ESMCORP
ENVIRONMENTAL SAFETY MANAGEMENT CORPORATION

21 E. Scott Street
Riverside, NJ 08075
www.esmcorp.com
(856) 764-3557

October 15, 2024

Mr. Nicholas Crupi, CEFM
Director, Buildings and Grounds
Scotch Plains - Fanwood Public Schools
512 Cedar Street
Scotch Plains, NJ 07076

Dear Mr. Crupi,

This report outlines findings from ESMCorp's October 2, 2024 Indoor Air Quality monitoring at each of the 8 Scotch Plains-Fanwood Schools. This assessment was conducted as part of the Scotch Plains – Fanwood Schools routine preventative indoor air quality program to ensure acceptable air quality for students, staff and visitors.

The purposes of this inspection were the following:

- Determine if air quality parameters including fresh air supply, volatile organic compounds, carbon monoxide, temperature and humidity were within expected ranges.
- Determine if the school is in general compliance with the PEOSHA Indoor Air Quality Standard and current guidelines by the State of New Jersey and the CDC with respect to ventilation in classrooms.

The inspections, data analysis and report were conducted Mr. Richard A. Lynch, MBA, CIH, CIEC and Dr. Richard M. Lynch, Ph.D., CIH of Environmental Safety Management Corporation.

Executive Summary

The October 2024 Q1 routine Indoor Air Quality Assessment of the Scotch Plains – Fanwood schools revealed that fresh air supply was within normal ranges in a large majority of the 180 rooms inspected throughout the 8 schools in accordance with PEOSHA, CDC and NJ Department of Education guidelines. There were no musty odors, no widespread visible water damage, and no visible mold contamination observed. There were no elevations in carbon monoxide or volatile organic compounds. Temperature and relative humidity were within normal ranges given outdoor conditions at each of the schools. Recommendations for inspecting unit ventilator fan speed and damper position in specific classrooms as well as for encouraging teachers to open windows whenever feasible, are contained at the end of this report.

I. Evaluation Criteria

For mechanically ventilated schools, The NJ PEOSHA Indoor Air Quality Standard requires that HVAC systems be inspected and maintained in accordance with manufacturer specifications and that damaged components be repaired. According to the standard, when indoor air levels of carbon dioxide exceed 1,000 parts per million the employer inspect the system to ensure that it is operating as it should NJAC 12:100-13.3. The standard also requires that when indoor air temperatures cannot be maintained between 68-79^{o}F during the heating season, that the HVAC system be inspected. This is based upon the ASHRAE

55 standard which recommends that air temperatures be maintained between 68-72ºF during the heating season, 74-78ºF during the cooling season and 68-79ºF during the transition seasons; all ideally at 30-60% relative humidity.

In non-mechanically ventilated buildings the PEOSHA standard requires that the employer "Assure that buildings without mechanical ventilation are maintained so that windows, doors, vents, stacks, and other portals designed or used for natural ventilation are in operable condition (NJAC 12: 100-13.3-6). In naturally ventilated classrooms (rooms with no mechanical ventilation systems such as unit ventilators, or rooftop air handlers), it is recommended that windows be opened to the maximum extent possible given temperature and security concerns.

II. Methods

Based upon the above, the following methods were observed:

1. A visual inspection of a representative sample of classrooms within each building was conducted for indications of air quality concerns including water damage, musty odors, air flow and general cleanliness.
2. Carbon Dioxide (CO_2) was measured as an indicator of fresh air supply in each of the representative areas evaluated at the center of the room, and where accessible, at the discharge of unit ventilators, using a TSI Q-Trak 7575 IAQ Monitor. Carbon monoxide, temperature and relative Humidity were also measured.
3. Volatile Organic Compounds (VOC's) were measured using a Toxi Rae or Mini Rae 2000 Photoionizer calibrated to isobutylene.

