



*Environmental Consulting Services*

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January 27, 2024

**City of Richmond Public Schools**

Department of Facility Service  
1461 A Commerce Road  
Richmond, Virginia 23224

ATTN.: Mr. Ronald Hathaway, Jr.  
Director of Facilities

RE: Moisture & Mold Assessment Report  
***Westover Hills Elementary School – All Rooms***  
1211 Jahnke Road  
Richmond, Virginia 23225  
FEI Project Number: FEI-23MI641

Dear Mr. Hathaway:

In accordance with your request, a Moisture & Mold Assessment has been performed at the above reference academic facility. France Environmental, Inc. (FEI) is providing this letter report summarizing our findings and sample results from the fieldwork conducted on November 24, 2023. The investigation was performed by FEI Industrial Hygienists, Mr. Andrew H. Baird, Mr. Keith Baird and Mr. Matthew H. Dennis. An additional site visit was performed on December 29, 2023 by FEI Industrial Hygienist Mr. Micheal D. Allshouse to perform resampling of areas that had previously had elevated airborne fungal amplification.

The scope of this assessment was to test for identifiable conditions, if any, that may be affecting the quality of the air in the subject space. The assessment included a visual inspection and air sampling for fungi (mold). At the client's request, air samples were collected from each accessible classroom, office, and academic space within the building. Please find attached with this letter the Laboratory Results; Sample Location Drawing; Photographs of Site Conditions; and Fungal Types/Groups Chart for the air sampling performed.

**VISUAL OBSERVATIONS:**

France Environmental, Inc. performed a visual assessment of the interior areas of the subject spaces. The visual inspection was focused on potential indicators of Indoor Air Quality (IAQ) problems and specifically included areas of visible water damage and visible mold growth. Specific items of interest observed during the inspection are described below:

- Moisture and/or damaged stained lay-in ceiling tiles were observed throughout the building. Staining appears to be from HVAC Duct/Diffuser condensation and past or current pipe and/or roof leaks.
- Visible mold growth was observed on lay-in ceiling tiles in the Hallway.
- Visible mold growth was observed on HVAC Ceiling Units and/or Window Mounted AC Units in the following locations: Rooms 2, 5-8, 11, 13, 16, 19, 21, 24 and 27
- Copy Room – Visible Mold Growth on Metal Duct

### **TOTAL FUNGAL AIR SAMPLING:**

On November 24, 2023, FEI collected a total of fifty-one (51) airborne fungal (mold) spore samples from the following areas:

- All Classrooms, Offices, Commons, Kitchen, Gym, Cafeteria, Clinic, Break Rooms, and Media Center.
- Two (2) exterior samples were collected outside the building for comparison purposes. These samples were collected throughout the day and included a pre-sample before interior air samples were collected, and a post interior air sample.

The air samples were collected at an airflow rate of five (5) liters per minute for five (5) minutes totaling twenty-five (25) liters of air.

### **The results of the fungi samples collected and analyzed are as follows:**

- The results of the air samples collected **did not** indicate airborne fungal amplification when compared to the outside building samples at the time of the air sampling except for the MDF Office, which indicated a trace of ***Stachybotrys***. FEI returned to the school and conducted a second visual inspection and collected an additional air sample from the MDF Office (*Please Refer To “Mold Air Cassette Sample Analysis Laboratory Results” Appendix*)

Microbiological interpretation of sample results poses a challenge for the health and safety professionals as there are at present no strict numerical guidelines which are appropriate for assessing whether microbial levels inside buildings are “safe” or “normal” spore levels. There are currently no regulatory standards for evaluating airborne fungi concentrations for this or any other facility. As these organisms are present everywhere the standard of care is to perform a risk-based analysis. In general, industry standards effective interpretation is based on the comparison of indoor and outdoor samples. In “Clean” buildings, total airborne spore concentrations are generally less than outdoor spore concentrations with similar genera identified within each environment. The presence or absence of a few non-moisture indicator genera in small numbers (<1,000 Counts/M<sup>3</sup>) identified within interior building areas should not be considered abnormal. However, the presence of moisture indicator mold spores (***Chaetomium; Stachybotrys; Rhodotorula; Trichoderma; and Scopulariopsis***) in any significant amounts would indicate chronic moisture intrusion issues and confirmation that molds have colonized and are amplifying within the building. A trace of ***Stachybotrys*** was found at the MDF Office during the initial site visit. A second site visit was performed and another air sample was collected from the MDF Office and no ***Stachybotrys*** was found on the second air sample collected.

### **TOTAL FUNGAL SURFACE SAMPLING:**

FEI collected a total of four (4) direct tape lift surface samples from the following areas:

- One (1) sample was collected from the black growth found on HVAC Duct in Copy Room
- One (1) sample was collected from the black growth on HVAC Ceiling Vent in Room #11
- One (1) sample was collected from the black growth on Lay-In Ceiling Tile in the Hallway
- One (1) sample was collected from the black growth on Window AC Vent in Teachers #27

The direct microscopic examination of the surface samples determined whether or not fungi is growing and/or still present on the surfaces sampled, and if so, what kinds of fungi was present.

**The results of the fungi surface sample collected and analyzed are as follows:**

- The results of the surface **sample T1** collected from the Copy Room black growth on metal HVAC Duct indicated the presence of **Cladosporium sp. and Hyphae**. The estimated number of spores on the sample for this species was described by the laboratory as “Heavy”, which the laboratory defines as 200 or more spores observed. Definite Mold Growth! *(Please Refer To “Surface Sample Analysis Laboratory Results” Appendix)*
- The results of the surface **sample T2** collected from the Room #11 black growth on the HVAC Ceiling Unit indicated the presence of **Cladosporium sp. and Hyphae**. The estimated number of spores on the sample for this species was described by the laboratory as “Heavy”, which the laboratory defines as 200 or more spores observed. Definite Mold Growth! *(Please Refer To “Surface Sample Analysis Laboratory Results” Appendix)*
- The results of the surface **sample T3** collected from the Hallway black growth on the lay-in ceiling tile indicated the presence of **Aspergillus sp., Cladosporium sp., Hyphae and Stachybotrys sp.** The estimated number of spores on the sample for this species was described by the laboratory as “Heavy”, which the laboratory defines as 200 or more spores observed. Definite Mold Growth! *(Please Refer To “Surface Sample Analysis Laboratory Results” Appendix)*
- The results of the surface **sample T4** collected from the Teachers #27 black growth on the Window AC Unit indicated the presence of **Cladosporium sp., Curvularia sp., Mycelial Fragments and Myxomycetes**. The estimated number of spores on the sample for this species was described by the laboratory as “Rare”; “Light”; and “Heavy”. **Rare** being defined as (0-10) spores, no hyphae – spores only, no evidence of active growth at sample site. **Light** being defined as (10-100) spores, light hyphae – possible growth at sample site. **Heavy** by the laboratory defines as 200 or more spores observed. Definite Mold Growth! *(Please Refer To “Surface Sample Analysis Laboratory Results” Appendix)*

**COMFORT PARAMETER TESTING:**

FEI also conducted Comfort Parameter Sampling which included Temperature and Relative Humidity by utilizing electronic recording monitors (EXTECH Model 445580 Humidity/Temperature Pen). Measurements were collected throughout the building during the inspection. Description of recommended levels and comfort parameter results are found below.

**TEMPERATURE (T)**

The measurement of the air temperature is used to determine comfort level parameters associated with the indoor environment. The measuring device was used to collect the temperature in each of the rooms inspected. The American Society of Heating, Refrigerating and Air-conditioning Engineers, Inc. (ASHRAE) provides guidance on comfort ranges for temperature depending on the season. These numbers generally range from 68 to 75 Degrees Fahrenheit (°F) during the winter months and from 73°F to 79°F during the summer months. These ranges should be acceptable for sedentary or slightly active persons. The temperature measured in the building ranged from 60.0°F to 75.0°F. The temperatures measured outside were 54.0°F in the morning, 58.2°F mid-day and 61.7°F in the afternoon.

**RELATIVE HUMIDITY (RH)**

Measurement of the Relative Humidity are used to indicate comfort level parameters associated with the indoor air. Overly dry or overly humid air are indicators of air quality issues caused by the HVAC system. ASHRAE has set standards that present guidelines for human occupation. Relative Humidity levels below 30% are associated with increased discomfort and drying of the mucus membranes and skin. High humidity can result in condensation and the subsequent development

of mold and fungi along with the increase of dust mite propagation. Ideal indoor Relative Humidity for winter months is 35%, while 50% is optimal in the summer months. Relative Humidity levels  $\leq 65\%$  are considered acceptable by ASHRAE standards. The Relative Humidity levels in the building at the time of the sampling ranged from 21.1% to 43.3%. The outside humidity readings were 43.4% in the morning, 30.9% mid-day and 23.2% in the afternoon.

