Environmental Resources Group
3125 Sovereign Drive • Suite B • Lansing, MI • 48911
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March 12, 2025

Brian Lieber
Director of Operations
Okemos Public Schools
4000 Okemos Road
Okemos, Michigan, 48864

RE: Visual Inspection and Bioaerosol Sampling, Music Rooms
Kinawa Middle School, Okemos, Michigan
ERG Project No.: 240440

Dear Mr. Lieber:

Environmental Resources Group, LLC. (ERG) is pleased to provide the following report of findings. On January 22, 2025, ERG staff conducted inspection and mold sampling within the Music Rooms at Kinawa Middle School (KMS), as part of the ERG assignment to fully evaluate conditions in the building.

Microvacuum (settled dust) samples were collected on cloth covered acoustical panels and on and inside instruments. Samples were collected using Air-O-Cell cassettes, tubing, a calibrated flow meter, and a high-volume vacuum pump. Sampling inside instruments was conducted using a special adapter from Zefon International called a "wall check" which allowed sampling deep inside instruments (bass, cello, etc.). The samples were submitted to and analyzed in the ERG Indoor Air Quality Laboratory pursuant to the requirements of modified ASTM International Standard D-7391.

VISUAL AND OLFACTORY OBSERVATIONS

- Water-stained ceiling panels were observed in the choir room. No visible mold was observed.
- No unusual odors were observed.
- Water-stained ceiling panels were observed in the orchestra room. No visible mold was observed.
- The dust level was low.

INTERPRETATION OF DATA

Fungal Spores

The results of microvacuum sample analysis indicated that greater than 1% mold spore concentrations mold spores were observed in the dust in the samples collected on the sound boards in Room 405 and 406. In the case of the sound board in Room 404, fewer than 1% spores were detected, but, highly allergenic *Pithomyces* spores were detected. All other microvacuum samples revealed less than 1% mold

in the settled dust. Please be reminded that threshold for defining "clean" conditions in the settled dust is approximately 1% spores and the absence of highly allergenic spores (*Pithomyces*, etc.)

Conclusions

Based on the results of testing, the following conclusions were drawn:

- The microvaccum samples collected on the sound boards in Rooms 405 and 406 were not indicative of "clean" conditions. All Music Rooms sound boards should be cleaned based on these findings.

Recommendations

Based on the conclusions above the following recommendations are offered:

1. Retain a mold remediation professional (GFL Environmental) to clean sound boards in the Music Rooms. Clean by HEPA vacuuming.
2. Retain ERG to conduct follow up testing to confirm that sound boards are clean.

Should you have any questions or need additional information feel free to contact us.

Sincerely,

ENVIRONMENTAL RESOURCES GROUP

Kristin Peterson
Senior Industrial Hygienist

Enclosures

Air Data Sheet
IAQ Analytical Report
Chain of Custody Forms

PROJECT NUMBER 240440 DATE 1/22/2025

PROJECT Kinawa Middle School-Music Rooms SAMPLED BY Kristin Peterson

CLIENT Okemos Public Schools ANALYZED BY ERG

AIR SAMPLE DATA SHEET

SAMPLE #	TYPE	DESCRIPTION	TIME ON / TIME OFF	SAMPLE TIME (MIN)	FLOW ON / FLOW OFF (L/MIN)	AVERAGE FLOW	VOLUME (LITERS)	Results
1	MV	On cloth panel above cello (Clara) Room 404	10:04					See attached data sheets
2	MV	1st Practice Room off Room 404 in cello, C 1/4, No 3	10:09					See attached data sheets
3	MV	Practice Room near 404 on fabric panel	10:13					See attached data sheets
4	MV	Practice Room off 404 inside base	10:16					See attached data sheets
5	MV	Room 406 Band Room on fabric panel center	10:20					See attached data sheets
6	MV	On fabric sound board Room 405 near clock	10:25					See attached data sheets
7	MV	Practice Room 5 on fabric sound board	10:30					See attached data sheets
8	MV	Inside large base next to piano Room 404 No 4	10:40					See attached data sheets

SAMPLE TYPES: FB - FIELD BLANK
B - BULK
MV - MICROVACUUM
V - VARIOUS
BA-BIOAEROSOL

IAQ Surface Sample Analytical Results

ERG Project Number: 240440

Client Name: Okemos Public Schools
Project Name: Kinawa Middle School, Okemos, MI

Date of Sample Collection: 1/22/2025
Date of Submittal: 1/22/2025
Date of Analysis: 1/24/2025

Report Date: 1/24/2025
Analyst: Kaila Schwanitz

Sample #	1	2	3
Sample Type	Microvacuum	Microvacuum	Microvacuum
Sample Location	On cloth panel above Clara bass Room 404 (sound panels)	First practice room off 404 Cello C 1/4 #3	Practice Room 4 on fabric sound board
Spores, Pollen, and Other Particulate (In decreasing order of abundance)	Non Fibrous Matter Synthetic Fibers Cellulose Fibers Opaque Particles Insect Fragments Ascospore Pollen *Pithomyces*	Non Fibrous Matter Synthetic Fibers Cellulose Fibers Opaque Particles Ascospore *Periconia/Myxomycete/Smut*	Non Fibrous Matter Synthetic Fibers Cellulose Fibers Opaque Particles Ascospore
Notes:	This sample contains less than 1% spores.	This sample contains less than 1% spores.	This sample contains less than 1% spores.

Surface samples were analyzed pursuant to the requirements of the ASTM International Standard D-7391.

