



August 9, 2021

Richard J. Schleyer
Director of Environmental Health and Safety
Chicago Public Schools
42 W. Madison Street
Chicago, IL 60602

**RE: Indoor Air Quality Assessment Results
Pulaski International School of Chicago
2230 W Mclean Ave.**

Dear Mr. Schleyer:

An Indoor Air Quality (IAQ) Assessment was completed at **Pulaski International School** on June 10, 2021, by Specialty Consulting, Inc., under the direction of a Certified Industrial Hygienist (CIH). A follow-up assessment was then completed on August 2, 2021.

The overall findings of the assessments was that the assessed school is acceptable for occupancy.

Temperature, relative humidity, airborne particulates and carbon dioxide values were measured in approximately 20% of all classrooms and offices to provide a general assessment of air quality parameters in the school building. The assessment also consisted of a visual inspection in 100% all classrooms and offices to identify odors or other environmental concerns. Any spaces that did not meet standards (see references below) are being evaluated by CPS for resolution.

Although the Centers for Disease Control and Prevention (CDC) does not require (or recommend) that indoor air quality assessments be conducted, CPS wanted to provide data to indicate that the mechanical systems, including air filters, are operating as designed.

Temperature

Temperature was measured to provide an indicator that the heating and ventilation systems are operating as designed and providing an environment that is acceptable based on thermal comfort. The temperature results were compared to the range for thermal comfort for the cooling season of approximately 72 to 79 degrees Fahrenheit (°F), as recommended by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) in *Standard 55*.

Relative Humidity

Relative humidity was measured to confirm that excess moisture is not present in the ambient air. The indoor relative humidity results were compared to ASHRAE, Standard 55 which recommends maintaining relative humidity below approximately 65% for reasons of thermal comfort. Additionally, ASHRAE Standard 62.1 recommends maintaining relative humidity below approximately 65% to reduce the potential for microbial growth.

Carbon Dioxide (CO₂)

Carbon dioxide is produced by occupants during respiration and is an indicator of the adequacy of the amount of outdoor ("fresh") air in a building. The CO₂ readings were compared to the *ASHRAE Standard 62.1*, which is 700 parts per million (ppm) above the outdoor CO₂ concentration.

Airborne Particulate Matter (PM-2.5)

Dust can be an irritant and is measured to verify the filters in the mechanical system are operating as designed. The indoor airborne particulate matter readings were compared to the EPA outdoor limit as well as the *ASHRAE 62.1 Standard* of <0.035 milligrams per cubic meter (mg/m³).

Temperature, relative humidity, carbon dioxide and airborne particulate measurements were completed using industry best practices and calibrated equipment.

Attached please find a summary of the readings and visual inspection findings collected during this assessment. Specific areas that did not conform to the recommended guidelines are highlighted in the attached summary.

Colin Hendrickson

Colin Hendrickson, MPH

Jigar M. Shah

Jigar M. Shah, CIH, CSP, CHMM

CC: R. Christlieb, CPS

Attachments: IAQ Data, Visual Assessment Notes



Pulaski Indoor Air Quality Measurements

6/10/2021 and 8/2/2021

Partial Occupancy

Building	Floor Number	Room Number	Primary Room Use	Temperature (F)	Relative Humidity (%)	Carbon Dioxide (ppm)	PM2.5 (mg/m3)
N/A	N/A	N/A	Outdoor Air	85.1	54.9	368	0.012
Main	3	312	Class	81.4	49.7	469	0.007
Main	3	306	Class	80.6	51.5	455	0.004
Main	3	300	Class	78.4	51.3	459	0.007
Main	3	305	Class	79.2	51.1	505	0.008
Main	3	307	Class	78.3	52.5	550	0.005
Main	2	211	Class	78.4	54.2	466	0.008
Main	2	207	Class	77.3	55.2	481	0.005
Main	2	205	Class	78.4	48.9	518	0.005
Main	2	200	Class	78.5	57.9	565	0.005
Main	2	208	Class	81.0	39.4	381	0.013
Main	1	110	Class	78.3	49.5	551	0.006
Main	1	108	Class	78.7	58.1	544	0.006
Main	1	121	Assembly	80.2	60.5	440	0.005
Main	1	107	Class	80.2	46.4	478	0.006
Main	1	Corridor	Corridor	80.2	59.4	457	0.005
Annex	2	N/A	Boys BR	80.3	58.4	516	0.007
Annex	2	006	Class	81.1	62.6	414	0.008
Annex	2	007	Class	78.3	57.6	490	0.005
Annex	2	008	Class	79.4	53.4	489	0.003
Annex	2	009	Class	78.9	48.7	525	0.004
Annex	1	005	Class	77.1	60.9	558	0.010
Annex	1	004	Class	77.6	65.7	602	0.012
Annex	1	003	Class	76.7	52.8	617	0.009
Annex	1	N/A	Lunch	75.1	55.3	505	0.007
Annex	1	Corridor	Corridor	73.5	62.5	486	0.009



