ESMCORP
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January 27, 2026

Mr. Kelvin White
Director, Facilities
North Plainfield School District
33 Mountain Avenue
North Plainfield, NJ 07060

Dear Mr. White,

This report summarizes the results of the January 22-23, 2026 mercury air monitoring of the Somerset Intermediate School gym for mercury vapors. Evaluation criteria and methods are identical to those previously reported and will not be repeated herein.

I. Methods

The following methods were followed during this assessment:

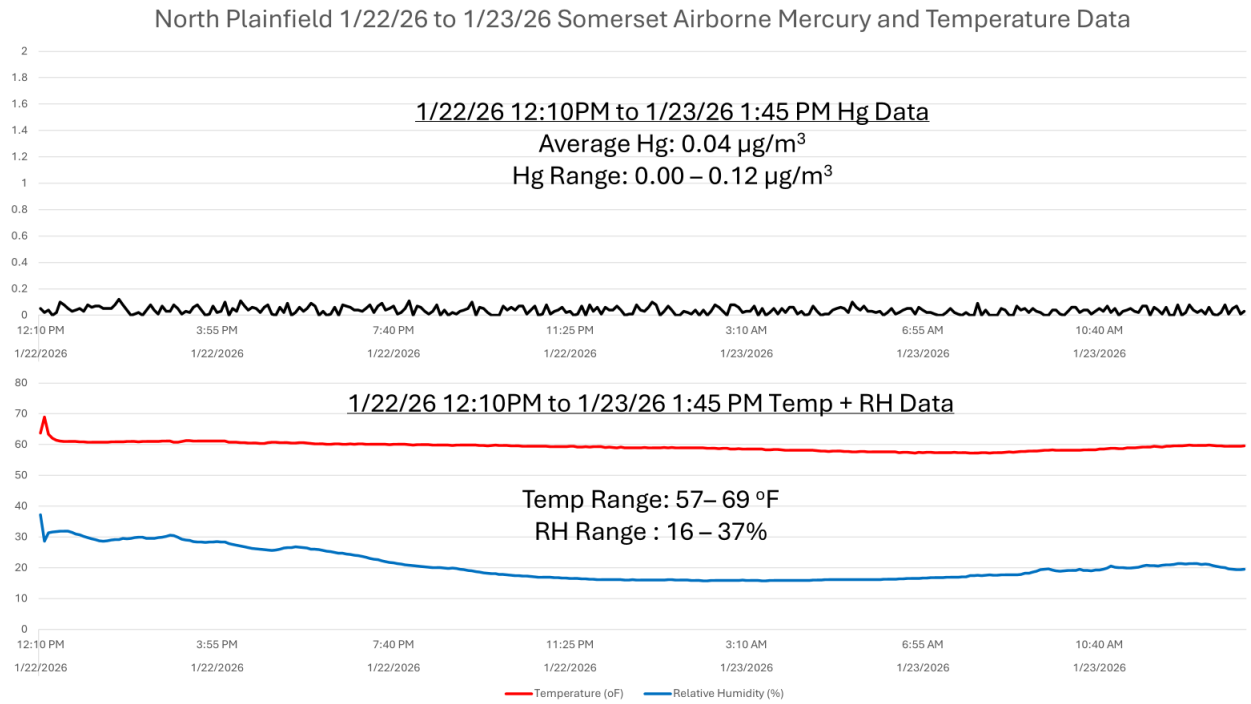
1. Continuous air monitoring was conducted within the gym during normal occupancy by students and staff between approximately 12:10 PM on January 22 to 1:45 PM PM on January 23, 2026.
2. All mercury air monitoring was conducted using a calibrated Jerome J505 Mercury Vapor Analyzer with a reported detection limit of 0.05 $\mu g/m^3$ which reads as low as 0.00 $\mu g/m^3$ with a resolution of 0.01.
3. Temperature and humidity were monitored over the same period using a TSI Q-Trak 7575 IAQ monitor.

II. Findings

Findings revealed the following:

- Outdoor airborne mercury was measured at approximately 0.01 micrograms per cubic meter ($\mu g/m^3$). The outdoor temperature ranged between 24-37°F during the inspection period.
- Airborne mercury levels measured in the gym **averaged 0.04 $\mu g/m^3$ (range 0.00 to 0.12 $\mu g/m^3$); well below the NJDOH Guideline of 0.8 $\mu g/m^3$.**
- Gym temperature was lower than normal ranging as low a 59-60°F during the assessment. It is our understanding that this was due to a **recent railed heating pump within the gym which is in the process of being repaired.** Relative humidity averaged 16-37%, consistent with NJ Department of Health guidelines.

Figure #1 below shows details of continuous monitoring results.



III. Conclusions and Recommendations

Based upon the above, airborne mercury levels within the Somerset Intermediate School gym during our January 2026 quarterly air monitoring averaged 0.04 µg/m^3; substantially lower than the NJ Department of Health guideline of 0.8 µg/m^3. No unusual mercury exposure hazard is suggested for students, staff or visitors.

Recommendations

1. **Repair gym HVAC heat pump unit to increase gym temperature to an average 68°F** consistent with NJDOH guidelines during the winter season.
2. Our next routine monitoring will be scheduled for March 2026.

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

Sincerely,

Richard M. Lynch

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