III. Findings and Results

General Observations

- Approximately 180 classrooms throughout the district were inspected and monitored during normal occupancy by students and staff.
- Classrooms were occupied by an average of 9 to 20 students at the time of assessment.
- Unit ventilators in over 92% of classrooms throughout the district were operating at the time of inspection.
- Windows were closed in most classrooms in each building. On average zero (0) of 2-6 windows were open in each classroom at the time of inspection.
- There were no indications of unusual accumulations of dust or debris in any areas.
- There were no mold-like or musty odors present, and no evidence of unusual mold growth in the areas inspected.

Air Monitoring Findings

- Outdoor air was measured to contain approximately 390 to 440 parts per million carbon dioxide with temperature at 67 to 69ºF. Outdoor Relative humidity averaged approximately 60% over the inspection period.
- The average carbon dioxide level in all classrooms monitored was 904 parts per million; lower than to the PEOSHA guideline of 1000 ppm and the ASHRAE guideline of 700 ppm above outdoor levels. Fresh air introduction rates as indicated by carbon dioxide levels were within PEOSHA/ASHRAE guidelines in a large majority of classrooms inspected, indicating that rooftop air handlers and unit ventilators were operating per design.
- There were no elevations in carbon monoxide or volatile organic compounds detected in any of the classrooms monitored.
- Temperature and relative humidity were within the PEOSH recommended range in most areas

tested, averaging 73@ 43% RH, and considered normal.

- A few classrooms in Coles, Nettingham and McGinn had unit ventilators that were deactivated at the time of inspection, reducing outdoor air introduction.
- Some classrooms in Nettingham and Brunner showed elevated CO_2 levels due to high occupancy, suggesting a need to open windows whenever feasible.

A summary of inspection findings and air quality results is displayed in Table #1 below.

Table #1 – Q4 Air Quality Summary October 3, 2024 - Scotch Plains Fanwood Schools

	Total Rooms inspected	Average CO2 levels (center of room)	Average Temperature (^{o}F)	Average Relative Humidity (%)	Average number of windows open	Average number of students present
Scotch Plains - Fanwood High School	37	855	70	62	0	16
Evergreen Elementary	23	935	72	59	0	14
Coles Elementary	24	803	74	55	1	16
Terrill Middle School	16	1171	71	61	1	20
McGinn Elementary	21	771	73	55	1	9
Malcolm E. Nettingham Middle School	22	1023	72	58	0	14
School One Elementary	18	693	71	56	0	4
Brunner Elementary	19	1077	71	62	0	14
Total	180	-	-	-	-	-
Average	23	904	72	59	0	13

Detailed classroom findings and recommendations are contained on Table #2 at the end of this report.

IV. Conclusions and Recommendations

The October 2024 routine Indoor Air Quality Assessment of the Scotch Plains – Fanwood schools revealed that fresh air supply rates were within normal expected ranges in a large majority of the 180 rooms inspected throughout the 8 schools in accordance with PEOSHA, CDC and NJ Department of Education guidelines. There were no musty odors, no widespread visible water damage, and no visible mold contamination observed. There were no elevations in carbon monoxide or volatile organic compounds. Temperature and relative humidity were within normal ranges given outdoor conditions at each of the schools.

Recommendations

1. Unit ventilators and rooftop HVAC systems in particular classrooms as shown in school-specific Tables at the end of this report should be inspected for airflow rates and/or fresh air damper position.
2. Teachers should be encouraged to open as many windows as is feasible given outdoor temperature and humidity conditions, keep unit ventilators running, and operate supplemental air filters in classrooms where provided by the district.

Thank you for the opportunity to assist you with the evaluation. Our next routine scheduled monitoring will be scheduled for December 2024. Please contact me with any questions at (856)764-3557.

