



A-Tech Consulting, Inc.

1640 N. Batavia Street, Orange, CA 92867
Phone (714) 434-6360 Fax (714) 221-6360
www.atechinc.net

LIMITED INDOOR AIR QUALITY ASSESSMENT

Hodge Elementary School

700 West 11th Street

City of Azusa
County of Los Angeles
State of California

Project Number: Atch-211874

August 17, 2021

PREPARED FOR:

Azusa Unified School District

PRIVILEGED & CONFIDENTIAL

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Cover

INDOOR AIR QUALITY

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Atch-211874
Limited Indoor Air Quality Assessment
700 West 11th Street
Azusa, California 91702

August 17, 2021

Azusa Unified School District
546 South Citrus Avenue
Azusa, California 91702

Attn: Mr. Brian Allen

Re: Hodge Elementary School
700 West 11th Street, Various Areas
Azusa, California 91702

Pursuant to your request, A-Tech Consulting, Inc. has completed a Limited Indoor Air Quality (IAQ) Assessment in various areas of Hodge Elementary School located at 700 West 11th Street, in Azusa, California. The following report summarizes the findings of this assessment.

1.0 BACKGROUND

On July 23, 2021, July 27, 2021, July 28, 2021 and August 9, 2021, Industrial Hygiene Technician Krizia Kolakowski, under the supervision of Certified Industrial Hygienist (CIH) Roosevelt Ward with A-Tech Consulting, Inc. performed a Limited Indoor Air Quality (IAQ) Assessment in various areas of the subject site. This assessment was performed due to concerns raised by occupants of Hodge Elementary School regarding poor indoor air quality. These concerns were limited to the thirty (30) areas surveyed during this assessment: Classrooms 1 through 29 and the Library.

At the time of the assessment, the areas were inspected and samples were collected to assess a) inside temperature and relative humidity as indicators of comfort, b) carbon dioxide levels as indicator of air flow, c) carbon monoxide, d) HVAC filtration efficiency and e) fungal spore exposure in the work areas to determine the IAQ impact in the various areas of concern. This IAQ assessment was performed in accordance with the scope of services authorized by Mr. Brian Allen with the Azusa Unified School District.

2.0 METHODOLOGY

As a precautionary measure, sampling of relative humidity (RH), temperature (T), carbon dioxide (CO₂), carbon monoxide (CO), particle distribution and airborne fungal distribution was performed at the subject site to ensure that levels are within acceptable parameters for occupancy.

Continuous datalogged sampling was performed at stationary locations at approximate breathing zone height. The following table details the parameters monitored, sampling intervals and sampling durations of the two (2) continuous datalogging units used in this assessment:

<u>Unit</u>	<u>Parameter(s)</u>	<u>Interval (seconds)</u>	<u>Sampling Duration (min)</u>
TSI 7545 IAQCalc	Temperature Relative Humidity CO ₂ CO	5	10
ThermoScientific pDR1500	Aerosols	60	10

In addition, exterior continuous measurements were taken by each instrument upwind of the building or by HVAC exterior air intakes, for comparison.

2.1 Carbon Dioxide (CO₂), Carbon Monoxide (CO), Air Temperature and Relative Humidity

Carbon dioxide (CO₂), carbon monoxide (CO), air temperature and relative humidity were recorded using a TSI Model 7545 IAQCalc unit. Calibration on the IAQCalc unit was performed on December 21, 2020. Measurement ranges, accuracy and resolution for CO₂, CO, air temperature and relative humidity can be found in the following table.

<u>Parameter</u>	<u>Range</u>	<u>Accuracy</u>	<u>Resolution</u>
Carbon Dioxide (CO ₂)	0 to 5,000 ppm	±3% or ±50ppm (whichever is greater)	1 ppm
Carbon Monoxide (CO)	0 to 500 ppm	±3% or ±3ppm (whichever is greater)	0.1 ppm
Air Temperature	32 to 140°F	±1.0°F	0.1° F
Relative Humidity	5.0 to 95.0%	±3.0%	0.1%

The results can be found on the attached tables. Carbon dioxide and carbon monoxide levels are reported in parts per million (ppm), air temperature in degrees Fahrenheit (°F) and relative humidity in percentages (%).

2.2 Aerosol Particle Concentration

Aerosol particle (respirable dust <4.0 µm in diameter) concentration was measured using a ThermoScientific pDR-1500 unit, along with an aluminum respirable dust cyclone. Calibration on the pDR-1500 unit was performed on December 7, 2020. Measurement range, accuracy and resolution for the aerosol monitor of the pDR1500 unit can be found in the following table.

<u>Parameter</u>	<u>Range</u>	<u>Accuracy</u>	<u>Resolution</u>
Aerosol	0.001 to 400 mg/m ³	±5%	0.01 µg/m ³

The results can be found on the attached tables. Aerosol concentration levels are reported in micrograms per cubic meter (µg/m³).

2.3 Non-Viable Mold Air Sampling

Air sampling was performed inside and outside of the subject building to characterize mold spore levels. The air sampling was performed using Air-O-Cell cassettes. High air volume air pump (Buck BioAire™ Bioaerosol sampling pump) was used to pull air through the cassettes for five (interior) to ten (exterior) minutes at flow rates of approximately 15 L/min. The cassette pump air sampling trains were calibrated before and after each use against a rotameter.

The thirty-eight (38) non-viable mold air samples were collected and submitted using chain-of-custody procedures to AIH Laboratory located at 2556 W. Woodland Drive, Anaheim, California 92801 for analysis of mold spores. This analytical method reports measured airborne levels of total (non-viable) mold spores in units of spores per cubic meter of air (spores/m³). This laboratory has been certified in environmental microbiology by the Laboratory Accreditation Program administered by the American Industrial Hygiene Association (AIHA) lab code #LAP-203769.

3.0 DISCUSSION

3.1 Indoor Air Quality

The substances sampled are commonly known indoor air quality contaminants of concern in nonindustrial environments. Currently, there are no regulations pertaining to indoor air quality. However, the limits recommended by ASHRAE (American Society of Heating, Refrigerating, and Air Conditioning Engineers), National Institute for Occupational Safety and Health (NIOSH), Cal-OSHA (California Occupation Safety and Health Administration), Regional Exposure Levels (REL) as established by the California Office of Environmental Health Hazard Assessment (OEHHA), California Ambient Air Quality Standard (CAAQS), Regional Screening Levels (RSLs) as established by the Environmental Protection Agency (EPA) and LEED (Leadership in Energy and Environmental Design) are used for the evaluations of IAQ concerns. Keep in mind, concentrations that are within the recommended limits do not ensure freedom from sensory irritation or from all adverse health effects for all occupants.

3.2 Mold

Currently, there are no regulations or guidelines that quantify acceptable or unacceptable levels of mold spore content in the air or on surfaces for either total mold spore count or mold spore count for individual genre. The current general industry standard of mold content in air samples states that "typically mold levels should be lower indoors than outdoors and similar in diversity of genera". In cases where the exterior samples are abnormally low or high for mold content (typical instances include where a day can be windy, raining or there is snow cover) the Certified Indoor Environmental Consultant (CIEC) reviews each sample analysis by genre and overall mold content and makes final determination of potential mold exposure and activity.

When collecting fungal species and spore counts there are no set exposure limits for the safe number of spores from a particular genus or species. Common practice is to compare the species and spore counts of the air samples collected indoors to those collected outdoors. All indoor air will contain some degree of mold with variations in species and spore counts. For indoor air quality to be considered "normal" the species present in the indoor air should be similar to those found in the exterior ambient air. There are two ways to interpret mold data.

1. The first is to compare the total spores per cubic meter (spores/m³) reported from the interior to the total spores/m³ reported from the exterior. The total interior spore count should not exceed the total exterior spore count concentration by any excessive magnitudes.
2. The second is to compare the concentration of each spore type in exterior air to the indoor air samples. Each spore type should not exceed the exterior result for that genus/species of mold. In buildings without mold problems, the qualitative diversity of interior and exterior airborne fungi should be similar.

If remedial recommendations are provided, they will be based on a combined analysis of data including but not limited to, a review of the air and surface analytical results (as applicable), review of on-site conditions including building use, building history, moisture/water intrusion activity, visible water damage and/or mold conditions, length of water exposure, occupant health related symptoms (as applicable), and any other information obtained during the assessment combined with historical professional experience with similar projects. Fungal spores are present in almost all environments and do not proliferate indoors unless environmental requirements exist. Fungal activity varies by genre, with differing needs for light, dampness, consumables (building materials, food), and temperature. In general, fungi require air, moisture content above 15%, and cellulose-based materials such as wood, glue, paper products (drywall backing), carpet, clothing, etc.

4.0 ANALYTICAL RESULTS

4.1 Air Flow and Carbon Dioxide (CO₂) Levels

The National Institute for Occupational Safety and Health (NIOSH) has determined that the most common of indoor air quality complaints are related to inadequate ventilation. Building Heating, Ventilation and Air Conditioning (HVAC) systems need to function properly in order to control temperature, humidity, odor, and general air quality. Carbon dioxide levels are an indicator on whether adequate outside air is entering the building because building occupants produce carbon dioxide, water vapor, particulates, biological aerosols, and other contaminants during metabolic activities. CO₂ concentrations increase as a result of human occupancy and the lower the amount of outside air entering the room, the higher the CO₂ levels indoors.

The American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc. (ASHRAE) Standard 62.1-2016: Ventilation for Acceptable Indoor Air Quality recommends that indoor CO₂ concentrations no greater than 700 parts per million (ppm) above exterior CO₂ concentrations will satisfy a substantial majority (about 80%) of occupants (assuming exterior supply rate of 15 cfm/person). Thus, to determine if CO₂ levels are a concern, a CO₂ differential is calculated by subtracting the average interior CO₂ concentration from the exterior CO₂ concentration for each inspected area of concern.

For all surveyed interior areas of concern, the average indoor carbon dioxide (CO₂) levels **did not exceed** the carbon dioxide concentration of the exterior control sample by more than **700 ppm**. This indicates that indoor air quality concerns related to carbon dioxide are unlikely to exist in the areas inspected/tested. Please refer to the attached table (Appendix A) for detailed information on the sample results.

4.2 Air Temperature

Based on the experience of A-Tech Consulting, Inc., the air temperatures perceived as comfortable by most persons in interior environments and recommended by ASHRAE (Standard 55-2017) for occupant comfort, range between 67° and 82°F.

In one (1) of the thirty (30) interior areas of concern surveyed during this assessment, the average air temperature recorded **was outside** the ASHRAE recommended comfort ranges. Based on the general guidelines of the ASHRAE Standard 55, which assumes typical conditions for types of clothing, air movement, radiant heat and other complex factors, the temperatures recorded in the following areas of concern were outside recommended ranges:

Continuous Temperature Monitoring Measurements:

<u>Sample Number</u>	<u>Sample Location</u>	<u>Average Temperature (°F)</u>
211874-I-0034	Classroom 27*	84.7

*Note: At the time of the assessment, A-Tech attempted but was unable to turn on the AC unit in Classroom 27.

Average air temperatures recorded for the remaining interior areas of concern **were within** the ASHRAE recommended comfort ranges. Please refer to the attached table (Appendix A) for detailed information on the sample results.

4.3 Relative Humidity

For all surveyed interior areas of concern, recorded average relative humidity levels **were within** the 20 - 65 percent relative humidity range recommended by ASHRAE (Standard 62.1-2016) for occupant comfort. This indicates that indoor air quality concerns related to humidity are unlikely to exist in the areas inspected/tested. Please refer to the attached table (Appendix A) for detailed information on the sample results. Note that A-Tech Consulting, Inc. recommends that the relative humidity in buildings not exceed 50 percent in order to limit the potential for fungal growth.

4.4 Airborne Toxic, Flammable and Combustion Product Measurements (CO)

Carbon Monoxide is an indicator of a combustion by-product and is measured to confirm that no combustion sources are contained within, or are immediately adjacent to, the facility. It is frequently associated with headaches. Notable combustion sources include natural gas-fired furnaces, boilers, water heaters, cooking stoves or unvented combustion appliances as well as vehicular traffic, including all types of fossil-fueled industrial trucks. Depending on fuel sources present in interior locations, levels of carbon monoxide are normally less than exterior levels, unless a significant interior source exists. The Cal-OSHA 8-hour time weighted average Permissible Exposure Limit (PEL) for carbon monoxide is **25 ppm**. The OEHHA Regional Exposure Level (REL) for carbon monoxide is 31.2 ppm.

For all surveyed interior areas of concern, carbon monoxide was not detected, or was detected at low levels. These levels are **below** the Cal-OSHA PEL of **25 ppm** (8-hour time weighted average) and are less than common indoor levels (<4 ppm). This indicates that indoor air quality concerns related to carbon monoxide are unlikely to exist in the areas inspected/tested. Please refer to the attached table (Appendix A) for detailed information on the sample results.

4.5 Airborne Particle Concentration

A mass concentration aerosol monitor was used to determine the air quality by quantifying the concentration of particles in the air. Inhalable airborne particulate matter (PM_{2.5}) is defined by the EPA as fine particulate matter with aerodynamic diameters of 2.5µm or smaller. Ultrafine Particles (particles with aerodynamic diameters less than 1 µm) are the result of combustion by-products or chemical reactions, which can help indicate the presence of a substance or its source. Though there is no standard for airborne ultra-fine particles, it is expected to find lower amounts of particles interior versus exterior, due to the Heating Ventilation and Air Conditioning (HVAC) filtering mechanism.

There are currently no Federal government standards for PM_{2.5} in indoor air environments. However, the Cal-OSHA 8-Hour Time Weighted Average Permissible Exposure Limits for total dust and the respirable fraction of total dust are 10 mg/m³ and 5 mg/m³ respectively.

For all surveyed interior areas of concern, the results of the continuous sampling indicated that average respirable particle concentrations **were lower** than 5 mg/m³ (5,000 µg/m³), indicating an efficient HVAC filtering system. Please refer to the attached table (Appendix B) for detailed information on the sample results.

4.6 Non-Viable Mold Air Sampling

Results for fungal air sampling are reported as spores per cubic meter (spores/m³), per industrial genre is identified. The individual results are then totaled into total spores per cubic meter (spores/m³). To determine if mold proliferation exists, counts of indicator spores are compared to counts present in the outdoor, exterior environments.

