

December 12, 2011

Mr. Peter Barbuto, Facilities Manager School Administrative Unit No. 15 Hooksett School District 90 Farmer Road Hooksett, New Hampshire 03106

Re: Baseline Indoor Air Quality Survey - Auburn Village School

SLGL File Number 11-1044

Dear Mr. Barbuto:

EXECUTIVE SUMMARY

On November 15, 2011, at the request of School Administrative Unit No. 15 (SAU 15), *The Scott Lawson Group, Ltd. (SLGL)* conducted an Indoor Air Quality (IAQ) Survey at the Auburn Village School located at 11 Eaton Road in Auburn, New Hampshire. Specifically, this IAQ Survey focused on preselected areas of the school, to establish baseline information to be utilized to help evaluate occupant complaints. On December 1 and 2, 2011, *SLGL* returned to repeat or perform additional sampling in several areas to address specific occupant complaints reported to *SLGL* following the initial round of sampling. The survey and inspections associated with this project are part of SAU 15's on-going review of facility issues that may impact indoor air quality. The sampling in representative areas of the school, will help the SAU better understand the current status of air quality in the building, by providing baseline information that identifies potential and existing problems areas.

SLGL collected ambient air samples for airborne fungal spores in each of the selected areas, with analytical blanks and outdoor air samples collected for quality control purposes. To help evaluate indoor air quality, direct-reading instruments were used to collect spot readings for Carbon monoxide (CO), Carbon dioxide (CO₂), temperature, and Relative Humidity (RH). In addition, samples of settled dust were analyzed for the presence of fungal spores and allergens. The analytical results and data are discussed further in this report, followed by our conclusion and recommendations. On the day of the survey(s), there were no signs of microbial growth, and there were no areas of visible water damage present, in the monitored areas.

In brief, the testing indicates there is generally insufficient ventilation in the tested locations for the number of occupants in the building. Under ventilation can contribute to poor IAQ, and allow the build-up of potential contaminants such as mold in indoor spaces. The following summarizes the Survey, results, and recommendation(s).



DISCUSSION

The indoor environment in any building is a result of the interaction between the site, building construction, contaminant sources and activities within and outside the building and occupants. *SLGL* visited the Auburn Village School on November 15, 2011, to conduct the initial IAQ Survey, look for potential IAQ problem indicators, talk with staff, and establish baselines for IAQ in the building.

Values for analytical test data reported in this IAQ Survey were compared to one or more of the following: the Occupational Safety and Health Administration's Permissible Exposure Limits (OSHA PEL), the National Institute for Occupational Safety and Health's Recommended Exposure Limits (NIOSH REL), the American Conference of Governmental Industrial Hygienists' Threshold Limit Values (ACGIH TLV) and/or the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE). Public health guidelines for exposure to contaminants such as those published by ASHRAE, and the World Health Organization (WHO), are typically less than occupational exposure limits, e.g., OSHA, ACGIH, and NIOSH. Public health guidelines or standards include protection for the old, young, pregnant women, and other sensitive population groups.

OSHA limits are those to be used for compliance or regulatory efforts. Most of the other exposure limits or guidelines are just that: guidelines and recommendations. The science of indoor air quality is a dynamic one and there are no clear regulations for air quality in commercial or institutional buildings as opposed to industrial facilities. There is a distinct difference between the two environments and, therefore, most of our data is compared to all of the regulatory levels as well as guidelines, currently in place.

All occupied buildings require a supply of outdoor air. Depending on outdoor conditions, the air is heated or cooled and filtered before it is distributed into the building. As outdoor air is introduced to the building, contaminated indoor air is exhausted. Newer Heating, Ventilating, and Air Conditioning (HVAC) systems provide heating, cooling, filtering, and humidity control to maintain occupant comfort.

The following sections further summarize the analytical results obtained during the survey at Auburn Village School.

Air Samples - Total Spore Counts with Predominant Genus Identification:

Indoor air sampling for airborne mold spores was conducted to help evaluate occupant complaints, and to establish baseline information when future sampling is conducted. Fungus spores are found in ambient air most times of the year, from spring through fall, with numbers declining in the winter months. The term "genus" refers to the particular "family" of Fungi, and there are individual species within each genus. All Fungi are considered to be potentially allergenic.

Each sample was collected by drawing air through an Air-O-Cell® sampling cassette. Analysis of the Air-O-Cell cassettes (with count and identification by Predominant Genus) was used to determine total airborne viable and non-viable Fungi spores. All Fungi are considered to be potentially allergenic. (The term "genus" refers to the particular "family" of Fungi or Bacteria, and there are individual species within each genus.) Each sample was collected by drawing air through an Air-O-Cell® sampling cassette at a flow rate of approximately fifteen liters per minute for five minutes. Sampling equipment was calibrated prior to and following sampling. Upon completion of each sample, the cassette was sealed, issued a unique sample identification number, and its location documented.

On November 15, 2011, sixteen (16) samples were collected inside preselected areas at the Auburn Village School, airborne spore levels ranged from 107 to 2,293 spores per cubic meter of air (107 to 2,293 Ct/m³). Outdoor air samples showed a total ambient fungal spore concentration from 6,827 to 10,133 Ct/m³. Areas were selected by facility staff, based upon occupant concerns, with carpeted and non-carpeted areas being monitored. As requested on December 1 and 2, 2011, *SLGL* returned to monitor additional areas that staff had expressed concerns with air quality. The specific results from the testing are shown in the following tables.

Carbon dioxide:

Studies indicate that CO₂ is an excellent surrogate indicator of indoor air quality. Since CO₂ is given off by humans when exhaling, its levels in the air provide a good indication of the quality of air circulation and how effectively the ventilation system, if present, is diluting and removing pollutants from the air. It must be noted that it is (generally) not necessarily the concentration of CO₂ itself that is of concern in this type of setting, but rather it is the levels of CO₂ exceeding 1,000 parts per million (1,000 ppm), which are indicative of inadequate fresh/outdoor air introduction -- or under-ventilation.

All of the the areas monitored exceeded the upper recommended level for occupant comfort of 1,000 ppm for CO₂. Ventilation is most commonly used to control or prevent indoor air problems. It appears that most of areas are under-ventilated, due to the HVAC units being off, and/or running at ineffective times. *SLGL* recommends retesting in the areas with the air handling systems operating as designed with filters designed to remove spores and other contaminants. Again the results from the testing are shown in the following tables.

TABLE I - Auburn Village School-November 15, 2011

Sample Location	Total fungal Spore Count (Count/m³)	Predominant Genus(s)	CO ₂ (PPM)	Meets guideline Level of 1,000 PPM (Y/N)	HVAC Unit
P-5	2,293	Aspergillus/Penicillium-like (1,120) Basidiospores (533)	1,512	N	Automatic, minimal fresh make up air
P-3	1,653	Basidiospores (533) Hyphal Fragments (373)	1,510	N	Automatic, minimal fresh make up air
M-2	800	Aspergillus/Penicillium-like (320) Basidiospores (213)	1,608	N	Automatic w/ Exhaust Fan (Fan Off)
M-1	587	Aspergillus/Penicillium-like (320) Basidiospores (107) Cladosporium (107)	1,590	N	Automatic w/ Exhaust Fan (Fan Off)
100	907	Hyphal Fragments (373) Aspergillus/Penicillium-like (267)	1,704	N	Runs before and after school hours
101	1,707	Basidiospores (480) Cladosporium (373)	1,911	N	Runs before and after school hours
Special Ed Office	747	Basidiospores (213) Cladosporium (213)	1,704	N	Automatic, minimal fresh make up air
Main Office	107	Hyphal Fragments (53) Myxomycetes/ <i>Periconia</i> /Smuts (53)	1,143	N	Shut Off
Library	587	Basidiospores (373) Hyphal Fragments (160)	1,412	N	Shut Off
122	533	Myxomycetes/ <i>Periconia</i> /Smuts (213) Basidiospores (107)	1,400	N	Shut Off
126	1,440	Basidiospores (587) Aspergillus/Penicillium-like (267)	1,442	N	Shut Off
128	107	Basidiospores (53) Chaetomium (53)	1,488	N	Shut Off
121	267	Myxomycetes/ <i>Periconia</i> /Smuts (107) <i>Aspergillus/Penicillium</i> -like (53)	1,390	N	Shut Off
211	213	Myxomycetes/ <i>Periconia</i> /Smuts (107) Basidiospores (53)	1,398	N	Runs before and after school hours