Sincerely,
Richard A. Lynch
Richard A. Lynch, MBA, CIH, CIEC
Certified Industrial Hygienist
NJ Licensed Indoor Environmental Consultant
www.esmcorp.com

Reviewed and Authorized:
Richard M. Lynch
Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHFM
NJ Licensed Indoor Environmental Consultant
President, ESMCorp
rlynch@esmcorp.com

School Name **Scotch Plains - Fanwood High School**
Inspection Type **Mold/Air Quality Inspection**
Date of inspection **10/2/2024**
Inspected Reviewed and Finalized by: **Mr. Richard A. Lynch, MBA, CIH, CIEC**
Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHE

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	General Observations						Average Room Measurements				Supply Measurements		
Location	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-	-	390	0	64	63	0	-	
155	no	no	no	yes	22	3	499	0	70	69	0	432	
176	no	no	no	yes	3	2	534	0	69	59	0	435	
158	no	no	no	yes	0	0	563	0	70	63	0	427	
122	no	no	no	yes	0	0	572	0.5	71	60	0	roof	
165	no	no	no	yes	12	1	576	0	69	58	0	451	
252	no	no	no	no	25	2	667	0	70	59	0	544	
101	no	no	no	yes	16	no	687	0	70	65	0	roof	
261	no	no	no	yes	15	0	702	0.1	72	60	0	590	
238	no	no	no	yes	1	0	722	0.6	70	55	0	roof	
131	no	no	no	yea	3	0	727	0	71	61	0	roof	
215	no	no	no	yes	17	0	779	0	72	59	0	roof	
137	no	no	no	yes	0	no	784	0	69	60	0	roof	
214	no	no	no	yes	25	0	811	0	72	60	0.2	roof	
282	no	no	no	yes	0	0	825	0	70	62	0	738	
223	no	no	no	yes	2	0	827	0	70	61	0.2	roof	
128	no	no	no	yes	25	0	833	0	71	63	0	roof	
202	no	no	no	yes	24	0	834	0.4	71	62	0	roof	
204	no	no	no	yes	24	0	836	0	71	62	0	roof	
247	no	no	no	yes	24	0	847	0.1	70	60	0	roof	
135	no	no	no	yes	22	0	850	0	71	59	0	roof	
211	no	no	no	yes	25	0	856	0	72	60	0	roof	
224	no	no	no	yes	20	0	859	0.1	70	63	0.1	roof	
171	no	no	no	yes	0	0	860	0	70	63	0	797	

School Name **Scotch Plains - Fanwood High School**
Inspection Type **Mold/Air Quality Inspection**
Date of inspection **10/2/2024**
Inspected Reviewed and Finalized by: **Mr. Richard A. Lynch, MBA, CIH, CIEC**
Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHE

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	General Observations						Average Room Measurements				Supply Measurements		
Location	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-	-	390	0	64	63	0	-	
139	no	no	no	yes	22	0	882	0	69	62	0	roof	
225	no	no	no	yes	24	0	904	0.1	70	64	0.1	roof	
141	no	no	no	yes	20	0	920	0.1	70	65	0	roof	
233	no	no	no	yes	24	0	949	0	70	59	0.1	roof	
235	no	no	no	yes	18	0	966	0.1	71	60	0	roof	
256	no	no	no	yes	20	0	966	0.2	71	64	0	725	
245	no	no	no	yes	24	0	978	0.2	70	61	0	roof	
268	no	no	no	yes	24	0	983	0	71	62	0	740	
242	no	no	no	yes	22	0	1005	0.4	70	60	0	roof	
206	no	no	no	yes	25	0	1028	0	72	63	0	roof	
278	no	no	no	yes	20	0	1062	0	70	65	0	740	
274	no	no	no	yes	25	0	1117	0	71	66	0	953	
150	no	no	no	yes	0	0	1150	0.4	71	65	0	900	
281	no	no	no	yes	18	0	1643	0	69	65	0	1421	open windows, inspect Unit Ventilator for fan speed and damper position.
				Average	**17**	**0**	**902**	**0**	**71**	**62**	**0**	**815**	

School Name **Evergreen Elementary**
Inspection Type **Mold/Air Quality Inspection**
Date of inspection **10/2/2024**
Inspected Reviewed and Finalized by: **Mr. Richard A. Lynch, MBA, CIH, CIEC**
Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CI