A total of thirty-eight (38) mold air samples were obtained during this assessment, including six (6) exterior samples. It was determined that one (1) interior sample had slightly elevated levels of fungal growth. Spore counts presented in blue were spores found in the subject location but were not present in the control sample. Spore counts presented in red are higher than what was found in the control sample(s) and are considered elevated for the area tested.

Following the direct microscopic examination of the air samples obtained, the exterior samples and interior samples with elevated fungal counts are outlined as follows:

<u>Sample Number</u>	<u>Room/Area</u>	<u>Prominent Mold - Genre Level</u> <u>(spores/m³)</u>	<u>Total Mold Spores</u> <u>(spores/m³)</u>
211874-MA-0036	Exterior	Aspergillus/Penicillium - 660 Cladosporium - 1,120 Alternaria - 20 Ascospores - 80 Basidiospores - 140 Periconia, Myxomycetes, Smuts - 40	2,160*
211874-MA-0037	Classroom 4	Aspergillus/Penicillium - 1,080 Cladosporium - 480 Alternaria - 40 Ascospores - 40 Basidiospores - 40 Bipolaris - 40 Periconia, Myxomycetes, Smuts - 80	1,800
211874-MA-0038	Exterior	Aspergillus/Penicillium - 200 Cladosporium - 120 Alternaria - 20 Ascospores - 80 Basidiospores - 80 Bipolaris - 20 Periconia, Myxomycetes, Smuts - 0	1,340*

***Note:** Total mold spore count reflects all genres detected in the exterior sample, including the genres not detected in the interior sample(s) obtained.

These results indicate elevated fungal counts in some interior areas compared to the exterior as noted in the above table. Interior mold air sample are considered elevated if the sample has both:

1. An interior mold genre count 20% greater than exterior levels, and
2. An interior mold genre count greater than 300 spores/m³

Aspergillus

Aspergillus is a common fungus found indoors and outdoors. Most people breathe in *Aspergillus* spores daily without experiencing any health concerns. However, immunocompromised individuals or those with lung diseases are at higher risk for developing health problems due to exposure to high levels of *Aspergillus*.

Penicillium

Penicillium is a commonly detected mold genre found in soil, food, cellulose and grains. Some *Penicillium* species can produce mycotoxins. Prolonged exposure may lead to asthma and allergic reactions in sensitive individuals.

All fungal spore counts detected in the remaining interior samples were lower than the exterior control samples. Please refer to the attached Mold Air Sample Summary table (Appendix C) for detailed information on the sample results.

5.0 CONCLUSIONS

Based on this assessment and analytical data, it is A-Tech Consulting, Inc.'s professional opinion at the time of this assessment that there are two (2) areas of improvement in air quality in the assessed survey site.

Air Temperature

Interior air temperatures **were outside** the American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE) standard recommended comfort ranges in the following areas of concern:

- Classroom 27

Mold

Based on this limited industrial hygiene investigation for fungal activity and analytical results, elevated spores per cubic meter (spores/m³) were present in the following interior area(s) when compared to the exterior:

- Classroom 4

Elevated interior mold levels could have originated from two sources:

- An indoor source such as moisture from high cellulose content material that was a result from water damage, water leaks, condensation, water infiltration, or flooding.
- An outdoor source that was inadvertently brought into the interior by occupants' shoes and clothing, house plants, trash, or method of transference the outdoors to the indoor space.

Based on this assessment and analytical data, it is A-Tech Consulting, Inc.'s professional opinion that at the time of the assessment, all remaining parameters sampled for indoor air quality were below or within acceptable limits. Following are the conclusions for these parameters:

- Relative humidity levels **were within** the recommended American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE) standard recommended range.
- Elevated levels of carbon monoxide **were not** detected by the continuous monitoring instrument utilized during this assessment.
- Carbon dioxide concentrations **were within** the recommended ranges, based on building occupancy.
- Particulate levels monitored indicate concentrations **less than** typical ambient exterior concentrations, and **less than** comparable Environmental Exposure Limits or Occupation Exposure Limits.

6.0 RECOMMENDATIONS

Based on the conditions at the time of the inspection and the analytical results, A-Tech submits the following recommendations for preventing and minimizing indoor air quality problems in the surveyed areas of concern:

1. In the area(s) of concern where indoor air temperature was outside of ASHRAE recommended comfort ranges:
 - a. Ensure that temperature control is in the range of 67-82°F.
 - b. Make repairs to the AC unit in Classroom 27 so that it is operational once more.
2. In the interior area(s) of concern where elevated airborne fungal counts were present when compared to the exterior:
 - a. Perform additional housekeeping of the carpets or flooring, ventilation grills, and other exposed non-porous surfaces, such as shelving, desks, and tables. This could include vacuuming or wiping down any surfaces.
 - b. Perform air-scrubbing with HEPA filtration for 24 hours.
 - c. Remove any potential interior sources of mold such as house plants, trash, or soil.
 - d. After recommendations are completed, perform additional air monitoring of the spaces for mold.

If occupant concerns about indoor air quality persist, then it is recommended to increase the ventilation within the areas of concern. The HVAC systems that service the areas of concern should be regularly maintained and inspected to reduce the risk of air quality concerns. It is also recommended to check the HVAC filters to ensure that they are properly maintained and changed out according to the appropriate preventative maintenance schedule.

7.0 DEFINITIONS

- A) AIHA – The American Industrial Hygiene Association is a non-profit organization that works to provide resources and information to occupational health professionals to better protect worker health.
- B) ASHRAE – The American Society of Heating and Air-Conditioning Engineers is a global professional association seeking to advance heating, ventilation, air conditioning and refrigeration systems design and construction.
- C) Bioaerosols – A general term for particles of biological origins such as microbes, airborne organisms, and/or viable pathogenic aerosols.
- D) Cal-OSHA – The Division of Occupational Safety and Health (DOSH), better known as Cal-OSHA, protects and improves the health and safety of working men and women in California.
- E) EPA – The Environmental Protection Agency is an independent agency of the United States federal government for environmental protection.
- F) HVAC – refers to the different systems such as heating, ventilation and air conditioning which is used for moving air between indoor and exterior areas, along with heating and cooling both residential and commercial buildings.
- G) Indoor Air Quality Pollutants – refers to the air quality within and around building and structures, especially as it relates to the health and comfort of building occupants. Some of the common pollutants are carbon monoxide, formaldehyde, indoor particulate matter, volatile organic compounds, VOCs, radon, and biological contaminants such as dust, mites, and pollen.
- H) Optical Microscopy – Techniques used to magnify images of samples using visible light, often paired with illumination of the sample with polarized and reflected light.

- I) Particulate Matter (PM10 and PM 2.5) – PM10 is particulate matter 10 micrometers or less in diameter, PM 2.5 is particulate matter of 2.5 micrometers or less in diameter.
- J) Relative Humidity – The ratio of the amount of water vapor actually present in the air to the greatest amount possible at the same temperature.
- K) Volatile Organic Compounds (VOCs) – Emitted gasses from certain solids or liquids. VOCs include a variety of chemicals, some which may have short -and long-term adverse health effects.

8.0 LIMITATIONS

Keep in mind, the conclusions presented in this report are professional opinions based solely upon visual observations at the site and direct reading measurements, for the timeframe tested. They are intended exclusively for the purpose outlined herein, and for the site location and project indicated.

This report is intended for the sole use of the contracted client. The use or re-use of this document or the findings, conclusion or recommendations presented herein, by any other party or parties, is at the sole risk of said user.

Recognizing that even the most comprehensive inspection may fail to detect IAQ concerns at a particular site, this study was not intended to identify all potential IAQ pollutants present in the building or at the site for such reasons as (1) the possible existence of buried, covered and inaccessible areas and features; and (2) the limited number and type of samples collected.

No guarantee is expressed or implied that all IAQ concerns have been identified. A-Tech Consulting, Inc. assumes no responsibility for the identification of suspect and potential IAQ pollutants, which are concealed and/or inaccessible (i.e. locked rooms, etc.).

Services performed by A-Tech Consulting, Inc. were performed in a manner consistent with that of the care and skill ordinarily and currently exercised by members of the same profession that even the most comprehensive Scope of Services might fail to detect environmental liabilities on a particular site. Therefore, A-Tech Consulting, Inc. cannot act as insurers and cannot "certify" that a site is free of IAQ pollutant concentrations.

No expressed or implied representation or warranty is included or intended in our reports, except that our services were performed, within the limits prescribed by the scope of services, with the customary thoroughness and competence of our profession.

Information and opinions presented herein apply to the existing and reasonable foreseeable site conditions at the time of our investigation. They cannot necessarily apply to site changes of which this office is unaware and has not had the opportunity to review.

Changes in the conditions of this property may occur with time due to natural processes or works of man on the subject property or on adjacent properties. Changes in applicable standards may also occur as a result of legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.

A-Tech Consulting, Inc. trusts that the information presented herein provides the data you require. Should you have any questions or comments, please contact A-Tech Consulting, Inc.

Respectfully submitted,

A-TECH CONSULTING, INC.

A handwritten signature in black ink, appearing to read "Roosevelt Ward".

Roosevelt Ward, CIH, CSP, QISP

CIH 11208 CP



**Mold Air Sample Summary****Location:** Hodge Elementary School, 700 West 11th Street**Client Name:** Azusa Unified School District

<u>Sample Number</u>	<u>Sample Date & Time</u>	<u>Sample Location</u>	<u>Sample Description</u>	<u>Sampling Time</u>	<u>Liters Per Min</u>	<u>Temp./ Humidity</u>	<u>Prominent Mold - Genre Level (spores/m³)</u>	<u>Total Mold Spores (spores/m³)</u>
211874-MA-0001	7/23/2021 10:15 AM	Classroom 8	Background	5 Min.	15	81.1 °F / 49.8%	Aspergillus/Penicillium - 720 Cladosporium - 440 Alternaria - 40 Basidiospores - 280 Periconia, Myxomycetes, Smuts - 40 Ganoderma - 40	1,560
211874-MA-0002	7/23/2021 11:30 AM	Classroom 13	Background	5 Min.	15	73.7 °F / 42.4%	Aspergillus/Penicillium - 240 Cladosporium - 80 Ascospores - 40 Basidiospores - 40 Periconia, Myxomycetes, Smuts - 40 Ganoderma - 40	480
211874-MA-0003	7/23/2021 12:25 PM	Classroom 10	Background	5 Min.	15	79.1 °F / 42.4%	Aspergillus/Penicillium - 480 Cladosporium - 80 Basidiospores - 40 Periconia, Myxomycetes, Smuts - 240	840
211874-MA-0004	7/23/2021 12:31 PM	Classroom 11	Background	5 Min.	15	78.2 °F / 35.3%	Aspergillus/Penicillium - 240 Alternaria - 40	280
211874-MA-0005	7/23/2021 12:37 PM	Classroom 12	Background	5 Min.	15	76.1 °F / 34.4%	Aspergillus/Penicillium - 320 Cladosporium - 80 Basidiospores - 80 Bipolaris - 40 Ganoderma - 40	560



<u>Sample Number</u>	<u>Sample Date & Time</u>	<u>Sample Location</u>	<u>Sample Description</u>	<u>Sampling Time</u>	<u>Liters Per Min</u>	<u>Temp./ Humidity</u>	<u>Prominent Mold - Genre Level (spores/m³)</u>	<u>Total Mold Spores (spores/m³)</u>
211874-MA-0006	7/23/2021 2:05 PM	Classroom 15	Background	5 Min.	15	74.1 °F / 36.8%	Aspergillus/Penicillium - 280 Cladosporium - 160 Ascospores - 40 Basidiospores - 120 Curvularia - 40 Periconia, Myxomycetes, Smuts - 80	720
211874-MA-0007	7/23/2021 2:17 PM	Classroom 17	Background	5 Min.	15	75.9 °F / 34.1%	Aspergillus/Penicillium - 240 Basidiospores - 40	280
211874-MA-0008	7/23/2021 9:00 AM	Exterior	Ambient	10 Min.	15	72.2 °F / 69.8%	Aspergillus/Penicillium - 1,000 Cladosporium - 440 Ascospores - 480 Basidiospores - 1,280 Bipolaris - 0 Curvularia - 0 Periconia, Myxomycetes, Smuts - 40 Ganoderma - 80	3,340*
211874-MA-0009	7/27/2021 9:23 AM	Classroom 6	Background	5 Min.	15	69.6 °F / 58.0%	Aspergillus/Penicillium - 400 Alternaria - 40 Ascospores - 40 Basidiospores - 240 Bipolaris - 40 Periconia, Myxomycetes, Smuts - 40	800
211874-MA-0010	7/27/2021 9:38 AM	Classroom 16	Background	5 Min.	15	68.5 °F / 54.4%	Aspergillus/Penicillium - 280 Cladosporium - 120 Basidiospores - 120 Periconia, Myxomycetes, Smuts - 40	560

<u>Sample Number</u>	<u>Sample Date & Time</u>	<u>Sample Location</u>	<u>Sample Description</u>	<u>Sampling Time</u>	<u>Liters Per Min</u>	<u>Temp./ Humidity</u>	<u>Prominent Mold - Genre Level (spores/m³)</u>	<u>Total Mold Spores (spores/m³)</u>
211874-MA-0011	7/27/2021 10:13 AM	Classroom 1	Background	5 Min.	15	71.7 °F / 55.7%	Aspergillus/Penicillium - 840 Cladosporium - 320 Alternaria - 40 Ascospores - 80 Basidiospores - 400 Periconia, Myxomycetes, Smuts - 40 Ganoderma - 40	1,760
211874-MA-0012	7/27/2021 10:25 AM	Classroom 3	Background	5 Min.	15	70.0 °F / 53.0%	Aspergillus/Penicillium - 200 Cladosporium - 360 Ascospores - 80 Basidiospores - 160 Periconia, Myxomycetes, Smuts - 80	880
211874-MA-0013	7/27/2021 10:38 AM	Classroom 5	Background	5 Min.	15	70.2 °F / 49.4%	Aspergillus/Penicillium - 160 Cladosporium - 80 Alternaria - 40 Periconia, Myxomycetes, Smuts - 80	360
211874-MA-0014	7/27/2021 10:51 AM	Classroom 4	Background	5 Min.	15	70.8 °F / 49.1%	Aspergillus/Penicillium - 240 Alternaria - 40	280
211874-MA-0015	7/27/2021 10:57 AM	Exterior	Ambient	10 Min.	15	83.0 °F / 58.5%	Aspergillus/Penicillium - 1,180 Cladosporium - 1,500 Alternaria - 40 Ascospores - 180 Basidiospores - 680 Periconia, Myxomycetes, Smuts - 100 Ganoderma - 60	3,800*