Sample Location	Total fungal Spore Count (Count/m³)	Predominant Genus(s)	CO ₂ (PPM)	Meets guideline Level of 1,000 PPM (Y/N)	HVAC Unit
205	320	Myxomycetes/ <i>Periconia</i> /Smuts (107) Ascospores (107)	1,415	N	Runs before and after school hours
201 (One Window Open)	1,227	Basidiospores (533) Myxomycetes/ <i>Periconia</i> /Smuts (213)	1,056	N	Automatic
Exterior- Main Entrance	10,133	Basidiospores (7,680) Ascospores (907) Myxomycetes/Periconia/Smuts (693) Cladosporium (373) Aspergillus/Penicillium-like (320)	390	N/A	N/A
Exterior, Between Portables and Playground	6,827	Basidiospores (5,333) Ascospores (853) Aspergillus/Penicillium-like (427)	390	N/A	N/A

TABLE II - Auburn Village School-December 1 and 2, 2011

Sample Location	Total fungal Spore Count (Count/m³)	Predominant Genus(s)	CO ₂ (PPM)	Below Recomm'd Level of 1,000 PPM (Y/N)	HVAC Unit
103	320	Basidiospores (160)	1,720	Ŋ	Radiators-No Makeup air
100	747	Cladosporium (213) Basidiospores (107)	1,580	N	Runs before and after school hours
Corridor outside Room 100	427	Basidiospores (107) Hyphal Fragments (107)	1,313	N	Manual
104	373	Aspergillus/Penicillium-like (107) Cladosporium (107)	1,290	N	Runs before and after school hours
Corridor outside Nurse	747	Aspergillus/Penicillium-like (107) Cladosporium (107)	1,255	N	Manual
Library Computer Area	907	Hyphal Fragments (213) Aspergillus/Penicillium-like (160)	1,905	N	Teacher Controlled

Sample Location	Total fungal Spore Count (Count/m³)		CO ₂ (PPM)	Below Recomm'd Level of 1,000 PPM (Y/N)	HVAC Unit
Library Reading Area	1,653	Aspergillus/Penicillium-like (480) Basidiospores (427)	1,985	N	Teacher Controlled
120	1,173	Aspergillus/Penicillium-like (533) Basidiospores (480)	1,301	N	Shut Off
Outside Building	2,773	Basidiospores (2,400) Cladosporium (213)	385	N/A	N/A

Classroom M-1

Followup testing in Classroom M-1 was performed on December 2, 2011, in response to staff complaints of a "musty" odor. During this survey, *SLGL* collected four (4) samples for the evaluation of total airborne fungal spore concentrations. Further, *SLGL* collected a dust sample from the carpet to check for potential allergens. Neither the HVAC unit and/or exhaust fan was in operation during the sampling period, however a portable air filter was in use.

As noted in Table III, spore levels in the M-1 were higher than sampling conducted on November 15 (Table I). *SLGL* observed that the cover to the crawlspace located under classroom M-1 was not secured, allowing odors and air from the crawlspace to enter the room. A sample collected inside the crawlspace showed ambient fungal spore concentrations at greater than (>) 21,013 Ct/m³, with *Cladosporium* being the predominant genus detected. Also detected were elevated levels of *Aspergillus/Penicillium* -like fungus, Basidiospores and Myxomycetes/*Periconia*/Smuts. A sample collected at the air intake showed ambient fungal spore concentrations at 1,867 Ct/m³ with Basidiospores and *Cladosporium* being the predominant genus(s) identified. The sample collected inside classroom M-1 had an ambient fungal spore concentrations of 2,880 Ct/m³ with Myxomycetes/*Periconia*/Smuts, Basidiospores, *Aspergillus/Penicillium* -like fungus, and *Cladosporium* being identified. Based upon these analytical results *SLGL* contacted SAU officials and requested that any penetrations to the crawlspace be sealed to help prevent potential contaminants such as mold spores from entering the room from this area.

SLGL believes that based on these observations that a potential source of occupant odor complaints etc., is from the crawlspace, and further investigation and treatment/source control of, is warranted. Other classrooms located over the crawlspace should be reviewed to see if there is similar occupant complaints.

TABLE III - Auburn Village School-Classroom M-1, December 1, 2011

Sample Location	Total fungal Spore Count (Count/m³)	Predominant Genus(s)	CO ₂ (PPM)	Below Recomm'd Level of 1,000 PPM (Y/N)	HVAC Unit
M-1 (Exterior at Air Intake)	1,867	Basidiospores (1,013) Cladosporium (533)	1,910	N	Automatic w/ Exhaust Fan (Fan Off)
Crawlspace under M-1	> 21,013	Cladosporium (13,333) Aspergillus/Penicillium-like (3,253)	N/A	N/A	N/A
M-1 Interior of HVAC Duct (Return)	320	Basidiospores (107) Hyphal Fragments (373)	N/A	N/A	N/A
M-1	2,880	Myxomycetes/Periconia/ Smuts (1067) Basidiospores (640) Aspergillus/Penicillium-like (480)	1,920	N	Automatic w/ Exhaust Fan (Fan Off)

Dust Characterization:

A sample of settled dust was collected from the carpet in classroom M-1 utilizing a High-Efficiency Particulate Air (HEPA) vacuum equipped with a particulate Mitest Dust Collector; the vacuum unit was run until the sampling container was at least hall-full. The (visual) Dust Characterization included the analytes listed as follows measured as a percentage of the dry bulk weight of the sample.

Skin Flakes	Fiberglass*
Human Hairs	Quartz
Animal Hairs*	Plant Matter/Trichome*
Arthropod Fragments/Feather*	Fungal Matter*
Wood Chips*	Pollen*
Cellulose Fibers	Carbonaceous Particles

Based on indoor environment studies, it is recommended that several of the dust components listed above should not exceed 1% as indicated by an asterisk. This is a guideline, not a regulatory limit, based on studies by the U.S. Public Health Service, Division of Federal Employee Health, Region III.

The Dust Characterization conducted during the survey represents the most common components typically found in indoor/office (non-industrial) environments. Dust composition is generally attributable to three (3) sources:

- 1. Fibers and particles brought into the building; i.e., wood chips, skin flakes, animal hairs, and human hair;
- 2. Fibers and particles associated with building materials; i.e., cellulose fibers, synthetic fibers, foam particles, fiberglass, and glue; and,
- 3. Organically produced particles; i.e., dust mite feces, Fungi.

Based on indoor environment studies noted above, it is recommended that several of the dust components (as indicated by an *) should not exceed 1% of the overall dust composition. The primary components in the samples appeared to be Cellulose fibers (typically associated with paper), skin cells, and Quartz (sand). Concentrations of plant matter should be reduced (if feasible) to enhance employee comfort.

A dust sample collected from the Library is being further analyzed as an allergen screen that will be included as an addendum to this report when the data is received.

Relative Humidity and Temperature:

For an environment in which occupants are engaged in light, primarily sedentary activity, the most recent ANSI/ASHRAE standard recommends that RH be controlled to a range of thirty to sixty percent (30% to 60%). These are the upper and lower limits based on considerations of dry skin, eye irritation, respiratory health, microbial growth, and moisture-related phenomena.

The ANSI/ASHRAE standard ventilation recommends that an optimum winter operative temperature of 71°F be maintained during the winter months, with a comfort range of 68 degrees Fahrenheit (68°F) to 75°F. During the summer, it is recommended that an optimum operative temperature of 76°F be maintained, with a comfort range of 73°F to 79°F. The temperature should be set toward the lower end in the winter when people wear heavier clothing, and toward the upper end in the summer when people wear lighter clothing. (Measurements were made using a TSI Q-TRAK, a direct-reading instrument.)

Ambient room temperatures measured 68°F to 73°F, with an RH of 28%-35%.

Carbon monoxide:

CO is not a natural component of indoor air, and is considered an indoor air pollutant. Overexposure to CO can deprive the body of Oxygen-carrying hemoglobin, and cause immediate or chronic health effects to those individuals exposed to elevated levels.

