

Lower Eastern Shore Air Monitoring Project – February 2025 Summary

February 2025 Data Summary for NH₃

MDE 1-hour screening level = 350 ppb

Parameter	Site	Average hourly value (ppb)	Median hourly value (ppb)	Maximum hourly value (ppb)	Minimum hourly value (ppb)
NH ₃	Baltimore Co. NR (Urban, no poultry operations)	5.9	5.3	17.6	0.3
	Princess Anne (Low poultry operation density)	2.3	2.2	7.4	0
	Pocomoke City (High poultry operation density)	9.1	5	141.6	-1.4
	Harmony (High poultry operation density)	5.3	4.1	75.5	0.2

NAAQS: National Ambient Air Quality Standards

February 2025 Data Summary for PM_{2.5}

NAAQS PM_{2.5} 24-hour standard = 35 µg/m³

Parameter	Site	Average 24-hr value (µg/m ³)	Median 24-hr value (µg/m ³)	Maximum 24-hr value (µg/m ³)	Minimum 24-hr value (µg/m ³)
PM _{2.5}	Lake Montebello (Urban, no poultry operations)	7.8	7.2	13.5	3.9
	Princess Anne (Low poultry operation density)	5.5	5.4	10.8	2.4
	Pocomoke City* (High poultry operation density)	5.5	5.3	11.7	2.4
	Harmony (High poultry operation density)	5.9	5.7	11.7	2.6

NAAQS: National Ambient Air Quality Standards

February 2025 Data Summary for PM₁₀

NAAQS PM₁₀ 24-hour standard = 150 µg/m³

Parameter	Site	Average 24-hr value (µg/m ³)	Median 24-hr value (µg/m ³)	Maximum 24-hr value (µg/m ³)	Minimum 24-hr value (µg/m ³)
PM ₁₀	Lake Montebello* (Urban, no poultry operations)	NA	NA	NA	NA
	Princess Anne (Low poultry operation density)	8.9	8.6	16.6	4.2
	Pocomoke City* (High poultry operation density)	10.1	9.1	20	4.7
	Harmony (High poultry operation density)	10.6	10.6	21.3	4.5

NAAQS: National Ambient Air Quality Standards

* PM₁₀ measurements began at Lake Montebello on January 17, 2022, where measurements are taken using an FRM manual filter method. Data are included in the project-to-date summaries. Preliminary data - subject to change.