Pulaski Visual Assessment

6/10/2021 and 8/2/2021

Partial Occupancy

Building	Floor Number	Room Number	Primary Room Use	Visual Assessment Notes
Main	3	312	Class	No issues were observed.
Main	3	310	Class	No issues were observed.
Main	3	308	Class	No issues were observed.
Main	3	N/A	Girls BR	No issues were observed.
Main	3	304	Class	No issues were observed.
Main	3	306	Class	No issues were observed.
Main	3	300	Class	No issues were observed.
Main	3	302	Class	No issues were observed.
Main	3	305	Class	No issues were observed.
Main	3	301	Class	No issues were observed.
Main	3	307	Class	No issues were observed.
Main	3	303	Class	No issues were observed.
Main	3	N/A	Teacher BR	No issues were observed.
Main	3	309	Class	No issues were observed.
Main	3	311	Class	No issues were observed.
Main	3	N/A	Boys BR	No issues were observed.
Main	3	313	Class	No issues were observed.
Main	3	Corridor	Corridor	No issues were observed.
Main	2	211	Class	No issues were observed.
Main	2	209	Class	No issues were observed.
Main	2	N/A	Teacher BR	No issues were observed.
Main	2	203	Class	No issues were observed.
Main	2	207	Class	No issues were observed.
Main	2	205	Class	No issues were observed.
Main	2	200	Class	No issues were observed.
Main	2	204	Class	No issues were observed.
Main	2	206	Class	No issues were observed.
Main	2	N/A	Girls BR	No issues were observed.
Main	2	208	Class	No issues were observed.
Main	2	210	Library	No issues were observed.
Main	2	Corridor	Corridor	No issues were observed.
Main	1	114	Class	No issues were observed.
Main	1	110	Class	No issues were observed.
Main	1	108	Class	No issues were observed.
Main	1	N/A	Girls BR	No issues were observed.
Main	1	120	Gym	No issues were observed.
Main	1	121	Assembly	No issues were observed.
Main	1	100	Main Office	No issues were observed.
Main	1	107	Class	No issues were observed.
Main	1	105	Class	No issues were observed.
Main	1	103	Office	No issues were observed.
Main	1	109	Class	No issues were observed.
Main	1	111	Class	No issues were observed.
Main	1	N/A	Boys BR	No issues were observed.



Pulaski Visual Assessment

6/10/2021 and 8/2/2021

Partial Occupancy

Building	Floor Number	Room Number	Primary Room Use	Visual Assessment Notes
Main	1	124	Gym Office	No issues were observed.
Main	1	Corridor	Corridor	No issues were observed.
Annex	2	085	Resource	No issues were observed.
Annex	2	N/A	Boys BR	No issues were observed.
Annex	2	006	Class	No issues were observed.
Annex	2	N/A	Unisex BR	No issues were observed.
Annex	2	N/A	Girls BR	No issues were observed.
Annex	2	007	Class	No issues were observed.
Annex	2	011	Class	No issues were observed.
Annex	2	008	Class	No issues were observed.
Annex	2	012	Class	No issues were observed.
Annex	2	013	Class	No issues were observed.
Annex	2	009	Class	No issues were observed.
Annex	2	010	Class	No issues were observed.
Annex	2	014	Class	No issues were observed.
Annex	2	015	Class	No issues were observed.
Annex	2	Corridor	Corridor	No issues were observed.
Annex	1	005	Class	No issues were observed.
Annex	1	002	Class	No issues were observed.
Annex	1	004	Class	No issues were observed.
Annex	1	003	Class	No issues were observed.
Annex	1	001	Class	No issues were observed.
Annex	1	N/A	Girls BR	No issues were observed.
Annex	1	N/A	Unisex BR	No issues were observed.
Annex	1	N/A	Office	No issues were observed.
Annex	1	N/A	Boys BR	No issues were observed.
Annex	1	N/A	Kitchen	No issues were observed.
Annex	1	N/A	Lunch	No issues were observed.
Annex	1	Corridor	Corridor	No issues were observed.

