

March 10, 2025

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 February 27-28, 2025 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.

## Methods

The following methods were followed during this assessment:

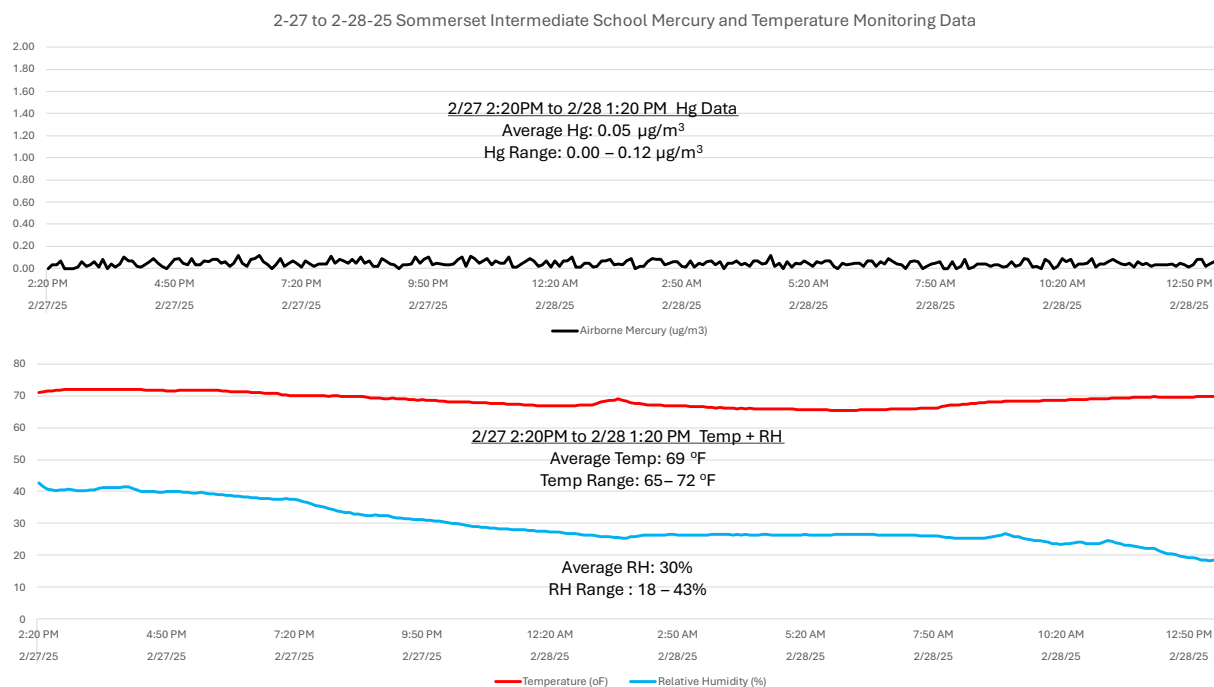
1. Continuous air monitoring was conducted within the gym during normal occupancy by students and staff between approximately 2:00 PM on February 27 through 1:00PM on February 28, 2025.
2. All mercury air monitoring was conducted using a calibrated Jerome J505 Mercury Vapor Analyzer with a reported detection 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 0.01 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ). The outdoor temperature ranged between 31-40°F during the inspection.
- Airborne mercury levels measured in the gym over the approximate 23-hour February 27-28, 2025 continuous monitoring period, **averaged  $0.05 \mu\text{g}/\text{m}^3$  (range 0.00 to 0.12  $\mu\text{g}/\text{m}^3$ ); well below the NJDOH Guideline of  $0.8 \mu\text{g}/\text{m}^3$ .**
- Gym temperature averaged 69°F (range 65-72 °F) during this monitoring period. Relative humidity averaged 30%,

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 February 2025 3<sup>rd</sup> quarter air monitoring averaged  $0.05 \mu\text{g}/\text{m}^3$ ; substantially lower than NJ Department of Health guideline of  $0.8 \mu\text{g}/\text{m}^3$ . No unusual mercury exposure hazard is suggested for students, staff or visitors.

### Recommendations

Based upon these findings, continue to operate the gym's HVAC system under the current fresh air introduction settings during the remainder of the winter 2024 season

Our next routine mercury monitoring will be scheduled during the May/June 2025 period.

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

Sincerely,  
*Richard A. Lynch*  
Richard A. Lynch, MBA, CIH, CIEC  
Certified Industrial Hygienist  
NJ Licensed Indoor Environmental Consultant  
[www.esmcorp.com](http://www.esmcorp.com)

Reviewed and Authorized:  
*Richard M. Lynch*  
Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHFM  
NJ Licensed Indoor Environmental Consultant  
President, ESMCorp  
[rylynch@esmcorp.com](mailto:rylynch@esmcorp.com)