**CONCLUSIONS/RECOMMENDATIONS:**

- The airborne fungal spore levels for the indoor air samples at the time of this sampling event **do not** indicate active amplification of fungal spores based on comparison to the outdoor fungal spore levels.
- Mold-impacted Ceiling Tiles in Hallway (confirmed by surface sampling) should be removed and the surrounding ceiling grid surfaces cleaned in accordance with industry standard mold remediation procedures, such as those outlined in the U.S. Environmental Protection Agency (EPA) publication Mold Remediation in Schools and Commercial Buildings (September 2008).
- As part of an on-going maintenance program, it is recommended that water-stained ceiling tiles, when identified, be investigated to determine the water source and try and correct/reduce the source of the moisture.
- As part of the on-going maintenance & custodial activities, it is recommended that HVAC ceiling diffusers and wall mounted HVAC Units be cleaned (HEPA Vacuumed and wiped down) periodically throughout the year.
- To improve the perception of the buildings indoor air quality, the school system may consider replacing water stained and/or dirty ceiling tiles as an on-going maintenance item.
- As part of the on-going maintenance program, it is recommended HVAC filters and air filtration machines are maintained in good condition with preventative maintenance in accordance with the manufacturer's recommendations.

It is important to note that the reported microbial levels are only reflective of conditions at the time of this test and that microbial populations can vary over time, depending upon a number of conditions, including environmental factors, i.e., temperature and relative humidity. FEI, by virtue of providing the services described in this report, does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state or federal public agencies any conditions at the site that may present a potential danger to public health, safety, or the environment.

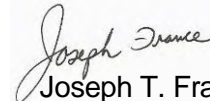
Thank you for choosing FEI as your consultant for this project. If you have any questions, or if we can be of additional service, please contact the undersigned at 804.716.0560.

Respectfully submitted,

**FRANCE ENVIRONMENTAL, INC.**



Andrew H. Baird  
Industrial Hygienist



Joseph T. France  
Project Manager

Attachments: Mold Air Cassettes/Tape Lift Analytical Laboratory Report  
Drawing Indicating Sample Locations  
Photographs of Site Conditions  
Fungal Types and Group Chart

**MOLD AIR CASSETTE/TAPE LIFT ANALYTICAL  
LABORATORY RESULTS**

**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**  
Jill G. CarrilloAmeriSci Job #:  
**323111128**  
FINAL REPORT**Client: France Environmental, Inc.**Address: 7834 Forest Hill Ave  
Suite 7  
Richmond, VA 23225**Client Job#:** FEI-23MI641**Client Job Name:** CORPS: Westover Hills Elementary  
School**Date Received:** 11/27/23**Date Reported:** 11/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-01			323111128-02			323111128-03			323111128-04		
Sample Number	2944039			2916512			2916502			2916492		
Sample Name	Outside Building - Pre - Front			Front Entrance			Rm 1			Rm 2		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			2			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Pollen	ND	n/a	ND	40	n/a	1	ND	n/a	ND	ND	n/a	ND
Fibers	120	n/a	3	400	n/a	10	160	n/a	4	120	n/a	3
Mycelial Fragments	80	n/a	2	80	n/a	2	ND	n/a	ND	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	40	<1	1	ND			ND			ND		
Ascospores	280	3	7	40	3	1	40	3	1	40	4	1
Aspergillus/Penicillium	ND			160	13	4	80	7	2	80	8	2
Basidiospores	7120	73	178	760	59	19	960	83	24	720	75	18
Bipolaris/Drechslera	ND			ND			ND			ND		
Cladosporium sp.	2280	23	57	120	9	3	40	3	1	80	8	2
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	ND			160	13	4	40	3	1	40	4	1
Nigrospora sp.	ND			40	3	1	ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>9720</b>	<b>100</b>	<b>243</b>	<b>1280</b>	<b>100</b>	<b>32</b>	<b>1160</b>	<b>100</b>	<b>29</b>	<b>960</b>	<b>100</b>	<b>24</b>

ND = None Detected

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MIDLOTHIAN, VIRGINIA 23112  
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Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			2			1			1		
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Torula sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>9720</b>	<b>100</b>	<b>243</b>	<b>1280</b>	<b>100</b>	<b>32</b>	<b>1160</b>	<b>100</b>	<b>29</b>	<b>960</b>	<b>100</b>	<b>24</b>

ND = None Detected

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**Client Job Name:** CORPS: Westover Hills Elementary School**Date Received:** 11/27/23  
**Date Reported:** 11/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-05			323111128-06			323111128-07			323111128-08		
Sample Number	2916482			2916523			2916513			2916503		
Sample Name	Rm 3			Rm 4			Rm 5			Rm 6		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			2			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Pollen	ND	n/a	ND	40	n/a	1	ND	n/a	ND	40	n/a	1
Fibers	80	n/a	2	360	n/a	9	ND	n/a	ND	80	n/a	2
Mycelial Fragments	ND	n/a	ND	40	n/a	1	ND	n/a	ND	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Ascospores	80	7	2	80	4	2	40	2	1	ND		
Aspergillus/Penicillium	360	33	9	80	4	2	ND			80	10	2
Basidiospores	480	44	12	1920	89	48	1960	94	49	680	85	17
Bipolaris/Drechslera	ND			ND			ND			ND		
Cladosporium sp.	160	15	4	40	2	1	80	4	2	ND		
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			40	2	1	ND			40	5	1
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
Nigrospora sp.	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>1080</b>	<b>100</b>	<b>27</b>	<b>2160</b>	<b>100</b>	<b>54</b>	<b>2080</b>	<b>100</b>	<b>52</b>	<b>800</b>	<b>100</b>	<b>20</b>

ND = None Detected



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Sample Number	2916482			2916523			2916513			2916503		
Sample Name	Rm 3			Rm 4			Rm 5			Rm 6		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			2			1			1		
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Torula sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>1080</b>	<b>100</b>	<b>27</b>	<b>2160</b>	<b>100</b>	<b>54</b>	<b>2080</b>	<b>100</b>	<b>52</b>	<b>800</b>	<b>100</b>	<b>20</b>

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AmeriSci Number	323111128-09			323111128-10			323111128-11			323111128-12		
Sample Number	2916493			2916483			2916524			2916130		
Sample Name	Rm 7			Rm 8			Teacher's Lounge			Library		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Pollen	ND	n/a	ND	ND	n/a	ND	40	n/a	1	ND	n/a	ND
Fibers	120	n/a	3	280	n/a	7	80	n/a	2	40	n/a	1
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	40	n/a	1
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Ascospores	40	2	1	ND			80	2	2	ND		
Aspergillus/Penicillium	ND			ND			200	6	5	ND		
Basidiospores	1520	90	38	1240	86	31	2720	82	68	240	75	6
Bipolaris/Drechslera	40	2	1	ND			ND			ND		
Cladosporium sp.	80	5	2	160	11	4	280	8	7	ND		
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	ND			40	3	1	40	1	1	ND		
Nigrospora sp.	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>1680</b>	<b>100</b>	<b>42</b>	<b>1440</b>	<b>100</b>	<b>36</b>	<b>3320</b>	<b>100</b>	<b>83</b>	<b>240</b>	<b>100</b>	<b>6</b>

ND = None Detected

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AmeriSci Number	323111128-09			323111128-10			323111128-11			323111128-12		
Sample Number	2916493			2916483			2916524			2916130		
Sample Name	Rm 7			Rm 8			Teacher's Lounge			Library		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
Fungal Identification	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count
Torula sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>1680</b>	<b>100</b>	<b>42</b>	<b>1440</b>	<b>100</b>	<b>36</b>	<b>3320</b>	<b>100</b>	<b>83</b>	<b>240</b>	<b>100</b>	<b>6</b>

ND = None Detected



**Client: France Environmental, Inc.**  
**Address: 7834 Forest Hill Ave**  
**Suite 7**  
**Richmond, VA 23225**

**Client Job#:** FEI-23MI641  
**Client Job Name:** CORPS: Westover Hills Elementary School

**Date Received:** 11/27/23  
**Date Reported:** 11/29/23

**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-13			323111128-14			323111128-15			323111128-16		
Sample Number	2916125			2916126			2916131			2916127		
Sample Name	Library Rm 28			Library Conf			MDF			AU		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	120	n/a	3	ND	n/a	ND	240	n/a	6	160	n/a	4
Mycelial Fragments	ND	n/a	ND	40	n/a	1	40	n/a	1	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Ascospores	ND			40	5	1	ND			160	20	4
Aspergillus/Penicillium	ND			160	20	4	40	6	1	ND		
Basidiospores	400	59	10	560	70	14	480	71	12	280	35	7
Bipolaris/Drechslera	ND			ND			ND			ND		
Cladosporium sp.	80	12	2	40	5	1	ND			360	45	9
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
Nigrospora sp.	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			120	18	3	ND		
<b>Total Fungal Spores</b>	<b>480</b>	<b>100</b>	<b>12</b>	<b>800</b>	<b>100</b>	<b>20</b>	<b>680</b>	<b>100</b>	<b>17</b>	<b>800</b>	<b>100</b>	<b>20</b>

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**  
Jill G. CarrilloAmeriSci Job #:  
**323111128**  
FINAL REPORT**Client: France Environmental, Inc.**Address: 7834 Forest Hill Ave  
Suite 7  
Richmond, VA 23225**Client Job#:** FEI-23MI641**Client Job Name:** CORPS: Westover Hills Elementary  
School**Date Received:** 11/27/23**Date Reported:** 11/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-13			323111128-14			323111128-15			323111128-16		
Sample Number	2916125			2916126			2916131			2916127		
Sample Name	Library Rm 28			Library Conf			MDF			AU		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Torula sp.	ND			ND			40	6	1	ND		
<b>Total Fungal Spores</b>	<b>480</b>	<b>100</b>	<b>12</b>	<b>800</b>	<b>100</b>	<b>20</b>	<b>680</b>	<b>100</b>	<b>17</b>	<b>800</b>	<b>100</b>	<b>20</b>