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	General Observations						Average Room Measurements				Supply Measurements		
Location	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-	-	438	0	69	56	0	-	
128	no	no	no	yes	1	3	579	0	72	54	0	450	
107	no	no	no	yes	3	2	584	0	70	56	0	465	
library	no	no	no	yes	1	0	629	0	71	58	0	591	
142	no	no	no	yes	0	1	665	0	70	56	0	roof	
141	no	no	no	yes	8	0	687	0	72	63	0	646	
106	no	no	no	yes	0	1	733	0	70	60	0	633	
113	no	no	no	yes	9	0	804	0	72	56	0	roof	
131	no	no	no	yes	22	0	807	0	72	58	0	612	
114	no	no	no	yes	16	0	845	0	72	58	0	roof	
119	no	no	no	yes	20	0	846	0	71	59	0	676	
104	no	no	no	yes	18	0	860	0	71	59	0	626	
112	no	no	no	yes	20	0	868	0	71	56	0	roof	
117	no	no	no	yes	13	0	891	0	71	56	0	roof	
150	no	no	no	yes	16	0	987	0	71	59	0	roof	
152	no	no	no	yes	20	0	1023	0	74	58	0	roof	
130	no	no	no	yes	20	0	1047	0	72	61	0	800	
154	no	no	no	yes	10	0	1052	0	73	60	0	roof	
120	no	no	no	yes	17	0	1089	0	71	63	0	874	
124	no	no	no	yes	24	0	1175	0	72	65	0	995	open windows, inspect Unit Ventilator for fan speed and damper position.
127	no	no	no	yes	24	0	1185	0	72	62	0	899	open windows, inspect Unit Ventilator for fan speed and damper position.
153	no	no	no	yes	18	0	1227	0	73	62	0	roof	open windows, inspectrooftop HVAC for fan speed and damper position.
132	no	no	no	yes	21	0	1330	0	72	63	0	1264	open windows, inspect Unit Ventilator for fan speed and damper position.
134	no	no	no	no	22	0	1447	0	71	57	0	-	reactivate unit ventilator

School Name **Evergreen Elementary**
Inspection Type **Mold/Air Quality Inspection**
Date of inspection **10/2/2024**
Inspected Reviewed and Finalized by: **Mr. Richard A. Lynch, MBA, CIH, CIEC**
Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CI

	General Observations						Average Room Measurements				Supply Measurements		
Location	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-	-	438	0	69	56	0	-	
128	no	no	no	yes	1	3	579	0	72	54	0	450	
107	no	no	no	yes	3	2	584	0	70	56	0	465	
				Average	**19**	**0**	**1073**	**0**	**72**	**60**	**0**	**876**	

School Name **Coles Elementary**
Inspection Type **Mold/Air Quality Inspection**
Date of inspection **10/2/2024**
Inspected Reviewed and Finalized by: **Mr. Richard A. Lynch, MBA, CIH, CIEC**
Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHFI

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	General Observations						Average Room Measurments				Supply Measurements		
Location	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-	-	438	0	68	55	0	-	
107	no	no	no	yes	1	0	543	0	74	51	0	481	
132	no	no	no	yes	0	1	598	0	74	53	0	roof	
115	no	no	no	yes	23	3	610	0	73	54	0	504	
library	no	no	no	yes	25	0	635	0	75	51	0	roof	
130	no	no	no	yes	10	1	648	0	75	53	0	roof	
128	no	no	no	yes	6	0	652	0	75	52	0	roof	
117	no	no	no	yes	24	3	665	0	73	55	0	575	
113	no	no	no	yes	21	3	678	0	74	54	0	618	
116	no	no	no	no	22	2	678	0	74	58	0	591	
129	no	no	no	yes	18	0	739	0	75	52	0	roof	
112	no	no	no	yes	18	3	765	0	74	53	0	669	
114	no	no	no	yes	17	2	773	0	74	58	0	722	
111	no	no	no	yes	16	2	789	0	75	54	0	765	
144	no	no	no	no	1	2	789	0	73	55	0	596	
110	no	no	no	yes	17	2	824	0	73	54	0	689	
122	no	no	no	yes	19	0	885	0	74	60	0	853	
134	no	no	no	yes	20	0	899	0	75	56	0	772	
135	no	no	no	yes	21	0	918	0	74	56	0	757	
119	no	no	no	yes	23	1	932	0	73	60	0	692	
149	no	no	no	yes	21	3	953	0	74	60	0	785	
140	no	no	no	yes	18	0	954	0	74	57	0	712	
137	no	no	no	yes	22	0	956	0	74	59	0	907	
138	no	no	no	yes	19	0	968	0	75	57	0	766	

