	7.6	0.002	0.6	0.000	100.0	0.023	84.0	0.019	5.5	0.001	0.5	Natural Gas	0.46
															#2 Fuel Oil
168	858	Madison Bldg	7.6	0.009	0.6	0.001	100.0	0.118	84.0	0.099	5.5	0.007	1.0	Natural Gas	2.36
															#2 Fuel Oil
169	861	Inglis Cottage	7.6	0.001	0.6	0.000	100.0	0.008	84.0	0.007	5.5	0.000	0.1	Natural Gas	0.16
															#2 Fuel Oil
170	861	Inglis Green House	7.6	0.001	0.6	0.000	100.0	0.008	84.0	0.007	5.5	0.000	0.1	Natural Gas	0.16
															#2 Fuel Oil

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			E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions			
171	861	Ingليس House	7.6	0.004	0.6	0.000	100.0	0.048	84.0	0.040	5.5	0.003	0.6	Natural Gas	0.95
															#2 Fuel Oil
172	874	MP Hosp Admin Press	7.6	0.001	0.6	0.000	100.0	0.018	84.0	0.015	5.5	0.001	0.3	Natural Gas	0.36
															#2 Fuel Oil
173	875	Rdg & Lrg Skills Ctr	7.6	0.000	0.6	0.000	100.0	0.005	84.0	0.004	5.5	0.000	0.5	Natural Gas	0.09
															#2 Fuel Oil
174	886	Trotter W.M. House	7.6	0.008	0.6	0.001	100.0	0.101	84.0	0.084	5.5	0.006	1.2	Natural Gas	2.01
															#2 Fuel Oil
175	201	Hartwig Women's Ath Off	7.6	0.004	0.6	0.000	100.0	0.049	84.0	0.041	5.5	0.003	8.7	Natural Gas	0.98
															#2 Fuel Oil
176	735	Golf Course Shops	7.6	0.009	0.6	0.001	100.0	0.120	84.0	0.101	5.5	0.007	0.9	Natural Gas	2.41
															#2 Fuel Oil
177	733	Fisher Stadium	7.6	0.008	0.6	0.001	100.0	0.111	84.0	0.093	5.5	0.006	1.8	Natural Gas	2.21
															#2 Fuel Oil
178	711	Food Preparation	7.6	0.007	0.6	0.001	100.0	0.094	84.0	0.079	5.5	0.005	1.0	Natural Gas	1.89
															#2 Fuel Oil
178	711	Home Locker Room	7.6	0.004	0.6	0.000	100.0	0.047	84.0	0.040	5.5	0.003	0.5	Natural Gas	0.94
															#2 Fuel Oil
178	711	Press box	7.6	0.004	0.6	0.000	100.0	0.057	84.0	0.048	5.5	0.003	0.6	Natural Gas	1.13
															#2 Fuel Oil
178	711	Visitors Locker Room	7.6	0.004	0.6	0.000	100.0	0.047	84.0	0.040	5.5	0.003	0.5	Natural Gas	0.94
															#2 Fuel Oil
179	5	Arboretum-1	7.6	0.000	0.6	0.000	100.0	0.003	84.0	0.003	5.5	0.000	0.1	Natural Gas	0.07
															#2 Fuel Oil
180	5	Arboretum-2	7.6	0.001	0.6	0.000	100.0	0.007	84.0	0.006	5.5	0.000	0.2	Natural Gas	0.13
															#2 Fuel Oil
181	799	Buhr	7.6	0.001	0.6	0.000	100.0	0.020	84.0	0.016	5.5	0.001	0.2	Natural Gas	0.39
															#2 Fuel Oil
182	2501	Printing-Auxiliary Svcs Bldg-1	7.6	0.006	0.6	0.000	100.0	0.073	84.0	0.061	5.5	0.004	2.0	Natural Gas	1.46
															#2 Fuel Oil
183	2501	Printing-Auxiliary Svcs Bldg-2	7.6	0.001	0.6	0.000	100.0	0.015	84.0	0.012	5.5	0.001	0.4	Natural Gas	0.29
															#2 Fuel Oil
184	742	CSS Bldg-1	7.6	0.012	0.6	0.001	100.0	0.158	84.0	0.133	5.5	0.009	2.9	Natural Gas	3.16
															#2 Fuel Oil
185	742	CSS Bldg-2	7.6	0.012	0.6	0.001	100.0	0.158	84.0	0.133	5.5	0.009	2.9	Natural Gas	3.16
															#2 Fuel Oil
186	418	N.C. Service Bldg #1	7.6	0.015	0.6	0.001	100.0	0.196	84.0	0.164	5.5	0.011	0.6	Natural Gas	3.91
															#2 Fuel Oil
187	259	Thayer Street Parking	7.6	0.001	0.6	0.000	100.0	0.014	84.0	0.011	5.5	0.001	0.1	Natural Gas	0.27
															#2 Fuel Oil