ND = None Detected



**Client: France Environmental, Inc.**  
**Address: 7834 Forest Hill Ave**  
**Suite 7**  
**Richmond, VA 23225**

**Client Job#: FEI-23MI641**  
**Client Job Name: CORPS: Westover Hills Elementary School**

**Date Received: 11/27/23**  
**Date Reported: 11/29/23**

**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-17			323111128-18			323111128-19			323111128-20		
Sample Number	2916128			2916514			2916129			2910132		
Sample Name	Teacher's #27			Gym			Gym Hallway			Rm 19		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	240	n/a	6	80	n/a	2	160	n/a	4	80	n/a	2
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Ascospores	600	38	15	80	13	2	80	33	2	40	13	1
Aspergillus/Penicillium	ND			80	13	2	ND			ND		
Basidiospores	840	54	21	440	73	11	80	33	2	280	88	7
Bipolaris/Drechslera	ND			ND			ND			ND		
Cladosporium sp.	120	8	3	ND			40	17	1	ND		
Curvularia sp.	ND			ND			40	17	1	ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
Nigrospora sp.	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>1560</b>	<b>100</b>	<b>39</b>	<b>600</b>	<b>100</b>	<b>15</b>	<b>240</b>	<b>100</b>	<b>6</b>	<b>320</b>	<b>100</b>	<b>8</b>

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**  
Jill G. CarrilloAmeriSci Job #:  
**323111128**  
FINAL REPORT**Client: France Environmental, Inc.****Address: 7834 Forest Hill Ave**  
**Suite 7**  
**Richmond, VA 23225****Client Job#:** FEI-23MI641  
**Client Job Name:** CORPS: Westover Hills Elementary  
School**Date Received:** 11/27/23  
**Date Reported:** 11/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-17			323111128-18			323111128-19			323111128-20		
Sample Number	2916128			2916514			2916129			2910132		
Sample Name	Teacher's #27			Gym			Gym Hallway			Rm 19		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
Fungal Identification	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count
Torula sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>1560</b>	<b>100</b>	<b>39</b>	<b>600</b>	<b>100</b>	<b>15</b>	<b>240</b>	<b>100</b>	<b>6</b>	<b>320</b>	<b>100</b>	<b>8</b>

ND = None Detected



**AmeriSci Bio-Chem**

13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800

Analyzed By:  
Jill G. Carrillo

AmeriSci Job #:  
**323111128**  
FINAL REPORT

**Client: France Environmental, Inc.**  
**Address: 7834 Forest Hill Ave**  
**Suite 7**  
**Richmond, VA 23225**

**Client Job#:** FEI-23MI641  
**Client Job Name:** CORPS: Westover Hills Elementary School

**Date Received:** 11/27/23  
**Date Reported:** 11/29/23

**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-21			323111128-22			323111128-23			323111128-24		
Sample Number	2916504			2916133			2916484			2916494		
Sample Name	Rm 17			Rm 16			Rm 20			Rm 15		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
Other	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	120	n/a	3	160	n/a	4	80	n/a	2	40	n/a	1
Mycelial Fragments	40	n/a	1	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fungal Identification	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count
Alternaria sp.	ND			ND			ND			ND		
Ascospores	ND			ND			80	6	2	ND		
Aspergillus/Penicillium	ND			ND			40	3	1	40	25	1
Basidiospores	80	50	2	80	100	2	1000	81	25	120	75	3
Bipolaris/Drechslera	ND			ND			ND			ND		
Cladosporium sp.	ND			ND			120	10	3	ND		
Curvularia sp.	40	25	1	ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	40	25	1	ND			ND			ND		
Nigrospora sp.	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>160</b>	<b>100</b>	<b>4</b>	<b>80</b>	<b>100</b>	<b>2</b>	<b>1240</b>	<b>100</b>	<b>31</b>	<b>160</b>	<b>100</b>	<b>4</b>

ND = None Detected



**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**  
Jill G. CarrilloAmeriSci Job #:  
**323111128**  
FINAL REPORT**Client: France Environmental, Inc.**  
**Address: 7834 Forest Hill Ave**  
**Suite 7**  
**Richmond, VA 23225****Client Job#:** FEI-23MI641  
**Client Job Name:** CORPS: Westover Hills Elementary School**Date Received:** 11/27/23  
**Date Reported:** 11/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-21			323111128-22			323111128-23			323111128-24		
Sample Number	2916504			2916133			2916484			2916494		
Sample Name	Rm 17			Rm 16			Rm 20			Rm 15		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
Fungal Identification	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count
Torula sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>160</b>	<b>100</b>	<b>4</b>	<b>80</b>	<b>100</b>	<b>2</b>	<b>1240</b>	<b>100</b>	<b>31</b>	<b>160</b>	<b>100</b>	<b>4</b>

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**  
Jill G. CarrilloAmeriSci Job #:  
**323111128**  
FINAL REPORT**Client: France Environmental, Inc.**  
**Address: 7834 Forest Hill Ave**  
**Suite 7**  
**Richmond, VA 23225****Client Job#:** FEI-23MI641  
**Client Job Name:** CORPS: Westover Hills Elementary School**Date Received:** 11/27/23  
**Date Reported:** 11/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-25			323111128-26			323111128-27			323111128-28		
Sample Number	2916134			1916137			2916135			2916138		
Sample Name	Rm 14			Rm 21			Rm 22			Rm 13		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			2			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	80	n/a	2
Fibers	80	n/a	2	400	n/a	10	160	n/a	4	200	n/a	5
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	40	n/a	1	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Ascospores	160	27	4	ND			40	33	1	40	7	1
Aspergillus/Penicillium	ND			160	17	4	ND			ND		
Basidiospores	320	53	8	680	71	17	ND			480	86	12
Bipolaris/Drechslera	ND			ND			ND			ND		
Cladosporium sp.	120	20	3	ND			ND			ND		
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	ND			120	13	3	80	67	2	40	7	1
Nigrospora sp.	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>600</b>	<b>100</b>	<b>15</b>	<b>960</b>	<b>100</b>	<b>24</b>	<b>120</b>	<b>100</b>	<b>3</b>	<b>560</b>	<b>100</b>	<b>14</b>

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**  
Jill G. CarrilloAmeriSci Job #:  
**323111128**  
FINAL REPORT**Client: France Environmental, Inc.**  
**Address: 7834 Forest Hill Ave**  
**Suite 7**  
**Richmond, VA 23225****Client Job#:** FEI-23MI641  
**Client Job Name:** CORPS: Westover Hills Elementary School**Date Received:** 11/27/23  
**Date Reported:** 11/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-25			323111128-26			323111128-27			323111128-28		
Sample Number	2916134			1916137			2916135			2916138		
Sample Name	Rm 14			Rm 21			Rm 22			Rm 13		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			2			1			1		
Fungal Identification	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count
Torula sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>600</b>	<b>100</b>	<b>15</b>	<b>960</b>	<b>100</b>	<b>24</b>	<b>120</b>	<b>100</b>	<b>3</b>	<b>560</b>	<b>100</b>	<b>14</b>

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**  
Jill G. Carrillo**AmeriSci Job #:**  
**323111128**  
FINAL REPORT**Client: France Environmental, Inc.**  
**Address: 7834 Forest Hill Ave**  
**Suite 7**  
**Richmond, VA 23225****Client Job#:** FEI-23MI641  
**Client Job Name:** CORPS: Westover Hills Elementary School**Date Received:** 11/27/23  
**Date Reported:** 11/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-29			323111128-30			323111128-31			323111128-32		
Sample Number	2916136			2916174			2916173			2916172		
Sample Name	Rm 24			Cafetorium			Kitchen			Kitchen Office		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	80	n/a	2	80	n/a	2	120	n/a	3	40	n/a	1
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Ascospores	ND			120	6	3	120	7	3	ND		
Aspergillus/Penicillium	ND			ND			40	2	1	40	50	1
Basidiospores	400	91	10	2040	94	51	1520	88	38	40	50	1
Bipolaris/Drechslera	ND			ND			ND			ND		
Cladosporium sp.	40	9	1	ND			40	2	1	ND		
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
Nigrospora sp.	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>440</b>	<b>100</b>	<b>11</b>	<b>2160</b>	<b>100</b>	<b>54</b>	<b>1720</b>	<b>100</b>	<b>43</b>	<b>80</b>	<b>100</b>	<b>2</b>

