

June 13, 2024

Dr. Michelle Aquino
Superintendent
North Plainfield School District
33 Mountain Avenue
North Plainfield, NJ 07060

Dear Dr. Aquino

This report summarizes the results of the June 5th – 6th, 2024 mercury air monitoring of the Somerset Intermediate School gym for mercury vapors. Evaluation criteria are identical to those previously reported and will not be repeated herein.

Methods

The following methods were followed during this assessment:

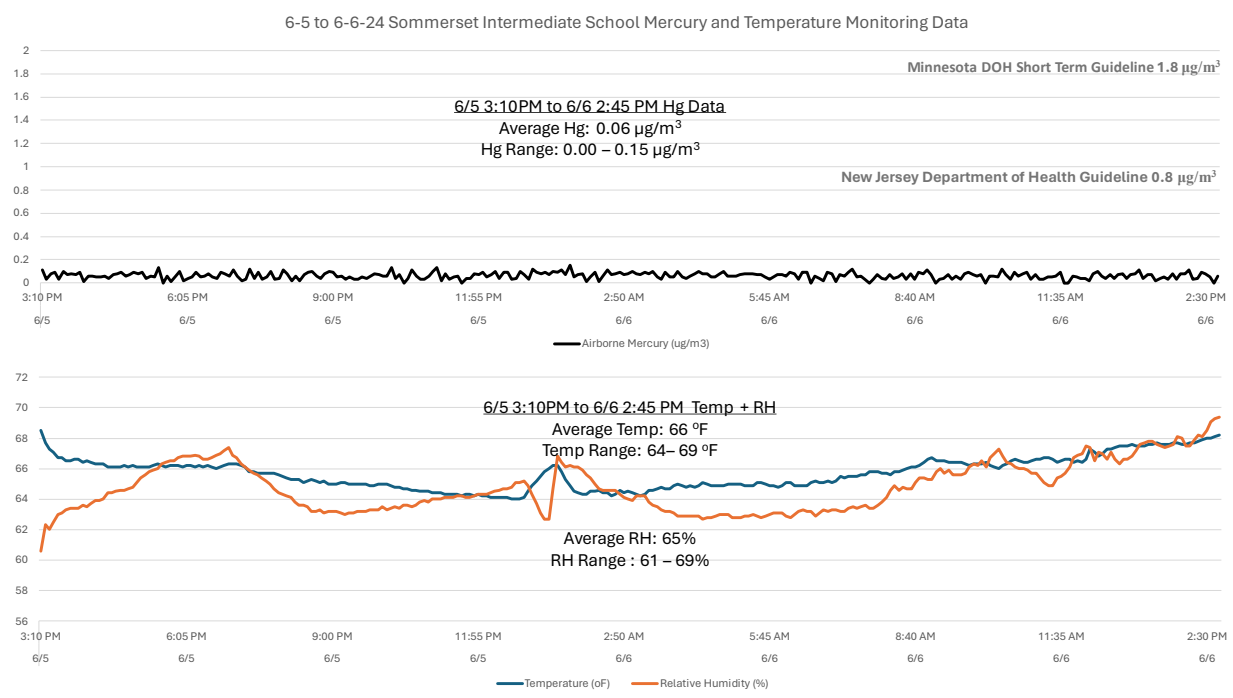
1. Continuous air monitoring was conducted within the gym during normal occupancy by students and staff between approximately 3:10 PM on June 5th to 2:45 PM on June 6th, 2024
2. All mercury air monitoring was conducted using a calibrated Jerome J505 Mercury Vapor Analyzer with a reported detection limit of 0.05 $\mu\text{g}/\text{m}^3$ which reads as low as 0.00 $\mu\text{g}/\text{m}^3$ with a resolution of 0.01.
3. Temperature and humidity were monitored over the same period using a TSI Q-Trak 7575 IAQ monitor.

Findings

Findings revealed the following:

- Outdoor airborne mercury was measured at approximately 0.02 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). The outdoor temperature ranged between 66-86°F during the inspection.
- Airborne mercury levels measured in the gym between 3:10 PM on June 5th to 2:45 PM on June 6th, 2024, **averaged 0.06 $\mu\text{g}/\text{m}^3$ (range 0.00 to 0.15 $\mu\text{g}/\text{m}^3$); well below the NJDOH Guideline of 0.8 $\mu\text{g}/\text{m}^3$.**
- Gym temperature averaged 66°F (range 64-69 °F) during this monitoring period. Relative humidity averaged 65%.

Figure #1 below shows details of continuous monitoring results.



Conclusions and Recommendations

Based upon the above, airborne mercury levels within the Somerset Intermediate School gym during our June 2024 quarterly air monitoring averaged 0.06 $\mu\text{g}/\text{m}^3$ substantially lower than NJ Department of Health guideline of 0.8 $\mu\text{g}/\text{m}^3$.

Thank you for the opportunity to assist you with the evaluation. Please contact me with any questions at (856)764-3557.

Sincerely,
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