



March 7, 2019

Mr. Beecher Baker  
Superintendent of Schools  
Hadley Luzerne CSD  
273 Lake Avenue  
Lake Luzerne, NY

Re: Report of Airborne Particulate Monitoring  
Hadley-Luzerne CSD  
High School & Junior High School Wing  
Lake Luzerne, New York  
PSI Project No: 08213290

Dear Mr. Baker:

As requested, Professional Service Industries, Inc. (PSI) performed limited air sampling for airborne particulates within several classrooms at the Junior and Senior High School located at 273 Lake Avenue in Lake Luzerne NY. The classrooms which were sampled in the High School Wing included rooms 151, 155, 156 and 157. The classrooms sampled in the Junior High Wing included 104, 107 and 114.

The air sampling was conducted as a result of work conducted over the February break as well as on-going evening work within classrooms. This work included removal of lay in ceiling tiles from the High School classrooms and Room 114 of the Junior High School, as well as penetrations through existing ceiling plasters located in Room 107 of the Junior High School.

PSI performed an industrial hygiene evaluation using a combination of observations and measurements of airborne particulate levels. The observations included a visual assessment of the conditions in the areas of concern. The airborne particulate measurements were collected on March 6, 2019 utilizing a DUSTTRAK II Aerosol Monitor, Model 8530, measuring total dust. The sampling was performed by Mr. John Tranter of Intertek-PSI. The DUSTTRAK collects immediate readings, measuring airborne particulates in micrograms per cubic meter, mg/m<sup>3</sup>.

## Findings

PSI did not observe visible airborne dust or visible dust on horizontal surfaces, such as desks or floors within the areas of concern.

## Air Quality Measurements

The follow Table 1 provides a summary of the Indoor Air Quality standards applied to this this evaluation.

### Indoor Air Quality Standards

Source	Particulate
ASHRAE <sup>1</sup>	0.15 mg/m <sup>3</sup> (PM <sub>10</sub> )
OSHA Permissible Exposure Limit (PEL) <sup>2,3</sup>	15 mg/m <sup>3</sup> 8-Hr. TWA-Total Dust
ACGIH TLV <sup>®4</sup>	3 mg/m <sup>3</sup> (PM <sub>10</sub> )

<sup>1</sup> [ASHRAE 62.2-2016](#) – Ventilation for Acceptable Indoor Air Quality

<sup>2</sup> Code of Federal Regulations 1910.1000

<sup>3</sup> Code of Federal Regulations 1910.1048

<sup>4</sup> ACGIH 2018 TLVs and BEIs

TWA = Time-weighted Average

STEL = 15 Minute short-term exposure limit

The sample results are summarized in the Table below:

### HADLEY LUZERNE CSD HIGH SCHOOL & Jr. HIGH SCHOOL

**TABLE 2 Airborne Total Airborne Particulate Matter (PM)**

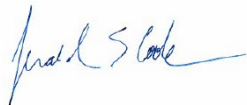
Location Sampled	Total Data Collection Time (minutes)	Airborne Particulate (min.) (mg/m <sup>3</sup> )	Airborne Particulate (max.) (mg/m <sup>3</sup> )	Airborne Particulate (average) (mg/m <sup>3</sup> )	OSHA PEL 8 Hour TWA (mg/m <sup>3</sup> )
Room 155	5	0.007	0.011	0.009	10
Room 158	5	0.010	0.024	0.018	10
Room 151	5	0.005	0.013	0.008	10
Room 156	5	0.005	0.006	0.006	10
Room 104	5	0.007	0.011	0.009	10
Room 107	5	0.005	0.016	0.008	10
Room 114	5	0.004	0.013	0.006	10

Results ranged from 0.004 to 0.01 mg/m<sup>3</sup>, averaging 0.006 to 0.018 mg/m<sup>3</sup>. All measurements for particulate were within ASHRAE reference parameters for occupant comfort, as well as the OSHA Permissible Exposure Limit of 15 mg/m<sup>3</sup>. The sample results generally appear to represent typical and common conditions for educational, commercial, and office settings. The findings did not suggest the need for corrective actions or additional study at this time.

Should you have any questions regarding the results, please contact PSI at 518-377-9841. Thank you for the opportunity to assist with your environmental needs.

Respectfully submitted,

**PROFESSIONAL SERVICE INDUSTRIES, INC.**



Jerald Cook, CIH, CSP  
Senior Industrial Hygienist



John J. Tranter  
Manager

Attachments:  
Air Sample Results