School Name **Coles Elementary**

Inspection Type **Mold/Air Quality Inspection**

Date of inspection **10/2/2024**

Inspected Reviewed and Finalized by: **Mr. Richard A. Lynch, MBA, CIH, CIEC**

Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHFI

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	General Observations						Average Room Measurments				Supply Measurements		
Location	**visible mold**	**Musty Odors?**	**Visible Water Damage?**	**HVAC running**	**Actual students**	**Windows Open?**	**Carbon Dioxide (ppm)**	**Carbon Monoxide (ppm)**	**°F**	**Relative Humidity %**	**VOC**	**CO2 @ Supply**	**notes**
outside	-	-	-	-	-	-	438	0	68	55	0	-	
145	no	no	no	no	11	0	1378	0	73	56	0	-	reactivate unit ventilator
				Average	**17**	**1**	**842**	**0**	**74**	**56**	**0**	**717**	

School Name **Terrill Middle School**

Inspection Type **Mold/Air Quality Inspection**

Date of inspection **10/2/2024**

Inspected Reviewed and Finalized by: **Mr. Richard A. Lynch, MBA, CIH, CIEC**

Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHFM

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	General Observations						Average Room Measurments				Supply Measurements		
Location	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-	-	391	0.6	68	54	0	-	
8	no	no	no	yes	24	1	735	0.1	70	61	0	623	
10	no	no	no	yes	24	3	803	0	72	58	0	570	
13	no	no	no	yes	25	0	819	0	73	61	0	645	
1	no	no	no	yes	1	0	854	0	73	58	0	694	
2	no	no	no	yes	20	3	878	0	73	59	0	701	
25	no	no	no	yes	0	0	945	0	71	53	0	782	
14	no	no	no	yes	25	0	952	0	73	60	0	720	
7	no	no	no	yes	21	0	1000	0	72	62	0	770	
35	no	no	no	yes	22	0	1028	0	71	59	0	816	
26	no	no	no	yes	25	0	1081	0	72	58	0	819	
36	no	no	no	yes	22	4	1091	0	70	64	0	834	
39	no	no	no	yes	18	0	1542	0	70	62	0	1462	open windows, inspect Unit Ventilator for fan speed and damper position.
31	no	no	no	yes	24	0	1670	0	69	64	0	1710	open windows, inspect Unit Ventilator for fan speed and damper position.
23	no	no	no	yes	25	0	1685	0	69	69	0	1667	open windows, inspect Unit Ventilator for fan speed and damper position.
21	no	no	no	yes	25	0	1750	0	72	60	0	1750	open windows, inspect Unit Ventilator for fan speed and damper position.
30	no	no	no	yes	25	0	1750	0	72	65	0	1606	open windows, inspect Unit Ventilator for fan speed and damper position.
				Average	**21**	**0**	**1318**	**0**	**71**	**61**	**0**	**1176**	-

School Name **McGinn Elementary**
Inspection Type **Mold/Air Quality Inspection**
Date of inspection **10/2/2024**
Inspected Reviewed and Finalized by: **Mr. Richard A. Lynch, MBA, CIH, CIEC**
Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHFM

	General Observations						Average Room Measurments				Supply Measurements		
Location	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-		438	0	69	56	0	-	
107	no	no	no	yes	17	0	664	0	73	55	0	roof	
120	no	no	no	yes	0	2	670	0	73	54	0	515	
108	no	no	no	yes	17	0	675	0	73	55	0	roof	
116	no	no	no	yes	14	0	680	0	73	55	0	483	
136	no	no	no	yes	0	2	703	0	74	53	0	685	
149	no	no	no	yes	1	0	705	0	72	55	0	roof	
119	no	no	no	yes	0	0	710	0	73	57	0	574	
150	no	no	no	yes	15	1	718	0	71	58	0	roof	
131	no	no	no	no	0	0	735	0	74	53	0	-	
121	no	no	no	yes	0	3	752	0	74	56	0	646	
117	no	no	no	yes	20	1	754	0	73	55	0	584	
152	no	no	no	yes	18	0	754	0	71	56	0	roof	
104	no	no	no	yes	16	0	764	0	74	56	0	651	
148	no	no	no	yes	18	0	775	0	73	55	0	roof	
129	no	no	no	no	6	3	810	0	74	53	0	-	
151	no	no	no	yes	14	0	815	0	71	55	0	789	
135	no	no	no	no	0	1	826	0	74	55	0	-	
130	no	no	no	no	0	0	841	0	74	55	0	-	
128	no	no	no	yes	16	2	911	0	75	56	0	670	
103	no	no	no	no	15	0	915	0	73	59	0	-	
124	no	no	no	yes	0	3	989	0	74	57	0	956	
				Average	**9**	**1**	**798**	**0**	**73**	**56**	**0**	**696**	

School Name **Malcolm E. Nettingham Middle School**
Inspection Type **Mold/Air Quality Inspection**
Date of inspection **10/2/2024**
Inspected Reviewed and Finalized by: **Mr. Richard A. Lynch, MBA, CIH, CIEC**
Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHFM

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	General Observations						Average Room Measurments				Supply Measurements		
Location	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-	-	400	0	67	49	0	-	
media center	no	no	no	yes	10	0	479	0	70	56	0	roof	
119E	no	no	no	yes	0	0	605	0	70	59	0	roof	
119B	no	no	no	yes	20	0	641	0	69	55	0	roof	
206	no	no	no	yes	0	0	652	0	70	58	0	448	
203	no	no	no	yes	1	0	698	0	72	55	0	407	
113	no	no	no	yes	0	0	767	0	70	60	0	613	
215	no	no	no	yes	6	0	800	0	72	57	0	578	
219	no	no	no	no	2	0	800	0	73	43	0	563	,
116	no	no	no	no	25	2	805	0	71	62	0	-	reactivate unit ventilator
208	no	no	no	yes	18	0	852	0	71	60	0	553	
303	no	no	no	yes	0	0	855	0	73	57	0	600	
313	no	no	no	yes	20	0	857	0.2	73	58	0	0	
201	no	no	no	yes	25	0	937	1.8	73	58	0	785	
316	no	no	no	yes	17	0	958	0	73	59	0	640	
319	no	no	no	yes	24	1	988	0	73	58	0	577	
309	no	no	no	yea	21	0	1068	0	73	58	0	700	
110	no	no	no	yes	20	0	1090	0	72	58	0	1015	open windows
301A	no	no	no	yes	12	0	1090	0	74	61	0	1019	check damper position
104	no	no	no	no	28	0	1350	0	73	61	0	-	reactivate unit ventilator
108	no	no	no	yes	25	0	1600	0.1	72	58	0	1100	open windows, inspect Unit Ventilator for fan speed and damper position.
103	no	no	no	yes	28	0	1767	0.4	73	68	0	-	reactivate unit ventilator
220	no	no	no	yea	1	0	2755	0	71	59	0	-	open windows, inspect Unit Ventilator for fan speed and damper position.
				Average	**15**	**0**	**1113**	**0**	**72**	**58**	**0**	**654**	

School Name **School One Elementary**
Inspection Type **Mold/Air Quality Inspection**
Date of inspection **10/2/2024**
Inspected Reviewed and Finalized by: **Mr. Richard A. Lynch, MBA, CIH, CIEC**
Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHI

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ENVIRONMENTAL SAFETY MANAGEMENT CORPORATION

	General Observations						Average Room Measurments				Supply Measurements		
Location	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-			410	0	70	57	0		
203	no	no	no	yes	0	0	512	0	71	53	0	roof	
204	no	no	no	yes	0	0	610	0	71	52	0	roof	
210	no	no	no	yes	2	0	610	0	70	56	0	roof	
206	no	no	no	yes	1	0	620	0	70	53	0	roof	
213	no	no	no	yes	0	0	624	0	70	59	0	roof	
201	no	no	no		0	0	628	0	72	53	0	roog	
208	no	no	no	yes	1	0	660	0	70	55	0	roof	
103	no	no	no	yea	0	0	695	0	72	54	0	roof	
107	no	no	no	yes	2	0	697	0	71	58	0	roof	
108	no	no	no	yes	0	0	720	0	72	57	0	roof	
101	no	no	no	yes	1	0	722	0	72	54	0	roof	
106	no	no	no	yes	18	0	724	0	71	58	0	roof	
105	no	no	no	yes	18	0	725	0	72	58	0	roof	
112	no	no	no	yea	12	0	743	0	72	56	0	roof	
131t	no	no	no	yea	1	0	756	0	70	61	0	622	
110	no	no	no	yes	0	0	778	0	72	57	0	roof	
104	no	no	no	yes	15	0	784	0	72	59	0	roof	
130t	no	no	no	yes	3	0	847	0	70	63	0	756	
				Average	**5**	**0**	**715**	**0**	**71**	**57**	**0**	**689**	

School Name **Brunner Elementary**
Inspection Type **Mold/Air Quality Inspection**
Date of inspection **10/2/2024**
Inspected Reviewed and Finalized by: **Mr. Richard A. Lynch, MBA, CIH, CIEC**
Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHFM

ESMCORP
ENVIRONMENTAL SAFETY MANAGEMENT CORPORATION

	General Observations						Average Room Measurments				Supply Measurements		
Location	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-	-	425	0	68	53	0	-	
128	no	no	no	yes	1	0	604	0	70	59	0	roof	
127	no	no	no	yes	1	0	632	0	70	59	0	roof	
125	no	no	no	yes	14	0	710	0	71	60	0	roof	
121	no	no	no	yes	0	0	735	0	71	60	0	628	
media center	no	no	no	yes	20	0	758	0	71	61	0	roof	
107	no	no	no	yes	18	0	764	0	73	58	0	583	
206	no	no	no	yes	1	0	889	0	71	59	0	643	
207	no	no	no	yes	1	0	984	0	71	61	0	899	
111	no	no	no	yes	19	0	997	0	72	60	0	763	
205	no	no	no	yes	18	0	1034	0	72	60	0	847	
203	no	no	no	yes	17	0	1052	0	72	61	0	867	
113	no	no	no	yes	20	0	1094	0	72	63	0	1022	
201	no	no	no	yes	21	0	1157	0	72	63	0	863	
112	no	no	no	yes	18	0	1184	0	72	65	0	1167	open windows, inspect Unit Ventilator for fan speed and damper position.
119	no	no	no	yes	18	0	1212	0	72	63	0	1110	open windows, inspect Unit Ventilator for fan speed and damper position.
116	no	no	no	no	15	0	1333	0	72	67	0	-	reactivate unit ventilator
202	no	no	no	yes	18	0	1367	0	71	63	0	1020	open windows, inspect Unit Ventilator for fan speed and damper position.
115	no	no	no	yes	20	0	1536	0	72	65	0	1126	open windows, inspect Unit Ventilator for fan speed and damper position.
210	no	no	no	yes	21	0	2152	0	71	63	0	1819	open windows, inspect Unit Ventilator for fan speed and damper position.
				Average	**19**	**0**	**1343**	**0**	**72**	**64**	**0**	**1124**	