<u>Sample Number</u>	<u>Sample Date & Time</u>	<u>Sample Location</u>	<u>Sample Description</u>	<u>Sampling Time</u>	<u>Liters Per Min</u>	<u>Temp./ Humidity</u>	<u>Prominent Mold - Genre Level (spores/m³)</u>	<u>Total Mold Spores (spores/m³)</u>
211874-MA-0016	7/28/2021 7:24 AM	Exterior	Ambient	10 Min.	15	68.6 °F / 75.4%	Aspergillus/Penicillium - 280 Cladosporium - 1,260 Alternaria - 40 Ascospores - 180 Basidiospores - 520 Periconia, Myxomycetes, Smuts - 540 Ganoderma - 100 Epicoccum - 0	2,920*
211874-MA-0017	7/28/2021 7:33 AM	Classroom 2	Background	5 Min.	15	69.8 °F / 51.4%	Aspergillus/Penicillium - 400 Cladosporium - 80 Alternaria - 40 Basidiospores - 200 Periconia, Myxomycetes, Smuts - 160	880
211874-MA-0018	7/28/2021 7:52 AM	Classroom 14	Background	5 Min.	15	68.0 °F / 54.0%	Aspergillus/Penicillium - 640 Cladosporium - 240 Basidiospores - 120 Epicoccum - 40	1,040
211874-MA-0019	7/28/2021 8:07 AM	Classroom 7	Background	5 Min.	15	70.1 °F / 48.8%	Aspergillus/Penicillium - 480 Cladosporium - 40 Basidiospores - 80 Periconia, Myxomycetes, Smuts - 40	640
211874-MA-0020	7/28/2021 8:23 AM	Classroom 9	Background	5 Min.	15	76.9 °F / 60.5%	Aspergillus/Penicillium - 840 Cladosporium - 400 Ascospores - 80 Basidiospores - 160 Epicoccum - 40 Periconia, Myxomycetes, Smuts - 120	1,640



<u>Sample Number</u>	<u>Sample Date & Time</u>	<u>Sample Location</u>	<u>Sample Description</u>	<u>Sampling Time</u>	<u>Liters Per Min</u>	<u>Temp./ Humidity</u>	<u>Prominent Mold - Genre Level (spores/m³)</u>	<u>Total Mold Spores (spores/m³)</u>
211874-MA-0021	7/28/2021 8:34 AM	Classroom 23	Background	5 Min.	15	69.1 °F / 51.7%	Aspergillus/Penicillium - 240 Cladosporium - 40 Basidiospores - 120 Periconia, Myxomycetes, Smuts - 40	440
211874-MA-0022	7/28/2021 8:49 AM	Classroom 25	Background	5 Min.	15	71.8 °F / 57.2%	Aspergillus/Penicillium - 400 Ascospores - 40 Basidiospores - 40 Periconia, Myxomycetes, Smuts - 40	520
211874-MA-0023	7/28/2021 9:08 AM	Classroom 26	Background	5 Min.	15	75.0 °F / 44.1%	Aspergillus/Penicillium - 200 Cladosporium - 120	320
211874-MA-0024	7/28/2021 9:26 AM	Classroom 28	Background	5 Min.	15	80.5 °F / 47.6%	Aspergillus/Penicillium - 760 Cladosporium - 40 Ascospores - 40 Basidiospores - 120	960
211874-MA-0025	7/28/2021 9:38 AM	Computer Lab	Background	5 Min.	15	81.1 °F / 46.8%	Aspergillus/Penicillium - 400 Cladosporium - 80 Basidiospores - 40	520
211874-MA-0026	7/28/2021 9:52 AM	Library	Background	5 Min.	15	75.8 °F / 44.9%	Aspergillus/Penicillium - 200 Cladosporium - 120 Ascospores - 80 Basidiospores - 80 Bipolaris - 40 Periconia, Myxomycetes, Smuts - 40	560
211874-MA-0027	7/28/2021 10:33 AM	Classroom 29	Background	5 Min.	15	76.4 °F / 57.8%	Aspergillus/Penicillium - 480 Cladosporium - 160 Basidiospores - 40 Periconia, Myxomycetes, Smuts - 40	720
211874-MA-0028	7/28/2021 10:44 AM	Classroom 22	Background	5 Min.	15	74.2 °F / 54.0%	Aspergillus/Penicillium - 200 Basidiospores - 40	240

<u>Sample Number</u>	<u>Sample Date & Time</u>	<u>Sample Location</u>	<u>Sample Description</u>	<u>Sampling Time</u>	<u>Liters Per Min</u>	<u>Temp./ Humidity</u>	<u>Prominent Mold - Genre Level (spores/m³)</u>	<u>Total Mold Spores (spores/m³)</u>
211874-MA-0029	7/28/2021 10:56 AM	Classroom 21	Background	5 Min.	15	74.0 °F / 50.3%	Aspergillus/Penicillium - 280 Cladosporium - 200 Ascospores - 40 <i>Epicoccum</i> - 40	560
211874-MA-0030	7/28/2021 11:17 AM	Classroom 20	Background	5 Min.	15	75.8 °F / 51.3%	Aspergillus/Penicillium - 280 Cladosporium - 120 Ascospores - 40	440
211874-MA-0031	7/28/2021 12:50 PM	Classroom 19	Background	5 Min.	15	72.4 °F / 41.2%	Aspergillus/Penicillium - 120 Alternaria - 40 Ascospores - 40 Periconia, Myxomycetes, Smuts - 40	240
211874-MA-0032	7/28/2021 1:53 PM	Classroom 18	Background	5 Min.	15	69.9 °F / 45.8%	Aspergillus/Penicillium - 480 Cladosporium - 800 Basidiospores - 120	1,400
211874-MA-0033	7/28/2021 2:04 PM	Classroom 24	Background	5 Min.	15	74.4 °F / 44.1%	Aspergillus/Penicillium - 360 Cladosporium - 40 Periconia, Myxomycetes, Smuts - 80	480
211874-MA-0034	7/28/2021 2:21 PM	Classroom 27	Background	5 Min.	15	84.9 °F / 42.5%	Aspergillus/Penicillium - 360 Cladosporium - 400 Periconia, Myxomycetes, Smuts - 40	800
211874-MA-0035	7/28/2021 2:27 PM	Exterior	Ambient	10 Min.	15	92.4 °F / 26.6%	Aspergillus/Penicillium - 800 Cladosporium - 1,440 Alternaria - 60 Ascospores - 80 Basidiospores - 20 Periconia, Myxomycetes, Smuts - 60	2,480*



<u>Sample Number</u>	<u>Sample Date & Time</u>	<u>Sample Location</u>	<u>Sample Description</u>	<u>Sampling Time</u>	<u>Liters Per Min</u>	<u>Temp./ Humidity</u>	<u>Prominent Mold - Genre Level (spores/m³)</u>	<u>Total Mold Spores (spores/m³)</u>
211874-MA-0036	8/9/2021 9:54 AM	Exterior	Ambient	10 Min.	15	75.7 °F / 57.6%	Aspergillus/Penicillium - 660 Cladosporium - 1,120 Alternaria - 20 Ascospores - 80 Basidiospores - 140 Periconia, Myxomycetes, Smuts - 40	2,160*
211874-MA-0037	8/9/2021 10:21 AM	Classroom 4	Background	5 Min.	15	72.5 °F / 51.8%	Aspergillus/Penicillium -1,080 Cladosporium - 480 Alternaria - 40 Ascospores - 40 Basidiospores - 40 Bipolaris - 40 Periconia, Myxomycetes, Smuts - 80	1,800
211874-MA-0038	8/9/2021 10:28 AM	Exterior	Ambient	10 Min.	15	77.6 °F / 54.6%	Aspergillus/Penicillium - 200 Cladosporium - 120 Alternaria - 20 Ascospores - 80 Basidiospores - 80 Bipolaris - 20 Periconia, Myxomycetes, Smuts - 0	1,340*

*Note: Total mold spore count reflects all genres detected in the exterior sample, including the genres not detected in the interior sample obtained.

LEGEND:

(1) P = Present, NP = Not Present

(2) **RED** = Elevated Spore Concentrations of Specific Genres

(3) **BLUE** = Genre Found Inside at Low Levels but not found Outside

(4) N/A = Not Applicable

Continuous Air Temperature, Humidity, Carbon Dioxide and Carbon Monoxide Monitoring Measurements (TSI 7545 IAQCalc)

Client Name: Azusa Unified School District

A-Tech Project Number: 211874

Location: Hodge Elementary School, 700 West 11th Street

					<u>CO2 Concentration (ppm)</u>			<u>CO Concentration (ppm)</u>		<u>Temperature (°F)</u>			<u>Humidity (%)</u>		
<u>Sample Number</u>	<u>Start Time</u>	<u>End Time</u>	<u>Duration (min)</u>	<u>Sample Location</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>	<u>Max.</u>	<u>Average</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>
211874-I-0001	10:20 AM	10:30 AM	10	Classroom 8	559	1.0	540	0.0	1.0	73.2	75.7	75.4	41.8	41.8	41.6
211874-I-0002	11:30 AM	11:40 AM	10	Classroom 13	495	1.0	516	0.0	1.0	72.6	74.2	72.8	44.3	44.5	44.9
211874-I-0003	12:32 PM	12:42 PM	10	Classroom 10	450	1.0	473	0.0	1.0	77.2	78.6	77.6	42.2	42.3	42.2
211874-I-0004	12:43 PM	12:53 PM	10	Classroom 11	444	1.0	452	0.0	1.0	75.8	76.8	75.8	43.3	43.3	43.3
211874-I-0005	1:00 PM	1:10 PM	10	Classroom 12	441	1.0	451	0.0	1.0	73.7	75.5	74.5	44.5	44.6	44.5



					<u>CO2 Concentration (ppm)</u>			<u>CO Concentration (ppm)</u>		<u>Temperature (°F)</u>			<u>Humidity (%)</u>		
<u>Sample Number</u>	<u>Start Time</u>	<u>End Time</u>	<u>Duration (min)</u>	<u>Sample Location</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>	<u>Max.</u>	<u>Average</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>
211874-I-0006	2:18 PM	2:28 PM	10	Classroom 15	448	1.0	467	0.0	1.0	73.8	78.7	74.4	42.7	43.1	42.7
211874-I-0007	2:31 PM	2:41 PM	10	Classroom 17	440	1.0	453	0.0	1.0	74.6	73.1	72.2	42.9	43.0	43.0
211874-I-0008	9:00 AM	9:10 AM	10	Exterior	418	0.0	427	0.0	0.0	71.5	72.7	72.2	67.6	71.3	69.8
211874-I-0009	9:23 AM	9:33 AM	10	Classroom 6	442	0.0	455	0.0	0.0	67.7	71.9	69.6	51.7	58.2	56.1
211874-I-0010	9:38 AM	9:48 AM	10	Classroom 16	479	0.0	500	0.0	0.0	68.1	71.9	70.5	53.3	55.3	54.2
211874-I-0011	10:13 AM	10:23 AM	10	Classroom 1	518	0.0	543	0.0	0.0	70.8	74.0	71.9	54.9	58.1	56.4
211874-I-0012	10:25 AM	10:35 AM	10	Classroom 3	454	0.0	467	0.0	0.0	69.3	71.2	70.1	51.5	61.7	56.8



					<u>CO2 Concentration (ppm)</u>			<u>CO Concentration (ppm)</u>		<u>Temperature (°F)</u>			<u>Humidity (%)</u>		
<u>Sample Number</u>	<u>Start Time</u>	<u>End Time</u>	<u>Duration (min)</u>	<u>Sample Location</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>	<u>Max.</u>	<u>Average</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>
211874-I-0013	10:38 PM	10:48 PM	10	Classroom 5	918	0.0	933	0.0	0.0	69.1	74.4	71.0	48.4	54.5	51.7
211874-I-0014	10:49 AM	11:00 AM	10	Classroom 4	631	0.0	642	0.0	0.0	70.3	71.4	71.0	45.7	55.0	49.1
211874-I-0015	11:00 AM	11:10 AM	10	Exterior	405	0.3	437	0.0	0.0	74.5	88.3	84.5	44.4	72.8	53.0
211874-I-0016	7:24 AM	7:34 AM	10	Exterior	433	0.0	437	0.0	0.0	68.1	69.6	68.6	69.9	78.8	76.2
211874-I-0017	7:35 AM	7:45 AM	10	Classroom 2	433	0.0	449	0.0	0.0	69.0	70.9	70.1	49.7	55.5	51.2
211874-I-0018	7:51 AM	8:01 AM	10	Classroom 14	433	0.0	455	0.0	0.0	64.7	69.3	67.3	48.1	58.1	53.6
211874-I-0019	8:05 AM	8:15 AM	10	Classroom 7	431	0.0	445	0.0	0.0	69.4	71.5	70.5	46.7	49.2	48.2



