

Lower Eastern Shore Air Monitoring Project – October 2023 Summary

October 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) | 6.7 | 6.3 | 18.6 | -0.1 |
| | Princess Anne (Low poultry operation density) | 2.2 | 2 | 11.1 | -0.3 |
| | Pocomoke City (High poultry operation density) | 9.3 | 7.5 | 51.4 | 0 |

October 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) | 5.4 | 5.5 | 13.2 | 0.5 |
| | Princess Anne (Low poultry operation density) | 6.1 | 4.7 | 13.7 | 1.9 |
| | Pocomoke City (High poultry operation density) | 5.9 | 4.7 | 15.5 | 2 |

NAAQS: National Ambient Air Quality Standards

October 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 | 10.1 | 26.2 | 4.5 |
| | Pocomoke City (High poultry operation density) | 12.6 | 11 | 28.9 | 5.4 |

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.