University of North Carolina at Chapel Hill
Chapel Hill, North Carolina
Orange County
Facility ID # 6800043
Permit # 03069T38

2022 Annual Emissions Inventory **Facility Summary**

Pollutant	Units	Boiler #6				Boiler #6	Boiler #7				Boiler #7	Boiler #8		Boiler #8	Boiler #9		Boiler #9	Boiler #10		Boiler #10	Railcar Dump Pits	Coal Storage Silos	Coal Silo Conveyors	Sorbent Railcar Dump Pit	Ash Silo w/ Loadout	Coal Conveyor & Crusher Building	Non-Emergency Generators G1 & G2	Fuel Oil Storage Tanks Manning	Fuel Oil Storage Tanks Cogen	2022 Total
		Natural Gas	Fuel Oil	Wood	Coal	Total	Natural Gas	Fuel Oil	Wood	Coal	Total	Natural Gas	Fuel Oil	Total	Natural Gas	Fuel Oil	Total	Natural Gas	Fuel Oil	Total										
Criteria Pollutants																														
PM	tpy	1.81	0.00	0.00	5.87	7.69	1.80	0.00	0.00	4.83	6.63	0.26	3.15E-02	0.29	0.68	0.10	0.78	0.56	1.89E-02	0.57	2.43E-03	1.68E-03	1.68E-03	6.05E-03	0.84	0.26	0.15			33.19
PM-10	tpy	1.81	0.00	0.00	5.87	7.69	1.80	0.00	0.00	4.83	6.63	0.26	9.55E-03	0.27	0.68	3.18E-02	0.71	0.56	5.72E-03	0.56	1.15E-03	1.68E-03	1.68E-03	2.86E-03	0.84	0.26	0.15			32.97
PM-2.5	tpy	1.81	0.00	0.00	5.87	7.69	1.80	0.00	0.00	4.83	6.63	0.26	2.39E-03	0.26	0.68	7.95E-03	0.69	0.56	1.43E-03	0.56	3.61E-04	1.59E-03	1.59E-03	9.00E-04	0.80	0.25	0.15			32.84
NOx	tpy	26.64	0.00	0.00	26.14	52.78	28.72	0.00	0.00	25.44	54.16	1.90	0.07	1.97	3.98	0.18	4.17	3.70	3.77E-02	3.74							2.89			236.5
VOC	tpy	1.31	0.00	0.00	0.11	1.42	1.30	0.00	0.00	0.10	1.40	0.19	1.91E-03	0.19	0.49	6.36E-03	0.50	0.40	1.14E-03	0.40							0.12	3.24E-02	0.11	8.10
CO	tpy	20.05	0.00	0.00	5.55	25.61	19.91	0.00	0.00	5.13	25.04	2.84	4.78E-02	2.89	7.51	0.16	7.67	6.14	2.86E-02	6.17							0.39			135.1
SO2	tpy	0*	0.00	0*	80.55	80.55	0*	0.00	0*	79.48	79.48	2.03E-02	0.05	0.07	0.05	0.20	0.25	4.39E-02	3.54E-02	0.08							0.06			320.9
Greenhouse Gases																														
CO2	tpy	31,301	0.00	0.00	54,008	85,309	32,451	0.00	0.00	50,534	82,985	876.8	44.96	921.8	13,826	888.4	14,714	11,848	0.91	11,849							247.7			391,806
Methane	tpy	0.54	0.00	0.00	5.85	6.40	0.54	0.00	0.00	5.24	5.78	0.08	8.47E-03	0.09	0.20	2.82E-02	0.23	0.17	5.07E-03	0.17							1.00E-02			25.34
Nitrous Oxide	tpy	0.05	0.00	0.00	0.85	0.91	0.05	0.00	0.00	0.76	0.82	7.67E-03	1.69E-03	9.37E-03	2.03E-02	5.64E-03	2.59E-02	1.66E-02	1.01E-03	1.76E-02							2.01E-03			3.55
HAPs/TAPs																														