					<u>CO2 Concentration (ppm)</u>			<u>CO Concentration (ppm)</u>		<u>Temperature (°F)</u>			<u>Humidity (%)</u>		
<u>Sample Number</u>	<u>Start Time</u>	<u>End Time</u>	<u>Duration (min)</u>	<u>Sample Location</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>	<u>Max.</u>	<u>Average</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>
211874-I-0020	8:22 AM	8:32 AM	10	Classroom 9	445	0.0	477	0.0	0.0	75.5	78.6	77.5	57.3	65.1	59.3
211874-I-0021	8:34 AM	8:44 AM	10	Classroom 23	433	0.0	452	0.0	0.0	68.6	73.3	70.1	46.6	60.6	53.7
211874-I-0022	8:48 AM	9:03 AM	15	Classroom 25	446	0.0	467	0.0	0.0	70.5	73.1	71.6	54.1	59.7	56.8
211874-I-0023	9:08 AM	9:18 AM	10	Classroom 26	443	0.0	455	0.0	0.0	74.9	77.2	76.3	41.6	46.7	43.3
211874-I-0024	9:26 AM	9:36 AM	10	Classroom 28	468	0.0	481	0.0	0.0	79.4	81.3	80.4	46.5	50.6	47.9
211874-I-0025	9:38 AM	9:50 AM	12	Computer Lab	451	0.0	455	0.0	0.0	80.8	81.1	80.9	46.4	46.9	46.7
211874-I-0026	10:00 AM	10:15 AM	15	Library	445	0.0	455	0.0	0.0	76.9	79	77.9	43.9	45	44.2



					<u>CO2 Concentration (ppm)</u>			<u>CO Concentration (ppm)</u>		<u>Temperature (°F)</u>			<u>Humidity (%)</u>		
<u>Sample Number</u>	<u>Start Time</u>	<u>End Time</u>	<u>Duration (min)</u>	<u>Sample Location</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>	<u>Max.</u>	<u>Average</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>
211874-I-0027	10:33 AM	10:43 AM	10	Classroom 29	428	0.2	448	0.0	0.0	75.3	84.1	78.3	43.8	53.0	50.2
211874-I-0028	10:44 AM	10:54 AM	10	Classroom 22	419	0.0	434	0.0	0.0	73.2	78.8	75.7	48.4	57.4	51.6
211874-I-0029	10:56 AM	11:08 AM	12	Classroom 21	426	0.0	439	0.0	0.0	73.8	76.4	74.6	44.7	50.6	49.1
211874-I-0030	11:20 AM	11:30 AM	10	Classroom 20	437	0.6	445	0.0	0.0	78.1	80.9	79.7	48.2	49.9	48.8
211874-I-0031	1:40 PM	1:50 PM	10	Classroom 19	479	0.0	490	0.0	0.0	71.5	73.4	72.3	40.8	42.0	41.4
211874-I-0032	1:52 PM	2:02 PM	10	Classroom 18	414	0.0	433	0.0	0.0	68.3	74.2	69.6	40.0	51.1	47.7
211874-I-0033	2:04 PM	2:14 PM	10	Classroom 24	452	0.0	460	0.0	0.0	72.2	78.2	73.9	42.9	50.9	47.9



					<u>CO2 Concentration (ppm)</u>			<u>CO Concentration (ppm)</u>		<u>Temperature (°F)</u>			<u>Humidity (%)</u>		
<u>Sample Number</u>	<u>Start Time</u>	<u>End Time</u>	<u>Duration (min)</u>	<u>Sample Location</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>	<u>Max.</u>	<u>Average</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>	<u>Min.</u>	<u>Max.</u>	<u>Average</u>
211874-I-0034	2:20 PM	2:30 PM	10	Classroom 27	394	0.0	430	0.0	0.0	82.6	87.7	84.7	39.3	48.9	43.1
211874-I-0035	2:30 PM	2:40 PM	10	Exterior	376	0.0	392	0.0	0.0	88.7	94.7	93.1	22.5	34.2	25.3

Legend:

N/A = Not Applicable



Continuous Aerosol Monitoring Measurements (ThermoScientific pDR1500)

Client Name: Azusa Unified School District

A-Tech Project Number: 211874

Location: Hodge Elementary School, 700 West 11th Street

					<u>Aerosol Concentration ($\mu\text{g}/\text{m}^3$)</u>	
<u>Sample Number</u>	<u>Start Time</u>	<u>End Time</u>	<u>Duration (min)</u>	<u>Sample Location</u>	<u>Max.</u>	<u>Average</u>
211874-P-0001	10:20 AM	10:30 AM	10	Classroom 8	36.81	35.08
211874-P-0002	11:35 AM	11:45 AM	10	Classroom 13	16.44	14.58
211874-P-0003	12:32 PM	12:42 PM	10	Classroom 10	19.07	17.23
211874-P-0004	12:43 PM	12:53 PM	10	Classroom 11	16.64	14.39
211874-P-0005	1:00 PM	1:10 PM	10	Classroom 12	18.37	15.47
211874-P-0006	2:18 PM	2:28 PM	10	Classroom 15	16.73	14.75
211874-P-0007	2:31 PM	2:41 PM	10	Classroom 17	13.92	12.69
211874-P-0008	9:00 AM	9:10 AM	10	Exterior	66.44	62.54
211874-P-0009	9:23 AM	9:33 AM	10	Classroom 6	23.67	20.50
211874-P-0010	10:00 AM	10:10 AM	10	Classroom 16	28.91	27.3



					<u>Aerosol Concentration ($\mu\text{g}/\text{m}^3$)</u>	
<u>Sample Number</u>	<u>Start Time</u>	<u>End Time</u>	<u>Duration (min)</u>	<u>Sample Location</u>	<u>Max.</u>	<u>Average</u>
211874-P-0011	10:13 AM	10:23 AM	10	Classroom 1	51.94	33.52
211874-P-0012	10:25 AM	10:35 AM	10	Classroom 3	38.25	31.21
211874-P-0013	10:38 AM	10:48 AM	10	Classroom 5	13.22	9.94
211874-P-0014	10:49 AM	11:00 AM	11	Classroom 4	15.65	12.49
211874-P-0015	11:00 AM	11:10 AM	10	Exterior	66.22	58.06
211874-P-0016	7:24 AM	7:34 AM	10	Exterior	25.07	22.31
211874-P-0017	7:35 AM	7:45 AM	10	Classroom 2	5.96	4.18
211874-P-0018	7:51 AM	8:01 AM	10	Classroom 14	11.31	10.03
211874-P-0019	8:05 AM	8:15 AM	10	Classroom 7	3.66	2.57
211874-P-0020	8:22 AM	8:32 AM	10	Classroom 9	18.04	11.84
211874-P-0021	8:34 AM	8:44 AM	10	Classroom 23	11.42	9.94
211874-P-0022	8:48 AM	9:03 AM	15	Classroom 25	9.81	8.74

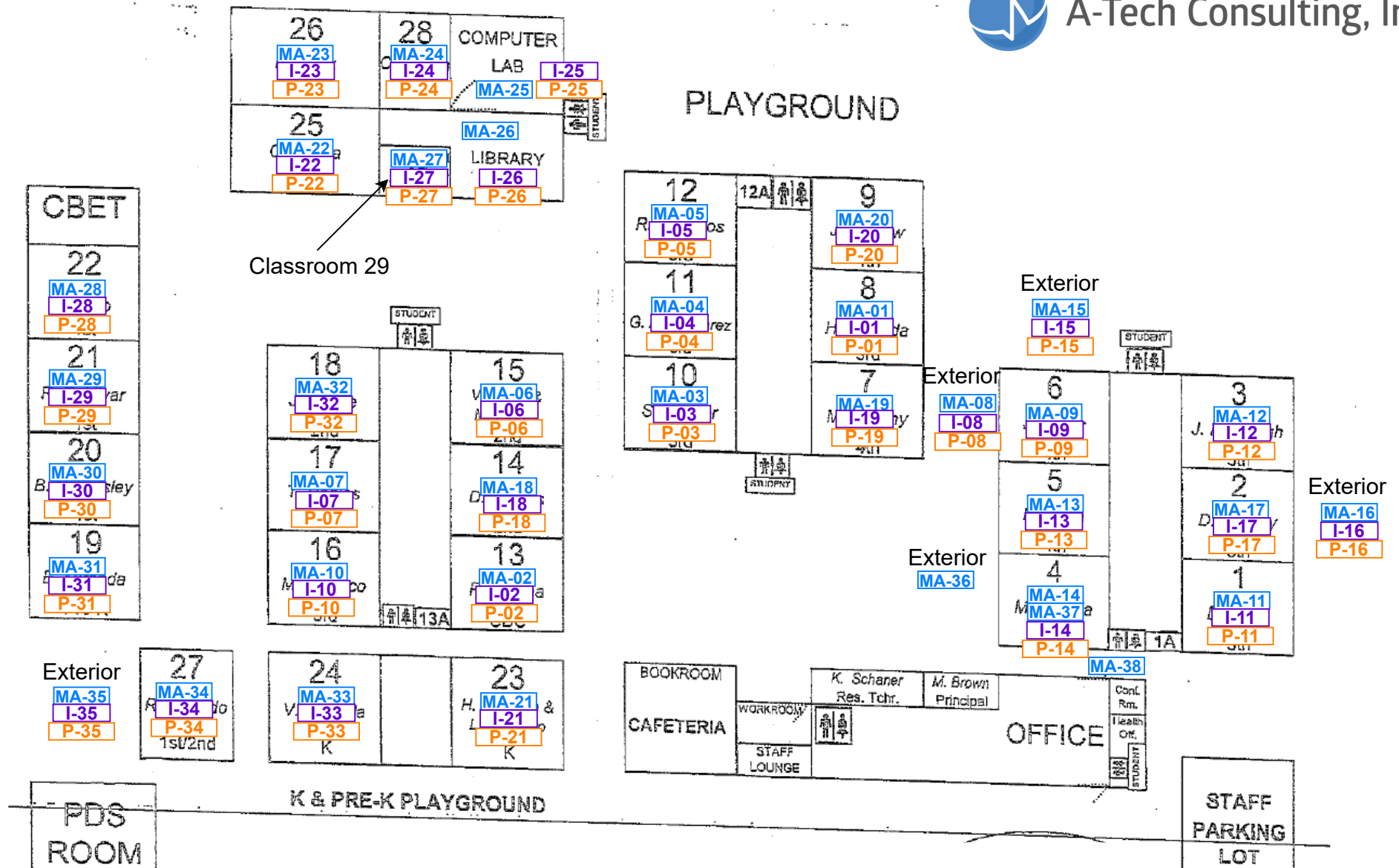


					<u>Aerosol Concentration ($\mu\text{g}/\text{m}^3$)</u>	
<u>Sample Number</u>	<u>Start Time</u>	<u>End Time</u>	<u>Duration (min)</u>	<u>Sample Location</u>	<u>Max.</u>	<u>Average</u>
211874-P-0023	9:08 AM	9:18 AM	10	Classroom 26	4.86	4.17
211874-P-0024	9:26 AM	9:36 AM	10	Classroom 28	7.92	6.87
211874-P-0025	9:38 AM	9:50 AM	12	Computer Lab	6.47	5.62
211874-P-0026	10:00 AM	10:15 AM	15	Library	6.72	5.94
211874-P-0027	10:33 AM	10:43 AM	10	Classroom 29	5.09	4.32
211874-P-0028	10:44 AM	10:54 AM	10	Classroom 22	7.55	6.72
211874-P-0029	10:56 AM	11:08 AM	12	Classroom 21	8.42	7.18
211874-P-0030	11:20 AM	11:30 AM	10	Classroom 20	6.79	5.41
211874-P-0031	12:50 PM	1:03 PM	13	Classroom 19	5.03	4.04
211874-P-0032	1:52 PM	2:02 PM	10	Classroom 18	0.0	0.0
211874-P-0033	2:04 PM	2:14 PM	10	Classroom 24	8.44	7.53
211874-P-0034	2:20 PM	2:30 PM	10	Classroom 27	9.84	8.84

					<u>Aerosol Concentration ($\mu\text{g}/\text{m}^3$)</u>	
<u>Sample Number</u>	<u>Start Time</u>	<u>End Time</u>	<u>Duration (min)</u>	<u>Sample Location</u>	<u>Max.</u>	<u>Average</u>
211874-P-0035	2:30 PM	2:40 PM	10	Exterior	11.19	10.2

Legend:

N/A = Not Applicable



Site Drawing - Indoor Air Quality - Page 1 of 1

Hodge Elementary School
 700 West 11th Street
 Azusa, California 91702

Project #: Atch-211874

Azusa Unified School District



Digital Photographs - IAQ

Locations: Hodge Elementary School, 700 West 11th Street

Client Name: Azusa Unified School District



View of Room 4



View of Room 4



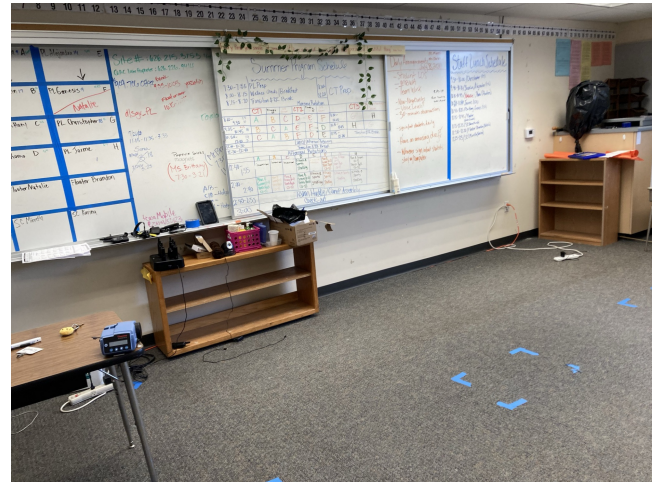
View of Room 6



View of Room 7



View of Room 18



View of Room 18



View of Room 23



View of Room 27



Exterior Sampling



Exterior Sampling



Exterior Sampling



View of Exterior Sample



MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

Phone: (562) 860-2201

www.aihlab.com

Client Name: A-Tech Consulting Inc	Report Status: Final Report
Client Address: 1640 N. Batavia Street, Orange, CA 92867	AIHA EMPAT#: 203769
Project Number: 211874	Lab Batch Number: 2112055
Project Location: 700 West 11th Street, Azusa, CA 91702	Samples Received: 13
	Samples Analyzed: 13

Laboratory Sample ID:	211205501	211205502	211205503
Client Sample ID:	MA-0001	MA-0002	MA-0003
Sample Location:	1st Floor, Classroom 8	1st Floor, Classroom 13	1st Floor, Classroom 10
Comments:	<i>None</i>	<i>None</i>	<i>None</i>