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**  
Jill G. CarrilloAmeriSci Job #:  
**323111128**  
FINAL REPORT**Client: France Environmental, Inc.**Address: 7834 Forest Hill Ave  
Suite 7  
Richmond, VA 23225**Client Job#:** FEI-23MI641**Client Job Name:** CORPS: Westover Hills Elementary  
School**Date Received:** 11/27/23**Date Reported:** 11/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-29			323111128-30			323111128-31			323111128-32		
Sample Number	2916136			2916174			2916173			2916172		
Sample Name	Rm 24			Cafetorium			Kitchen			Kitchen Office		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
Fungal Identification	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count
Torula sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>440</b>	<b>100</b>	<b>11</b>	<b>2160</b>	<b>100</b>	<b>54</b>	<b>1720</b>	<b>100</b>	<b>43</b>	<b>80</b>	<b>100</b>	<b>2</b>

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**  
Jill G. CarrilloAmeriSci Job #:  
**323111128**  
FINAL REPORT**Client: France Environmental, Inc.**  
**Address: 7834 Forest Hill Ave**  
**Suite 7**  
**Richmond, VA 23225****Client Job#:** FEI-23MI641  
**Client Job Name:** CORPS: Westover Hills Elementary School**Date Received:** 11/27/23  
**Date Reported:** 11/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-33			323111128-34			323111128-35			323111128-36		
Sample Number	2916171			2916170			2916169			2916168		
Sample Name	Cafetorium Office			Music Room			Art Room			Front Office		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	2			1			2			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	480	n/a	12	80	n/a	2	160	n/a	4	80	n/a	2
Mycelial Fragments	80	n/a	2	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Ascospores	160	7	4	40	8	1	360	13	9	ND		
Aspergillus/Penicillium	ND			ND			ND			80	7	2
Basidiospores	1840	77	46	440	85	11	2120	79	53	840	78	21
Bipolaris/Drechslera	ND			ND			ND			ND		
Cladosporium sp.	120	5	3	ND			40	1	1	160	15	4
Curvularia sp.	40	2	1	ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	200	8	5	40	8	1	160	6	4	ND		
Nigrospora sp.	ND			ND			ND			ND		
Pithomyces sp.	40	2	1	ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>2400</b>	<b>100</b>	<b>60</b>	<b>520</b>	<b>100</b>	<b>13</b>	<b>2680</b>	<b>100</b>	<b>67</b>	<b>1080</b>	<b>100</b>	<b>27</b>

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**  
Jill G. CarrilloAmeriSci Job #:  
**323111128**  
FINAL REPORT**Client: France Environmental, Inc.**Address: 7834 Forest Hill Ave  
Suite 7  
Richmond, VA 23225**Client Job#:** FEI-23MI641**Client Job Name:** CORPS: Westover Hills Elementary  
School**Date Received:** 11/27/23**Date Reported:** 11/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-33			323111128-34			323111128-35			323111128-36		
Sample Number	2916171			2916170			2916169			2916168		
Sample Name	Cafetorium Office			Music Room			Art Room			Front Office		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	2			1			2			1		
Fungal Identification	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count
Torula sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>2400</b>	<b>100</b>	<b>60</b>	<b>520</b>	<b>100</b>	<b>13</b>	<b>2680</b>	<b>100</b>	<b>67</b>	<b>1080</b>	<b>100</b>	<b>27</b>

ND = None Detected



**Client: France Environmental, Inc.**  
**Address: 7834 Forest Hill Ave**  
**Suite 7**  
**Richmond, VA 23225**

**Client Job#: FEI-23MI641**  
**Client Job Name: CORPS: Westover Hills Elementary School**

**Date Received: 11/27/23**  
**Date Reported: 11/29/23**

**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-37			323111128-38			323111128-39			323111128-40		
Sample Number	2916167			2916166			2916165			2916164		
Sample Name	Asst Principal			Principal			Counselor			Nurse		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			2			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	80	n/a	2	120	n/a	3	80	n/a	2	40	n/a	1
Mycelial Fragments	40	n/a	1	160	n/a	4	ND	n/a	ND	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	40	4	1	ND			ND			ND		
Ascospores	80	8	2	80	10	2	160	11	4	ND		
Aspergillus/Penicillium	160	15	4	160	20	4	ND			ND		
Basidiospores	520	50	13	480	60	12	1160	83	29	840	91	21
Bipolaris/Drechslera	ND			ND			ND			ND		
Cladosporium sp.	120	12	3	ND			40	3	1	80	9	2
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	120	12	3	80	10	2	ND			ND		
Nigrospora sp.	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			40	3	1	ND		
Stachybotrys sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>1040</b>	<b>100</b>	<b>26</b>	<b>800</b>	<b>100</b>	<b>20</b>	<b>1400</b>	<b>100</b>	<b>35</b>	<b>920</b>	<b>100</b>	<b>23</b>

ND = None Detected



**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**  
Jill G. CarrilloAmeriSci Job #:  
**323111128**  
FINAL REPORT**Client: France Environmental, Inc.**Address: 7834 Forest Hill Ave  
Suite 7  
Richmond, VA 23225**Client Job#:** FEI-23MI641**Client Job Name:** CORPS: Westover Hills Elementary  
School**Date Received:** 11/27/23**Date Reported:** 11/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-37			323111128-38			323111128-39			323111128-40		
Sample Number	2916167			2916166			2916165			2916164		
Sample Name	Asst Principal			Principal			Counselor			Nurse		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			2			1			1		
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Torula sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>1040</b>	<b>100</b>	<b>26</b>	<b>800</b>	<b>100</b>	<b>20</b>	<b>1400</b>	<b>100</b>	<b>35</b>	<b>920</b>	<b>100</b>	<b>23</b>

ND = None Detected



**Client: France Environmental, Inc.**  
**Address: 7834 Forest Hill Ave**  
**Suite 7**  
**Richmond, VA 23225**

**Client Job#:** FEI-23MI641  
**Client Job Name:** CORPS: Westover Hills Elementary School

**Date Received:** 11/27/23  
**Date Reported:** 11/29/23

**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-41			323111128-42			323111128-43			323111128-44		
Sample Number	2916163			2916162			2916161			2916160		
Sample Name	Copy Center			Conference			CIS Coordinator Rm IA			Custodian Office 1		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			1			2			2		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	200	n/a	5	40	n/a	1	200	n/a	5	160	n/a	4
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	40	n/a	1
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Ascospores	240	17	6	ND			160	9	4	40	4	1
Aspergillus/Penicillium	80	6	2	ND			ND			40	4	1
Basidiospores	920	64	23	120	75	3	1400	81	35	840	81	21
Bipolaris/Drechslera	ND			ND			ND			ND		
Cladosporium sp.	200	14	5	ND			80	5	2	120	12	3
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	ND			40	25	1	80	5	2	ND		
Nigrospora sp.	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>1440</b>	<b>100</b>	<b>36</b>	<b>160</b>	<b>100</b>	<b>4</b>	<b>1720</b>	<b>100</b>	<b>43</b>	<b>1040</b>	<b>100</b>	<b>26</b>

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**  
Jill G. CarrilloAmeriSci Job #:  
**323111128**  
FINAL REPORT**Client: France Environmental, Inc.****Address: 7834 Forest Hill Ave**  
**Suite 7**  
**Richmond, VA 23225****Client Job#:** FEI-23MI641  
**Client Job Name:** CORPS: Westover Hills Elementary  
School**Date Received:** 11/27/23  
**Date Reported:** 11/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-41			323111128-42			323111128-43			323111128-44		
Sample Number	2916163			2916162			2916161			2916160		
Sample Name	Copy Center			Conference			CIS Coordinator Rm IA			Custodian Office 1		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	1			1			2			2		
Fungal Identification	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count
Torula sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>1440</b>	<b>100</b>	<b>36</b>	<b>160</b>	<b>100</b>	<b>4</b>	<b>1720</b>	<b>100</b>	<b>43</b>	<b>1040</b>	<b>100</b>	<b>26</b>

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**  
Jill G. CarrilloAmeriSci Job #:  
**323111128**  
FINAL REPORT**Client: France Environmental, Inc.**Address: 7834 Forest Hill Ave  
Suite 7  
Richmond, VA 23225**Client Job#:** FEI-23MI641**Client Job Name:** CORPS: Westover Hills Elementary  
School**Date Received:** 11/27/23**Date Reported:** 11/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-45			323111128-46			323111128-47			323111128-48		
Sample Number	2916159			2916158			2916157			2916156		
Sample Name	Custodian Office 2			Rm 9			Rm 10			Rm 11		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	2			1			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	120	n/a	3	80	n/a	2	160	n/a	4	40	n/a	1
Mycelial Fragments	40	n/a	1	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Ascospores	80	4	2	40	7	1	40	6	1	120	38	3
Aspergillus/Penicillium	120	6	3	40	7	1	ND			ND		
Basidiospores	1520	76	38	480	80	12	520	81	13	200	63	5
Bipolaris/Drechslera	ND			ND			ND			ND		
Cladosporium sp.	240	12	6	ND			40	6	1	ND		
Curvularia sp.	40	2	1	ND			ND			ND		
Epicoccum sp.	ND			ND			40	6	1	ND		
Myxomycetes/Periconia/Smuts	ND			40	7	1	ND			ND		
Nigrospora sp.	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>2000</b>	<b>100</b>	<b>50</b>	<b>600</b>	<b>100</b>	<b>15</b>	<b>640</b>	<b>100</b>	<b>16</b>	<b>320</b>	<b>100</b>	<b>8</b>

