

Lower Eastern Shore Air Monitoring Project – August 2024 Summary

August 2024 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)	6.6	6.4	15.7	1.6
	Princess Anne (Low poultry operation density)	4	4.1	7.3	1.7
	Pocomoke City (High poultry operation density)	12.9	11.6	60.8	3.5
	Harmony (High poultry operation density)	7.4	7.1	19.6	2.6

NAAQS: National Ambient Air Quality Standards

August 2024 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)	7.2	7.3	13.7	0.9
	Princess Anne (Low poultry operation density)	10.1	9.6	17.1	4.3
	Pocomoke City* (High poultry operation density)	NA	NA	NA	NA
	Harmony (High poultry operation density)	8.2	7.1	18.1	3.2

NAAQS: National Ambient Air Quality Standards

* Pocomoke City T640 had data quality issues that rendered all August PM data invalid

August 2024 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)	19	19	27	11.8
	Pocomoke City* (High poultry operation density)	NA	NA	NA	NA
	Harmony (High poultry operation density)	17.3	15.8	31.4	8.6

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.