

Lower Eastern Shore Air Monitoring Project – April 2020-June 2021 Summary

April 2020 – June 2021 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	Oldtown (Urban, no poultry operations)	6.7	6.5	26.9	-0.1
	Horn Point* (Rural, no poultry operations)	2.1	2.1	9.4	0.1
	Princess Anne (Low poultry operation density)	5.7	4.9	123.6	0
	Pocomoke City (High poultry operation density)	11.5	8.5	218.7	0.2

April 2020 – June 2021 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}	Oldtown (Urban, no poultry operations)	6.6	6	25.1	0.8
	Horn Point* (Rural, no poultry operations)	5	4.7	16.7	-1
	Princess Anne (Low poultry operation density)	7.2	6.6	24.6	1.5
	Pocomoke City (High poultry operation density)	7	6.3	22.6	1.9

April 2020 – June 2021 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	Oldtown** (Urban, no poultry operations)	13.8	12.3	40	2.6
	Horn Point* (Rural, no poultry operations)	8.0	7	20	1.1
	Princess Anne (Low poultry operation density)	13.7	13	35.8	3.2
	Pocomoke City (High poultry operation density)	13.9	13.2	40.8	4.2

* Horn Point Ammonia, PM_{2.5} and PM₁₀ operated from April 1, 2020 through April 30, 2021, and were all discontinued in May of 2021.

**Oldtown measure PM₁₀ with an FRM manual filter method. Values shown are through May 11, 2021.

NAAQS: National Ambient Air Quality Standards