

Lower Eastern Shore Air Monitoring Project – April 2020 – May 2026 Summary

April 2020 – May 2026

Data Summary for NH₃ (MDE 1-hour screening level = 350 ppb)

Site	Average hourly value (ppb)	Median hourly value (ppb)	Maximum hourly value (ppb)	Minimum hourly value (ppb)	% complete
Baltimore Co. NR* (Urban, no poultry operations)	6.1	5.8	26.1	-3.1	90
Princess Anne (Low poultry operation density)	4	3.5	336.2	-1	91
Pocomoke City (High poultry operation density)	10.5	7.8	554.1	-1.4	91

* NH₃ measurements began at Baltimore County Near Road on December 1, 2021.

April 2020 – May 2026 Data Summary for PM_{2.5} (NAAQS PM_{2.5} 24-hour standard = 35 µg/m³)

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)	% complete
Lake Montebello* (Urban, no poultry operations)	7.4	6.5	114.3	-1.2	95
Princess Anne (Low poultry operation density)	7.1	6.3	131.6	0.5	96
Pocomoke City (High poultry operation density)	6.7	5.8	109.8	0.9	86

* PM_{2.5} measurements began at Lake Montebello on January 1, 2022.

April 2020 – May 2026 Data Summary for PM₁₀ (NAAQS PM₁₀ 24-hour standard = 150 µg/m³)

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)	% complete
Lake Montebello* (Urban, no poultry operations)	12.8	11.2	101.1	2.8	100
Princess Anne (Low poultry operation density)	12.9	12.2	160.2	1	96
Pocomoke City (High poultry operation density)	12.6	11.9	131.4	1.1	86

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 presented here are through April 1, 2026.

Note: Preliminary data – subject to change.

Lower Eastern Shore Air Monitoring Project – Full Period of Record Data Summaries for Inactive Sites

Full Period of Record Data Summary for inactive NH₃ sites

Site	Average hourly value (ppb)	Median hourly value (ppb)	Maximum hourly value (ppb)	Minimum hourly value (ppb)	% complete
Horn Point* (Rural, no poultry operations)	2.1	2.1	9.4	0.1	87
Oldtown** (Urban, no poultry operations)	6.8	7	27.1	-0.1	90
Harmony*** (High poultry operation density)	6.5	5.7	75.5	-0.5	91

Full Period of Record Data Summary for inactive PM_{2.5} sites

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)	% complete
Horn Point* (Rural, no poultry operations)	5	4.7	16.7	-1	95
Oldtown** (Urban, no poultry operations)	7.1	6.4	28.7	0.7	93
Harmony*** (High poultry operation density)	6.4	5.6	22.1	1	99

Full Period of Record Data Summary for inactive PM₁₀ sites

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)	% complete
Horn Point* (Rural, no poultry operations)	8.1	7	20	1.2	100
Oldtown** (Urban, no poultry operations)	13	12	40	2.6	100
Harmony*** (High poultry operation density)	13.4	12.7	37.9	2.6	95

* As of May 14, 2021, NH₃ and PM₁₀ measurements at Horn Point have been discontinued.

** As of November 19, 2021, NH₃ and PM₁₀ measurements at Oldtown have been discontinued; During January 2022, PM_{2.5} was moved from Oldtown to Lake Montebello.

*** As of March 31, 2026, NH₃, PM_{2.5}, and PM₁₀ measurements at Harmony have been discontinued.