Quantitative Analysis

		Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total
Inside/Outside	Aspergillus/Penicillium-like	18	720	46.2	6	240	50	12	480	57.1
	Cladosporium	11	440	28.2	2	80	16.7	2	80	9.5
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	1	40	2.6	-	-	-	-	-	-
	Ascospores	-	-	-	1	40	8.3	-	-	-
	Basidiospores	7	280	17.9	1	40	8.3	1	40	4.8
	Bipolaris	-	-	-	-	-	-	-	-	-
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	-	-	-	-	-	-	-	-	-
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	1	40	2.6	1	40	8.3	6	240	28.6
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	-	-	-	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	-	-	-
	Ganoderma	1	40	2.6	1	40	8.3	-	-	-
Total		39	1560	100	12	480	100	21	840	100



MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

Phone: (562) 860-2201

www.aihlab.com

Client Name: A-Tech Consulting Inc

Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

Laboratory Sample ID:	211205501	211205502	211205503
Client Sample ID:	MA-0001	MA-0002	MA-0003
Sample Location:	1st Floor, Classroom 8	1st Floor, Classroom 13	1st Floor, Classroom 10

Sample Collection Data

Total Time:			
Flow Rate:			
Volume:	75	75	75

Qualitative Analysis

Skin Fragments- 1 to 5 (low to high):	2	2	2
Background/m3- 1 to 5 (low to high):	4	3	3
Hyphal Fragments- 1 to 5 (low to high):	1	1	1





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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

Laboratory Sample ID:	211205504	211205505	211205506
Client Sample ID:	MA-0004	MA-0005	MA-0006
Sample Location:	1st Floor, Classroom 11	1st Floor, Classroom 12	1st Floor, Classroom 15
Comments:	<i>None</i>	<i>None</i>	<i>None</i>

Quantitative Analysis

		Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total
Inside/Outside	Aspergillus/Penicillium-like	6	240	85.7	8	320	57.1	7	280	38.9
	Cladosporium	-	-	-	2	80	14.3	4	160	22.2
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	1	40	14.3	-	-	-	-	-	-
	Ascospores	-	-	-	-	-	-	1	40	5.6
	Basidiospores	-	-	-	2	80	14.3	3	120	16.7
	Bipolaris	-	-	-	1	40	7.1	-	-	-
	Curvularia	-	-	-	-	-	-	1	40	5.6
	Epicoccum	-	-	-	-	-	-	-	-	-
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	-	-	-	-	-	-	2	80	11.1
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	-	-	-	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	-	-	-
	Ganoderma	-	-	-	1	40	7.1	-	-	-
Total		7	280	100	14	560	100	18	720	100



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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

Laboratory Sample ID:	211205504	211205505	211205506
Client Sample ID:	MA-0004	MA-0005	MA-0006
Sample Location:	1st Floor, Classroom 11	1st Floor, Classroom 12	1st Floor, Classroom 15

Sample Collection Data

Total Time:			
Flow Rate:			
Volume:	75	75	75

Qualitative Analysis

Skin Fragments- 1 to 5 (low to high):	1	2	2
Background/m3- 1 to 5 (low to high):	2	3	4
Hyphal Fragments- 1 to 5 (low to high):	1	1	1





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Client Name: A-Tech Consulting Inc	Report Status: Final Report
Client Address: 1640 N. Batavia Street, Orange, CA 92867	AIHA EMPAT#: 203769
Project Number: 211874	Lab Batch Number: 2112055
Project Location: 700 West 11th Street, Azusa, CA 91702	Samples Received: 13
	Samples Analyzed: 13

Laboratory Sample ID:	211205507	211205508	211205509
Client Sample ID:	MA-0007	MA-0008	MA-0009
Sample Location:	1st Floor, Classroom 17	Exterior	1st Floor, Classroom 6
Comments:	<i>None</i>	<i>None</i>	<i>None</i>

Quantitative Analysis

		Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total
Inside/Outside	Aspergillus/Penicillium-like	6	240	85.7	50	1000	29.9	10	400	50
	Cladosporium	-	-	-	22	440	13.2	-	-	-
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	-	-	-	-	-	-	1	40	5
	Ascospores	-	-	-	24	480	14.4	1	40	5
	Basidiospores	1	40	14.3	64	1280	38.3	6	240	30
	Bipolaris	-	-	-	-	-	-	1	40	5
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	-	-	-	1	20	0.6	-	-	-
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	-	-	-	2	40	1.2	1	40	5
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	-	-	-	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	-	-	-
	Ganoderma	-	-	-	4	80	2.4	-	-	-
Total		7	280	100	167	3340	100	20	800	100



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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

Laboratory Sample ID:	211205507	211205508	211205509
Client Sample ID:	MA-0007	MA-0008	MA-0009
Sample Location:	1st Floor, Classroom 17	Exterior	1st Floor, Classroom 6

Sample Collection Data

Total Time:			
Flow Rate:			
Volume:	75	150	75

Qualitative Analysis

Skin Fragments- 1 to 5 (low to high):	1	1	2
Background/m3- 1 to 5 (low to high):	2	5	3
Hyphal Fragments- 1 to 5 (low to high):	1	1	1





MOLD AIR SAMPLE REPORT

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Phone: (562) 860-2201

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Client Name: A-Tech Consulting Inc	Report Status: Final Report
Client Address: 1640 N. Batavia Street, Orange, CA 92867	AIHA EMPAT#: 203769
Project Number: 211874	Lab Batch Number: 2112055
Project Location: 700 West 11th Street, Azusa, CA 91702	Samples Received: 13
	Samples Analyzed: 13

Laboratory Sample ID:	211205510	211205511	211205512
Client Sample ID:	MA-0010	MA-0011	MA-0012
Sample Location:	1st Floor, Classroom 16	1st Floor, Classroom 1	1st Floor, Classroom 3
Comments:	<i>None</i>	<i>None</i>	<i>None</i>

Quantitative Analysis

		Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total
Inside/Outside	Aspergillus/Penicillium-like	7	280	50	21	840	47.7	5	200	22.7
	Cladosporium	3	120	21.4	8	320	18.2	9	360	40.9
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	-	-	-	1	40	2.3	-	-	-
	Ascospores	-	-	-	2	80	4.5	2	80	9.1
	Basidiospores	3	120	21.4	10	400	22.7	4	160	18.2
	Bipolaris	-	-	-	-	-	-	-	-	-
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	-	-	-	-	-	-	-	-	-
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	1	40	7.1	1	40	2.3	2	80	9.1
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	-	-	-	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	-	-	-
	Ganoderma	-	-	-	1	40	2.3	-	-	-
Total		14	560	100	44	1760	100	22	880	100



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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

Laboratory Sample ID:	211205510	211205511	211205512
Client Sample ID:	MA-0010	MA-0011	MA-0012
Sample Location:	1st Floor, Classroom 16	1st Floor, Classroom 1	1st Floor, Classroom 3

Sample Collection Data

Total Time:			
Flow Rate:			
Volume:	75	75	75

Qualitative Analysis

Skin Fragments- 1 to 5 (low to high):	1	3	1
Background/m3- 1 to 5 (low to high):	3	4	3
Hyphal Fragments- 1 to 5 (low to high):	1	2	1





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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

Laboratory Sample ID:	211205513	XXXXXXXXXX	XXXXXXXXXX
Client Sample ID:	MA-0013	XXXXXXXXXX	XXXXXXXXXX
Sample Location:	1st Floor, Classroom 5	XXXXXXXXXX	XXXXXXXXXX
Comments:	None		

Quantitative Analysis

		Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total
Inside/Outside	Aspergillus/Penicillium-like	4	160	44.4						
	Cladosporium	2	80	22.2						
Water Damage Indication	Chaetomium	-	-	-						
	Stachybotrys	-	-	-						
	Trichoderma	-	-	-						
	Ulocladium	-	-	-						
Outdoor Environment	Alternaria	1	40	11.1						
	Ascospores	-	-	-						
	Basidiospores	-	-	-						
	Bipolaris	-	-	-						
	Curvularia	-	-	-						
	Epicoccum	-	-	-						
	Nigrospora	-	-	-						
	Periconia/Myxo/Smut	2	80	22.2						
	Pithomyces	-	-	-						
	Rust	-	-	-						
	Spegazzinia	-	-	-						
	Tetraploa	-	-	-						
	Torula	-	-	-						
	Miscellaneous Spores	-	-	-						
	Ganoderma	-	-	-						
Total		9	360	100						



MOLD AIR SAMPLE REPORT

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

Laboratory Sample ID:	211205513	XXXXXXXX	XXXXXXXX
Client Sample ID:	MA-0013	XXXXXXXX	XXXXXXXX
Sample Location:	1st Floor, Classroom 5	XXXXXXXX	XXXXXXXX

Sample Collection Data

Total Time:		
Flow Rate:		
Volume:	75	

Qualitative Analysis

Skin Fragments- 1 to 5 (low to high):	2	
Background/m3- 1 to 5 (low to high):	3	
Hyphal Fragments- 1 to 5 (low to high):	1	

Analyzed by: Emily Chang

Signature: 

Date: 07-30-2021

Reviewed by: Zubair Ahmed

Signature: 

Date: 08-02-2021

No accepted regulatory standards currently exist by which to assess the health risks related to mold exposure. Molds have been associated with a variety of health effects and sensitivity varies from person to person. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. High levels of background particulate can obscure spores and other particulates leading to underestimation. "-" Denotes not detected. Background levels of 4 or 5 indicate an overload of background particulates, prohibiting accurate detection and quantification. AIH Laboratory maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by AIH Laboratory. AIH Laboratory bears no responsibility for sample collection activities or analytical method limitations. Spores/m³ calculation based on volume information provided by client. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. All report format and design are copyright of AIH Laboratory 2021.

AIHA LAP, LLC Accredited Laboratory for Microbiology Laboratory ISO/IEC 17025:2005, Lab ID# 203769



MOLD AIR SAMPLE REPORT

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Client Name: A-Tech Consulting Inc

Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

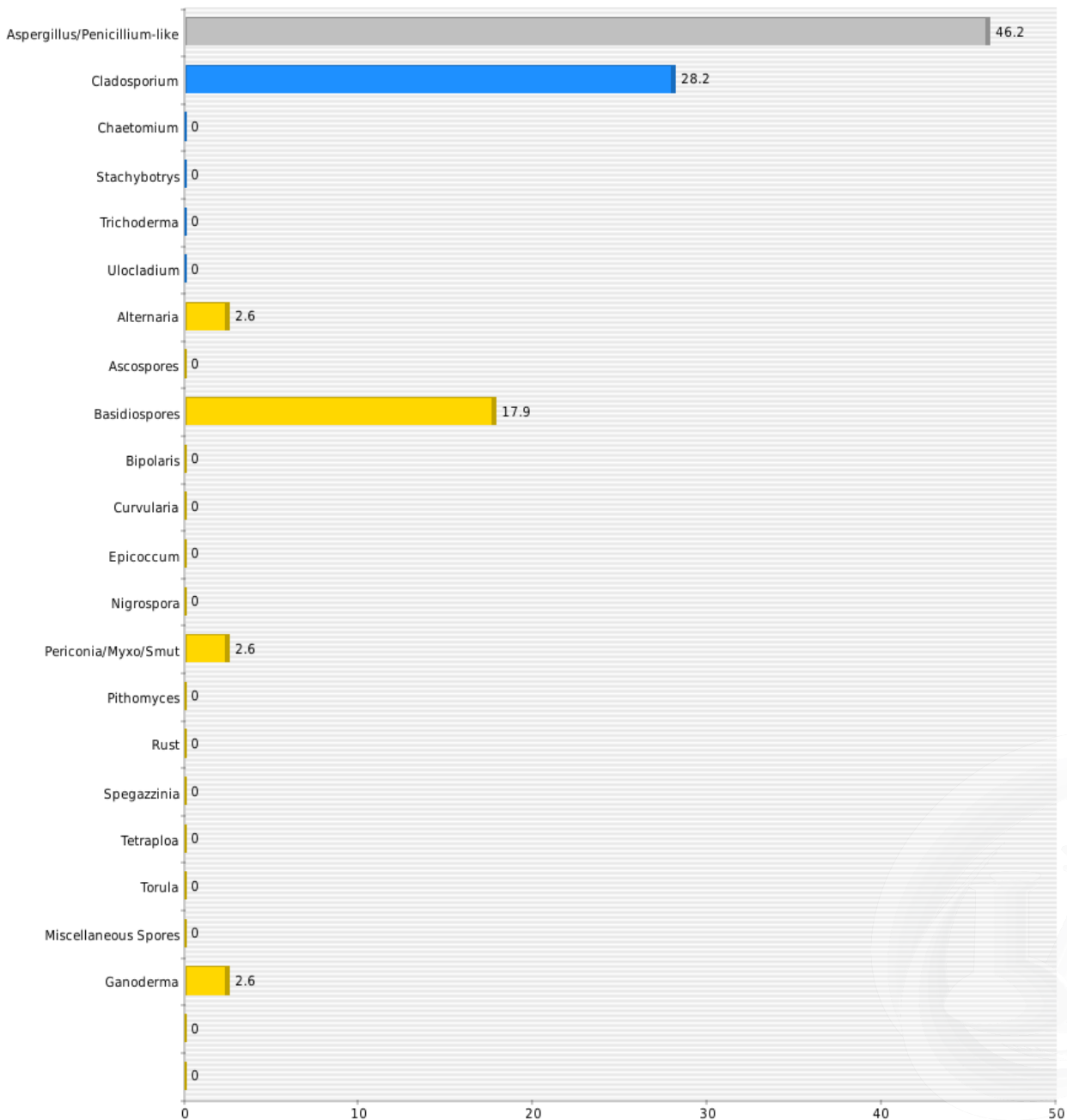
AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

1st Floor, Classroom 8 (Spore Percentage)





MOLD AIR SAMPLE REPORT

Phone: (562) 860-2201
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2556 W Woodland Dr Anaheim, CA 92801

