

Lower Eastern Shore Air Monitoring Project – February 2023 Summary

February 2023 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)	7.4	7	23.1	-0.1
	Princess Anne (Low poultry operation density)	4	3.9	10.2	1.3
	Pocomoke City (High poultry operation density)	8.9	6.4	77.3	1

February 2023 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)	6.9	6.3	12.5	3.4
	Princess Anne (Low poultry operation density)	7.7	6.8	14.9	3
	Pocomoke City (High poultry operation density)	7.1	6.5	14.5	2.9

NAAQS: National Ambient Air Quality Standards

February 2023 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)	12.2	11.6	22	5.7
	Pocomoke City (High poultry operation density)	12.7	12.3	22.5	5.8

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 on the project-to-data summaries