AQD ID	Building#	Building	PM		SO2		NOx		CO		VOC		Capacity MMBtu/Hr	Fuel Type	1998 Fuel Usage
			E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions			
188	8023	MP CPS-1	7.6	0.001	0.6	0.000	100.0	0.012	84.0	0.010	5.5	0.001	0.2	Natural Gas	0.23
															#2 Fuel Oil
189	8023	MP CPS-2	7.6	0.001	0.6	0.000	100.0	0.017	84.0	0.015	5.5	0.001	0.3	Natural Gas	0.35
															#2 Fuel Oil
190	510	Vera Baits I-1	7.6	0.030	0.6	0.002	100.0	0.401	84.0	0.337	5.5	0.022	12.0	Natural Gas	8.02
															#2 Fuel Oil
191	510	Vera Baits I-2	7.6	0.030	0.6	0.002	100.0	0.401	84.0	0.337	5.5	0.022	12.0	Natural Gas	8.02
															#2 Fuel Oil
192	515	Vera Baits II-1	7.6	0.026	0.6	0.002	100.0	0.344	84.0	0.289	5.5	0.019	12.0	Natural Gas	6.87
															#2 Fuel Oil
193	515	Vera Baits II-2	7.6	0.026	0.6	0.002	100.0	0.344	84.0	0.289	5.5	0.019	12.0	Natural Gas	6.87
															#2 Fuel Oil
194	51	Barbour Betsy House-1	7.6	0.000	0.6	0.000	100.0	0.007	84.0	0.005	5.5	0.000	0.7	Natural Gas	0.13
															#2 Fuel Oil
195	51	Barbour Betsy House-2	7.6	0.000	0.6	0.000	100.0	0.007	84.0	0.005	5.5	0.000	0.7	Natural Gas	0.13
															#2 Fuel Oil
196	555	Bursley Hall-1	7.6	0.042	0.6	0.003	100.0	0.555	84.0	0.466	5.5	0.031	12.0	Natural Gas	11.09
															#2 Fuel Oil
197	555	Bursley Hall-2	7.6	0.042	0.6	0.003	100.0	0.555	84.0	0.466	5.5	0.031	12.0	Natural Gas	11.09
															#2 Fuel Oil
198	555	Bursley Hall-3	7.6	0.042	0.6	0.003	100.0	0.555	84.0	0.466	5.5	0.031	12.0	Natural Gas	11.09
															#2 Fuel Oil
199	555	Bursley Hall-4	7.6	0.007	0.6	0.001	100.0	0.092	84.0	0.078	5.5	0.005	2.0	Natural Gas	1.85
															#2 Fuel Oil
200	600	NC Family Housing Comm	7.6	0.007	0.6	0.001	100.0	0.089	84.0	0.075	5.5	0.005	0.2	Natural Gas	1.78
															#2 Fuel Oil
201	55	Fletcher Hall-1	7.6	0.005	0.6	0.000	100.0	0.060	84.0	0.050	5.5	0.003	8.0	Natural Gas	1.19
															#2 Fuel Oil
202	55	Fletcher Hall-2	7.6	0.005	0.6	0.000	100.0	0.060	84.0	0.050	5.5	0.003	8.0	Natural Gas	1.19
															#2 Fuel Oil
203	396	ITIC / Media Union-1	7.6	0.042	0.6	0.003	100.0	0.548	84.0	0.460	5.5	0.030	8.4	Natural Gas	10.95
															#2 Fuel Oil
204	419	Laundry-1	7.6	0.046	0.6	0.004	100.0	0.612	84.0	0.514	5.5	0.034	8.6	Natural Gas	12.23
															#2 Fuel Oil
205	419	Laundry-2	7.6	0.046	0.6	0.004	100.0	0.612	84.0	0.514	5.5	0.034	8.6	Natural Gas	12.23
															#2 Fuel Oil
206	457	Northwood II Room 1735-1	7.6	0.008	0.6	0.001	100.0	0.099	84.0	0.083	5.5	0.005	0.2	Natural Gas	1.98
															#2 Fuel Oil
207	457	Northwood II Room 1735-2	7.6	0.008	0.6	0.001	100.0	0.099	84.0	0.083	5.5	0.005	0.2	Natural Gas	1.98
															#2 Fuel Oil

