

Lower Eastern Shore Air Monitoring Project – May 2025 Summary

May 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	4.4	14.7	0.7
	Princess Anne (Low poultry operation density)	4.2	3.8	13.1	1
	Pocomoke City (High poultry operation density)	19.6	13.3	294.4	2.4
	Harmony (High poultry operation density)	6.2	5.5	19.5	1.4

NAAQS: National Ambient Air Quality Standards

May 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)	5.9	5.5	12.8	1.7
	Princess Anne (Low poultry operation density)	5.7	5.4	14.1	2.3
	Pocomoke City* (High poultry operation density)	4.3	3.8	12.4	1.2
	Harmony (High poultry operation density)	5.2	4.5	11	2.2

NAAQS: National Ambient Air Quality Standards

May 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)	12.9	11.8	28.3	5.7
	Pocomoke City* (High poultry operation density)	7.3	5.8	23	1.9
	Harmony (High poultry operation density)	12.8	11.5	25.9	6.2

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.