

University of North Carolina at Chapel Hill

Chapel Hill, North Carolina

Orange County

Facility ID # 6800043

Permit # 03069T20

2007 Annual Emissions Inventory

Facility Summary

Pollutant	Units	Boiler #6			Boiler #6	Boiler #7			Boiler #7	Boiler #8		Boiler #8	Railcar Dump Pits	Coal Storage Silos	Sorberent Railcar Dump Pit	Ash Silo w/ Loadout	Coal Conveyor & Crusher Building	Fuel Oil Storage Tanks	Two Blackstart Generators	Total
		Natural Gas	Fuel Oil	Coal	Total	Natural Gas	Fuel Oil	Coal	Total	Natural Gas	Fuel Oil	Total								
Criteria																				
PM	tpv	0.22	0.000	1.27	1.49	0.40	0.00E+00	1.24	1.64	0.343	0.00	0.343	6.69E-03	0.0046	1.24E-02	1.83	0.72	0.37	6.4	
PM-10	tpv	0.22	0.000	1.27	1.49	0.40	0.00E+00	1.24	1.64	0.343	0.00000	0.343	3.16E-03	0.0046	5.89E-03	1.83	0.72	0.37	6.4	
PM-2.5	tpv	0.22	0.0000	0.75	0.97	0.40	0.00E+00	0.73	1.13	0.343	0.0000	0.343	9.94E-04	0.0044	1.85E-03	1.74	0.69	0.57	5.2	
NOx	tpv	8.26	0.00	181.06	189.32	17.09	0.00E+00	200.20	217.29	3.918	0.00	3.918						6.94	417.5	
VOC	tpv	0.16	0.00	1.28	1.44	0.29	0.00E+00	1.25	1.54	0.248	0.0000	0.248						0.21	3.7	
CO	tpv	2.42	0.00	461.98	464.40	4.41	0.00E+00	449.82	454.23	3.791	0.00	3.791						3.10	925.5	
SO2	tpv	0.00	0.00	113.82	113.82	0.00	0.00E+00	114.54	114.54	0.027	0.00	0.027						0.57	228.8	
Greenhouse Gases																				
CO2	tpv	3,464.78	0.00	144,925.60	148,390.39	6,316.54	0.00	141,109.36	147,425.90	5,432.37	0.00	5,432.37						602.32	301,850.97	
Methane	tpv	0.066	0.00	1.5	1.61	0.121	0.00	1.50	1.62	0.104	0.00	0.104						0.03	3.4	
Nitrous Oxide	tpv	0.063	0.00	89.8	89.89	0.115	0.00	87.46	87.58	0.099	0.00	0.099							177.6	
HAPs/TAPs																				
1,3 Butadiene	lb/yr				0				0			0								0.0
2,3,7,8-TCDD	lb/yr			7.34E-07	7.34E-07			7.15E-07	7.15E-07			0								0.0
2,4-Dinitrotoluene	lb/yr			1.44E-02	1.44E-02			0.01	0.01			0								0.0
2-Chloroacetophenone	lb/yr			0.36	0.36			0.35	0.34985839			0								0.7
Acetaldehyde	lb/yr			29.26	29.26			28.49	28.49			0							0.18	57.9
Acetic Acid	lb/yr				0				0			0								0.0
Acetophenone	lb/yr			0.77	0.77			0.75	0.75			0								1.5
Acrolein	lb/yr			14.89	14.89			14.49	14.49			0							5.75E-02	29.4
Antimony	lb/yr		0.00E+00		0.00E+00			0.00E+00	0.00E+00			0								0.0
Arsenic	lb/yr	0.01	0.00E+00	0.53	0.54	2.10E-02	0.00E+00	0.51	0.53	0.018	0.00E+00	0.018								1.1
Benzene	lb/yr	0.1	0.00E+00	66.73	66.85	2.20E-01	0.00E+00	64.97	65.19	0.190	0.00E+00	0.190							5.67	137.9
Benzo(a)pyrene	lb/yr			1.95E-03	1.95E-03			0.00	1.90E-03			0								0.0
Benzyl Chloride	lb/yr			35.93	35.93015			34.99	34.99			0								70.9
Beryllium	lb/yr		0.00E+00	24.46	24.46			0.00E+00	23.81	23.81		0.00E+00	0.00E+00							48.3
Biphenyl	lb/yr			8.73E-02	0.09			8.50E-02	0.08			0								0.2
Bis(2-ethylhexyl)phthalate (DEHP)	lb/yr			3.75	3.75			3.65	3.65			0								7.4
Bromine	lb/yr			10.67	10.67			10.38	10.38			0								21.0
Bromoform	lb/yr			2.00	2.00			1.95	1.95			0								4.0
Cadmium	lb/yr	0.06	0.00E+00	2.14E-02	0.08	1.15E-01	0.00E+00	2.09E-02	0.14	0.099	0.00E+00	0.099								0.3