AQD ID	Building#	Building	PM		SO2		NOx		CO		VOC		Capacity MMBtu/Hr	Fuel Type	1998 Fuel Usage
			E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions			
208	457	Northwood II Room 1735-3	7.6	0.008	0.6	0.001	100.0	0.099	84.0	0.083	5.5	0.005	0.2	Natural Gas	1.98
														#2 Fuel Oil	N/A
209	457	Northwood II Room 1735-4	7.6	0.008	0.6	0.001	100.0	0.099	84.0	0.083	5.5	0.005	0.2	Natural Gas	1.98
														#2 Fuel Oil	N/A
210	457	Northwood II Room 2204-1	7.6	0.008	0.6	0.001	100.0	0.099	84.0	0.083	5.5	0.005	0.2	Natural Gas	1.98
														#2 Fuel Oil	N/A
211	457	Northwood II Room 2204-2	7.6	0.008	0.6	0.001	100.0	0.099	84.0	0.083	5.5	0.005	0.2	Natural Gas	1.98
														#2 Fuel Oil	N/A
212	457	Northwood II Room 2261-1	7.6	0.008	0.6	0.001	100.0	0.099	84.0	0.083	5.5	0.005	0.2	Natural Gas	1.98
														#2 Fuel Oil	N/A
213	457	Northwood II Room 2261-2	7.6	0.008	0.6	0.001	100.0	0.099	84.0	0.083	5.5	0.005	0.2	Natural Gas	1.98
														#2 Fuel Oil	N/A
214	457	Northwood II Room 2356-1	7.6	0.008	0.6	0.001	100.0	0.099	84.0	0.083	5.5	0.005	0.2	Natural Gas	1.98
														#2 Fuel Oil	N/A
215	457	Northwood II Room 2356-2	7.6	0.008	0.6	0.001	100.0	0.099	84.0	0.083	5.5	0.005	0.2	Natural Gas	1.98
														#2 Fuel Oil	N/A
216	498	Northwood III Room 1714-1	7.6	0.001	0.6	0.000	100.0	0.010	84.0	0.008	5.5	0.001	0.2	Natural Gas	0.20
														#2 Fuel Oil	N/A
217	498	Northwood III Room 1714-2	7.6	0.001	0.6	0.000	100.0	0.010	84.0	0.008	5.5	0.001	0.2	Natural Gas	0.20
														#2 Fuel Oil	N/A
218	498	Northwood III Room 1714-3	7.6	0.001	0.6	0.000	100.0	0.010	84.0	0.008	5.5	0.001	0.2	Natural Gas	0.20
														#2 Fuel Oil	N/A
219	498	Northwood III Room 2145-1	7.6	0.001	0.6	0.000	100.0	0.010	84.0	0.008	5.5	0.001	0.2	Natural Gas	0.20
														#2 Fuel Oil	N/A
220	498	Northwood III Room 2145-2	7.6	0.001	0.6	0.000	100.0	0.010	84.0	0.008	5.5	0.001	0.2	Natural Gas	0.20
														#2 Fuel Oil	N/A
221	498	Northwood III Room 2145-3	7.6	0.001	0.6	0.000	100.0	0.010	84.0	0.008	5.5	0.001	0.2	Natural Gas	0.20
														#2 Fuel Oil	N/A
222	498	Northwood III Room 2145-4	7.6	0.001	0.6	0.000	100.0	0.010	84.0	0.008	5.5	0.001	0.2	Natural Gas	0.20
														#2 Fuel Oil	N/A
223	498	Northwood III Room 2150-1	7.6	0.030	0.6	0.002	100.0	0.396	84.0	0.333	5.5	0.022	8.0	Natural Gas	7.92
														#2 Fuel Oil	N/A
224	498	Northwood III Room 2150-2	7.6	0.030	0.6	0.002	100.0	0.396	84.0	0.333	5.5	0.022	8.0	Natural Gas	7.92
														#2 Fuel Oil	N/A
225	498	Northwood III Room 2150-3	7.6	0.030	0.6	0.002	100.0	0.396	84.0	0.333	5.5	0.022	8.0	Natural Gas	7.92
														#2 Fuel Oil	N/A
226	450	Northwood I Room 1613-1	7.6	0.003	0.6	0.000	100.0	0.037	84.0	0.031	5.5	0.002	0.2	Natural Gas	0.74
														#2 Fuel Oil	N/A
227	450	Northwood I Room 1613-2	7.6	0.003	0.6	0.000	100.0	0.037	84.0	0.031	5.5	0.002	0.2	Natural Gas	0.74
														#2 Fuel Oil	N/A