Client Name: A-Tech Consulting Inc

Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

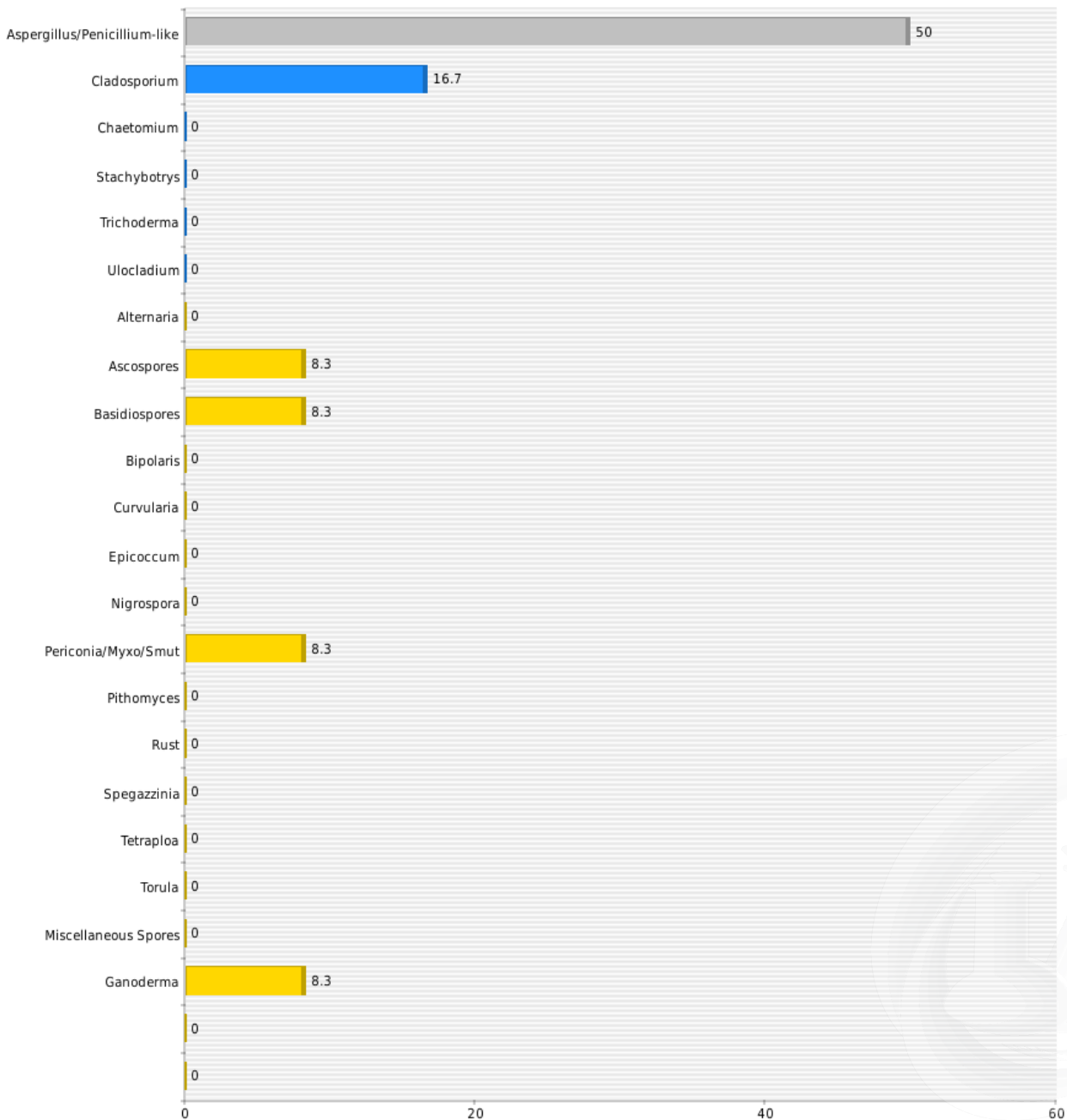
AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

1st Floor, Classroom 13 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

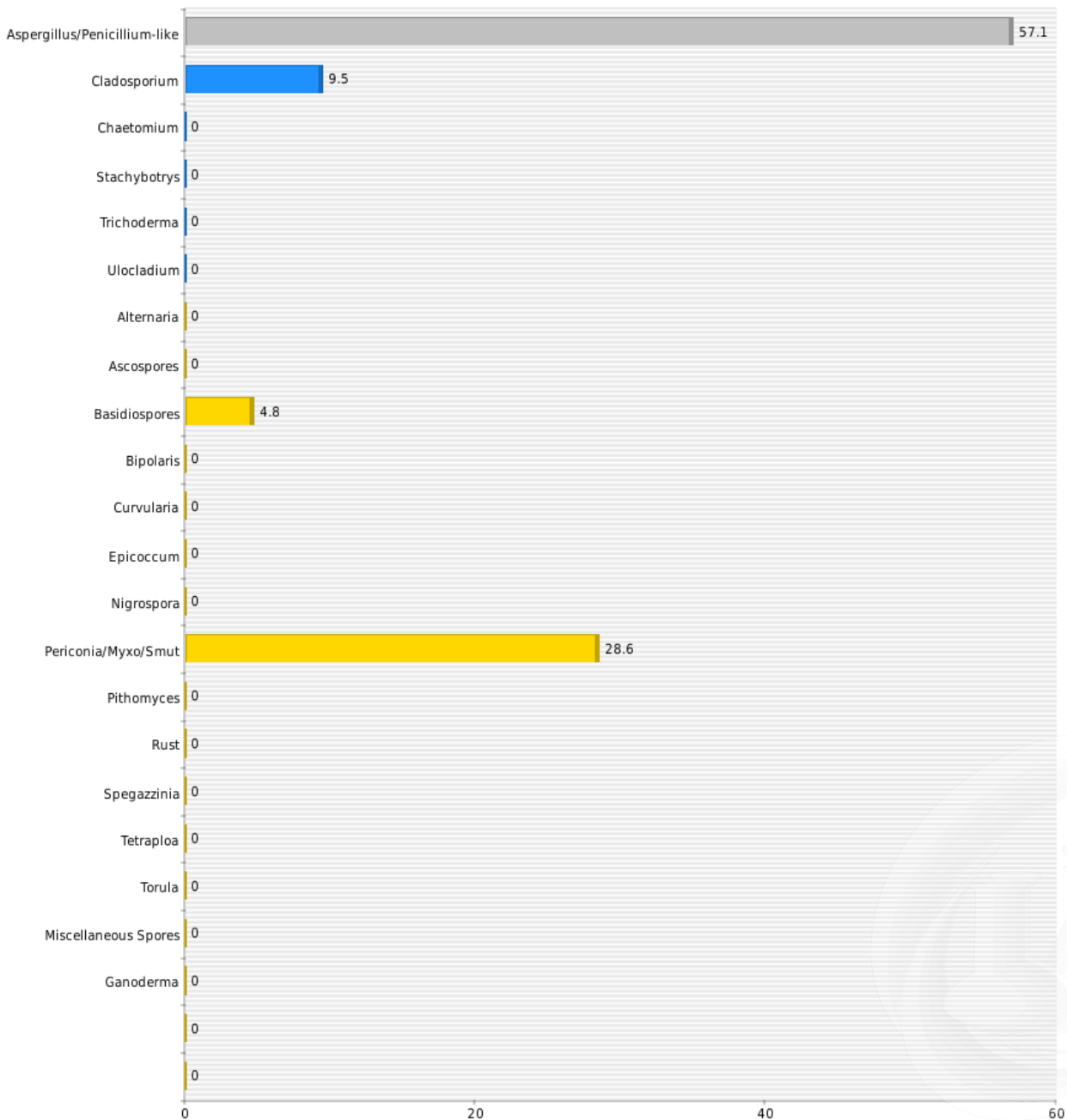
AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

1st Floor, Classroom 10 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

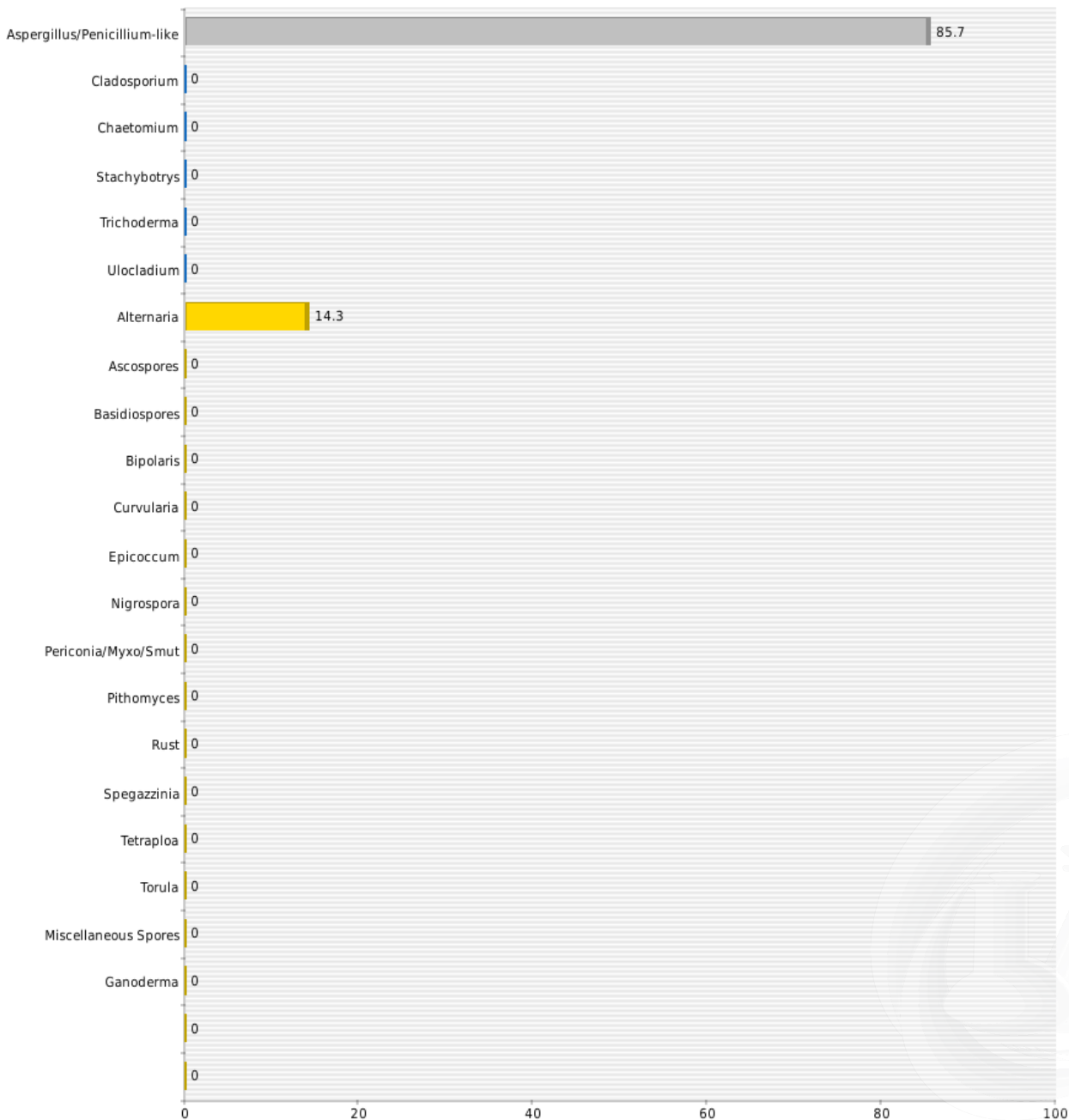
AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

1st Floor, Classroom 11 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Name: A-Tech Consulting Inc

Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

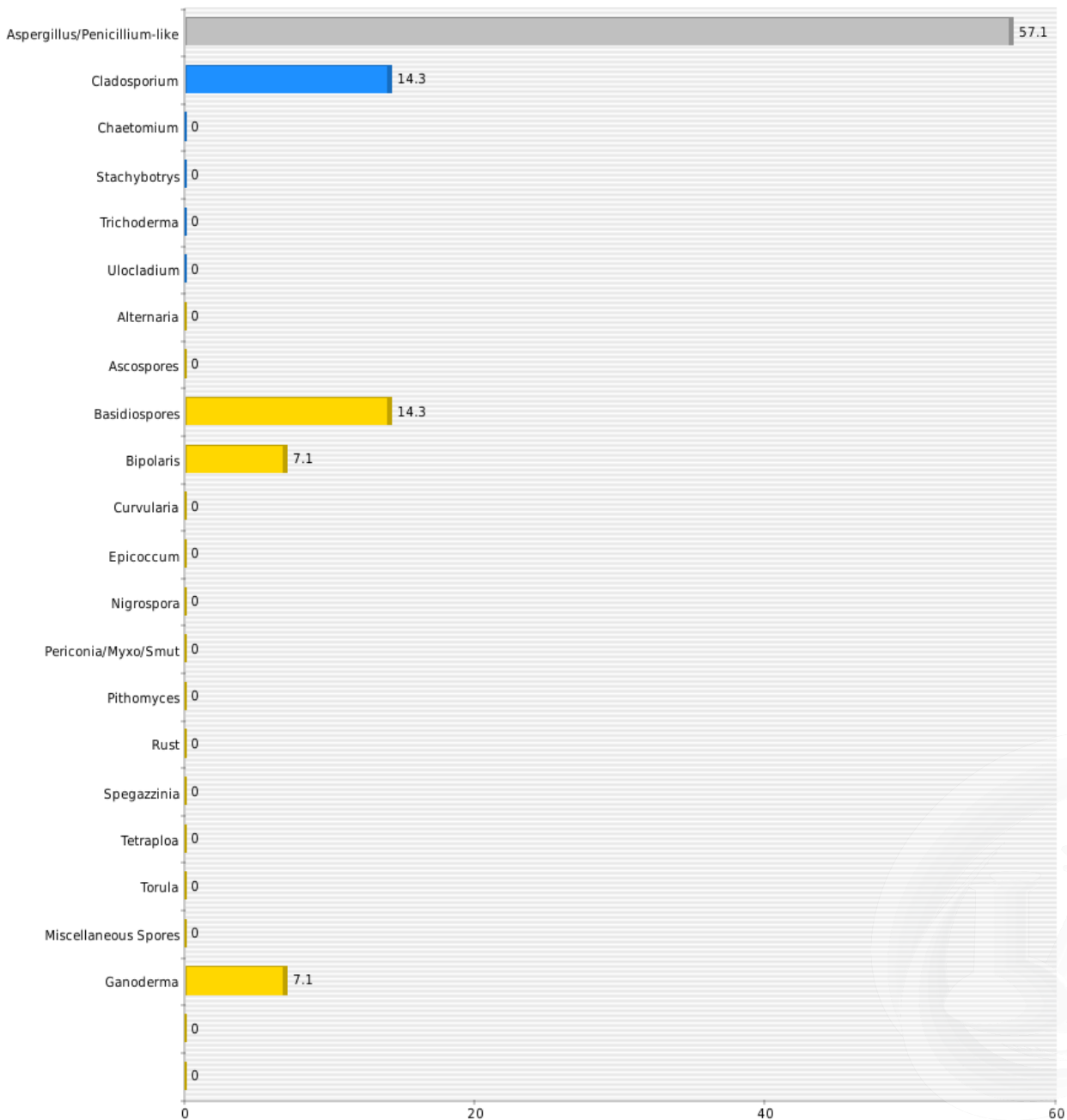
AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