1,3 Butadiene	lb/yr					0.00					0.00			0.00			0.00			0.00										0.00
2,3,7,8-TCDD	lb/yr			0.00	2.76E-07	2.76E-07			0.00	2.50E-07	2.50E-07			0.00			0.00			0.00										1.05E-06
2,4-Dinitrotoluene	lb/yr				5.40E-03	5.40E-03				4.89E-03	4.89E-03			0.00			0.00			0.00										2.06E-02
2-Chloroacetophenone	lb/yr				0.14	0.14				0.12	0.12			0.00			0.00			0.00										0.51
Acetaldehyde	lb/yr			0.00	11.00	11.00			0.00	9.95	9.95			0.00			0.00			0.00							0.08			41.97
Acetic Acid	lb/yr					0.00					0.00			0.00			0.00			0.00										0.00
Acetophenone	lb/yr			0.00	0.29	0.29			0.00	0.26	0.26			0.00			0.00			0.00										1.10
Acrolein	lb/yr			0.00	5.60	5.60			0.00	5.06	5.06			0.00			0.00			0.00							2.39E-02			21.34
Ammonia	lb/yr	1,528				1,528	1,517				1,517	216.2		216.2	572.2		572.2	467.8		467.8										8,603
Antimony	lb/yr		0.00	0.00	0.16	0.16		0.00	0.00	0.14	0.14		0.00	0.00		0.00	0.00		0.00	0.00										0.59
Arsenic	lb/yr	0.10	0.00	0.00	0.15	0.24	0.09	0.00	0.00	0.13	0.23	1.35E-02	1.07E-02	2.42E-02	3.58E-02	3.56E-02	0.07	2.92E-02	6.41E-03	3.56E-02							1.22E-02			1.21
Benzene	lb/yr	1.00	0.00	0.00	25.09	26.09	1.00	0.00	0.00	22.68	23.68	0.14	0.05	0.19	0.38	0.17	0.55	0.31	3.15E-02	0.34							2.36			104.1
Benzo(a)pyrene	lb/yr			0.00	7.33E-04	7.33E-04			0.00	6.63E-04	6.63E-04			0.00			0.00			0.00							7.81E-04			3.57E-03
Benzyl Chloride	lb/yr				13.51	13.51				12.21	12.21			0.00			0.00			0.00										51.44
Beryllium	lb/yr	5.73E-03	0.00	0.00	2.55E-02	3.12E-02	5.69E-03	0.00	0.00	2.28E-02	2.85E-02	8.11E-04	8.02E-03	8.83E-03	2.15E-03	2.67E-02	2.89E-02	1.75E-03	4.81E-03	6.56E-03							9.11E-03			0.22
Biphenyl	lb/yr				3.28E-02	3.28E-02				2.97E-02	2.97E-02			0.00			0.00			0.00										0.12
Bis(2-ethylhexyl)phthalate (DEHP)	lb/yr				1.41	1.41				1.27	1.27			0.00			0.00			0.00										5.36
Bromine	lb/yr				3.96	3.96				3.55	3.55			0.00			0.00			0.00										15.01
Bromoform	lb/yr				0.75	0.75				0.68	0.68			0.00			0.00			0.00										2.87
Cadmium	lb/yr	0.53	0.00	0.00	0.07	0.59	0.52	0.00	0.00	0.06	0.58	0.07	8.02E-03	0.08	0.20	2.67E-02	0.22	0.16	4.81E-03	0.17							9.11E-03			3.30
Carbon Disulfide	lb/yr				2.51	2.51				2.27	2.27			0.00			0.00			0.00										9.55
Chlorine	lb/yr			0.00	52.13	52.13			0.00	46.72	46.72																			197.7
Chlorobenzene	lb/yr			0.00	0.42	0.42			0.00	0.38	0.38			0.00			0.00			0.00										1.62
Chloroform	lb/yr			0.00	1.14	1.14			0.00	1.03	1.03			0.00			0.00			0.00										4.34