AQD ID	Building#	Building	PM		SO2		NOx		CO		VOC		Capacity MMBtu/Hr	Fuel Type	1998 Fuel Usage
			E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions			
228	450	Northwood I Room 1613-3	7.6	0.003	0.6	0.000	100.0	0.037	84.0	0.031	5.5	0.002	0.2	Natural Gas	0.74
														#2 Fuel Oil	N/A
229	450	Northwood I Room 1613-4	7.6	0.003	0.6	0.000	100.0	0.037	84.0	0.031	5.5	0.002	0.2	Natural Gas	0.74
														#2 Fuel Oil	N/A
230	450	Northwood I Room 1613-5	7.6	0.003	0.6	0.000	100.0	0.037	84.0	0.031	5.5	0.002	0.2	Natural Gas	0.74
														#2 Fuel Oil	N/A
231	450	Northwood I Room 1613-6	7.6	0.003	0.6	0.000	100.0	0.037	84.0	0.031	5.5	0.002	0.2	Natural Gas	0.74
														#2 Fuel Oil	N/A
232	450	Northwood I Room 1613-7	7.6	0.003	0.6	0.000	100.0	0.037	84.0	0.031	5.5	0.002	0.2	Natural Gas	0.74
														#2 Fuel Oil	N/A
233	450	Northwood I Room 1666-1	7.6	0.003	0.6	0.000	100.0	0.037	84.0	0.031	5.5	0.002	0.2	Natural Gas	0.74
														#2 Fuel Oil	N/A
234	450	Northwood I Room 1666-2	7.6	0.003	0.6	0.000	100.0	0.037	84.0	0.031	5.5	0.002	0.2	Natural Gas	0.74
														#2 Fuel Oil	N/A
235	450	Northwood I Room 1666-3	7.6	0.003	0.6	0.000	100.0	0.037	84.0	0.031	5.5	0.002	0.2	Natural Gas	0.74
														#2 Fuel Oil	N/A
236	450	Northwood I Room 1666-4	7.6	0.003	0.6	0.000	100.0	0.037	84.0	0.031	5.5	0.002	0.2	Natural Gas	0.74
														#2 Fuel Oil	N/A
237	450	Northwood I Room 1666-5	7.6	0.003	0.6	0.000	100.0	0.037	84.0	0.031	5.5	0.002	0.2	Natural Gas	0.74
														#2 Fuel Oil	N/A
238	450	Northwood I Room 1666-6	7.6	0.003	0.6	0.000	100.0	0.037	84.0	0.031	5.5	0.002	0.2	Natural Gas	0.74
														#2 Fuel Oil	N/A
239	450	Northwood I Room 1666-7	7.6	0.003	0.6	0.000	100.0	0.037	84.0	0.031	5.5	0.002	0.2	Natural Gas	0.74
														#2 Fuel Oil	N/A
240	457	Northwood II Room 2204-3	7.6	0.004	0.6	0.000	100.0	0.050	84.0	0.042	5.5	0.003	0.1	Natural Gas	0.99
														#2 Fuel Oil	N/A
241	457	Northwood II Room 2204-4	7.6	0.004	0.6	0.000	100.0	0.050	84.0	0.042	5.5	0.003	0.1	Natural Gas	0.99
														#2 Fuel Oil	N/A
242	457	Northwood II Room 2356-3	7.6	0.004	0.6	0.000	100.0	0.050	84.0	0.042	5.5	0.003	0.1	Natural Gas	0.99
														#2 Fuel Oil	N/A
243	457	Northwood II Room 2356-4	7.6	0.004	0.6	0.000	100.0	0.050	84.0	0.042	5.5	0.003	0.1	Natural Gas	0.99
														#2 Fuel Oil	N/A
244	851	RP Observatory Lodge-1	7.6	0.007	0.6	0.001	100.0	0.092	84.0	0.077	5.5	0.005	4.0	Natural Gas	1.83
														#2 Fuel Oil	N/A
245	851	RP Observatory Lodge-2	7.6	0.007	0.6	0.001	100.0	0.092	84.0	0.077	5.5	0.005	4.0	Natural Gas	1.83
														#2 Fuel Oil	N/A
246	851	RP Observatory Lodge-3	7.6	0.000	0.6	0.000	100.0	0.002	84.0	0.002	5.5	0.000	0.1	Natural Gas	0.05
														#2 Fuel Oil	N/A

