

2004 ANNUAL STACK TEST RESULTS - Onondaga County, NY, Resource Recovery Facility

>>> Testing performed May 10-14, 2004	Average Measured Emissions			Permit	% of	Pass/
Constituent	Unit 1	Unit 2	Unit 3	Limit ¹	Limit ²	Fail?
					Facility Ave	(P/F)
Particulates (gr/dscf @ 7% O ₂)	0.00135	0.000804	0.00149	0.010	12.1	P
Particulates (mg/dscm)	3.09	1.84	3.41	27	10.3	P
Sulfur Dioxide (ppmdv @ 7% O ₂)	5.6	4.0	0.0	30	10.7	P
Sulfur Dioxide (lb/hr)	2.2	1.7	0.0	16.2	8.0	P
Nitrogen Oxides (ppmdv @ 7% O ₂)	168	168	167	180	93.1	P
Nitrogen Oxides (lb/hr)	50.6	49.1	49.4	58	85.7	P
Carbon Monoxide (ppmdv @ 7% O ₂)	7.1	7.8	11.6	45	19.6	P
Carbon Monoxide (lb/hr)	1.2	1.4	2.0	8.04	19.1	P
Polychlorinated Dibenzo-p-Dioxins and Furans						
(ng/dscm @ 7% O ₂) - Total	0.266	0.908	0.601	30	2.0	P
(ug/cm) - NY TEFs	4.75E-06	1.13E-05	7.87E-06	0.0004	2.0	P
(lb/hr) - NY TEFs	6.76E-10	1.66E-09	1.10E-09	1.29E-07	0.9	P
Hydrogen Chloride (ppmdv @ 7% O ₂)	3.97	4.09	3.16	25	15.0	P
Hydrogen Chloride (lb/hr)	0.82	0.940	0.71	5.24	15.7	P
HCl Removal Efficiency (%)	99.5	99.4	99.5	95 (min)		P
Ammonia (ppmdv @ 7% O ₂)	3.57	3.58	3.03	50	6.8	P
Ammonia (lb/hr)	0.35	0.38	0.32	4.88	7.2	P
Cadmium (mg/dscm @ 7% O ₂)	0.000366	0.000181	0.000173	0.04	0.6	P
Cadmium (lb/hr)	5.41E-05	2.72E-05	2.56E-05	1.90E-03	1.9	P
Lead (mg/dscm @ 7% O ₂)	0.00416	0.00247	0.00219	0.44	0.7	P
Lead (lb/hr)	6.14E-04	3.71E-04	3.23E-04	3.81E-02	1.1	P
Mercury (ug/dscm @ 7% O ₂)	4.25	2.32	1.89	28	10.1	P
Mercury (lb/hr)	0.000629	0.000349	0.000279	0.012	3.5	P
Mercury Removal Efficiency (%)	97.7	98.2	98.2	85 (min)		P
PM-10 (gr/dscf @ 7% O ₂)	0.00109	0.00179	0.00157	0.010	14.8	P
PM-10 (lb/hr)	0.359	0.638	0.539	3.16	16.2	P

¹ Permit limits obtained from Covanta Onndaga, LP, New York State Department of Environmental

Conservation Title V Permit Number 7-3142-00028/00009, issued 1/8/2002 with Modification 1 effective date 3/24/2003

² Calculated as the average of the three unit test runs (each unit result is an average of three replicate test runs) over the

Permit limit expressed as a percent

Units:

gr/dscf = grains per dry standard cubic foot

ppmdv = parts per million dry volume

lb/hr = pounds per hour

ng/dscm = nanograms (billionth's of a gram) per dry standard cubic meter

ug/dscm = micrograms (millionth's of a gram) per dry standard cubic meter

mg/dscm = milligrams (thousandth's of a gram) per dry standard cubic meter

all volumetric test results are reported at 7% oxygen (O₂)

min = minimum permit limit percentage

E = test result expressed in scientific notation (base 10)