

Lower Eastern Shore Air Monitoring Project – October 2024 Summary

October 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)	7.8	7.5	20.3	0.6
	Princess Anne (Low poultry operation density)	3.8	3.8	8.4	1.1
	Pocomoke City (High poultry operation density)	7.6	6.8	30.3	-0.3
	Harmony (High poultry operation density)	6.9	6.2	50	0.6

NAAQS: National Ambient Air Quality Standards

October 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	6.4	15.6	2.1
	Princess Anne (Low poultry operation density)	5.3	5.4	10.4	2.2
	Pocomoke City* (High poultry operation density)	5.8	5.7	11.6	2.5
	Harmony (High poultry operation density)	5.2	4.9	9.9	2.5

NAAQS: National Ambient Air Quality Standards

October 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)	13.3	12.9	24.2	6.9
	Pocomoke City* (High poultry operation density)	14.1	13.7	26.6	7.3
	Harmony (High poultry operation density)	16.5	16.2	27.7	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.