AQD ID	Building#	Building	PM		SO2		NOx		CO		VOC		Capacity MMBtu/Hr	Fuel Type	1998 Fuel Usage
			E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions			
247	40	Oxford Housing-1	7.6	0.018	0.6	0.001	100.0	0.231	84.0	0.194	5.5	0.013	8.0	Natural Gas	4.61
														#2 Fuel Oil	N/A
248	40	Oxford Housing-2	7.6	0.018	0.6	0.001	100.0	0.231	84.0	0.194	5.5	0.013	8.0	Natural Gas	4.61
														#2 Fuel Oil	N/A
249	40	Oxford Housing-3	7.6	0.000	0.6	0.000	100.0	0.006	84.0	0.005	5.5	0.000	0.2	Natural Gas	0.12
														#2 Fuel Oil	N/A
250	40	Oxford Housing-4	7.6	0.000	0.6	0.000	100.0	0.006	84.0	0.005	5.5	0.000	0.2	Natural Gas	0.12
														#2 Fuel Oil	N/A
251	40	Oxford Housing-5	7.6	0.000	0.6	0.000	100.0	0.006	84.0	0.005	5.5	0.000	0.2	Natural Gas	0.12
														#2 Fuel Oil	N/A
252	40	Oxford Housing-6	7.6	0.000	0.6	0.000	100.0	0.006	84.0	0.005	5.5	0.000	0.2	Natural Gas	0.12
														#2 Fuel Oil	N/A
253	326	Riverview Psy Svcs	7.6	0.002	0.6	0.000	100.0	0.027	84.0	0.023	5.5	0.001	0.7	Natural Gas	0.54
														#2 Fuel Oil	N/A
254	328	Turner Ger Svcs-1	7.6	0.011	0.6	0.001	100.0	0.151	84.0	0.126	5.5	0.008	1.5	Natural Gas	3.01
														#2 Fuel Oil	N/A
255	328	Turner Ger Svcs-2	7.6	0.011	0.6	0.001	100.0	0.151	84.0	0.126	5.5	0.008	1.5	Natural Gas	3.01
														#2 Fuel Oil	N/A
256	430	NC Storage Bldg	7.6	0.015	0.6	0.001	100.0	0.194	84.0	0.163	5.5	0.011	0.1	Natural Gas	3.89
														#2 Fuel Oil	N/A
261	709	Yost Ice Arena-1	7.6	0.029	0.6	0.002	100.0	0.378	84.0	0.318	5.5	0.021	2.1	Natural Gas	7.56
														#2 Fuel Oil	N/A
262	709	Yost Ice Arena-2	7.6	0.025	0.6	0.002	100.0	0.324	84.0	0.272	5.5	0.018	1.8	Natural Gas	6.48
														#2 Fuel Oil	N/A
263	396	ITIC / Media Union-2	7.6	0.042	0.6	0.003	100.0	0.548	84.0	0.460	5.5	0.030	8.4	Natural Gas	10.95
														#2 Fuel Oil	N/A
264	396	ITIC / Media Union-3	7.6	0.021	0.6	0.002	100.0	0.274	84.0	0.230	5.5	0.015	4.2	Natural Gas	5.48
														#2 Fuel Oil	N/A
265	396	ITIC / Media Union-4	7.6	0.002	0.6	0.000	100.0	0.026	84.0	0.022	5.5	0.001	0.4	Natural Gas	0.52
														#2 Fuel Oil	N/A
266	442	Pierpont Commons-3	7.6	0.003	0.6	0.000	100.0	0.033	84.0	0.028	5.5	0.002	0.9	Natural Gas	0.66
														#2 Fuel Oil	N/A
267	442	Pierpont Commons-4	7.6	0.001	0.6	0.000	100.0	0.007	84.0	0.006	5.5	0.000	0.2	Natural Gas	0.15
														#2 Fuel Oil	N/A
Subtotal - Boilers (Nat. Gas)			16.068		1.269		283.436		48.317		11.628				4228.54
Subtotal - Boilers (#2 Fuel Oil)			0.519		0.990		3.147		0.787		0.032				314.66
Subtotal - Boilers (TOTAL)			16.588		2.259		286.584		49.104		11.660				

