

Lower Eastern Shore Air Monitoring Project – March 2023 Summary

March 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)	6.2	5.8	22	0.6
	Princess Anne (Low poultry operation density)	4.7	4.6	10.9	2.1
	Pocomoke City (High poultry operation density)	11	7.6	114.1	-0.2

March 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)	5.5	5	17.5	1.4
	Princess Anne (Low poultry operation density)	7.4	6.9	14.4	3.1
	Pocomoke City (High poultry operation density)	6.8	6.8	12.3	3.5

NAAQS: National Ambient Air Quality Standards

March 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)	12.4	11.3	21	5.2
	Pocomoke City (High poultry operation density)	12.2	12.1	18.5	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

Note: Preliminary data – subject to change.