No CO was detected in any of the sampled areas. These levels are below the OSHA PEL of 50 ppm, as well as within the ACGIH TLV of 25 ppm and the NIOSH REL of 35 ppm. WHO uses 9 ppm as a "concentration of concern" and notes that indoor concentrations of CO should not exceed those found outdoors by more than 3 ppm.

CONCLUSION

The baseline IAQ Survey at Auburn Village School has been completed, followup testing is ongoing and will be reported as information and analytical data is available.

The Auburn Village School generally relies on natural ventilation, exhaust fans or very limited fresh make up air, which is often poorly distributed. Based on conversations with staff, the air exhaust fans and HVAC units rarely operate during school hours because of the noise and drafts generated causing discomfort to them. *SLGL* also recommends that occupancy levels, room function (meetings, break, occupied all of the time, overcrowding) be reviewed and compared to amount of fresh air being introduced into the areas. The ASHRAE Standard for Ventilation, which is generally referred to for guidance, generally recommends that fresh air be introduced at a rate of 20 cubic feet per person. This rate generally ensures the dilution of potential indoor air contaminants. Spot readings were collected throughout the area using a TSI Q-Trak IAQ monitor. CO₂ levels in the school ranged from approximately 1,056 parts per million (ppm) to 1,910 ppm, indicating not enough fresh air is being introduced in to the areas. No levels of CO were detected and ambient room temperatures and RH were within recommended comfort ranges.

Air sampling results indicate that fungal spore concentrations in the selected areas are generally low in concentration, and do not represent a significant or recognized concern to building occupants. However in portables P-3 & P-5 spore counts were higher than modular units with similar occupancy and use. P-5 also had *Aspergillus/Penicillium*-like fungus, noted as the predominant genus of fungus identified with predominant genus of fungus identified outdoors as Basidiospores, a common "mold" spore. *Aspergillus/Penicillium*-like fungus may indicate the presence of decaying or water damaged building materials, and further investigations of these and similar units are warranted. Exposure to mold spores can affect building occupants differently, depending on the type of mold, how much time they spend in the area, persons susceptibility, and pre-existing health problems. Occupants with symptoms of mold allergies should be removed from the area.

Based upon these preliminary baseline tests, it appears that most of the IAQ complaints can be reduced by utilizing current systems as designed in increased ventilation rates as feasible.

RECOMMENDATION

- 1. In accordance with Federal and State of New Hampshire rules, provide employees with access to exposure monitoring data and the requisite recordkeeping performed.
- 2. Map out air handling units and retest in the areas with the air handling systems fully operating to determine if they are adequate for controlling odors and potential contaminants. It will be necessary to measure fresh air introduction rates in each of the air handling zones and compare to occupancy levels. It will be critical when retesting is done to have facility managers and management involved to help identify additional problem areas and prioritize budgets for maintenance and future air handling modifications.

Thank you for utilizing the services of *The Scott Lawson Group, Ltd*. We enjoyed working with you and welcome the opportunity to work with you on future projects. We trust that you will find everything in order; however, should you have any questions or comments, please feel free to contact me at your earliest convenience.

Sincerely,

The Scott Lawson Group, Ltd.

Stephen McPherson

Senior Safety & Health Professional

Member Indoor Air Quality Association (#17501)

Stephen Mc Pherson of

Associated Member ACGIH (305730-00)

Enclosures

WARRANTY

The conclusions and recommendations contained in this report are based on information available to SLGL as of December 2, 2011. SLGL provides no warranties on information provided by third parties and contained herein. Data compiled were in accordance with SLGL's approved scope of services and should not be construed beyond their limitations. Any interpretations or use of this report other than those expressed herein are not warranted. The use, partial use, or duplication of this report without the expressed written consent of *The Scott Lawson Group*, Ltd., is strictly prohibited.

APPENDIX A1

ANALYTICAL RESULTS

November 15, 2001



Analytical Results

Client: SAU #15 90 Farmer Road

Hooksett, NH 03106

SLGL Job #; 11-1044

Client Project: Auburn Village School Report Date: November 17, 2011

Date Sampled: November 15, 2011 Date Received: November 16, 2011

Collected by: SRM

Analyzed by: NEF, #01040036



293670 293671 293669 Lab Number: 111511-1044-A03, Area, background, classroom, M-2 (carpet) 111511-1044-A02, Area, background, portable classroom, P-3 (carpet) 111511-1044-A01, Area, background, portable Sample Identification: classroom, P-5 (carpet) Fungi Enumeration & Identification - Direct Fungi Enumeration & Identification - Direct Fungi Enumeration & Identification - Direct Analysis: Examination Examination Examination Methodology: SLGL-3067 SLGL-3067 SLGL-3067

Air-O-Cell Air-O-Cell Sample Media: Air-O-Cell 2 3 3 Debris Rating: 75.0 75.0 75.0 Air Volume (L): 5 5 5 Minutes: November 17, 2011 November 17, 2011 November 17, 2011 Date Analyzed:

Mold/Fungi Type	Raw Count	Count/m³	Raw Count	Count/m³	Raw Count	Count/m³
Alternaria						
Ascospores	2	107			1	53
**Aspergillus/Penicillium- like	21	1,120	6	320	4	213
Basidiospores	10	533	10	533	6	320
Bipolaris/Drechslera -like						
Botrytis						
Chaetomium						
Cladosporium	3	160				
Curvularia						
Epicoccum						
Fusarium						
Myxomycetes/Periconia /smuts	5	267	4	213	2	107
Nigrospora						
Oidium/Erysiphe/Peronospora						
Phoma						
Pithomyces			2	107		
rusts						*********
Spegazzinia						*****
Stachybotrys						
Stemphylium						
Torula						
Ulocladium				***************************************		
unknown/unidentified			2	107		
hyphal fragments	2	107	7	373	2	107
					<u> </u>	nor
Total fungal spores and fragments:	43	2,293	31	1,653	15	800
Limit of Detection:	1	53	l l	53	1	53
Comments:						

TNTC: Too numerous to count

< Less Than

>: Greater Than

Count/m3: Count per meter cubed

PAACB: Pan-American Aerobiology Certification Board Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

**: Aspergillus and Penicillium spores (and others such as Puecilomyces) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

Reviewed by: Helle & Colle

*: No analytical field blank submitted with associated sample(s).

Debris Load of 1: <10% debris present. Counts not affected.

Debris Load of 2: 11-25% debris present. Counts not affected.

Debris Load of 3: 25-75% debris present. Counts may be underestimated.

Background Debris: Background debris is an indication of the amount of non-microbial debris present on the slide and is rated on a scale of 1 to 5:

Debris Load of 4: 76-90% debris present. Counts underestimated.

Debris Load of 5; >90% debris present. Counts could not be determined, sample overloaded.

Approved By:



Client: SAU #15

90 Farmer Road Hooksett, NH 03106

SLGL Job #: 11-1044

Client Project: Auburn Village School Report Date: November 17, 2011

Date Sampled: November 15, 2011

Date Received: November 16, 2011 Collected by: SRM

Analyzed by: NEF, #01040036



Analytical Results 293673 293674 293672 Lab Number: 111511-1044-A05, Area, background, classroom #100 (VCT) 111511-1044-A06, Area, background, #101 (VCT) 111511-1044-A04, Area, background, Sample Identification: classroom, M-1 (carpet) Fungi Enumeration & Identification - Direct Fungi Enumeration & Identification - Direct Fungi Enumeration & Identification - Direct Analysis: Examination Examination Examination SLGL-3067 Methodology: SLGL-3067 SLGL-3067 Sample Media: Air-O-Cell Air-O-Cell Air-O-Cell 3 3 Debris Rating: 3 75.0 75.0 75.0 Air Volume (L): 5 5 5 Minutes: November 16, 2011 November 16, 2011 November 16, 2011 Date Analyzed:

Mold/Fungi Type	Raw Count	Count/m³	Raw Count	Count/m³	Raw Count	Count/m³
Alternaria						
Ascospores					, , , , , , , , , , , , , , , , , , ,	
**Aspergillus/Penicillium- like	6	320	5	267	5	267
Basidiospores	2	107	2	107	9	480
Bipolaris/Drechslera -like		740.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1				
Botrytis						
Chaetomium						
Cladosporium	2	107			7	373
Curvularia					1	53
Ерісоссит						
Fusarium			•			
Myxomycetes/Periconia /smuts			3	160	6	320
Nigrospora						
Oidium/Erysiphe/Peronospora		VII./VIII.				
Phoma						
Pithomyces	1	53			1	53
rusts						
Spegazzinia						
Stachybotrys						
Stemphylium						
Torula			1	53		
Ulocladium						
unknown/unidentified						
hyphal fragments			6	320	3	160
			111111111111111111111111111111111111111			
" ""						
Total fungal spores and fragments:	11	587	17	907	32	1,707
Limit of Detection:	1	53	1	53	1	53
Comments:						

TNTC: Too numerous to count

<: Less Than

>: Greater Than

Count/m3: Count per meter cubed

PAACB; Pan-American Aerobiology Certification Board Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

**: Aspergillus and Penicillium spores (and others such as Paecilomyces) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

*; No analytical field blank submitted with associated sample(s).