AQD ID	Building#	Building	PM		SO2		NOx		CO		VOC		Capacity MMBtu/Hr	Fuel Type	1998 Fuel Usage
			E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions	E. F.	1998 Actual Emissions			

INCINERATORS

51		UMMC												Natural Gas	14.2
			4.7	6.621	2.5	3.522	3.0	4.226	10.0	14.086	3.0	4.226		Waste Thruput (tons)	2817.3
52		NCTF											1.4	Natural Gas	0.0
														Waste Thruput	0.0
53		Med Sci I											3.2	Natural Gas	0.0
														Waste Thruput	0.0
54		Med Sci II											2.7	Natural Gas	3.4
			4.7	0.046	2.5	0.024	3.0	0.029	10.0	0.098	3.0	0.029		Waste Thruput (tons)	19.5
Subtotal - Incinerators			6.666		3.546		4.255		14.184		4.255				17.6

MISCELLANEOUS GAS FIRED EQUIPMENT

502		Miscellaneous	7.6	1.304	0.6	0.103	100.0	17.162	84.0	14.416	5.5	0.944	0.1		343.2
Subtotal - Miscellaneous			1.304		0.103		17.162		14.416		0.944				343.2

GRAND TOTAL (NATURAL GAS) 4589.4

FOOTNOTES:

Unit for natural gas fuel usage is MM Ft³
Unit for #2 fuel oil usage is 1000 Gallons
Unit for natural gas emission factor is lbs/MM Ft³
Unit for #2 fuel oil emission factor is lbs/1000 Gallons
Unit for natural gas and fuel oil actual emissions is Tons Per Year (TPY)
E. F. stands for Emission Factor