

Q: What is the purpose of annual air emissions “stack” testing?

A: Stack testing is an important tool that measures the amount of regulated pollutants being emitted from a facility. Stack testing consists of a series of sampling events, in which a probe is inserted into the stack to collect a representative sample of the gases released, over a defined amount of time. Sampling and laboratory analysis must be conducted in accordance with New York State Department of Environmental Conservation (NYSDEC) and United States Environmental Protection Agency (USEPA) protocols. **NYSDEC oversees, and is generally onsite during stack testing at the WTE Facility.**

Q: How do the 2025 stack test results look?

A: The results from the 2025 stack testing indicate that the Facility is operating acceptably and that the air pollution control devices are functioning properly. As shown by the following graph, many of the tested constituents were considerably below the permit limit.

Q: Does the Facility conduct any other air emissions testing besides the annual stack testing?

A: Yes. The Facility has a continuous emission monitoring system (CEMS) that measures combustion efficiency, air pollution equipment performance and stack emissions. The CEMS monitors carbon monoxide, carbon dioxide, oxygen, sulfur dioxide, and nitrogen oxides (NOx) as well as opacity and combustion temperatures. The CEMS was recently expanded to also monitor hydrogen chloride.

Q: What is the status of the WTE Facility’s Air (Title V) Permit?

A: Pursuant to 621.11(L) of the Uniform Procedures Act and Section 401(2) of the State Administrative Procedure Act, an existing permit does not expire until the renewal process is complete. A complete and timely permit renewal application was submitted to NYSDEC. The Facility continues to operate under the NYSDEC air permit that was effective January 25, 2021 through January 24, 2026. The permit can be accessed on NYSDEC’s website at [this webpage](#).

Q: Who can I contact for more information?

A: For more detailed information on the test results please contact OCRRA’s Director of Engineering, Cristina Albunio, at 315.295.0743 or calbunio@ocrra.org.

2025 ANNUAL STACK TEST RESULTS

		Constituent	Average Measured Emissions¹			Permit	Pass/Fail	3-Boiler	% Permit
			Unit 1	Unit 2	Unit 3	Limit²	P/F	Average	Limit³
TESTED ANNUALLY	FEDERAL	Cadmium (mg/dscm @ 7% O₂)	0.000725	0.000262	0.000913	0.035	P	0.000633	2%
		Cadmium (lb/hr)	0.0001240	0.0000438	0.0001340	0.0019	P	0.0001006	5%
		Carbon Monoxide (lb/hr)	2.45	2.41	1.82	8.04	P	2.23	28%
		Dioxins/Furans (ng/dscm @ 7% O₂)	2.54	2.72	2.43	30	P	2.56	9%
		Hydrogen Chloride (ppmdv @ 7% O₂)	12.50	7.95	13.6	25	P	11.35	45%
		Hydrogen Chloride (lb/hr)	3.11	2.00	3.07	5.24	P	2.727	52%
		Hydrogen Chloride Removal Efficiency (%)	98.3	98.5	98.1	≥ 95	P	98.3	--
		Lead (mg/dscm @ 7% O₂)	0.00732	0.00240	0.00918	0.400	P	0.006300	2%
		Lead (lb/hr)	0.00125	0.000401	0.00135	0.0381	P	0.0010003	3%
		Mercury (lb/hr)	0.000150	< 0.000084	0.000149	0.004	P	0.0001275	3%
		Nitrogen Oxides (lb/hr)	38.9	34.9	43.2	58	P	39.0	67%
		Particulate (gr/dscf @ 7% O₂)	0.00159	0.000996	0.00170	0.010	P	0.001429	14%
		PM₁₀ (gr/dscf @ 7% O₂)	0.000332	0.00240	0.000588	0.010	P	0.001107	11%
		PM₁₀, Filterable (lb/hr)	0.135	0.906	0.196	3.16	P	0.412	13%
		Sulfur Dioxide (lb/hr)	1.08	1.01	3.87	16.2	P	1.99	12%
	STATE	Ammonia (ppmdv @ 7% O₂)	< 0.541	2.03	0.786	50	P	1.119	2%
		Ammonia (lb/hr)	< 0.0630	0.239	0.0827	4.88	P	0.1282	3%
		Dioxins/Furans-2,3,7,8 TCDD TEQ (ng/dscm @ 7% O₂)	0.0394	0.0424	0.0394	0.4	P	0.040400	10%
		Dioxins/Furans-2,3,7,8 TCDD TEQ (lb/hr)	0.0000000074	0.0000000068	0.00000000594	0.000000129	P	0.00000000669	5%
		Mercury (µg/dscm @ 7% O₂)	0.885	< 0.500	1.01	28	P	0.798	3%
		Mercury Removal Efficiency (%)	95.9	> 98.8	95.0	≥ 85	P	96.6	--

NOTES:

¹ Based on 3 test runs for each unit; used for compliance with permit limit.

