

March 31, 2022

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

Dear. Dr. Handerhan,

This report summarizes the results of our March 2022 Mercury monitoring of the Wall Township High School Gym for airborne mercury vapors. This monitoring was conducted between March 14-15, 2022. The purpose of this mercury monitoring was to determine airborne mercury levels within the gym during the winter/spring transition season. 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:

- Continuous air monitoring was conducted within the gym between approximately 1:35PM on March 14th, 2022 and 2:35PM on March 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. Temperature and relative humidity measurements stopped recording around midnight on March 14th.

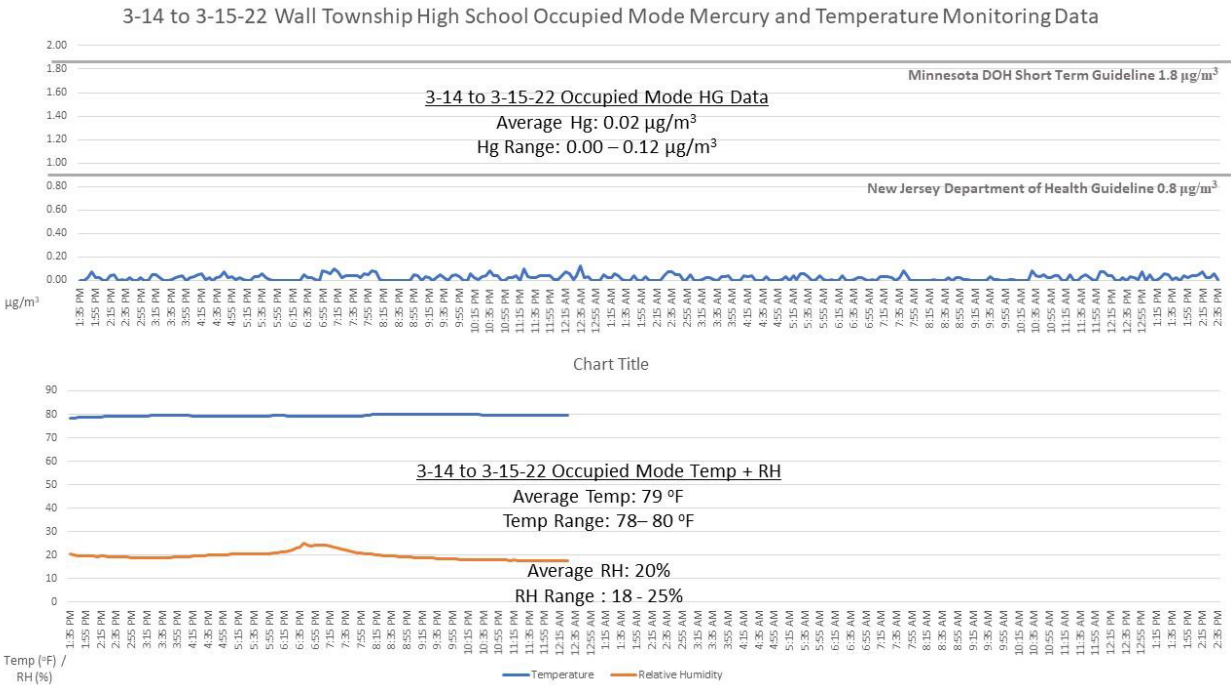
Findings

Findings revealed the following:

- Outdoor airborne mercury was at approximately 0.01 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).
- Airborne mercury levels measured near the gym center between March 14th, 2021 and March 15th, 2021 **averaged, 0.02 $\mu\text{g}/\text{m}^3$ (range 0.00 - 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 79°F and ranged from 78 - 80 °F during this monitoring

period . Relative humidity averaged 20%.

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 during the March 14th - March 15th, 2022 monitoring period averaged 0.02 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 June 2022

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
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 Industrial Hygienist
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