

June 9, 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 June 2-3, 2022 Mercury inspection of the Wall Township High School Gym for airborne mercury vapors. The purpose of this mercury monitoring was to determine airborne mercury levels within the gym while transitioning into the summer 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 over an approximate 24-hour period within the gym between approximately 2:10PM on June 2<sup>nd</sup>, 2022 and 2:15PM on June 3<sup>rd</sup>, 2022.
- 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 14<sup>th</sup>.

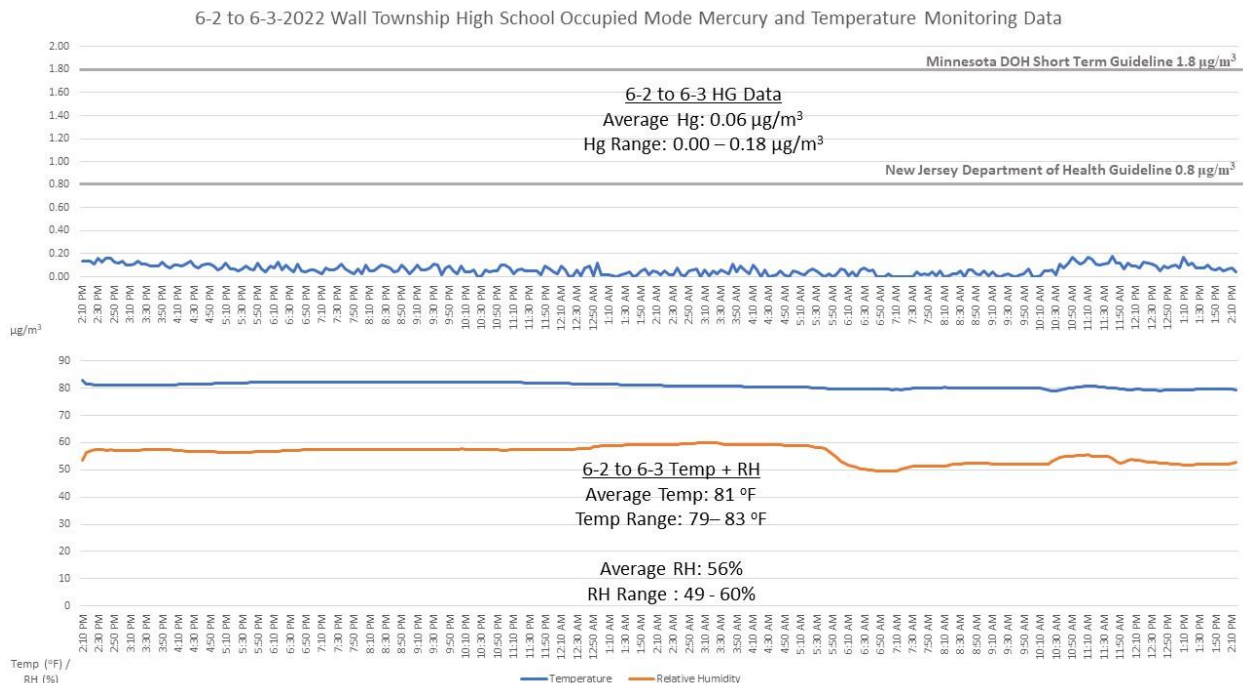
## Findings

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 near the gym center at the bleachers between June 2<sup>nd</sup>, 2022 and June 3<sup>rd</sup>, 2022 during the monitoring period **averaged, 0.06  $\mu\text{g}/\text{m}^3$  (range 0.00 - 0.18  $\mu\text{g}/\text{m}^3$ )**; well below the NJDOH Guideline of 0.8  $\mu\text{g}/\text{m}^3$ .
- Gym temperature averaged 81°F and ranged from 79 - 83 °F during this monitoring

period . Relative humidity averaged 56%.

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 June 2<sup>nd</sup>, 2022 and June 3<sup>rd</sup>, 2022 averaged 0.06 ug/m<sup>3</sup>: significantly lower than the NJ Department of Health guideline of 0.8 ug/m<sup>3</sup>.

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 September, 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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 NJ Licensed Indoor Environmental Consultant  
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