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**  
Jill G. CarrilloAmeriSci Job #:  
**323111128**  
FINAL REPORT**Client: France Environmental, Inc.**Address: 7834 Forest Hill Ave  
Suite 7  
Richmond, VA 23225**Client Job#:** FEI-23MI641**Client Job Name:** CORPS: Westover Hills Elementary  
School**Date Received:** 11/27/23**Date Reported:** 11/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-45			323111128-46			323111128-47			323111128-48		
Sample Number	2916159			2916158			2916157			2916156		
Sample Name	Custodian Office 2			Rm 9			Rm 10			Rm 11		
Analysis Date	11/29/2023			11/29/2023			11/29/2023			11/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40			40		
Background Density	2			1			1			1		
Fungal Identification	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count	Count/M <sup>3</sup>	%	Raw Count
Torula sp.	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>2000</b>	<b>100</b>	<b>50</b>	<b>600</b>	<b>100</b>	<b>15</b>	<b>640</b>	<b>100</b>	<b>16</b>	<b>320</b>	<b>100</b>	<b>8</b>

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**  
Jill G. CarrilloAmeriSci Job #:  
**323111128**  
FINAL REPORT**Client: France Environmental, Inc.**Address: 7834 Forest Hill Ave  
Suite 7  
Richmond, VA 23225**Client Job#:** FEI-23MI641**Client Job Name:** CORPS: Westover Hills Elementary  
School**Date Received:** 11/27/23**Date Reported:** 11/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number		323111128-49			323111128-50			323111128-51					
Sample Number	2916155			2916154			2916153						
Sample Name	Rm 12			Rm 23			Outside Building - Post - Back						
Analysis Date	11/29/2023			11/29/2023			11/29/2023						
Volume (L)	25			25			25						
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40						
Background Density	1			1			2						
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND				
Fibers	ND	n/a	ND	80	n/a	2	200	n/a	5				
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	80	n/a	2				
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	
Alternaria sp.	ND			ND			ND						
Ascospores	ND			40	8	1	360	5	9				
Aspergillus/Penicillium	40	6	1	ND			ND						
Basidiospores	600	94	15	440	92	11	5320	76	133				
Bipolaris/Drechslera	ND			ND			ND						
Cladosporium sp.	ND			ND			1280	18	32				
Curvularia sp.	ND			ND			ND						
Epicoccum sp.	ND			ND			ND						
Myxomycetes/Periconia/Smuts	ND			ND			ND						
Nigrospora sp.	ND			ND			ND						
Pithomyces sp.	ND			ND			ND						
Stachybotrys sp.	ND			ND			ND						
<b>Total Fungal Spores</b>	<b>640</b>	<b>100</b>	<b>16</b>	<b>480</b>	<b>100</b>	<b>12</b>	<b>6960</b>	<b>100</b>	<b>174</b>				

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**  
Jill G. CarrilloAmeriSci Job #:  
**323111128**  
FINAL REPORT**Client: France Environmental, Inc.****Address: 7834 Forest Hill Ave  
Suite 7  
Richmond, VA 23225****Client Job#: FEI-23MI641**  
**Client Job Name: CORPS: Westover Hills Elementary  
School****Date Received: 11/27/23**  
**Date Reported: 11/29/23****Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111128-49			323111128-50			323111128-51					
Sample Number	2916155			2916154			2916153					
Sample Name	Rm 12			Rm 23			Outside Building - Post - Back					
Analysis Date	11/29/2023			11/29/2023			11/29/2023					
Volume (L)	25			25			25					
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40			40					
Background Density	1			1			2					
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Torula sp.	ND			ND			ND					
<b>Total Fungal Spores</b>	<b>640</b>	<b>100</b>	<b>16</b>	<b>480</b>	<b>100</b>	<b>12</b>	<b>6960</b>	<b>100</b>	<b>174</b>			

ND = None Detected

Results relate only to the items tested and are reported mathematically to significant figures.

Name/Title: Jill G. Carrillo / Analyst

Signature:

Date: 11/29/23Name/Title: Justin B. Liverman / Analyst

Reviewed By:

Date: 11/29/23

**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800

AmeriSci Job #:

**32311128**

FINAL REPORT

**Client:** France Environmental, Inc.  
**Address:** 7834 Forest Hill Ave  
Suite 7  
Richmond, VA 23225**Client Job#:** FEI-23MI641  
**Client Job Name:** CORPS: Westover Hills Elementary  
School**Date Received:** 11/27/23**Date Reported:** 11/29/23**Direct Fungal Identification (SOP# 3.21.01)****AmeriSci Job # 32311128-52****Sample #:** T1      **Sample description:** Copy Room - Black On HVAC Duct      **Analysis Date:** 11/29/23

<u>Fungal Identification</u>	<u>Estimated Amount</u>	<u>Comments</u>
Cladosporium sp.	Heavy	
Hyphae	Heavy	

**AmeriSci Job # 32311128-53****Sample #:** T2      **Sample description:** 11 - Black On Ceiling Unit Vent      **Analysis Date:** 11/29/23

<u>Fungal Identification</u>	<u>Estimated Amount</u>	<u>Comments</u>
Cladosporium sp.	Heavy	
Hyphae	Heavy	

**AmeriSci Job # 32311128-54****Sample #:** T3      **Sample description:** Hallway - Black On Lay-In Ceiling Tile      **Analysis Date:** 11/29/23

<u>Fungal Identification</u>	<u>Estimated Amount</u>	<u>Comments</u>
Aspergillus sp.	Heavy	
Cladosporium sp.	Heavy	
Hyphae	Heavy	
Stachybotrys sp.	Heavy	

**AmeriSci Job # 32311128-55****Sample #:** T4      **Sample description:** Teachers #27 - Black On Window AC Unit      **Analysis Date:** 11/29/23

<u>Fungal Identification</u>	<u>Estimated Amount</u>	<u>Comments</u>
Cladosporium sp.	Heavy	
Curvularia sp.	Rare	
Mycelial Fragments	Light	
Myxomycetes	Rare	

Minimum reporting limit is no fungi detected

**Rare: 1 - 10 Spores****Light: 11 - 100 Spores****Moderate: 101 - 200 Spores****Heavy: 200+ Spores**

Results relate only to the items tested.

Name/Title: Jill G. Carrillo / AnalystName/Title: Justin B. Liverman / Analyst

Signature:

Reviewed By:

Date: 11/29/23Date: 11/29/23

Page 1 of 1





13635 Genito Road Midlothian, VA 23112  
 (804) 763-1200 Phone / (804) 763-1800 Fax

AIHA ACCREDITED 175122

323-11-1128

Requested Services (X Boxes)												
Non-Viable		Culturable										
Spore Trap	Tape Bulk	Andersen, Swab, Bulk										
Fungal Spore Count Only - No ID	Fungal Spore Count and Genus ID, pollen, fiber & mycelial fragment count	Fungal Genus Identification - Qualitative	Environmental Fungal Genus ID & Enumeration	Environmental Bacterial Enumeration & Gram Stain ID	Fungal Speciation - Scheduled in Advance Only	Bacterial speciation - Scheduled in Advance Only						
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Contact Information	
Company: <b>France Environmental, Inc.</b>	PO#:
Address <b>7834 Forest Hill Avenue, Suite 7, Richmond VA. 23225</b>	
Results To: <b>Joseph France</b>	Fax Results? Y/N      Fax: <b>(804) 918-7098</b>
Phone: <b>(804) 716-0560</b>	Email Y/N: <b>JFrance@FranceEnv.com</b>
Project Information	Turnaround Time Codes
Project #: <b>FEI-23MI641</b>	<b>STD</b> - Standard: 2 Days (Non-viable) <b>24</b> - 24: 24 Hours (Non-viable) <b>R</b> - Rush: 6 hours (Non-viable) <b>C</b> - Culture: 7-14 Days <b>W</b> - Weekends: Scheduled by noon ET Friday Only ***Samples received after 5pm, on weekends or in drop-box, will be considered received the next business day.
Project Name: <b>CORPS: Westover Hills Elementary School</b>	
Invoice To: <b>Joseph France</b>	
Sampling Date(s): <b>11-24-23</b>	

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2944039	Outside Building - Pre - Front	ST	STD	25 LTRS	
2916512	Front Entrance	ST	STD	25 LTRS	
2916502	Rm 1	ST	STD	25 LTRS	
2916492	Rm 2	ST	STD	25 LTRS	
2916482	Rm 3	ST	STD	25 LTRS	
2916523	Rm 4	ST	STD	25 LTRS	
2916513	Rm 5	ST	STD	25 LTRS	
2916503	Rm 6	ST	STD	25 LTRS	
2916493	Rm 7	ST	STD	25 LTRS	
2916483	Rm 8	ST	STD	25 LTRS	
2916524	Teacher's Lounge	ST	STD	25 LTRS	
2916130	Library	ST	STD	25 LTRS	

Sample Type Codes	Relinquished By	Date & Time	Received By	Date & Time
<b>AP</b> - Andersen Plate <b>SW</b> - Swab <b>B</b> - Bulk  <b>T</b> - Tape <b>ST</b> - Spore Trap: Zefon, Micro5, Cyclex-d, etc.	<i>Andrew Baird</i>	11-27-23	<i>Kenneth M...</i>	11.27.23
				①