Background Debris: Background debris is an indication of the amount of non-microbial debris present on the slide and is rated on a scale of 1 to 5;

Debris Load of 1; <10% debris present. Counts not affected.

Debris Load of 2: 11-25% debris present. Counts not affected,

Debris Load of 3: 25-75% debris present. Counts may be underestimated.

Debris Load of 4: 76-90% debris present. Counts underestimated.

Debris Load of 5; >90% debris present. Counts could not be determined, sample overloaded.

Reviewed by: HUULH GNZUL_

Approved By:



Client: SAU #15 90 Farmer Road

Hooksett, NH 03106

SLGL Job #: 11-1044

Client Project: Auburn Village School Report Date: November 17, 2011

Date Sampled: November 15, 2011

Date Received: November 16, 2011

Collected by: SRM Analyzed by: NEF, #01040036



Analytical Results

Lab Number:	293675	293676	293677
Sample Identification:	111511-1044-A07, Area, background, Special Ed Office (carpet)	111511-1044-A08, Area, background, Main Office (carpet)	111511-1044-A09, Area, background, Library, (carpet)
Analysis:	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination
Methodology:	SLGL-3067	SLGL-3067	SLGL-3067
Sample Media:	Air-O-Cell	Air-O-Cell	Air-O-Cell
Debris Rating:	3	2	3
Air Volume (L):	75.0	75.0	75.0
Minutes:	5	5	5
Date Analyzed:	November 16, 2011	November 16, 2011	November 16, 2011

Moid/Fungi Type	Raw Count	Count/m³	Raw Count	Count/m³	Raw Count	Count/m³
Alternaria	1	53				
Ascospores						
**Aspergillus/Penicillium- like	1	53			1	53
Basidiospores	4	213			7	373
Bipolaris/Drechslera -like	1	53				
Botrytis						
Сћаеtотінт	1	53				
Cladosporium	4	213				
Curvularia						
Epicoccum						
Fusgrium						
Myxomycetes/Periconia /smuts		***************************************	1	53		
Nigrospora						
Oidium/Erysiphe/Peronospora						
Phoma	111 1110-011111111111111111111111111111					
Pithomyces						
rusts						
Spegazzinia						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
unknown/unidentified						
hyphal fragments	2	107	1	53	3	160
		· · ·				
Total fungal spores and fragments:	14	747	2	107	11	587
Limit of Detection:	1	53	1	53	1	53
Comments:						

TNTC: Too numerous to count

< Less Than

>: Greater Than

Count/m3: Count per meter cubed

PAACB: Pan-American Aerobiology Certification Bourd

Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

Reviewed by: Hellett & Zle

**: Aspergillus and Penicillium spores (and others such as Paecilomyces) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

*: No analytical field blank submitted with associated sample(s).

Background Debris: Background debris is an indication of the amount of non-microbial debris present on the slide and is rated on a scale of 1 to 5:

Debris Load of 1: <10% debris present. Counts not affected.

Debris Load of 2: 11-25% debris present. Counts not affected.

Debris Load of 3: 25-75% debris present. Counts may be underestimated,

Debris Load of 4: 76-90% debris present. Counts underestimated.

Debris Load of 5; >90% debris present. Counts could not be determined, sample overloaded.

1, 140 analytica field trank submitted with associated sample(s)

Approved By:



Client: SAU #15

90 Farmer Road

Hooksett, NH 03106

SLGL Job #: 11-1044

Client Project: Aubum Village School

Report Date: November 17, 2011 Date Sampled: November 15, 2011

Date Received: November 16, 2011

Analyzed by: NEF, #01040036

Collected by: SRM



Analytical Results

Lab Number:	293678	293679	293680
Sample Identification:	111511-1044-A10, Area, background, classroom 122 (VCT)	111511-1044-A11, Area, background, classroom 126 (VCT)	111511-1044-A12, Area, background, 128 (VCT)
Analysis:	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination
Methodology:	SLGL-3067	SLGL-3067	SLGL-3067
Sample Media:	Air-O-Cell	Air-O-Cell	Air-O-Cell
Debris Rating:	3	2	2
Air Volume (L):	75.0	75.0	75.0
Minutes:	5	5	5
Date Analyzed:	November 17, 2011	November 17, 2011	November 17, 2011

Mold/Fungi Type	Raw Count	Count/m ³	Raw Count	Count/m³	Raw Count	Count/m³
Alternaria						
Ascospores	2	107				
**Aspergillus/Penicillium- like	1	53	5	267		
Basidiospores	2	107	11	587	1	53
Bipolaris/Drechslera -like						
Botrytis						
Chaetomium	1	53	1	53		
Cladosporium			3	160	1	53
Curvularia						
Epicoccum						
Fusarium						
Myxomycetes/Periconia /smuts	4	213	3	160		
Nigrospora						
Oidium/Erysiphe/Peronospora						
Phoma						
Pithomyces						
rusts						
Spegazzinia						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium		2011				
unknown/unidentified			1	53		
hyphal fragments			3	160		
Total fungal spores and fragments:	10	533	27	1,440	2	107
Limit of Detection:	1	53	1	53	ł	53
Comments:						

TNTC: Too numerous to count

<: Less Than

>: Greater Than

Count/m3: Count per meter cubed

PAACB: Pan-American Aerobiology Certification Board Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

**. Aspergillus and Penicillium spores (and others such as Paecilomyces) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

Reviewed by: HCCU HEQU

*: No analytical field blank submitted with associated sample(s).

Background Debris: Background debris is an indication of the amount of non-microbial debris present on the slide and is rated on a scale of 1 to 5:

Debris Load of 1: <10% debris present. Counts not affected. Debris Load of 2; 11-25% debris present. Counts not affected.

Debris Load of 3: 25-75% debris present. Counts may be underestimated.

Debris Load of 4: 76-90% debris present. Counts underestimated.

Debris Load of 5: >90% debris present. Counts could not be determined, sample overloaded.

Approved By:



Analytical Results

Client: SAU #15 90 Farmer Road

Hooksett, NH 03106

SLGL Job #: 11-1044

Client Project: Auburn Village School Report Date: November 17, 2011

Date Sampled: November 15, 2011 Date Received: November 16, 2011

Collected by: SRM

Analyzed by: NEF, #01040036



Lab Number:	293681	293682	293683	
Sample Identification:	111511-1044-A13, Area, background, 121- Music (VCT)	111511-1044-A14, Area, background, 211 (VCT)	111511-1044-A15, Area, background, 205 (VCT)	
Analysis:	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination	
Methodology:	SLGL-3067	SLGL-3067	SLGL-3067	
Sample Media:	Air-O-Cell	Air-O-Cell	Air-O-Cell	
Debris Rating:	3	2	2	
Air Volume (L):	75.0	75.0	75.0	
Minutes:	5	5	5	
Date Analyzed:	November 17, 2011	November 17, 2011	November 17, 2011	

1 1 1 2 2 2	53 53	1	53	1	107
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1		1	53	1	53
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2				1	53
2				1	53
2				1	53
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	107	2	107	2	107
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İ					
5	267	4	213	6	320
i	53	1	53	1	53
	5	5 267	5 267 4	5 267 4 213	5 267 4 213 6

TNTC: Too numerous to count

<; Less Than

>: Greater Than

Count/m3: Count per meter cubed

PAACB: Pan-American Aerobiology Certification Board

Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

**: Aspergillus and Penicillium spores (and others such as Paccilomyces) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

Reviewed by: He COUN ENCL

*: No analytical field blank submitted with associated sample(s).