IAQ Surface Sample Analytical Results

ERG Project Number: 240440

Client Name: Okemos Public Schools
Project Name: Kinawa Middle School, Okemos, MI

Date of Sample Collection: 1/22/2025
Date of Submittal: 1/22/2025
Date of Analysis: 1/24/2025

Report Date: 1/24/2025
Analyst: Kaila Schwanitz

Sample #	4	5	6
Sample Type	Microvacuum	Microvacuum	Microvacuum
Sample Location	Practice Room (bass) off Room	Room 406 (band) back wall center on sound board	On fabric sound board Room 405 near clock
Spores, Pollen, and Other Particulate (In decreasing order of abundance)	Non Fibrous Matter Synthetic Fibers Cellulose Fibers Opaque Particles Ascospore	Non Fibrous Matter Synthetic Fibers Cellulose Fibers Opaque Particles *Aspergillus/Penicillium* Pollen Insect Fragments *Pithomyces* *Periconia/Myxomycete/Smut* Ascospore *Alternaria*	Non Fibrous Matter Synthetic Fibers Cellulose Fibers Opaque Particles Pollen Ascospore *Pithomyces* *Periconia/Myxomycete/Smut*
Notes:	This sample contains less than 1% spores.	This sample contains approximately 3% spores.	This sample contains approximately 3% spores.

Surface samples were analyzed pursuant to the requirements of the ASTM International Standard D-7391.

IAQ Surface Sample Analytical Results

ERG Project Number: 240440

Client Name: Okemos Public Schools
Project Name: Kinawa Middle School, Okemos, MI

Date of Sample Collection: 1/22/2025
Date of Submittal: 1/22/2025
Date of Analysis: 1/24/2025

Report Date: 1/24/2025
Analyst: Kaila Schwanitz

Sample #	7	8	
Sample Type	Microvacuum	Microvacuum	
Sample Location	Practice Room 5 on panel	Inside large base next to piano Room 404	
Spores, Pollen, and Other Particulate (In decreasing order of abundance)	Synthetic Fibers Cellulose Fibers Non Fibrous Matter Pollen Ascospore	Non Fibrous Matter Cellulose Fibers Synthetic Fibers Opaque Particles Ascospore	
Notes:	This sample contains less than 1% spores.	This sample contains less than 1% spores.	

Comments

*Debris rating (% obstructed by particulate matter): 0= no particulate matter detected, 1= >0-5%, 2= 6%-25%, 3= 26%-76%, 4= 75%-90%, 5= >90%. Where debris rating =5, fungal/pollen/other particulate are reported as "present." For debris ratings 2-4, negative bias is expected. The degree of negative bias increases with the percent of the trace that is obstructed.

Samples were received in acceptable condition, unless otherwise indicated. Results relate only to items tested. Results are reported in units of structures per cubic meter of air (s/m^3), except blank samples, where the actual number of observed particles are reported. Spore types listed without a count or other data indicate that the specific analyte was not detected during the course of sample analysis. Spores of the genera *Aspergillus* and *Penicillium* are categorized together due to their small size and spherical shape with few distinguishing characteristics. Other similar spores will be categorized as *Aspergillus*/*Penicillium* unless fruiting bodies allow more precise identifications.

ND= none detected (minimum of 20.3% trace scanned) unless otherwise reported .

Minimum Reporting Limit represents the lowest calculated limit in this report.

Flow Rate is in liters per minute. Time is reported in minutes.

The enclosed data from Environmental Resources Group, LLC (ERG) is for sample(s) collected by our client. The client bears all risk relative to the use of this data, including any course of action or inaction. Further, ERG asserts that the data pertains only to the submitted sample(s). ERG makes no representation or guarantee about the source of the material analyzed, the suitability of the sample size, sample frequency or sample distribution, or the relationship of the submitted sample(s) to the area sampled.

Approved Signatory: _____

Date: 1/27/2025

Environmental Resources Group
3125 Sovereign Drive • Suite B • Lansing, MI 48911
Phone: 517-999-6020 • Fax 248-924-3108

Client Name: Okemos Public Schools
Contact Person: K. Peterson
Project Name/ Number: 240440
Project Location: Kinawa Middle School, Okemos, MI
Email Distribution List:
Phone No.:
Purchase Order No.:

Date	Time	Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PARAMETERS: TAG	HOLD SAMPLE	Remarks:
1/22/25		-01	On cloth panel above Clara bass base Room 404 (sound panels)	A	1	X		MV
		-02	1st practice Room off 404 Cello C1/4 #3	A	1	X		MV
		-03	Practice Room 4 On fabric sound board	A	1	X		MV
		-04	Practice Room bases Off Room	A	1	X		MV
		-05	Room 406 (Band) Back wall center on sound board	A	1	X		MV
		-06	On fabric sound board Room 405 Near clock	A	1	X		MV
		-07	Practice rooms 5 on panel	A	1	X		MV
		-08	Inside large base next to panel Room 404	A	1	X		MV

Matrix Code: S Soil; A Air; O Oil; B Bulks; GW Ground Water; SW Surface Water; W Wastewater; X Other: Specify

Comments:

Samples received in acceptable condition ☑

Sampled/Relinquished By:	Date/ Time	Received By:
	1/22/25 @ 12:40	
Relinquished By:	Date/ Time	Received By:
Relinquished By:	Date/ Time	Received By Laboratory:

Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY

_____Same day _____ 1 bus. day _____ 2 bus. days _____ 3 bus. days _____ 4 bus. days

✓ 5-7 bus. days (standard) Other (specify time/date requirement): _____

LAB USE ONLY

ERG project number: 240440 / 0001 / 0005

Temperature upon receipt at Lab (if applicable):

Please see back for terms and conditions