Chromium	lb/yr	0.67	0.00	0.00	2.32	2.99	0.66	0.00	0.00	2.08	2.74	0.09	8.02E-03	0.10	0.25	2.67E-02	0.28	0.20	4.81E-03	0.21							9.11E-03			12.64
Chromic Acid VI	lb/yr	0.67	0.00		4.63E-03	0.67	0.66	0.00		4.15E-03	0.67	0.09	2.35E-03	0.10	0.25	7.84E-03	0.26	0.20	1.41E-03	0.21										3.80
Cobalt	lb/yr	4.01E-02	0.00	0.00	0.13	0.17	3.98E-02	0.00	0.00	0.12	0.16	5.68E-03	0.00	5.68E-03	1.50E-02		1.50E-02	1.23E-02	0.00	1.23E-02										0.73
Cumene	lb/yr				0.10	0.10				0.09	0.09			0.00			0.00			0.00										0.39
Cyanide	lb/yr				48.24	48.24				43.62	43.62			0.00			0.00			0.00										183.7
Dibenzofurans	lb/yr				3.88E-03	3.88E-03				3.51E-03	3.51E-03			0.00			0.00			0.00										1.48E-02
Dichlorobenzene	lb/yr	0.57				0.57	0.57				0.57	0.08		0.08	0.21		0.21	0.18		0.18										3.23
Dimethyl Sulfate	lb/yr				0.93	0.93				0.84	0.84			0.00			0.00			0.00										3.53
Ethyl Benzene	lb/yr		0.00	0.00	1.81	1.81		0.00	0.00	1.64	1.64		1.56E-02	1.56E-02		0.05	0.05		9.36E-03	9.36E-03										7.06
Ethyl Chloride	lb/yr				0.81	0.81				0.73	0.73			0.00			0.00			0.00										3.09
Ethylene Dibromide	lb/yr				2.32E-02	2.32E-02				2.09E-02	2.09E-02			0.00			0.00			0.00										0.09
Ethylene Dichloride	lb/yr			0.00	0.77	0.77			0.00	0.70	0.70			0.00			0.00			0.00										2.94
Ethylene Glycol	lb/yr					0.00					0.00			0.00			0.00			0.00										0.00
Ethylene Oxide	lb/yr					0.00					0.00			0.00			0.00			0.00										0.00
Fluoride	lb/yr		0.00			0.00		0.00			0.00		0.71	0.71		2.37	2.37		0.43	0.43										7.03
Formaldehyde	lb/yr	35.81	0.00	0.00	31.76	67.57	35.56	0.00	0.00	28.46	64.02	5.07	0.92	5.98	13.41	3.05	16.47	10.96	0.55	11.51							0.24			331.4
Glycol Ethers	lb/yr					0.00					0.00			0.00			0.00			0.00										0.00
Hexane	lb/yr	859.5			1.29	860.8	853.4			1.17	854.6	121.6		121.6	321.9		321.9	263.1		263.1										4,844
Hydrogen Chloride	lb/yr			0.00	5,261	5,261			0.00	6,488	6,488			0.00			0.00			0.00										23,500
Hydrogen Fluoride	lb/yr				111.0	111.0				99.49	99.49			0.00			0.00			0.00										421.0
Isophorone	lb/yr				11.19	11.19				10.12	10.12			0.00			0.00			0.00										42.62
Lead	lb/yr	0.24	0.00	0.00	0.85	1.09	0.24	0.00	0.00	0.76	1.00	3.38E-02	2.41E-02	0.06	0.09	0.08	0.17	0.07	1.44E-02	0.09							2.73E-02			4.83
Manganese	lb/yr	0.18	0.00	0.00	5.79	5.97	0.18	0.00	0.00	5.19	5.37	2.57E-02	1.60E-02	4.17E-02	0.07	0.05	0.12	0.06	9.62E-03	0.07							1.82E-02			23.16