Background Debris: Background debris is an indication of the amount of non-microbial debris present on the slide and is rated on a scale of 1 to 5:

Debris Load of 1: <10% debris present. Counts not affected.

Debris Load of 2: 11-25% debris present. Counts not affected.

Debris Load of 3: 25-75% debris present. Counts may be underestimated.

Debris Load of 4: 76-90% debris present. Counts underestimated,

Debris Load of 5: >90% debris present. Counts could not be determined, sample overloaded.

Approved By:



Analytical Results

Client: SAU #15

90 Farmer Road

Hooksett, NH 03106

SLGL Job #: 11-1044

Client Project: Aubum Village School Report Date: November 17, 2011

Date Sampled: November 15, 2011

Date Received: November 16, 2011

Collected by: SRM

Analyzed by: NEF, #01040036



Lab Number:	293684	293685	293686
Sample Identification:	111511-1044-A16, Area, background, 201 (carpet)	111511-1044-A17, Area, background, outdoor, front parking main entrance	111511-1044-A18, Area, background, outdoor, rear between playground and portables
Analysis:	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination
Methodology:	SLGL-3067	SLGL-3067	\$LGL-3067
Sample Media:	Air-O-Cell	Air-O-Cell	Air-O-Cell
Debris Rating:	3	2	2
Air Volume (L):	75.0	75.0	75.0
Minutes:	5	5	5
Date Analyzed:	November 17, 2011	November 17, 2011	November 17, 2011

Mold/Fungi Type	Raw Count	Count/m³	Raw Count	Count/m³	Raw Count	Count/m³
Alternaria					1	53
Ascospores			17	907	16	853
**Aspergillus/Penicillium- like	2	107	6	320	8	427
Basidiospores	10	533	144	7,680	100	5,333
Bipolaris/Drechslera -like						
Botrytis		A SHALL Y				
Chaetomium	l	53	1	53		
Cladosporium	2	107	7	373	1	53
Curvularia	2	107				
Epicoccum						
Fusarium						
Myxomycetes/Periconia /smuts	4	213	13	693		
Nigrospora						
Oidium/Erysiphe/Peronospora						
Phoma						
Pithomyces	l	53				
rusts						
Spegazzinia						
Stachybotrys						
Stemphylium						
Torula					1	53
Ulocladium						
unknown/unidentified						
hyphal fragments	1	53	2	107	1	53
7.416	23	1,227	190	10,133	128	6,827
Total fungal spores and fragments:	1	53	190	53	1	53
Limit of Detection: Comments:	1	33	1),	1	دد

TNTC: Too numerous to count

<: Less Than

>: Greater Than

Count/m3: Count per meter cubed

PAACB; Pan-American Aerobiology Certification Board Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

**: Aspergillus and Penicillium spores (and others such as Paecilomyces) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

Reviewed by: HCUN HEAL

*: No analytical field blank submitted with associated sample(s).

Background Debris: Background debris is an indication of the amount of non-microbial debris present on the slide and is rated on a scale of 1 to 5:

Debris Load of 1; <10% debris present. Counts not affected,

Debris Load of 2: 11-25% debris present. Counts not affected.

Debris Load of 3: 25-75% debris present. Counts may be underestimated.

Debris Load of 4: 76-90% debris present. Counts underestimated.

Debris Load of 5: >90% debris present. Counts could not be determined, sample overloaded.

Approved By:



Analytical Results

293687

111511-1044-A19, Analytical field blank Fungi Enumeration & Identification - Direct

Examination

SLGL-3067 Air-O-Cell

1

Lab Number:

Analysis:

Methodology:

Sample Media: Debris Rating:

Sample Identification:

Client: SAU #15 90 Farmer Road Hooksett, NH 03106

SLGL Job #; 11-1044

Client Project: Auburn Village School Report Date: November 17, 2011

Date Sampled: November 15, 2011

Date Received: November 16, 2011

Collected by: SRM

Analyzed by: NEF, #01040036



Air Volume (L):	0.	0				
Minutes:	()				
Date Analyzed:	November	17, 2011				
Mold/Fungi Type	Raw Count	Count/m³				
Alternaria						
Ascospores						
**Aspergillus/Penicillium- like						
Basidiospores						
Bipolaris/Drechslera -like						
Botrytis						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fuscirium						
Myxomycetes/Periconia /smuts						
Nigrospora						
Oidium/Erysiphe/Peronospora						
Phoma						
Pithomyces						
rusts						
Spegazzinia						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
unknown/unidentified						
hyphal fragments						
Total fungal spores and fragments:	< 1					
Limit of Detection:	1					
Comments:	None detected					
TNTC:	Too numerous to count		Background Debri	is: Background debris is an indica	tion of the amount of non-microl	bial debris present on the slide :
1110				is rated on a scale of 1 to 5:		

<: Less Than

>: Greater Than

Count/m3: Count per meter cubed

PAACB; Pan-American Aerobiology Certification Board Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

**: Aspergillus and Penicillium spores (and others such as Paecitomyces) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

*: No analytical field blank submitted with associated sample(s).

Debris Load of 1: <10% debris present. Counts not affected.

Debris Load of 2: 11-25% debris present. Counts not affected.

Debris Load of 3: 25-75% debris present. Counts may be underestimated.

Debris Load of 4: 76-90% debris present. Counts underestimated.

Debris Load of 5: >90% debris present. Counts could not be determined, sample overloaded.

Reviewed by: HClu H En 7 LL

Approved By:

20 Ch 3 WSON Group, Ltd. Phr. (603) 228-361 realth & Safest Consultants	**	Address:		O	Client Project:		
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A Note to Customer: by signing and relinquishing your samples to the laboratory, you agree with the terms and conditions found on the back of this Chain of Custody Form.

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A Note to Customer: by signing and relinquishing your samples to the laboratory, you agree with the terms and conditions found on the back of this Chain of Custody Form.

Page: Of The Page

Samples received in good condition? []Yes []No 石艺艺 Minutes i je [] Other Air Volume (L) [] US Mail [] Drop Box [] Drop Off Date/Time: Date/Time: Swab/Wipe Area Units: Client Project: Sampled By: SLGL Job#: Comments: Client PO: 4 °C email: Preservative Media/ Container be | DHL] Water, drinking or waste [] Wipe composite Samples Shipped Via: [] FedEx [] UPS Time [] Wipe Other: All samples on this form should be of the SAME matrix type. Use additional forms as needed. Received By: Received By: Date Sampled محمر عد عدد Submitting Co.: Attention: Address: Phone: [] Tape Lift []6-8 hours* []24 hours* []72 hours* Ph: (603) 228-3610, Fax: (603) 228-3871 www.slgl.com email: Lab@slgl.com [] Solid Swab [] [] Soil 20 Chenell Drive Concord, New Hampshire 03301 ₹~4 : Date/Time: Date/Time: Analysis "Not available for all texts. Schedule rush and weekend texts in advance. []10 days [] Weekend [] Other: Sludge [] Paint [] Bulk [] 0i1 Sample Collection and Custody Information Ž 7 7 S. 5 Sample Identification The Scott Lawson Group, Ltd.] Agar (biostrip)] Agar (plate) Environmental, Health & Safety Consultants] Aqueous] 3 hours*] 5 days 4 Sample Matrix Type (select one) Turnaround Time (select one) Relinquished By: Relinquished By: SLGL Lab#

A Note to Customer: by signing and relinquishing your samples to the laboratory, you agree with the terms and conditions found on the back of this Chain of Custody Form.

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A Note to Customer: by signing and relinquishing your samples to the laboratory, you agree with the terms and conditions found on the back of this Chain of Custody Form.

