

University of North Carolina at Chapel Hill

Chapel Hill, North Carolina

Orange County

Facility ID # 6800043

Permit # 03069T29

Coproduction Facility Only-2011 Annual Emissions Inventory

Pollutant	Units	Boiler #6				Boiler #6	Boiler #7				Boiler #7	Boiler #8		Boiler #8	Railcar Dump Pits	Coal Storage Silos	Coal Silo Conveyors	Sorberent Railcar Dump Pit	Ash Silo w/ Loadout	Coal Conveyor & Crusher Building	Blackstart Generators G1 & G2	Fuel Oil Storage Tanks Cogen	Total
		Natural Gas	Fuel Oil	Wood	Coal	Total	Natural Gas	Fuel Oil	Wood	Coal	Total	Natural Gas	Fuel Oil	Total									
Criteria Pollutants																							
PM	tpy	0.10	2.38E-05	2.67E-03	5.52	5.62	0.03	3.30E-06		4.44	4.47	0.378	2.95E-03	0.381	6.04E-03	0.0042	0.0042	1.63E-02	1.60	0.65	0.04	12.8	
PM-10	tpy	0.10	2.38E-05	2.41E-03	5.52	5.62	0.03	3.30E-06		4.44	4.47	0.378	8.93E-04	0.379	2.86E-03	0.0042	0.0042	7.73E-03	1.60	0.65	0.04	12.8	
PM-2.5	tpy	0.10	5.96E-06	3.09E-03	3.18	3.29	0.03	8.25E-07		2.56	2.59	0.378	2.23E-04	0.378	8.98E-04	0.0040	0.0040	2.43E-03	1.52	0.62	0.04	8.4	
NOx	tpy	4.90	8.83E-04	1.13E+00	229.41	235.44	1.42	1.21E-04		179.91	181.33	3.973	9.62E-03	3.982								421.5	
VOC	tpy	0.07	3.61E-06	5.44E-02	0.30	0.43	0.02	5.00E-07		0.24	0.26	0.274	1.79E-04	0.274							0.03	0.215	
CO	tpy	1.14	9.03E-05	5.44E-01	22.25	23.93	0.33	1.25E-05		17.65	17.99	4.181	4.47E-03	4.185							0.10	46.2	
SO2	tpy	0.00	4.16E-04		108.24	108.24	0.00	5.69E-05		84.79	84.79	0.030	2.19E-02	0.052							0.04	193.1	
Greenhouse Gases																							
CO2	tpy	1.775	0.45	720.60	146.300	148.796	540	6.42E-02		120.755	121.296	6.528	22	6.551							61.67	276708.8	
Methane	tpy	0.03	1.66E-05	2.26E-01	0.2	0.50	0.01	2.30E-06		0.20	0.21	0.113	8.21E-04	0.114							0.0025	0.8	
Nitrous Oxide	tpy	0.00	3.32E-06	2.96E-02	2.3	2.33	0.00	4.60E-07		1.83	1.83	0.011	1.64E-04	0.011							0.0005	4.2	
HAPs/TAPs																							
1,3 Butadiene	lb/yr					0					0		0									0.00E+00	
2,3,7,8-TCDD	lb/yr			5.50E-08	7.24E-07	7.79E-07				5.83E-07	5.83E-07		0									1.36E-06	
2,4-Dinitrotoluene	lb/yr				1.42E-02	1.42E-02				0.01	0.01		0									2.56E-02	
2-Chloroacetophenone	lb/yr				0.35	0.35				0.29	0.2855216		0									6.40E-01	
Acetaldehyde	lb/yr			5.31E+00	28.87	34.18				23.25	23.25		0								0.019	5.74E+01	
Acetic Acid	lb/yr					0				0	0		0									0.00E+00	
Acetophenone	lb/yr			2.05E-05	0.76	0.76				0.61	0.61		0									1.72E+00	
Acrolein	lb/yr			7.56E+01	14.69	40.28				11.83	11.83		0									5.21E+01	
Antimony	lb/yr		0.00E+00	2.02E-04	0.42	0.42		0.00E+00		0.33	0.33		0							0.0060		7.56E-01	
Arsenic	lb/yr	0.01	2.02E-07	5.63E-04	0.39	0.40	1.58E-03	2.80E-08		0.31	0.31	0.020	1.00E-03	0.021							0.0030	7.36E-01	
Benzene	lb/yr	0.1	9.93E-05	2.69E+01	65.84	92.78	1.66E-02	1.38E-05		53.03	53.04	0.209	4.91E-03	0.214							0.59	1.47E+02	
Benzo(a)pyrene	lb/yr			1.66E-02	1.92E-03	1.86E-02				0.00	1.55E-03		0								0.0019	2.03E-02	
Benzyl Chloride	lb/yr				35.45	35.45451				28.55	28.55		0									6.40E+01	
Beryllium	lb/yr	1.52E-07		2.82E-05	0.07	0.07		2.10E-08		0.05	0.05		7.50E-04	7.50E-04							0.00227	1.27E-01	
Biphenyl	lb/yr				8.61E-02	0.09				6.93E-02	0.07		0									1.55E-01	