13635 Genito Road Midlothian, VA 23112  
 (804) 763-1200 Phone / (804) 763-1800 Fax

AIHA ACCREDITED 175122 **323-11-1128**

Requested Services (X Boxes)												
Non-Viable		Culturable										
Spore Trap	Tape Bulk	Andersen, Swab, Bulk										
Fungal Spore Count Only - No ID	Fungal Spore Count and Genus ID, pollen, fiber & mycelial fragment count	Fungal Genus Identification - Qualitative	Environmental Fungal Genus ID & Enumeration	Environmental Bacterial Enumeration & Gram Stain ID	Fungal Speciation - Scheduled in Advance Only	Bacterial speciation - Scheduled in Advance Only						
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Contact Information		
Company: <b>France Environmental, Inc.</b>	PO#:	
Address <b>7834 Forest Hill Avenue, Suite 7, Richmond VA. 23225</b>		
Results To: <b>Joseph France</b>	Fax Results? Y/N	Fax: <b>(804) 918-7098</b>
Phone: <b>(804) 716-0560</b>	Email Y/N: <b>JFrance@FranceEnv.com</b>	

Project Information	Turnaround Time Codes
Project #: <b>FEI-23MI641</b>	<b>STD</b> - Standard: 2 Days (Non-viable) <b>24</b> - 24: 24 Hours (Non-viable) <b>R</b> - Rush: 6 hours (Non-viable) <b>C</b> - Culture: 7-14 Days <b>W</b> - Weekends: Scheduled by noon ET Friday Only ***Samples received after 5pm, on weekends or in drop-box, will be considered received the next business day.
Project Name: <b>CORPS: Westover Hills Elementary School</b>	
Invoice To: <b>Joseph France</b>	
Sampling Date(s): <b>11-24-23</b>	

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2916125	Library Rm 28	ST	STD	25 LTRS	
2916126	Library Conf.	ST	STD	25 LTRS	
2916131	MDF	ST	STD	25 LTRS	
2916127	AU	ST	STD	25 LTRS	
2916128	Teacher's #27	ST	STD	25 LTRS	
2916514	Gym	ST	STD	25 LTRS	
2916129	Gym Hallway	ST	STD	25 LTRS	
2910132	Rm 19	ST	STD	25 LTRS	
2916504	Rm 17	ST	STD	25 LTRS	
2916133	Rm 16	ST	STD	25 LTRS	
2916484	Rm 20	ST	STD	25 LTRS	
2916494	Rm 15	ST	STD	25 LTRS	

Sample Type Codes	
<b>AP</b> - Andersen Plate	<b>T</b> - Tape
<b>SW</b> - Swab	<b>ST</b> - Spore Trap: Zefon, Micro5, Cyclex-d, etc.
<b>B</b> - Bulk	

Relinquished By	Date & Time	Received By	Date & Time
<i>Andrew Baird</i>	11-27-23	<i>Kenneth Morris</i>	11.27.23
			(2)



13635 Genito Road Midlothian, VA 23112  
 (804) 763-1200 Phone / (804) 763-1800 Fax

AIHA ACCREDITED 175122

323-11-1128

Requested Services (X Boxes)			
Non-Viable		Culturable	
Spore Trap	Tape Bulk	Andersen, Swab, Bulk	

**Contact Information**

Company: <b>France Environmental, Inc.</b>		PO#:
Address <b>7834 Forest Hill Avenue, Suite 7, Richmond VA. 23225</b>		
Results To: <b>Joseph France</b>	Fax Results? Y/N	Fax: <b>(804) 918-7098</b>
Phone: <b>(804) 716-0560</b>	Email Y/N: <b>JFrance@FranceEnv.com</b>	

**Project Information**

**Turnaround Time Codes**

Project #: <b>FEI-23MI641</b>	<b>STD</b> – Standard: 2 Days (Non-viable) <b>24</b> – 24: 24 Hours (Non-viable) <b>R</b> – Rush: 6 hours (Non-viable) <b>C</b> – Culture: 7-14 Days <b>W</b> – Weekends: Scheduled by noon ET Friday Only ***Samples received after 5pm, on weekends or in drop-box, will be considered received the next business day.
Project Name: <b>CORPS: Westover Hills Elementary School</b>	
Invoice To: <b>Joseph France</b>	
Sampling Date(s): <b>11-24-23</b>	

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2916134	Rm 14	ST	STD	25 LTRS	
2916137	Rm 21	ST	STD	25 LTRS	
2916135	Rm 22	ST	STD	25 LTRS	
2916138	Rm 13	ST	STD	25 LTRS	
2916136	Rm 24	ST	STD	25 LTRS	
2916174	Cafetorium	ST	STD	25 LTRS	
2916173	Kitchen	ST	STD	25 LTRS	
2916172	Kitchen Office	ST	STD	25 LTRS	
2916171	Cafetorium Office	ST	STD	25 LTRS	
2916170	Music Room	ST	STD	25 LTRS	
2916169	Art Room	ST	STD	25 LTRS	
2916168	Front Office	ST	STD	25 LTRS	

Fungal Spore Count Only - No ID	Fungal Spore Count and Genus ID, pollen, fiber & mycelial fragment count	Fungal Genus Identification – Qualitative	Environmental Fungal Genus ID & Enumeration	Environmental Bacterial Enumeration & Gram Stain ID	Fungal Speciation – Scheduled in Advance Only	Bacterial speciation – Scheduled in Advance Only	

**Sample Type Codes**

**Relinquished By**

**Date & Time**

**Received By**

**Date & Time**

<b>AP</b> – Andersen Plate	<b>T</b> - Tape
<b>SW</b> - Swab	<b>ST</b> - Spore Trap: Zefon, Micro5, Cycllex-d, etc.
<b>B</b> - Bulk	

*Andrew Paul*

11-27-23

*Kimberly Morris*

11-27-23

(3)



13635 Genito Road Midlothian, VA 23112  
 (804) 763-1200 Phone / (804) 763-1800 Fax

AIHA ACCREDITED 175122 323-11-1128

**Requested Services (X Boxes)**

Non-Viable		Culturable			
Spore Trap	Tape Bulk	Andersen, Swab, Bulk			

**Contact Information**

Company: <b>France Environmental, Inc.</b>		PO#:
Address <b>7834 Forest Hill Avenue, Suite 7, Richmond VA. 23225</b>		
Results To: <b>Joseph France</b>	Fax Results? Y/N	Fax: <b>(804) 918-7098</b>
Phone: <b>(804) 716-0560</b>	Email Y/N: <b>JFrance@FranceEnv.com</b>	

**Project Information**

**Turnaround Time Codes**

Project #: <b>FEI-23MI641</b>
Project Name: <b>CORPS: Westover Hills Elementary School</b>
Invoice To: <b>Joseph France</b>
Sampling Date(s): <b>11-24-23</b>

**STD** – Standard: 2 Days (Non-viable)  
**24** – 24: 24 Hours (Non-viable)  
**R** – Rush: 6 hours (Non-viable)  
**C** – Culture: 7-14 Days  
**W** – Weekends: Scheduled by noon ET Friday Only  
 \*\*\*Samples received after 5pm, on weekends or in drop-box, will be considered received the next business day.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2916167	Asst, Principal	ST	STD	25 LTRS	
2916166	Principal	ST	STD	25 LTRS	
2916165	Counselor	ST	STD	25 LTRS	
2916164	Nurse	ST	STD	25 LTRS	
2916163	Copy Center	ST	STD	25 LTRS	
2916162	Conference	ST	STD	25 LTRS	
2916161	CIS Coordinator Rm IA	ST	STD	25 LTRS	
2916160	Custodian Office 1	ST	STD	25 LTRS	
2916159	Custodian Office 2	ST	STD	25 LTRS	
2916158	Rm 9	ST	STD	25 LTRS	
2916157	Rm 10	ST	STD	25 LTRS	
2916156	Rm 11	ST	STD	25 LTRS	

Fungal Spore Count Only - No ID	Fungal Spore Count and Genus ID, pollen, fiber & mycelial fragment count	Fungal Genus Identification – Qualitative	Environmental Fungal Genus ID & Enumeration	Environmental Bacterial Enumeration & Gram Stain ID	Fungal Speciation – Scheduled in Advance Only	Bacterial speciation – Scheduled in Advance Only						
							<input checked="" type="checkbox"/>					
							<input checked="" type="checkbox"/>					
							<input checked="" type="checkbox"/>					
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							<input checked="" type="checkbox"/>					
							<input checked="" type="checkbox"/>					
							<input checked="" type="checkbox"/>					
							<input checked="" type="checkbox"/>					

**Sample Type Codes**

<b>AP</b> – Andersen Plate	<b>T</b> – Tape
<b>SW</b> - Swab	<b>ST</b> - Spore Trap: Zefon, Micro5, Cyclex-d, etc.
<b>B</b> - Bulk	

**Relinquished By**

**Date & Time**

**Received By**

**Date & Time**

<i>Andrew Baird</i>	11-27-23	<i>Kenneth M...</i>	11-27-23
			(4)



