Lower Eastern Shore Air Monitoring Project – April 2020-March 2024 Summary

April 2020 – March 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)	6.3	6	24.8	-1.2
	Princess Anne (Low poultry operation density)	4.2	3.5	336.2	-1
	Pocomoke City (High poultry operation density)	10.5	7.6	544.1	-1

NAAQS: National Ambient Air Quality Standards

April 2020 – March 2024 Data Summary for PM_{2.5} NAAQS PM_{2.5} 24-hour standard = 35 μg/m³

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Parameter	Site	Average 24-hr value (μg/m³)	Median 24-hr value (μg/m³)	Maximum** 24-hr value (μg/m³)	Minimum 24-hr value (μg/m³)
PM _{2.5}	Lake Montebello* (Urban, no poultry operations)	7.5	6.3	114.3	-1.2
	Princess Anne (Low poultry operation density)	7.7	6.7	131.6	0.9
	Pocomoke City (High poultry operation density)	7.3	6.3	109.8	1.5

NAAQS: National Ambient Air Quality Standards

April 2020 – March 2024 Data Summary for PM₁₀ NAAQS PM₁₀ 24-hour standard = 150 μg/m³

Parameter	Site	Average 24-hr value (µg/m³)	Median 24-hr value (μg/m³)	Maximum** 24-hr value (μg/m³)	Minimum 24-hr value (μg/m³)
PM ₁₀	Lake Montebello* (Urban, no poultry operations)	13	11.4	101.1	2.8
	Princess Anne (Low poultry operation density)	14.1	13.2	160.2	2.1
	Pocomoke City (High poultry operation density)	13.8	12.8	131.4	2.2

NAAQS: National Ambient Air Quality Standards

Note: Preliminary data - subject to change.

^{*} NH₃ measurements began at Baltimore County Near Road on December 1, 2021

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

^{**} Historically high PM values were observed during June 2023 Canadian wildfire smoke events

^{*} PM_{10} measurements began at Lake Montebello on January 17, 2022, where measurements are taken using an FRM manual filter method. Data presented here are through February 1, 2024.

^{**} Historically high PM values were observed during 2023 Canadian wildfire smoke events

Full Period of Record Data Summary for Inactive Sites

Parameter	Site	Average 1-hr value (μg/m³)	Median 1-hr value (μg/m³)	Maximum 1-hr value (μg/m³)	Minimum 1-hr value (μg/m³)
NH ₃	Horn Point* (Rural, no poultry operations)	2.1	2.1	9.4	0.1
	Oldtown** (Urban, no poultry operations)	6.8	7	27.1	-0.1
Parameter	Site	Average 24-hr value (μg/m³)	Median 24-hr value (μg/m³)	Maximum 24-hr value (μg/m³)	Minimum 24-hr value (μg/m³)
PM _{2.5}	Horn Point* (Rural, no poultry operations)	5	4.7	16.7	-1
	Oldtown** (Urban, no poultry operations)	7.1	6.4	28.7	0.7
PM ₁₀	Horn Point* (Rural, no poultry operations)	8.1	7	20	1.2
	Oldtown** (Urban, no poultry operations)	13	12	40	2.6

^{*} As of May 14, 2021, NH₃, PM_{2.5}, and PM₁₀ measurements at Horn Point have been discontinued

^{**} As of November 19, 2021, NH_3 and PM_{10} measurements at Oldtown have been discontinued; During January 2022, $PM_{2.5}$ was moved from Oldtown to Lake Montebello