Bis(2-ethylhexyl)phthalate (DEHP)	lb/yr				3.70	3.70				2.98	2.98		0									6.67E+00	
Bromine	lb/yr				10.70	10.70				8.49	8.49		0									1.92E+01	
Bromoform	lb/yr				1.98	1.98				1.59	1.59		0									3.57E+00	
Cadmium	lb/yr	0.03	1.52E-07	1.05E-04	1.81E-01	0.21	8.72E-03	2.10E-08		1.44E-01	0.15	0.109	7.50E-04	0.110							0.00227	4.74E-01	
Carbon Disulfide	lb/yr				6.58	6.58				5.30	5.30		0									1.19E-01	
Chlorine	lb/yr			5.06E+00	140.91	145.97				111.83	111.83		0									2.58E-02	
Chlorobenzene	lb/yr			2.11E-01	1.11	1.33				0.90	0.90		0									2.22E+00	
Chloroform	lb/yr			1.79E-01	2.99	3.17				2.41	2.41		0									5.57E+00	
Chromium	lb/yr	0.04	1.52E-07	4.48E-04	6.26	6.30	1.11E-02	2.10E-08		4.97	4.98	0.139	7.50E-04	0.140							0.00227	1.14E+01	
Chromium VI	lb/yr	0.04	4.45E-08		0.01	0.05	1.11E-02	6.16E-09		0.01	0.02	0.139	2.20E-04	0.140								2.11E-01	
Cobalt	lb/yr		0.00E+00	1.66E-04	0.36	0.36		0.00E+00		0.29	0.29		0									6.46E-01	
Cumene	lb/yr				0.27	0.27				0.22	0.22		0									4.85E-01	
Cyanide	lb/yr				126.62	126.62				101.97	101.97		0									2.29E+02	
Dibenzofurans	lb/yr				1.02E-02	0.01				8.20E-03	0.01		0.119	0.119								1.84E-02	
Dichlorobenzene	lb/yr	0.03			2.43	2.43	0.03248772	9.51E-03		1.96	1.96		0									1.61E-01	
Dimethyl Sulfate	lb/yr				2.43	2.43				1.96	1.96		0									4.39E+00	
Ethyl Benzene	lb/yr	2.95E-05	1.98E-01		4.76	4.96		4.09E-06		3.83	3.83		1.46E-03	1.46E-03								8.80E+00	
Ethyl Chloride	lb/yr				2.13	2.13				1.71	1.71		0									3.84E+00	
Ethylene Dibromide	lb/yr				6.08E-02	0.06				4.89E-02	0.05		0									1.10E-01	
Ethylene Dichloride	lb/yr		1.86E-01	2.03	2.21					1.63	1.63		0									3.84E+00	
Ethylene Glycol	lb/yr					0				0	0		0									0.00E+00	
Ethylene Oxide	lb/yr					0				0	0		0									0.00E+00	
Flouride	lb/yr		1.35E-03			0.00		1.87E-04			0.00		6.66E-02	6.66E-02								6.82E-02	
Formaldehyde	lb/yr	2.03	1.73E-03	2.82E+01	85.85	116.04	5.94E-01	2.40E-04		68.13	68.73	7.465	8.57E-02	7.551							0.060	1.92E+02	
Glycol Ethers	lb/yr					0					0		0									0.00E+00	
Hexane	lb/yr	48.73			3.39	52.13	1.43E+01			2.73	17.00	179.168		179.168								2.48E+02	
Hydrogen Chloride	lb/yr			3.91E+01	16,700.49	16,739.64				13253.95	13253.95		0									3.00E+04	
Hydrogen Fluoride	lb/yr				300.09	300.09				238.16	238.16		0									5.38E+02	
Isophorone	lb/yr				29.38	29.38				23.66	23.66		0									5.30E+01	
Lead	lb/yr	0.01	4.55E-07	1.23E-03	2.30	2.31	3.96E-03	6.30E-08		1.82	1.83	0.050	2.25E-03	0.052							0.0068	4.20E+00	
Manganese	lb/yr	0.01	3.03E-07	4.10E-02	15.66	15.71	3.01E-03	4.20E-08		12.43	12.43	0.038	1.50E-03	0.039							0.0045	2.82E+01	
Mercury	lb/yr	0.01	1.52E-05	1.72E-03	1.09	1.10	2.06E-03	2.10E-06		0.87	0.87	0.026	7.50E-04	0.027							0.00227	2.00E+00	
Methyl Chloride	lb/yr			1.47E-01	26.84	26.99				21.62	21.62		0									4.86E+01	
Methyl Ethyl Ketone	lb/yr			3.46E-02	19.75	19.79				15.91	15.91		0									3.57E+01	
Methyl Bromide	lb/yr				8.10	8.10				6.53	6.53		0									1.46E+01	
Methyl Chloroform	lb/yr		8.52E-06	1.98E-01		1.98E-01	1.18E-06			1.18E-06	4.21E-04	4.21E-04										1.99E-01	
Methyl Hydrazine	lb/yr				8.61																		