APPENDIX A2

ANALYTICAL RESULTS

December 1, 2011



Client: SAU #15

90 Farmer Road Hooksett, NH 03106

SLGL Job #: 11-1044

Client Project: Auburn Village School

Report Date: December 2, 2011 Date Sampled: December 1, 2011

Date Received: December 2, 2011 Collected by: SRM

Analyzed by: NEF, #01040036



Analytical Results

Lab Number:	293991	293992	293993
Sample Identification:	11-1044-A40, Area, background, Classroom M- 1, exterior at air intake	11-1044-A41, Area, background, crawlspace under Classroom M-1	11-1044-A42, Area, background, Classroom M- 1, interior of HVAC duct
Analysis:	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination
Methodology:	SLGL-3067	SLGL-3067	\$LGL-3067
Sample Media:	Air-O-Cell	Air-O-Cell	Air-O-Ceil
Debris Rating:	2	3	3
Air Volume (L):	75,0	75.0	75.0
Minutes:		5	5
Date Analyzed:	December 2, 2011	December 2, 2011	December 2, 2011

Mold/Fungi Type	Raw Count	Count/m³	Raw Count	Count/m ³	Raw Count	Count/m³
Alternaria						
Ascospores	2	107	1	53	1	53
**Aspergillus/Penicillium- like	2	107	61	3,253		
Basidiospores	19	1,013	51	2,720	2	107
Bipolaris/Drechslera -like						
Botrytis			1	53		
Chaetomium			4	213		
Cladosporium	9	480	> 250	> 13,333	1	53
Curvularia						
Epicoccum						
Fusarium						
Myxomycetes/Periconia /smuts			10	533		
Nigrospora						*******
Oidium/Erysiphe/Peronospora	2	107				
Phoma						
Pithomyces			2	107		
rusts						
Spegazzinia						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
unknown/unidentified			1	53		
hyphal fragments	1	53	13	693	2	107
					<u> </u>	
Total fungal spores and fragments:	35	1,867	> 394	> 21,013	6	320
Limit of Detection:	1	53	1	53	1	53
Comments:						

TNTC: Too numerous to count

<: Less Than

>: Greater Than

Count/m3: Count per meter cubcd

PAACB: Pan-American Aerobiology Certification Board Detection Limit: The detection limit is equal to one fungal spore or hypital

**: Aspergillus and Penicillium spores (and others such as Paccilonyces) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

Reviewed by: Hell M & 724

*: No analytical field blank submitted with associated sample(s).

Background Debris: Background debris is an indication of the amount of non-microbial debris present on the slide and is rated on a scale of 1 to 5:

Debris Load of 1; <10% debris present. Counts not affected.

Debris Load of 2; 11-25% debris present. Counts not affected.

Debris Load of 3: 25-75% debris present. Counts may be underestimated.

Debris Load of 4: 76-90% debris present. Counts underestimated,

Debris Load of 5: >90% debris present. Counts could not be determined, sample overloaded.

Approved By:



Client: SAU #15 90 Farmer Road

Hooksett, NH 03106

SLGL Job #: 11-1044

Client Project: Aubum Village School Report Date: December 2, 2011

Date Sampled: December 1, 2011 Date Received: December 2, 2011

Analyzed by: NEF, #01040036

Collected by: SRM



Analytical Results

Lab Number:	293994	293995	293996	
Sample Identification:	11-1044-A43, Area, background, Classroom M- l, center of room by column	11-1044-A44, Area, background, Classroom 103, center of room	11-1044-A45, Analyical field blank	
Analysis:	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination	
Methodology:	SLGL-3067	SLGL-3067	SLGL-3067	
Sample Media:	Air-O-Cell	Air-O-Cell	Air-O-Cell	
Debris Rating:	3	3	1	
Air Volume (L):	75.0	75.0	0.0	
Minutes:	5	5	0	
Date Analyzed:	December 2, 2011	December 2, 2011	December 2, 2011	

Mold/Fungi Type	Raw Count	Count/m³	Raw Count	Count/m³	Raw Count	Count/m ³
Alternaria						
Ascospores	l	53				
**Aspergillus/Penicillium- like	9	480	1	53		
Basidiospores	12	640	3	160		
Bipolaris/Drechslera -like						
Botrytis			**			
Chaetomium				******		
Cladosporium	7	373	1	53		
Curvularia						
Ерісоссин						
Fusarium						
Myxomycetes/Periconia /smuts	20	1,067	1	53		
Nigrospora						
Oidium/Erysiphe/Peronospora						
Phoma						
Pithomyces	1	53				
rusts						
Spegazzinia			111.1.1.111111			
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
unknown/unidentified	1	53				
hyphal fragments	3	160				
						· · · · · · · · · · · · · · · · · · ·
Total fungal spores and fragments:	54	2,880	6	320	< 1	
Limit of Detection:	1	53	1	53	1	
Comments:					None detected	

TNTC: Too numerous to count

< Less Than

>: Greater Than

Count/m3: Count per meter cubed

PAACB; Pan-American Aerobiology Certification Board Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

**: Aspergillus and Penicillium spores (and others such as Paecilomyces) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

*: No analytical field blank submitted with associated sample(s).

Background Debris: Background debris is an indication of the amount of non-microbial debris present on the slide and is rated on a scale of 1 to 5:

Debris Load of 1: <10% debris present. Counts not affected.

Debris Load of 2: 11-25% debris present. Counts not affected.

Debris Load of 3; 25-75% debris present. Counts may be underestimated.

Debris Load of 4: 76-90% debris present. Counts underestimated,

Debris Load of 5; >90% debris present. Counts could not be determined, sample overloaded.

Reviewed by: Helan M. Grzun

Approved By:

		į		Submitting Co.:	\ \frac{1}{2}			- - - - - - - - - - - - - - - - - -	5501 -U		
The Scott La	The Scott Lawson Group, Ltd.	2 & S	3301 228-3871	Address:				Client Project: 产んりい?	Arbur Uilze Sc	2 - S.C.	3
		www.sigi.com email;	email: Lab@sigl.com					Client PO:			
Turnaround Time (select one)	[] 3 hours* [] 6-8 hours*	:s* [] 24 hours* [] 48 hours*	[] 72 hours*	Attention:				Sampled By:			
	[] 5 days [] 10 days [] Weekend [] Other:	[] Weekend [] Other.		Phone:	Fax:			email:			
	CAir	[] Bulk	[] Soil] Water, drinking or waste	ng or waste		Comments:			
Sample Matrix Type	[] Aqueous	[] 0:1	[] Solid	J] Wipe						
(select one)	[] Agar (biostrip) [] Agar (plate)	[] Paint [] Sludge	[] Swab [] Tape Lift		Wipe composite Other:	site					
	All samples on this	All samples on this form should be of the SAME matrix, type. Use additional forms as needed.	narix ape. Use addita	onal forms as	needed.			Samples received in good condition? [Tres [] Ino	good condition?	[Fes [No	
SLGL Lab#	Sample Identification	Aı	Analysis	Date Sampled	ed Time	Media/ Container	Preservative	Swab/Wipe Area 4°C Units:	ea Air Volume	Minutes	
41357 III	046 - A401-	6 Fromas	ナナン)	to of		4-12-0 Co20	¹ / ₂	***************************************	25	5	
<i>2</i> b5	124		₩ igo s		-	_{g. P} opressed	1	S	54	2	
61513	AHZ	7	Security days	d local					SC	5	
	A43	3	- The state of the			and the state of t			52	6	
7515	Aut	+1							-56	5	
75/5	T AAS	-5	- Company	zonana pravije.			A CONTRACTOR OF THE PARTY OF TH		0	9	
Sam	Sample Collection and Custody Information		Samples Shipped Via: [] FedEx [] UPS	d Via: [] Fed	Ex [] UPS		[] US Mail	[] Drop Box []] Drop Off [] Other	ther	
Relinguished By:	12-2-11	0730	Date/Time:	Receive	Received By:	222	- }	Date		940	
Relinquished By:		20	Date/Time:	Received By:	IBy:			Date/	Date/Time:	•	
₩	Mote to Customer. In cianing and relinanishing your complex to the laboratory was garee with the terms and conditions found on the back of this Chain of Custady Form.	and volinarishing state of	or to the Inharatem you	n acrea with t	ho torms and	anditions four	don the hack	of this Chain of Cu	ctody Form		

A Note to Customer: by signing and relinquishing your samples to the laboratory, you agree with the terms and conditions found on the back of this Chain of Custody Form.