1st Floor, Classroom 12 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

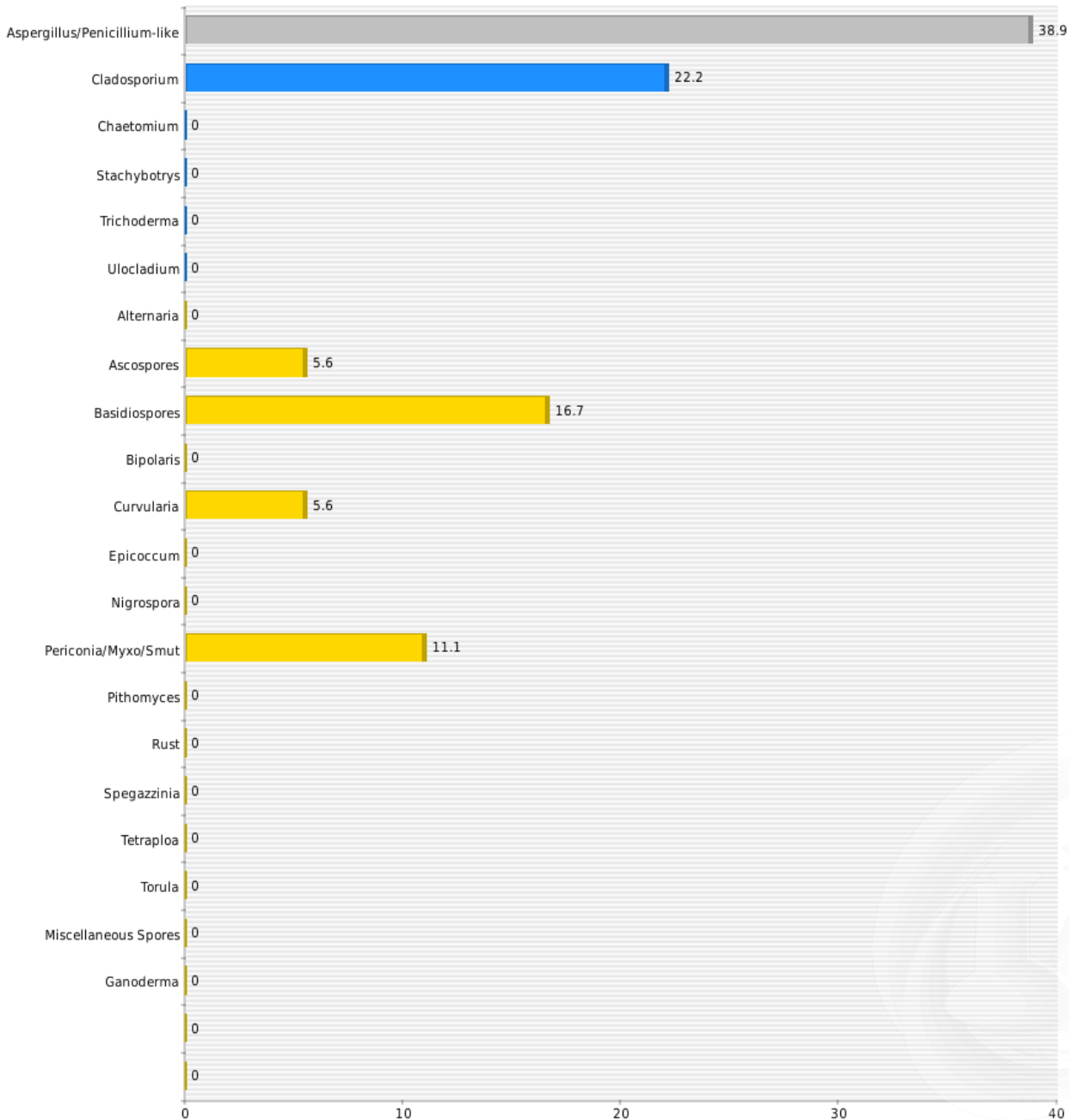
AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

1st Floor, Classroom 15 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

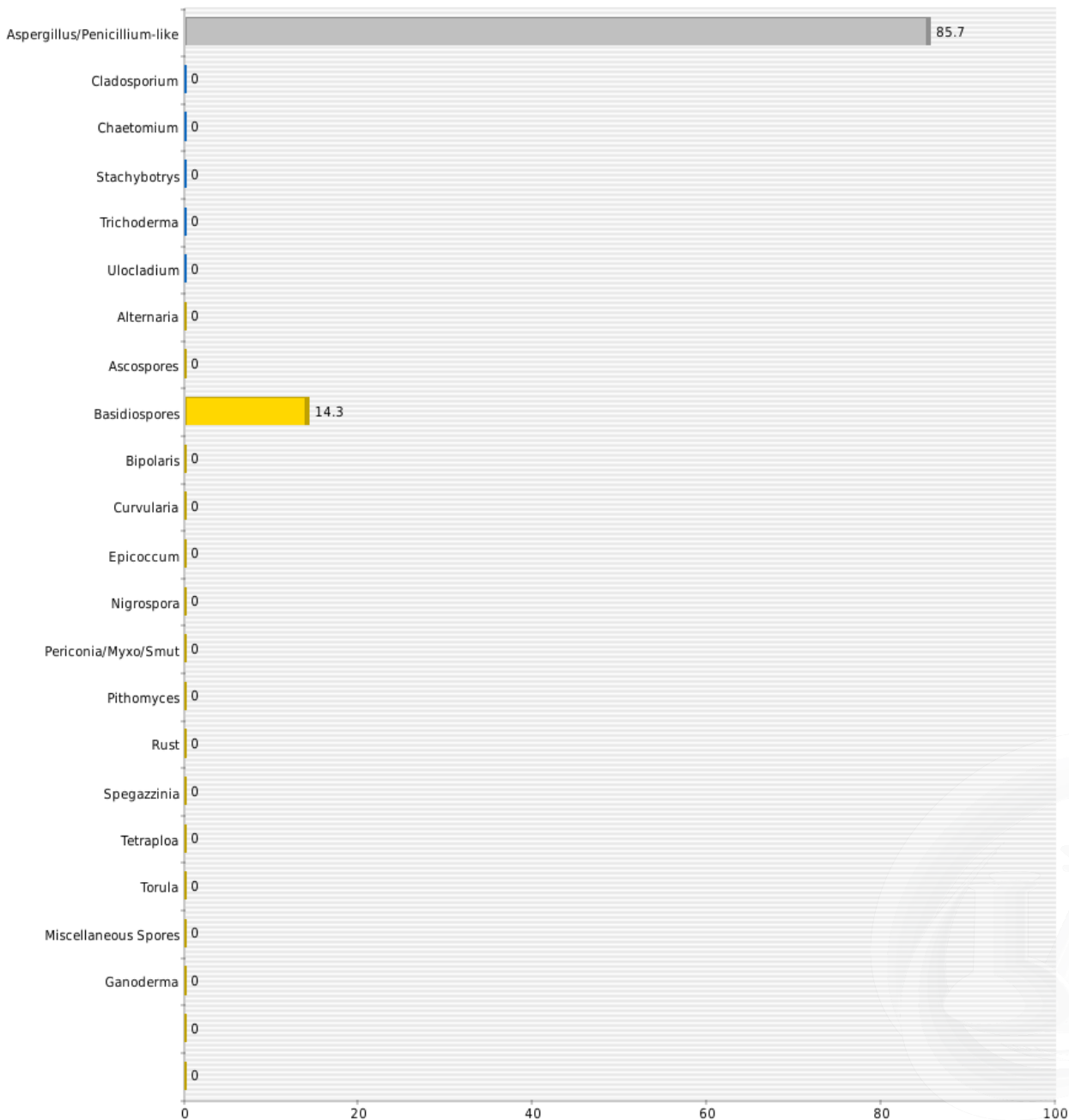
AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

1st Floor, Classroom 17 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Name: A-Tech Consulting Inc

Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

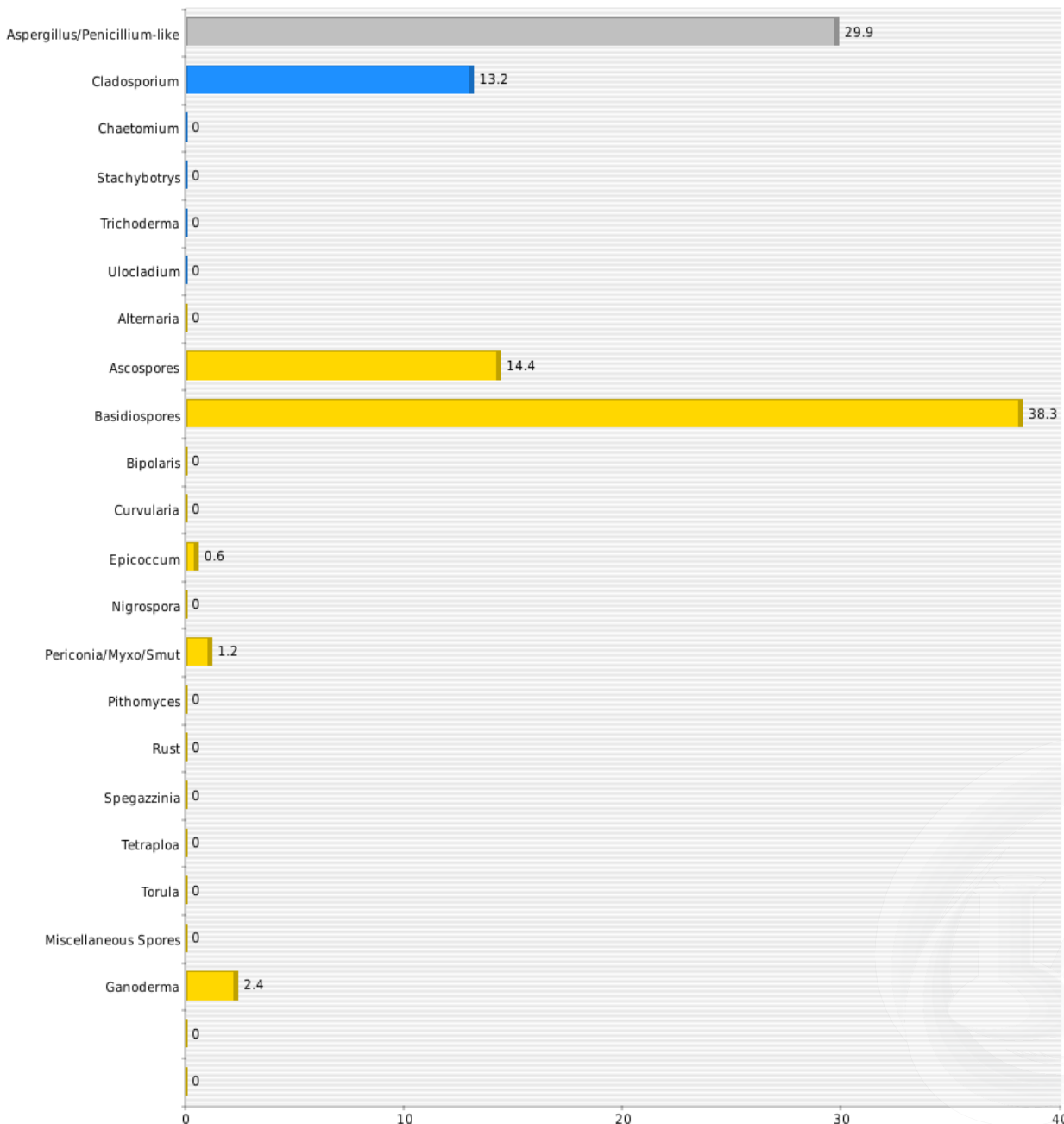
AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