Carbon Disulfide	lb/yr			6.67	6.67			6.50	6.50			0								13.2
Chlorobenzene	lb/yr			1.13	1.13			1.10	1.10			0								2.2
Chloroform	lb/yr			3.03	3.03			2.95	2.95			0								6.0
Chromium	lb/yr	0.08	0.00E+00	0.84	0.92	1.47E-01	0.00E+00	0.82	0.97	0.126	0.00E+00	0.126								2.0
Chromium VI	lb/yr	0.08	0.00E+00	0.84	0.92	1.47E-01	0.00E+00	0.82	0.97	0.126	0.00E+00	0.126								2.0
Cobalt	lb/yr				0.00E+00			0.00E+00	0.00E+00			0								0.0
Cumene	lb/yr			0.27	0.27			0.26	0.26			0								0.5
Cyanide	lb/yr			128.33	128.33			124.95	124.95			0								253.3
Dibenzofurans	lb/yr			1.03E-02	0.01			1.00E-02	0.01			0								0.0
Dichlorobenzene	lb/yr	0.07			0.0699012	1.26E-01			1.26E-01	0.108		0.108								0.3
Dimethyl Sulfate	lb/yr			2.46	2.46			2.40	2.40			0								4.9
Ethyl Benzene	lb/yr		0.00E+00	4.83	4.83		0.00E+00	4.70	4.70		0.00E+00	0.00E+00								9.5
Ethyl Chloride	lb/yr			2.16	2.16			2.10	2.10			0								4.3
Ethylene Dibromide	lb/yr			6.16E-02	0.06			6.00E-02	0.06			0								0.1
Ethylene Dichloride	lb/yr			2.05	2.05			2.00	2.00			0								4.1
Ethylene Glycol	lb/yr				0				0			0								0.0
Ethylene Oxide	lb/yr				0				0			0								0.0
Flouride	lb/yr		0.00		0.00			0.00E+00	0.00			0.00E+00	0.00E+00							0.0
Formaldehyde	lb/yr	4.32	0.00	12.32	16.64	7.87E+00	0.00E+00	12.00	19.87	6.770	0.00E+00	6.770							0.58	43.9
Glycol Ethers	lb/yr				0				0			0								0.0
Hexane	lb/yr	103.64		3.44	107.07	1.89E+02		3.35	107.28	162.488		162.488								461.8
Hydrogen Chloride	lb/yr			38,344.59	38,344.59			49,579.93	49,579.93			0								87924.5
Hydrogen Fluoride	lb/yr			2258.58	2258.58			2199.11	2199.11			0								4457.7
Isophorone	lb/yr			29.77	29.77			28.99	28.99			0								58.8
Lead	lb/yr	0.03	0.00E+00	0.34	0.37	5.25E-02	0.00E+00	0.33	0.38	0.045	0.00E+00	0.045								0.8
Manganese	lb/yr	0.02	0.00E+00	1.45	1.48	3.99E-02	0.00E+00	1.42	1.46	0.034	0.00E+00	0.034								3.0
Mercury	lb/yr	0.01	0.00E+00	1.91	1.93	2.73E-02	0.00E+00	1.86	1.89	0.023	0.00E+00	0.023								3.8
Methyl Chloride	lb/yr			27.21	27.21			26.49	26.49			0								53.7
Methyl Ethyl Ketone	lb/yr			20.02	20.02			19.49	19.49			0								39.5
Methyl Bromide	lb/yr			8.21	8.21			8.00	8.00			0								16.2
Methyl Chloroform	lb/yr		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00								0.0
Methyl Hydrazine	lb/yr			8.73	8.73			8.50	8.50			0								17.2
Methyl Methacrylate	lb/yr			1.03	1.03			1.00	1.00			0								2.0
Methyl Tert Butyl Ether	lb/yr			1.80	1.80			1.75	1.75			0								3.5
Methylene Chloride	lb/yr			14.89	14.89			14.49	14.49			0								29.4
Naphthalene	lb/yr	0.04	0.00E+00	0.67	0.70	6.40E-02	0.00E+00	0.65	0.71	0.055	0.00E+00	0.055							0.949	2.4
Nickel	lb/yr	0.12	0.00E+00	0.69	0.81	2.20E-01	0.00E+00	0.67	0.89	0.190	0.00E+00	0.190								1.9
PAH	lb/yr				0				0			0								0.0
Phenol	lb/yr			0.82	0.82			0.80	0.80			0								1.6
POM	lb/yr	0.04	0.00E+00	2.91	2.95	6.95E-02	0.00E+00	2.84	2.91	0.060	0.00E+00	0.060								5.9
Propionaldehyde	lb/yr			19.51	19.51															