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APPENDIX A3

ANALYTICAL RESULTS

December 2, 2011



Client: SAU#15 90 Farmer Road

Hooksett, NH 03106

SLGL Job #; 11-1044

Client Project; Auburn Village School Report Date: December 7, 2011

Date Sampled: December 2, 2011 Date Received: December 5, 2011

Collected by: SRM

Analyzed by: NEF, #01040036



Analytical Results

Lab Number:	294050	294051	294052
Sample Identification:	11-1044-A01, Area, background, classroom 100 (VCT)	11-1044-A02, Area, background, corridor outside classroom 100 (VCT)	11-1044-A03, Area, background, classroom 104 (VCT)
Analysis:	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination
Methodology:	SLGL-3067	\$LGL-3067	SLGL-3067
Sample Media:	Air-O-Cell	Air-O-Cell	Air-O-Cell
Debris Rating:	3	3	2
Air Volume (L):	75.0	75.0	75.0
Minutes:	5	5	5
Date Analyzed:	December 5, 2011	December 5, 2011	December 5, 2011

Mold/Fungi Type	Raw Count	Count/m³	Raw Count	Count/m³	Raw Count	Count/m³
Alternaria	1	53				
Ascospores						
**Aspergillus/Penicillium- like						
Basidiospores	2	107	3	160	2	107
Bipolaris/Drechslera -like			1	53		
Botrytis						
Chaetomium						
Cladosportum	4	213			2	107
Curvularia	I	53	1	53		
Epicoccum						
Fusarium						
Myxomycetes/Periconia /smuts	2	107	1	53		
Nigrospora						
Oidium/Erysiphe/Peronospora						
Phoma						
Pithomyces	1	53				
rusts						
Spegazzinia						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
unknown/unidentified	1	53				
hyphal fragments	2	107	2	107	3	160
Total fungal spores and fragments:	14	747	8	427	7	373
Limit of Detection:	1	53	I	53	1	53
Comments:						

TNTC: Too numerous to count

<: Less Than

>: Greater Than

Count/m3: Count per meter cubed

PAACB: Pan-American Aerobiology Certification Board Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

**: Aspergillus and Penicillium spores (and others such as Paecilomyces) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

*: No analytical field blank submitted with associated sample(s).

Background Debris: Background debris is an indication of the amount of non-microbial debris present on the slide and is rated on a scale of 1 to 5:

Debris Load of 1; <10% debris present. Counts not affected.

Debris Load of 2: 11-25% debris present. Counts not affected,

Debris Load of 3: 25-75% debris present. Counts may be underestimated.

Debris Load of 4: 76-90% debris present. Counts underestimated.

Debris Load of 5; >90% debris present. Counts could not be determined, sample overloaded.

Helen M. Enzuen

Approved By:



Client: SAU#15

90 Farmer Road Hooksett, NH 03106

SLGL Job #: 11-1044

Client Project: Auburn Village School Report Date: December 7, 2011

Date Sampled: December 2, 2011

Date Received: December 5, 2011 Collected by: SRM

Analyzed by: NEF, #01040036



Analytical Results

Lab Number:	294053	294054	294055	
Sample Identification:	11-1044-A04, Area, background, corridor outside nurse's office (carpet)	11-1044-A05, Area, background, library, computer area (carpet)	11-1044-A06, Area, background, library, reading area (carpet)	
Analysis:	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination	
Methodology:	SLGL-3067	SLGL-3067	SLGL-3067	
Sample Media: Air-O-Cell		Air-O-Cell	Air-O-Cell	
Debris Rating:	Debris Rating: 3		3	
Air Volume (L): 75.0		75.0	75.0	
Minutes:	5	5	5	
Date Analyzed: December 6, 2011		December 6, 2011	December 6, 2011	

Raw Count	Count/m³	Raw Count	Count/m³	Raw Count	Count/m³
	······································	2	107		
5	267	3	160	9	480
3	160	3	160	8	427
1	53	L	53	2	107
		1	53		
-					
1	53	2	107	7	373

				1	53
1	53				
					A****
AMADIE TO					
		1	53		
3	160	4	213	4	213
14	747	17	907	31	1,653
1	53	1	53	1	53
	1 1 3 3	1 53 1 53 1 53 1 53 1 53	2 5 267 3 3 160 3 1 53 1 1 53 2 1 53 2 1 53 4 1 53 4 1 53 4 1 1 3 160 4	2 107 5 267 3 160 3 160 3 160 1 53 1 53 1 53 1 53 1 53 1 53 1 53 3 160 4 213	County C

TNTC: Too numerous to count

<: Less Than

>; Greater Than

Count/m3: Count per meter enbed

PAACB: Pan-American Aerobiology Certification Board

Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

**: Aspergillus and Penicillium spores (and others such as Paccilomyces) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

Reviewed by: Hour H Enzuen

*: No analytical field blank submitted with associated sample(s).

Background Debris: Background debris is an indication of the amount of non-microbial debris present on the slide and is rated on a scale of 1 to 5:

Debris Load of 1; <10% debris present. Counts not affected.

Debris Load of 2: 11-25% debris present. Counts not affected.

Debris Load of 3: 25-75% debris present. Counts may be underestimated.

Debris Load of 4: 76-90% debris present. Counts underestimated.

Debris Load of 5: >90% debris present. Counts could not be determined, sample overloaded.

(10 thing from north origins submitted 11 pt 1200012000 sample(a))

Approved By:



Client: SAU #15 90 Farmer Road Hooksett, NH 03106

SLGL Job #: 11-1044

Client Project: Auburn Village School Report Date: December 7, 2011 Date Sampled: December 2, 2011

Date Received: December 5, 2011 Collected by: SRM

Analyzed by: NEF, #01040036



Analytical Results

Lab Number:	294056	294057	294058
Sample Identification:	11-1044-A07, Area, background, classroom 120, occupational therapy (VCT)	11-1044-A08, Area, background, Portable classroom crawlspace	11-1044-A09, outdoor, outside building rear entrance
Analysis:	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination
Methodology:	SLGL-3067	SLGL-3067	SLGL-3067
Sample Media:	Air-O-Cell	Air-O-Cell	Air-O-Cell
Debris Rating:	3	2	2
Air Volume (L):	75.0	75,0	75,0
Minutes:	5	5	5
Date Analyzed:	December 6, 2011	December 6, 2011	December 7, 2011

Mold/Fungi Type	Raw Count	Count/m³	Raw Count	Count/m³	Raw Count	Count/m³
Alternaria						
Ascospores						
**Aspergillus/Penicillium- like	10	533	9	480		
Basidiospores	9	480	20	1,067	45	2,400
Bipolaris/Drechslera -like						•
Botrytis						
Chaetomium						
Cladosporium	1	53	14	747	4	213
Curvularia						
Ерісоссин					1	53
Fusarium						
Myxomycetes/Periconia /smuts					2	107
Nigrospora						
Oidium/Erysiphe/Peronospora						
Phoma						
Pithomyces						
rusts						
Spegazzinia						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
unknown/unidentified	1	53				
hyphal fragments	1	53				
Paecilomyces			41	2,187		
Total fungal spores and fragments:	22	1,173	84	4,480	52	2,773
Limit of Detection:	1	53	1	53	1	53
Comments:						

TNTC: Too numerous to count

<: Less Than

>: Greater Than

Count/m3: Count per meter cubed

PAACB: Pan-American Aerobiology Certification Board Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

**: Aspergillus and Penicillium spores (and others such as Paccilomyces) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

Reviewed by: Helen M Enzle

*; No analytical field blank submitted with associated sample(s).

Background Debris: Background debris is an indication of the amount of non-microbial debris present on the slide and is rated on a scale of 1 to 5:

Debris Load of 1; <10% debris present. Counts not affected.

Debris Load of 2: 11-25% debris present. Counts not affected.

Debris Load of 3: 25-75% debris present. Counts may be underestimated.

Debris Load of 4: 76-90% debris present. Counts underestimated.

Debris Load of 5: >90% debris present. Counts could not be determined, sample overloaded.