² NYSDEC Title V Permit #7-3142-00028/00009

³ Based on 3-Boiler Average; informational only; not used for compliance.

UNITS:

gr/dscf = grains per dry standard cubic foot

ppmdv = parts per million dry volume

lb/hr = pounds per hour

dscm = dry standard cubic meter

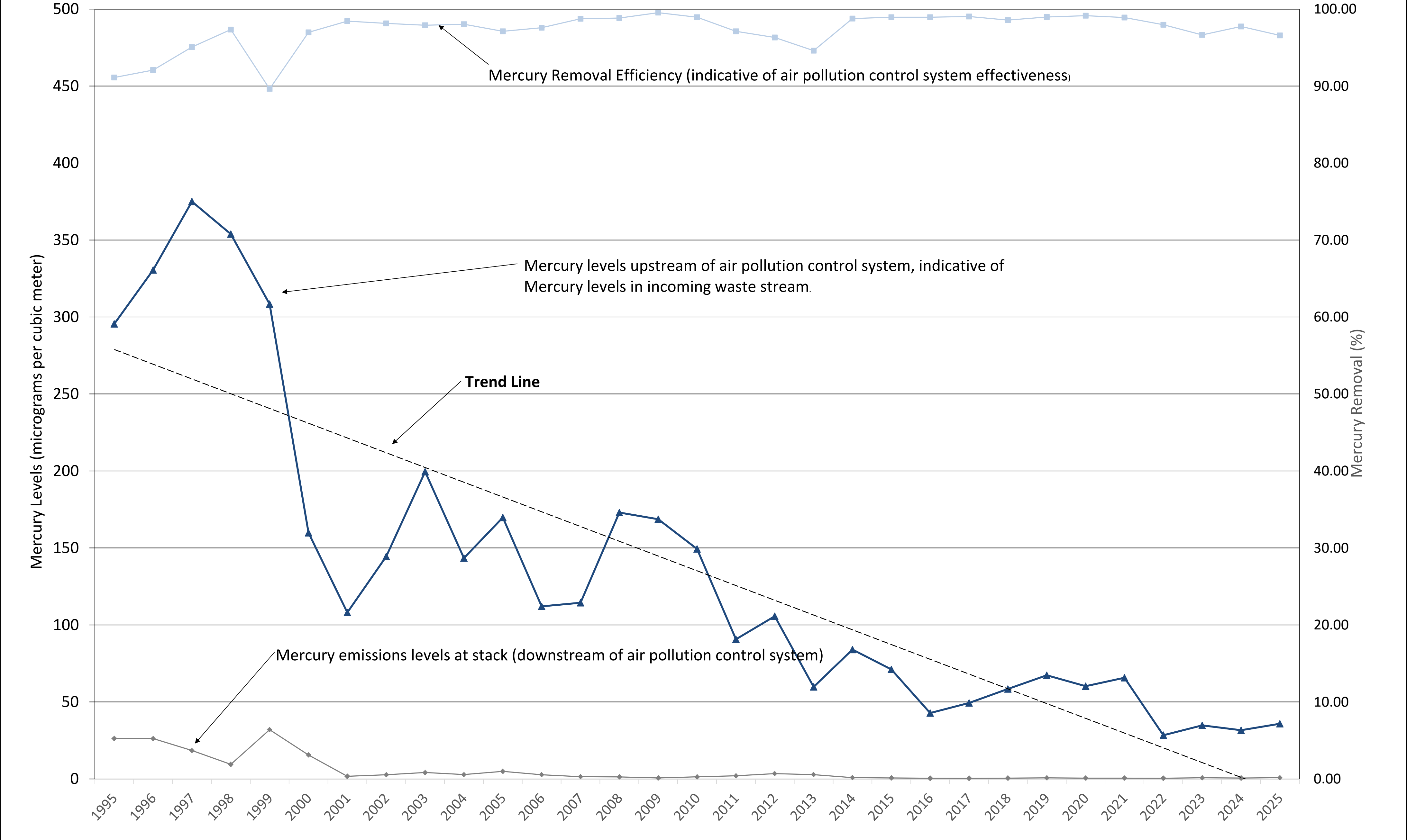
@ 7% O₂ = concentration corrected to 7% oxygen

ng = nanograms

µg = micrograms

mg = milligrams

Facility Mercury Emissions & Air Pollution Control System Effectiveness



Waste-to-Energy Facility Air Emissions as a Percentage of the Facility Permit Limits (Average of 3 Boiler Units)

2025 Air Emissions Results

30-Year Facility Average Results