13635 Genito Road Midlothian, VA 23112  
 (804) 763-1200 Phone / (804) 763-1800 Fax

AIHA ACCREDITED 175122

323-11-1128

Requested Services (X Boxes)			
Non-Viable		Culturable	
Spore Trap	Tape Bulk	Andersen, Swab, Bulk	

Contact Information		
Company: <b>France Environmental, Inc.</b>		PO#:
Address <b>7834 Forest Hill Avenue, Suite 7, Richmond VA. 23225</b>		
Results To: <b>Joseph France</b>	Fax Results? Y/N	Fax: <b>(804) 918-7098</b>
Phone: <b>(804) 716-0560</b>	Email Y/N: <b>JFrance@FranceEnv.com</b>	

Project Information	Turnaround Time Codes
Project #: <b>FEI-23MI641</b>	<b>STD</b> – Standard: 2 Days (Non-viable) <b>24</b> – 24: 24 Hours (Non-viable) <b>R</b> – Rush: 6 hours (Non-viable) <b>C</b> – Culture: 7-14 Days <b>W</b> – Weekends: Scheduled by noon ET Friday Only ***Samples received after 5pm, on weekends or in drop-box, will be considered received the next business day.
Project Name: <b>CORPS: Westover Hills Elementary School</b>	
Invoice To: <b>Joseph France</b>	
Sampling Date(s): <b>11-24-23</b>	

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2916155	Rm 12	ST	STD	25 LTRS	
2916154	Rm 23	ST	STD	25 LTRS	
2916153	Outside Building – Post - Back	ST	STD	25 LTRS	
T1	Copy Room – Black on HVAC Duct	T	STD		
T2	11 – Black on Ceiling Unit Vent	T	STD		
T3	Hallway – Black on Lay-in Ceiling Tile	T	STD		
T4	Teachers #27 – Black on Window AC Unit	T	STD		

Fungal Spore Count Only - No ID	Fungal Spore Count and Genus ID, pollen, fiber & mycelial fragment count	Fungal Genus Identification – Qualitative	Environmental Fungal Genus ID & Enumeration	Environmental Bacterial Enumeration & Gram Stain ID	Fungal Speciation – Scheduled in Advance Only	Bacterial speciation – Scheduled in Advance Only

Sample Type Codes		Relinquished By	Date & Time	Received By	Date & Time
<b>AP</b> – Andersen Plate	<b>T</b> - Tape	<i>Andrew Baird</i>	11-27-23	<i>Kenyel M...</i>	11-27-23
<b>SW</b> - Swab	<b>ST</b> - Spore Trap: Zefon, Micro5, Cyclex-d, etc.				
<b>B</b> - Bulk					

5

**AmeriSci Bio-Chem**13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**  
Justin B. LivermanAmeriSci Job #:  
**323121092**  
FINAL REPORT**Client: France Environmental, Inc.**Address: 7834 Forest Hill Ave  
Suite 7  
Richmond, VA 23225**Client Job#:** FEI-23MI641**Client Job Name:** City Of Richmond Public Schools  
(CORPS); Westover Hills  
Elementary School, 1211 Jahnke**Date Received:** 12/29/23**Date Reported:** 12/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number		323121092-01			323121092-02								
Sample Number	2916175			2916176									
Sample Name	MDF Room			Exterior By Front Entrance									
Analysis Date	12/29/2023			12/29/2023									
Volume (L)	25			25									
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40									
Background Density	1			1									
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	
Pollen	ND	n/a	ND	ND	n/a	ND							
Fibers	40	n/a	1	ND	n/a	ND							
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND							
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	
Alternaria sp.	ND			80	20	2							
Aspergillus/Penicillium	ND			40	10	1							
Basidiospores	ND			160	40	4							
Cladosporium sp.	ND			120	30	3							
<b>Total Fungal Spores</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>400</b>	<b>100</b>	<b>10</b>							

ND = None Detected

Results relate only to the items tested and are reported mathematically to significant figures.

Name/Title: Justin B. Liverman / AnalystName/Title: Justin B. Liverman / Analyst

Signature:

Reviewed By:

Date: 12/29/23Date: 12/29/23

323 121092



13635 Genito Road Midlothian, VA 23112 /  
(804) 763-1200 Phone / (804) 763-1800 Fax

Requested Services (X Boxes)					
Non-Viable		Culturable			
Spore Trap	Tape Bulk	Andersen, Swab, Bulk			
Fungal Spore Count and Genus ID, pollen, fiber, & mycelial fragment count	Fungal Genus Identification - Qualitative	Environmental Fungal Genus ID & Enumeration	Environmental Bacterial Enumeration & Gram Stain ID	Fungal Speciation - Scheduled in Advance Only	Bacterial speciation - Scheduled in Advance Only
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Contact Information		
Company: France Environmental		PO#:
Address 7834 Forest Hill Ave Suite #7 Richmond, VA 23225		
Results To: FEI	Fax Results? <input type="checkbox"/>	Fax#:
Phone: 804 716 0560	Email? <input checked="" type="checkbox"/>	Email: FEI Distribution List

Project Information	Turnaround Time Codes
City of Richmond Public Schools (CORPS) Westover Hills Elementary School Project 1211 Jahnke Road Name: Richmond, Virginia 23225 Proj. #: FEI-23MI641	<b>STD</b> - Standard: 2 Days (Non-viable) <b>24</b> - 24: 24 Hours (Non-viable) <b>R</b> - Rush: 6 hours (Non-viable) <b>C</b> - Culture: 7-14 Days <b>W</b> - Weekends: Scheduled by noon ET Friday Only ***Samples received after 5pm, on weekends or in drop-box, will be considered received the next business day.
Sampling Date(s): <b>12/29/23</b>	

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2916175	MDF Room	ST	STD	25 Liters	
2916176	Exterior By Front Entrance	ST	STD	25 Liters	

Sample Type Codes	
AP - Andersen Plate	T - Tape
SW - Swab	ST - Spore Trap: Zefon, Micro5, Cyclex-d, etc.
B - Bulk	

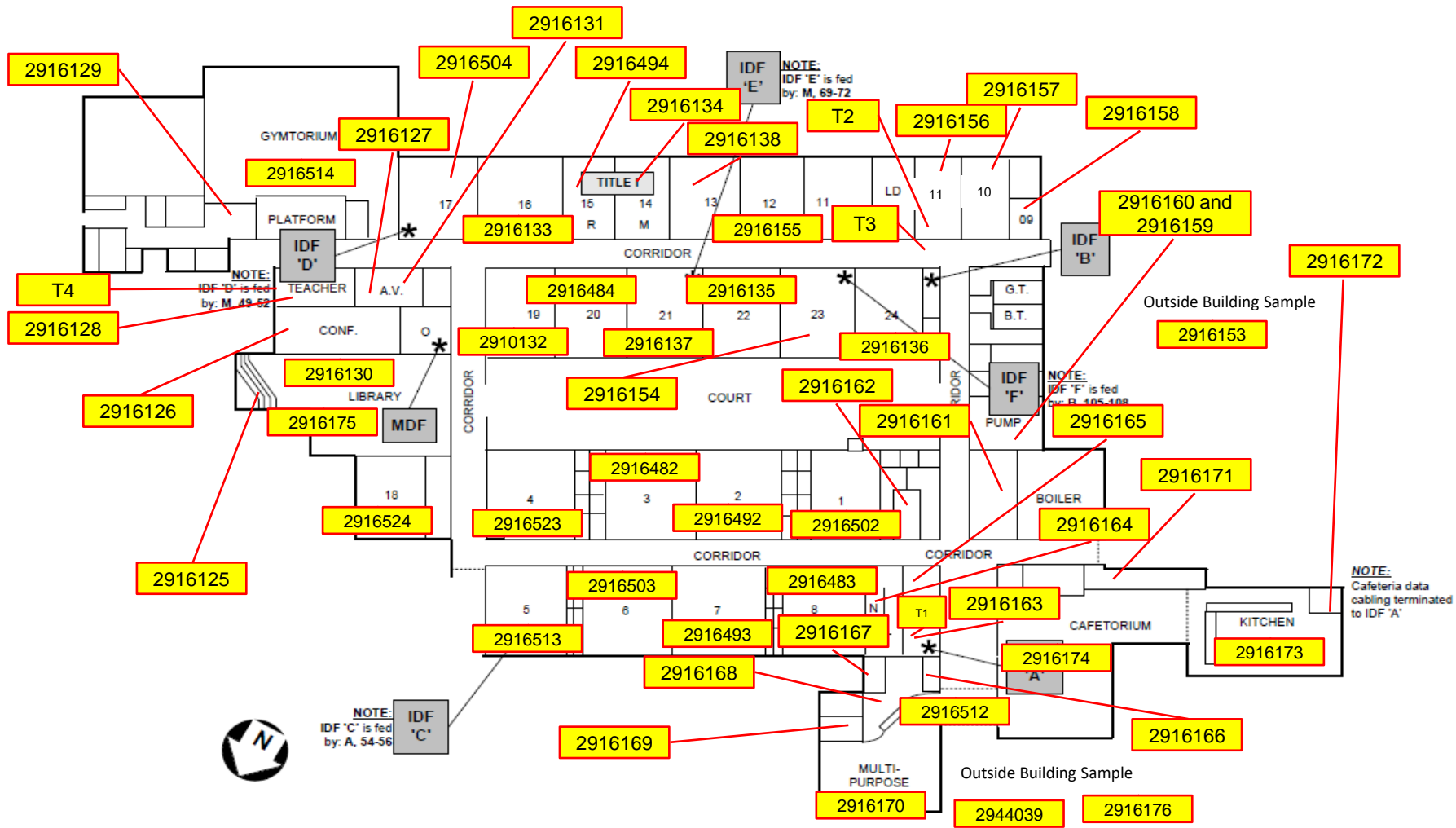
Relinquished By	Date & Time	Received By	Date & Time
Micheal D. Allshouse	12/29/23		
		Received	