Mercury	lb/yr	0.12	0.00	0.00	2.15E-02	0.15	0.12	0.00	0.00	3.36E-02	0.16	1.76E-02	8.02E-03	2.56E-02	4.65E-02	2.67E-02	0.07	3.80E-02	4.81E-03	4.28E-02							9.11E-03			0.90
Methyl Chloride	lb/yr			0.00	10.23	10.23			0.00	9.25	9.25			0.00			0.00			0.00										38.95
Methyl Ethyl Ketone	lb/yr			0.00	7.53	7.53			0.00	6.80	6.80			0.00			0.00			0.00										28.66
Methyl Bromide	lb/yr				3.09	3.09				2.79	2.79			0.00			0.00			0.00										11.76
Methyl Chloroform/ 1, 1, 1 Trichloroethane	lb/yr		0.00	0.00	0.39	0.39		0.00	0.00	0.35	0.35		4.51E-03	4.51E-03		1.50E-02	1.50E-02		2.70E-03	2.70E-03										1.51
Methyl Hydrazine	lb/yr				3.28	3.28				2.97	2.97			0.00			0.00			0.00										12.49
Methyl Methacrylate	lb/yr				0.39	0.39				0.35	0.35			0.00			0.00			0.00										1.47
Methyl Tert Butyl Ether	lb/yr				0.68	0.68				0.61	0.61			0.00			0.00			0.00										2.57
Methylene Chloride	lb/yr			0.00	5.60	5.60			0.00	5.06	5.06			0.00			0.00			0.00										21.31
Naphthalene	lb/yr	0.29	0.00	0.00	0.25	0.54	0.29	0.00	0.00	0.23	0.52	4.12E-02	6.36E-03	4.76E-02	0.11	2.12E-02	0.13	0.09	3.81E-03	0.09							0.39			3.05
Nickel	lb/yr	1.00	0.00	0.00	4.72	5.72	1.00	0.00	0.00	4.23	5.22	0.14	8.02E-03	0.15	0.38	2.67E-02	0.40	0.31	4.81E-03	0.31							9.11E-03			23.62
PAH	lb/yr					0.00					0.00			0.00			0.00			0.00							0.64			0.64
Phenol	lb/yr			0.00	0.31	0.31			0.00	0.28	0.28			0.00			0.00			0.00										1.18
Phosphorus	lb/yr			0.00	0.70	0.70			0.00	0.63	0.63																			2.67
POM	lb/yr	0.32	0.00	0.00	1.08	1.40	0.31	0.00	0.00	0.97	1.28	4.47E-02	0.06	0.11	0.12	0.21	0.33	0.10	3.78E-02	0.13										6.50
Propionaldehyde	lb/yr			0.00	7.33	7.33			0.00	6.63	6.63			0.00			0.00			0.00										27.93
Selenium	lb/yr	1.15E-02	0.00	0.00	0.10	0.12	1.14E-02	0.00	0.00	0.09	0.10	1.62E-03	4.01E-02	4.17E-02	4.29E-03	0.13	0.14	3.51E-03	2.40E-02	2.75E-02							4.56E-02			0.90
Styrene	lb/yr			0.00	0.48	0.48			0.00	0.44	0.44			0.00			0.00			0.00										1.84
Tetrachloroethylene (Perchloroethylene)	lb/yr				0.83	0.83				0.75	0.75			0.00			0.00			0.00										3.16
Toluene	lb/yr	1.62	0.00	0.00	4.63	6.25	1.61	0.00	0.00	4.19	5.80	0.23	1.52	1.75	0.61	5.07	5.68	0.50	0.91	1.41							0.85			42.64
Vinyl Acetate	lb/yr				0.15	0.15				0.13	0.13			0.00			0.00			0.00										0.56
Xylenes	lb/yr		0.00	0.00	0.71	0.71		0.00	0.00	0.65	0.65		2.68E-02	2.68E-02		0.09	0.09		1.60E-02	1.60E-02							0.59			3.57