

December 15, 2023

Dr. Tracy Handerhan,
Superintendent
Wall Township Schools
1620 18th Ave
Wall Township, NJ 07719

Dear. Dr. Handerhan,

This report summarizes the results of our December 5th – 6th, 2023 Mercury monitoring of the Wall Township High School Gym for airborne mercury vapors. This assessment was conducted as part of the Wall Township Schools Mercury Management program.

Methods

The following methods were followed during this assessment:

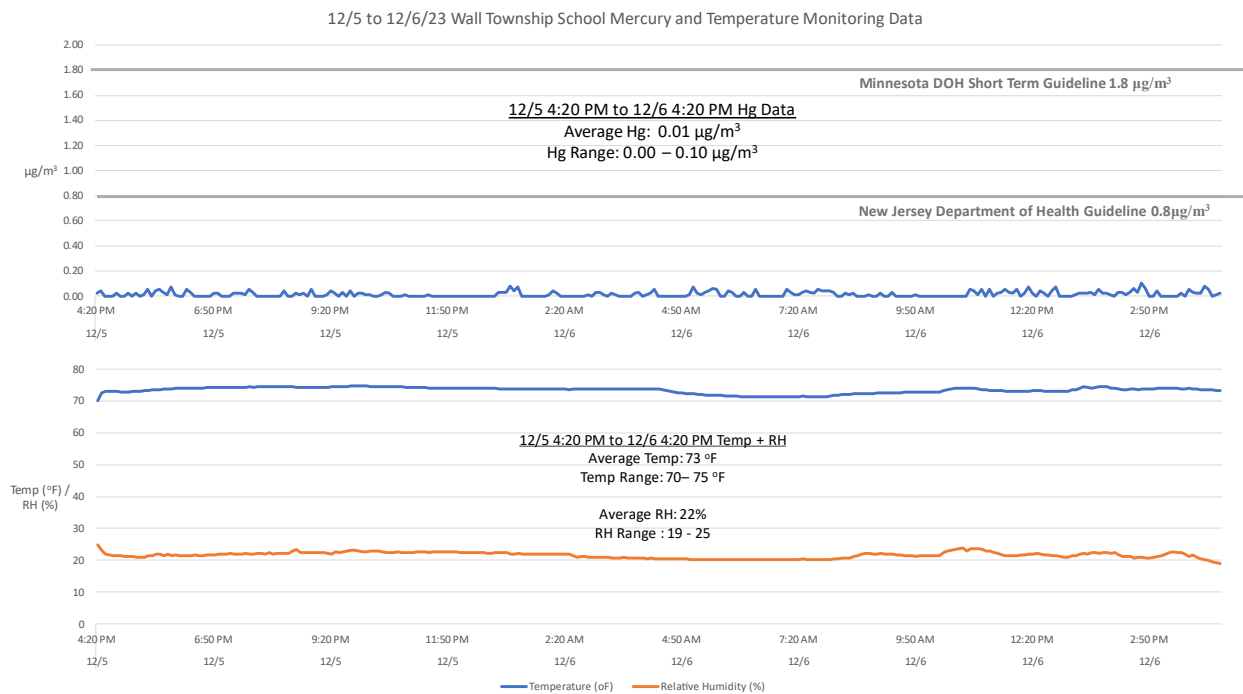
- Continuous air monitoring was conducted over an approximate 24-hour period within the gym between approximately 4:20 PM on December 5th, 2023 and 4:20 PM on December 6th, 2023.
- All mercury air monitoring was conducted using a calibrated Jerome J505 Mercury Vapor Analyzer with a reported detection 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.
- Temperature and humidity were measured using a TSI Q Trak VelociTrak IAQ Meter.

Findings

Findings revealed the following:

- Outdoor airborne mercury was at approximately 0.01 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). Outdoor temperature ranged between approximately 33 to 43°F over the course of the inspection.
- Airborne mercury levels measured near the gym center at the bleachers between December 5th – 6th, 2023 monitoring period, **averaged, 0.01 $\mu\text{g}/\text{m}^3$ (range 0.00 - 0.10 $\mu\text{g}/\text{m}^3$)**; well below the NJDOH Guideline of 0.8 $\mu\text{g}/\text{m}^3$.
- Gym temperature averaged 73°F (range 70-75 °F) during this monitoring period. Relative humidity averaged 22%.

Figure #1 below displays the results of the mercury, temperature, and humidity findings over the monitoring period.



Conclusions and Recommendations

Based upon the above, airborne mercury levels within the Wall Township High School gym between December 5th – 6th, 2023 monitoring period averaged 0.01 ug/m³: significantly lower than the NJ Department of Health guideline of 0.8 ug/m³.

Recommendations

1. Routine periodic non-abrasive custodial cleaning of the gym should continue.
2. Continue to operate the gym's air handling system to introduce outdoor air while maintaining low interior temperatures.

Thank you for the opportunity to assist you with the evaluation. Our next mercury monitoring will be scheduled for May/June 2024. Please contact me with any questions at (856)764-3557.

Sincerely,
Richard A. Lynch
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