AmeriSci Bio-Chem

DEC 29 2023

**DRAWING INDICATING SAMPLE LOCATIONS**





**Moisture & Mold Assessment Sample  
Location Drawing**  
 Westover Hills Elementary School  
 Richmond, Virginia  
 FEI Project #: FEI-23MI641 Survey Date: 11/24/2023

## **PHOTOGRAPHS OF SITE CONDITIONS**



**Photograph No. 1**  
Visible Mold Growth on Ceiling Unit - Classroom 11



**Photograph No. 2**  
Stachybotrys on Lay-In Ceiling Tile - Hallway



**Photograph No. 3**  
Visible Mold Growth on Duct - Copy Room



**Photograph No. 4**  
Showing Multiple Stained Lay-In Ceiling Tile - Schools Psychologist



**Photograph No. 5**  
Showing Multiple Stained Lay-In Ceiling Tile- Teachers Room  
Ceiling Not Sampled Due To Height



**Photograph No. 6**  
Showing Visible Mold Growth Window AC Unit Vent

**CHART 1**  
**FUNGAL TYPES AND GROUPS**

# Chart 1

## Fungal Types and Groups

These are brief descriptions for general informational purposes:

<b><i>Alternaria</i> (all-tur-nair-ee-uh)</b>	common allergen/contaminant/opportunistic pathogen, one of the most common molds found worldwide in soil and on plants and can commonly be found indoors (frequently appearing black on window frames). It is an important airborne allergen and common agent for hay fever, asthma, and other allergy related symptoms.
<b><i>Ascospores</i> (ass-co-spores)</b>	a large category of spores (produced in a sac-like structure) that are found everywhere in nature and include more than 3,000 genera. Most <i>Ascospores</i> of health or IAQ importance are identified separately by their genus (e.g. <i>Chaetomium</i> ) when possible on a IAQ report, and the <i>Ascospore</i> category is used primarily on these reports for a large group of less important spore types often found in quantity on outdoor air samples. On tape samples, <i>Ascospore</i> is sometimes also used as a general morphological identification (i.e., the ascus or sac structure is present) for certain samples in those cases when the spores do not appear to represent any of the IAQ significant genera.
<b><i>Aspergillus</i> (as-per-jill-us)</b>	allergen/contaminant/opportunistic pathogen, commonly found in the environment around the world. It comprises approximately 200 species and can appear almost any color. Though commonly found on cultures, tape-lifts, and air samples, its spores are indistinguishable from <i>Penicillium</i> on non-cultured samples (like tape-lifts and air-o-cells) unless the conidiophore is present. Health effects vary by species, but many species are reported to be allergenic. Some species produce toxins that might have significant health effects in humans. <i>Aspergillus</i> is one of the most infectious of molds, but infections are not common in normal immune systems. In immuno-compromised individuals, however, the disease <i>Aspergillosis</i> is a very significant and potentially deadly health concern.
<b><i>Basidiospores</i> (bah-sid-ee-oh-spores)</b>	allergen/contaminant, a general class of spore formed on a structure known as a <i>basidium</i> , characteristic of the <i>Basidiomycete</i> class (that includes rusts, smuts and mushrooms). This category is commonly found in outdoor air samples. Many species are reported to be allergenic and some species are associated with dry rot in wood. Elevated airborne concentrations indoors might be indicative of water damage or too high of humidity.
<b><i>Bipolaris/Drechslera</i> (by-pole-air-us/dresh-lair-uh)</b>	contaminant/opportunistic pathogen, found in soil. Allergenic and the most common agent for allergic fungal sinusitis. Various but uncommon infections of the eye, nose, lungs and skin.
<b><i>Cladosporium</i> (clad-oh-spore-ee-um)</b>	common allergen/contaminant/very rarely pathogenic, found everywhere, many times the most common and numerous mold found in outdoor air. Indoor concentrations are usually not as high, but it is an important airborne allergen and common agent for hay fever, asthma, and other allergy related symptoms. It can thrive in various indoor environments, appearing light green to black (the black mold on air vent grills is usually <i>Cladosporium</i> ).
<b><i>Curvularia</i> (curve-you-lair-ee-uh)</b>	contaminant/opportunistic pathogen, found in air, soil and textiles. Reported to be allergenic. Rare infections of corneas, nails, and sinuses, primarily in immunocompromised individuals.
<b><i>Epicoccum</i> (epp-ee-cock-um)</b>	contaminant/opportunistic pathogen, found in soil, air, water and rotting vegetation and can be commonly found in outdoor air. It is a common allergen and rarely can it cause an infection in the skin.
<b><i>Hyphal Elements</i> (high-full)</b>	filamentous, branched structures with cell walls. Hyphae are somewhat analogous to roots or stems in plants whereas the spores would be analogous to the seeds.
<b><i>Mycelial Fragments</i> (my-sill-e-ul)</b>	a mass of hyphae; not in the form of large spore producing parts. Hyphae are an individual fungal thread or filament of connected cells. The thread that represents the individual parts of the fungal body.
<b><i>Myxomycetes</i> (mix-oh'-my-seat)</b>	general category for commonly found genera usually associated with living and decaying plants as well as decaying wood. Sometimes can be found indoors. Some allergenic properties reported, but generally pose no health concerns to humans or animals.
<b><i>Nigrospora</i> (nie-grow-spore-uh)</b>	ubiquitous cosmopolitan. Especially abundant in warm climates. Mostly found in decaying plant material and soil. Very rare reports of human infection. Rarely found growing indoors. Type I allergies (hay fever, asthma).
<b><i>Penicillium</i> (pen-uh-sill-ee-um)</b>	contaminant/opportunistic pathogen, one of the most common genera found worldwide in soil and decaying vegetation and indoors in dust, food and various building materials. Common bread mold is a species of <i>Penicillium</i> . Spores usually cannot be distinguished from <i>Aspergillus</i> on non-cultured samples (like tape-lifts and air-o-cells). It is reported to be allergenic, to cause certain infections in compromised individuals, and some species do produce toxins unhealthy to humans.

# Chart 1

## Fungal Types and Groups

These are brief descriptions for general informational purposes:

<b><i>Periconia</i></b> ( <i>per-ee-cone-e-uh</i> )	ubiquitous cosmopolitan. Mostly found in soil, blackened and dead herbaceous stems and leaf spots, grasses, rushes and sedges. Almost always associated with other fungi. Rare case of mycotic keratitis reported. Allergen not studied.
<b><i>Pithomyces</i></b> ( <i>pith-oh-my-sees</i> )	contaminant, found on decaying plants, especially leaves and grasses. Rarely found indoors, but it can grow on paper. No reports of allergies or infections, but some species produce a toxin that causes facial eczema in sheep.
<b>Pollen</b> ( <i>pol-uhn</i> )	Pollen is a fine powder produced by certain plants when they reproduce. During the spring, summer, and fall seasons, it's released into the air and picked up by the wind, which brings it to other plants to fertilize them. Inside of these pollen grains are proteins that commonly cause allergic reactions (such as sneezing, runny nose, and itchy eyes) when breathed in. The pollen that's most often responsible for causing allergies comes from grasses, trees, and weeds. Many people with asthma are allergic to pollen. When they breathe it in, it can trigger their asthma symptoms.
<b>Smuts</b>	general category for commonly found genera usually associated with living and decaying plants as well as decaying wood. Sometimes can be found indoors. Some allergenic properties reported, but generally pose no health concerns to humans or animals.
<b><i>Stachybotrys</i></b> ( <i>stack-ee-bought-ris</i> )	contaminant, found indoors primarily on wet cellulose containing materials. It is the "toxic black mold" that has garnered much media attention. Some species produce a potent toxin that is lethal to animals, though dose effect on humans is not clear. One species produces a toxin linked to the bleeding lung deaths of several infants. A host of other toxic reactions in humans are also linked to it, but many of these require further study. <b><i>Stachybotrys</i></b> is sometimes difficult to detect indoors because many times it will grow unseen on the back of walls or in the wall cavity with little disturbance that would cause it to be detected by routine air sampling. This is potentially also when it is of most health concern: when it covers entire wall areas and constantly produces toxins undetected. Non-cultured lab analyses (air-o-cells and tape-lifts) usually are the proper method of identification because <b><i>Stachybotrys</i></b> does not grow or compete well on most culture plate media, and it is reported that even non-viable spores can be toxigenic.
<b><i>Torula</i></b> ( <i>tore-you-law</i> )	primarily a contaminant, but it is reported to be allergenic. Can be found indoors on cellulose containing material.