Approved By:



Analytical Results

Date Analyzed:

December 7, 2011

Client: SAU #15
90 Farmer Road
Hooksett, NH 03106

SLGL Job #: 11-1044

Client Project: Auburn Village School Report Date: December 7, 2011 Date Sampled: December 2, 2011

Collected by: SRM

Analyzed by: NEF, #01040036

Date Received: December 5, 2011



Mold/Fungi Type	Raw Count	Count/m³		
Alternaria				
Ascospores				
**Aspergillus/Penicillium- like				
Basidiospores				
Bipolaris/Drechslera -like				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Ерісоссин				
Fusarium				
Myxomycetes/Periconia /smuts				
Nigrospora				
Oidium/Erysiphe/Peronospora				
Phoma				
Pithomyces				
rusts				
Spegazzinia				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
unknown/unidentified				
hyphal fragments				
				 1
Total fungal spores and fragments:	< 1			
Limit of Detection:	1			
Comments:	None detected			

TNTC: Too numerous to count

<: Less Than

>: Greater Than

Count/m3: Count per meter cubed

PAACB: Pan-American Aerobiology Certification Board

Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

**: Aspergillux and Penicillium spores (and others such as Paccilium/ces*) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

*: No analytical field blank submitted with associated sample(s).

Background Debris: Background debris is an indication of the amount of non-microbial debris present on the slide and is rated on a scale of 1 to 5:

Debris Load of 1: <10% debris present. Counts not affected.

Debris Load of 2: 11-25% debris present. Counts not affected.

Debris Load of 3: 25-75% debris present. Counts may be underestimated.

Debris Load of 4: 76-90% debris present. Counts underestimated.

Debris Load of 5: >90% debris present. Counts could not be determined, sample overloaded.

Reviewed by: Helen HEnzlen

Approved By:

Norman Flatcher 1 sh Managar

100 mg/s Samples received in good condition? [] Yes [] No Minutes 5 4 V J. [] Drop Off [] Other 3 Air Volume (L) 10 -Ç. 1 Date/Time: Date/Time Swab/Wipe Area ACE AC Sampled By: Units: Drop Box Client Project: SLGL Job# Client PO: Comments: 4°C US Mail Preservative 25 Media/ Container O-at] DHL Water, drinking or waste 9 いろすの Samples Shipped Via: [] FedEx [] UPS [] Wipe composite with Time] Other: All samples on this form should be of the SAME matrix type. Use additional forms as needed,] Wipe Received By: Received By: Date Sampled C de Submitting Co.: 1 Attention: Address: Phone: 2 to the []6-8 hours* []24 hours* []72 hours* Tape Lift 20 Chenell Drive
Concord, New Hampshire 03301
Ph. (603) 228-3610, Fax. (603) 228-3871
www.slgl.com enail: Lab@slgl.com] Swab Solid Soil Date/Time: Date/Time: Analysis *Not evailable for all texts. Schedule rush and weekend tests in advance. [] 10 days [] Weekend [] Other: Ŋ V S L [] Sludge [] Paint Bulk 7 [] 0:1 Sample Collection and Custody Information S (T)) T (4 2 40 A A かり 800 5 10 Sample Identification The Scott Lawson Group, Ltd.] Agar (biostrip)] Agar (plate) Environmental, Health & Safety Consultant] Aqueous] 3 hours*] 5 days アストニ Air Air Sample Matrix Type (select one) Turnaround Time (select one) Relinquished By: SLGL Lab# Relinquished By

2500

A Note to Customer: by signing and relinquishing your samples to the laboratory, you agree with the terms and conditions found on the back of this Chain of Custody Form.

Samples received in good condition? [] Yes []No 1 0 [] Drop Off [] Other Air Volume (L) Date/Time: Date/Time: Swab/Wipe Area 7 9) Units: The state of the s [] US Mail [] Drop Box Client Project: Sampled By: SLGL Job# Comments: Client PO: 4°C email: Preservative Media/ Container J-10-66 Samples Shipped Via: [] FedEx [] UPS [] DHL Water, drinking or waste [] Wipe composite Fax: Time [] Wipe Other: All samples on this form should be of the SAME matrix type. Use additional forms as needed, Received By: Received By: Date Sampled ing. Submitting Co.: Attention: Address: Phone: 4 [] 6-8 hours* [] 24 hours* [] 72 hours*] Tape Lift 20 Chenell Drive Concord, New Hampshire 03301 Ph: (603) 228-3610, Fax: (603) 228-3871 www.slgl.com email: Lab@slgl.com ľ Swab [] Solid [] Soil Comment of the second Date/Fime: Date/Time: *Not available for all tests. Schedule rush and weekend tests in advance. Analysis [] 10 days [] Weekend [] Other: 1 V 5 1 1 [] Sludge [] Paint [] Bulk [] 0:1 Sample Collection and Custody Information -(V A MOR 3 the standard of Sample Identification The Scott Lawson Group, Ltd.] Agar (biostrip)] Agar (plate) Environmental, Health & Safety Consultants] Aqueous 3 hours*] 5 days 📝 Air 3::2 Sample Matrix Type (select one) Turnaround Time (select one) Relinquished By: SLGL. Lab# Relinquished By:

A Note to Customer: by signing and relinquishing your samples to the laboratory, you agree with the terms and conditions found on the back of this Chain of Custody Form.

Jo

APPENDIX A4

ANALYTICAL RESULTS

Vacuum Sample December 2, 2011



294002

Post Office Box 3304, Concord, NH 03302-3304 (603) 228~3610 / (800) 645~7674 / Fax (603) 228~3871

Analytical Results

Lab Number:

Client: SAU #15 90 Farmer Road

Hooksett, NH 03106

SLGL Job #: 11-1044

Client Project: Auburn Village School Report Date: December 2, 2011

Date Sampled: December 2, 2011 Date Received: December 1, 2011

Collected by: SRM Analyzed by: NEF

		l	
Sample Identification:	11-1044-B01, Vacuum sample carpet, classroom m- 1, carpet by desk & HVAC unit		
Analysis:	Dust Characterization		
Methodology:	SLGL-3096		
Sample Media:	Vacuum Tube		
Date Analyzed:	December 2, 2011		
Identification	Percentage(%)		
Algae			
Animal Hair (including wool)	< 1		
Arthropod parts (insects, spiders etc)	< 1		
Carbonaceous Particles (e.g. soot, graphite, fly ash, furnace emissions)	8		
Cellulose fibers	50		
Epithelial (skin) cells	10		
Feathers			
Fern, moss, etc.			
Fibrous glass	< 1		
Fungi	< 1		
Gypsum dust	3		
Human hair	2		
Miscellaneous	> 10		
Mites			
Other mineral particles	3		
Plant matter (including trichome)	2		
Pollen	< 1		
Quartz	2		
Starch Particles	2		
Synthetic fibers	2		
Wood chips	< 1		

Analytical Dust Characterization performed using optical microscopy methodology.

<: Less Than

>: Greater Than

Reviewed by: Hull H & Rue

Comments:

Approved By:

Samples received in good condition? | Tyes | TNo Minutes as part of the second [] Other Air Volume (L) Drop Off Date/Time: Date/Time: Swab/Wipe Area James VO [] US Mail [] Drop Box Client Project: Sampled By: SECIE Job# Comments: Client PO: **4**့င email: Preservative Media/ Container Samples Shipped Via: [] FedEx [] UPS [] DHL] Water, drinking or waste [] Wipe composite Fax: Time Other: [] Wipe All samples on this form should be of the SAME matrix type. Use additional forms as needed. Received By: Received By: Date Sampled ne de la companya de Submitting Co.: Attention: Address: Phone: And American [] 6-8 hours* [] 24 hours* [] 48 hours* [] 72 hours* [] Tape Lift 20 Chenell Drive Concord, New Hampshire 03301 Ph: (603) 228-3610, Fax: (603) 228-3871 www.slgl.com email: Lab@slgl.com Swab [] [] Solid [] Soil Date/Time: Date/Time: "Not evaliable for all texts. Schedule rash and weekend tests in advance. Analysis [] 10 days [] Weekend [] Other: À. Supply of the same [] Paint Sludge] [//] Bulk [] 0!] Sample Collection and Custody Information 0 Sample Identification The Scott Lawson Group, Ltd.] Agar (biostrip)] Agar (plate) 1 Environmental, Health & Safety Consultan] Aqueous] 3 hours* [] 5 days Same Sample of the] Air Sample Matrix Type (select one) Turnaround Time (select one) Relinquished By: Relinguished By: SLG1 Lab#

A Note to Customer: by signing and relinquishing your samples to the laboratory, you agree with the terms and conditions found on the back of this Chain of Custody Form.

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