

December 23, 2021

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 2021 Mercury inspection of the Wall Township High School Gym for airborne mercury vapors. This inspection was conducted over an approximate 24 hour period between December 14-15, 2021. The purpose of this mercury monitoring was to determine airborne mercury levels within the gym during the fall winter season transition.

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:

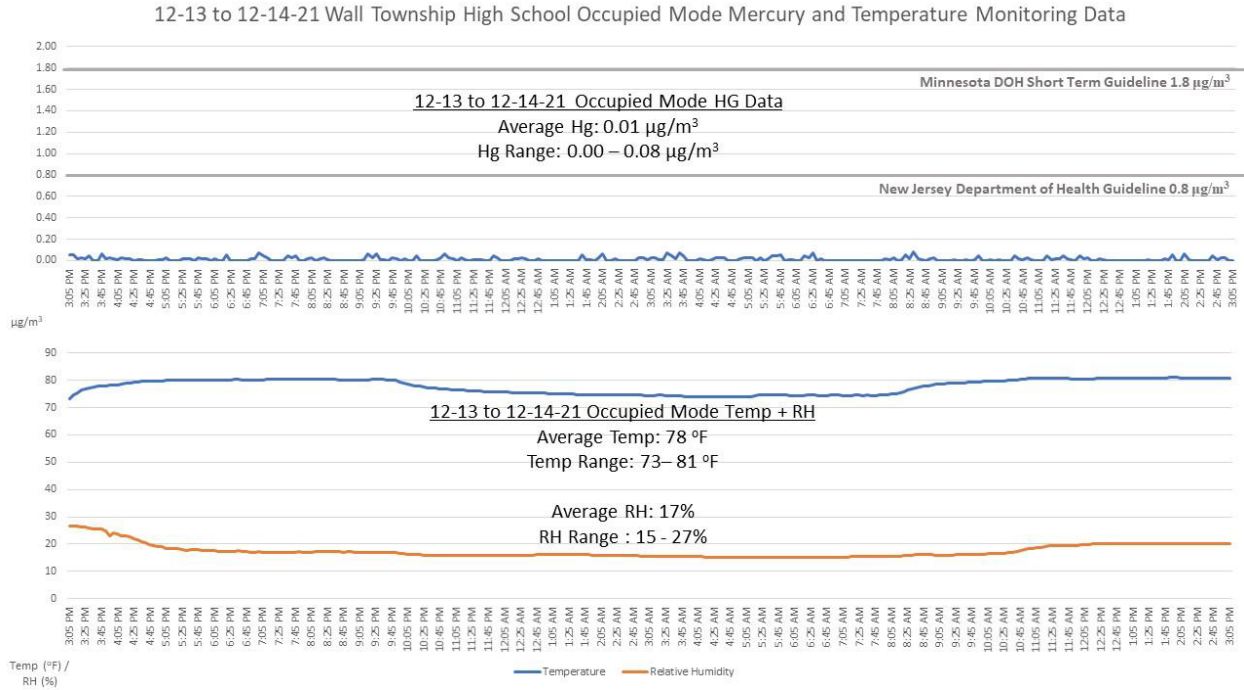
- Continuous air monitoring was conducted within the gym between approximately 03:05PM on December 14th, 2021 and 3:05PM on December 15th, 2021.
- All mercury air monitoring was conducted using a calibrated Jerome J505 Mercury Vapor Analyzer with a reported detection limit of 0.05 $\mu\text{g}/\text{m}^3$ 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

II. Findings

Findings revealed the following:

- Outdoor airborne mercury was at approximately 0.02 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).
- Airborne mercury levels measured within the gym between December 14th, 2021 and December 15th, 2021 **averaged, 0.01 $\mu\text{g}/\text{m}^3$ (range 0.00 - 0.08 $\mu\text{g}/\text{m}^3$)**; well below the NJDOH Guideline of 0.8 $\mu\text{g}/\text{m}^3$.
- Gym temperature averaged 78°F and ranged from 73 - 81 °F during this monitoring period (*measured temperature may have been artificially elevated due to relocation of temperature probe during monitoring*). Relative humidity averaged 17%.

Figure #1 below displays the results of the mercury, temperature, and humidity findings over the 24-hour monitoring period.



III. Conclusions and Recommendations

Based upon the above, airborne mercury levels within the Wall Township High School gym during the 24-hour December 14-15, 2021 monitoring period averaged 0.01 ug/m³: significantly lower than the NJ Department of Health guideline of 0.8 ug/m³.

Recommendations

1. Continue to operate the gym’s air handling unit in the 24/7 occupied mode.
2. Periodic non-abrasive custodial cleaning of the gym should continue.
3. Our next monitoring will be conducted in March 2022

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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 NJ Licensed Indoor Environmental Consultant
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Reviewed and Authorized:
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