Exterior (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

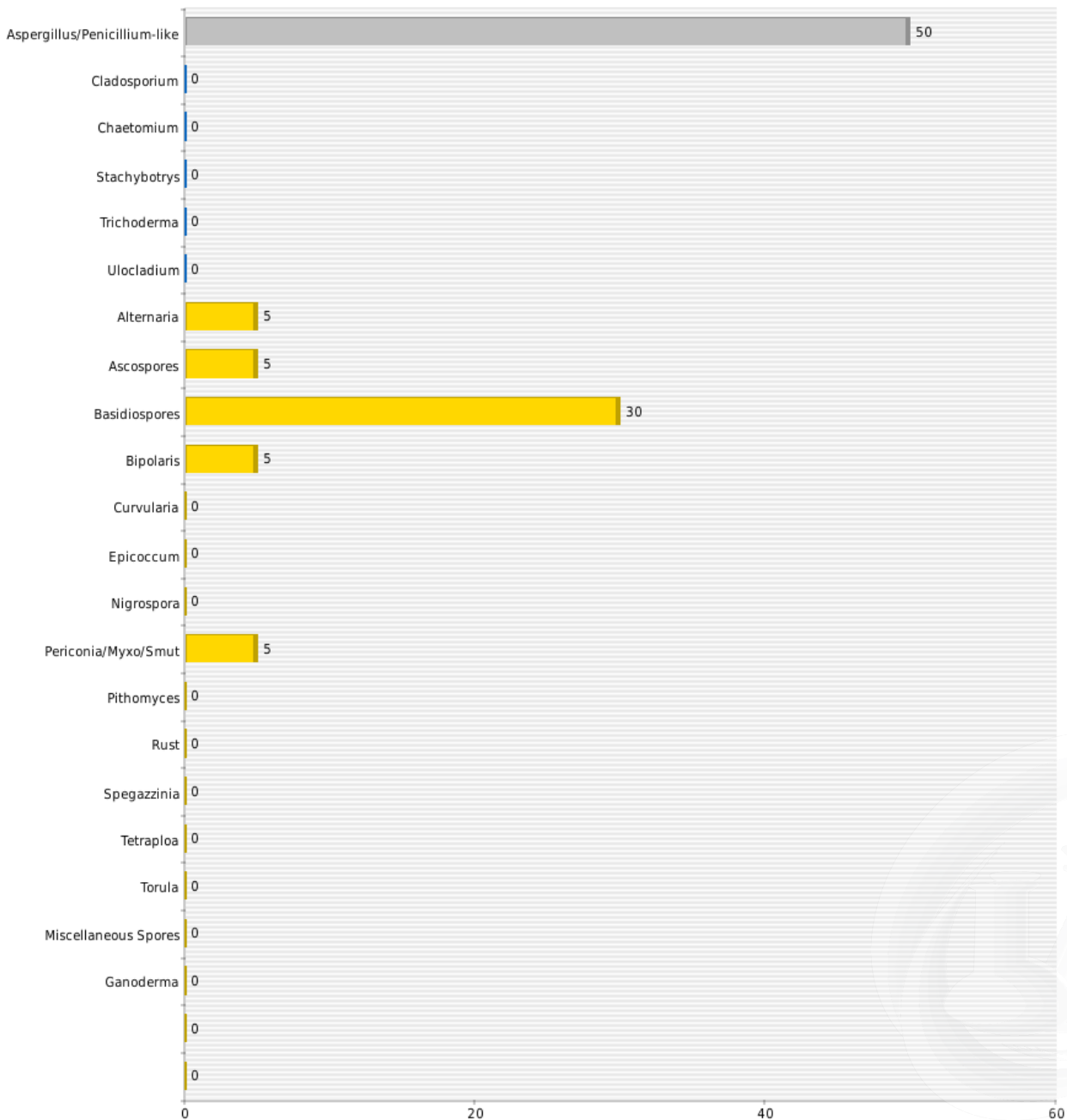
AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

1st Floor, Classroom 6 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

Phone: (562) 860-2201

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Client Name: A-Tech Consulting Inc

Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

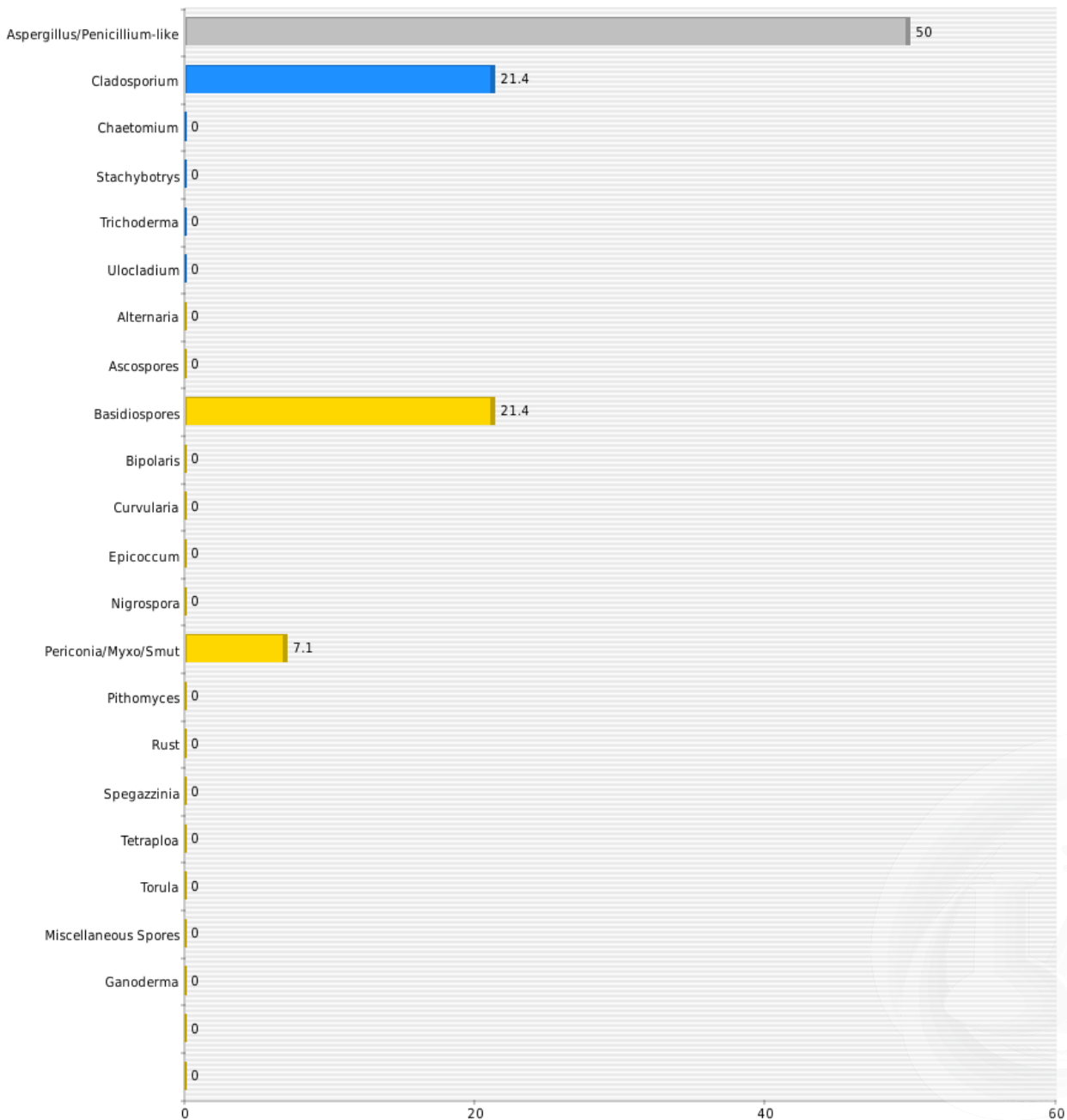
AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

1st Floor, Classroom 16 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Name: A-Tech Consulting Inc

Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

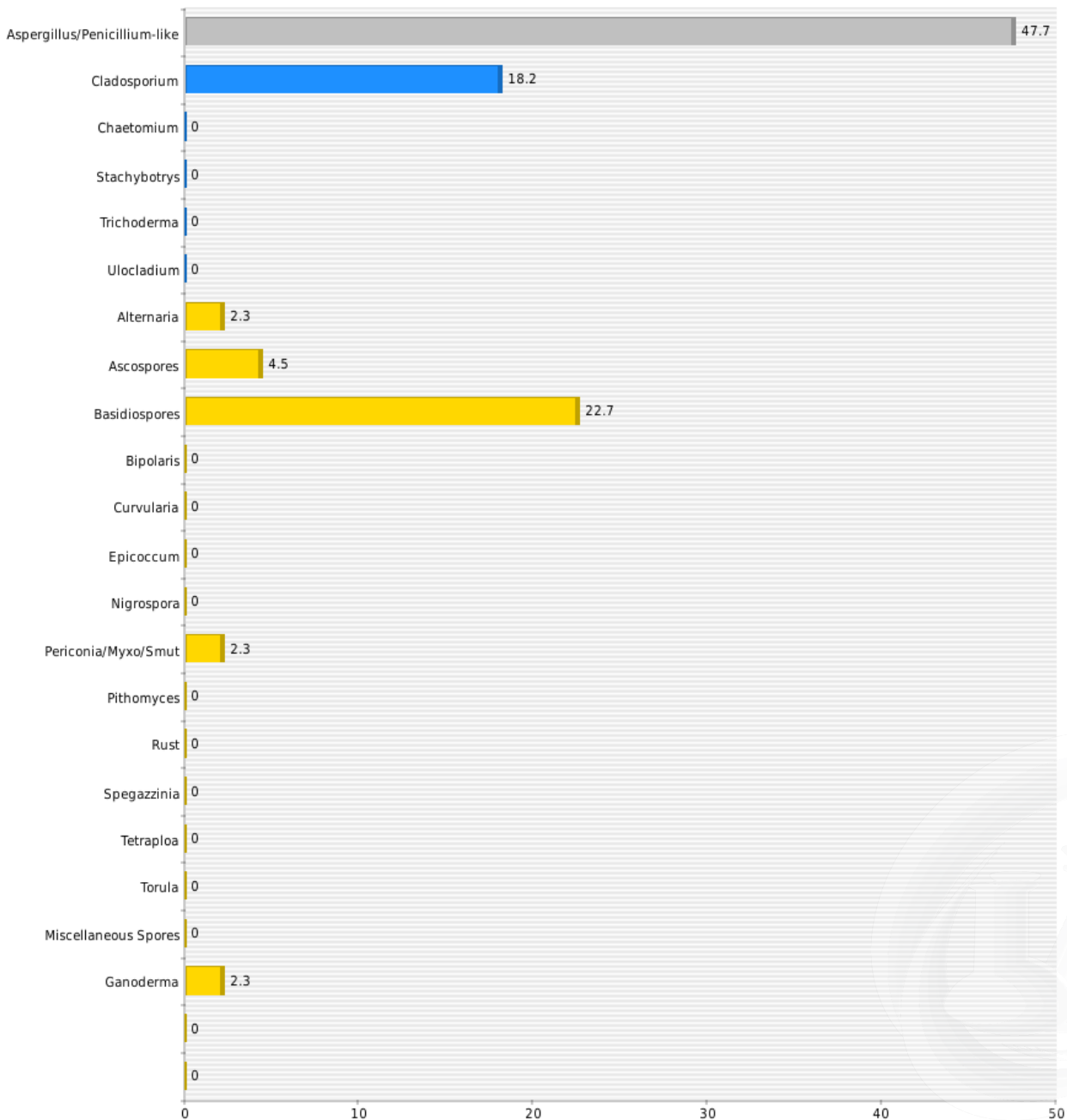
AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

1st Floor, Classroom 1 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

Phone: (562) 860-2201

www.aihlab.com

Client Name: A-Tech Consulting Inc

Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

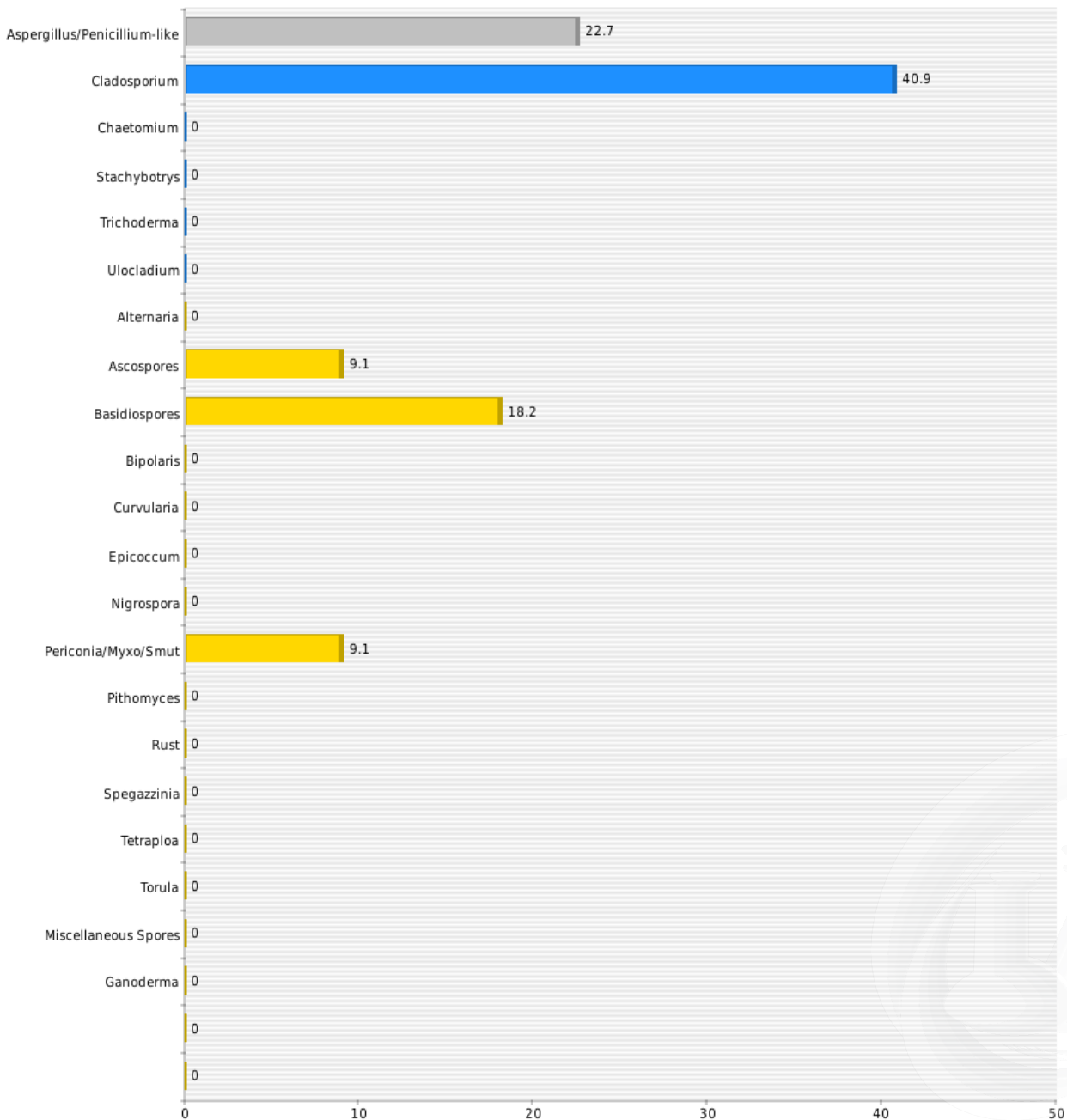
AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

1st Floor, Classroom 3 (Spore Percentage)





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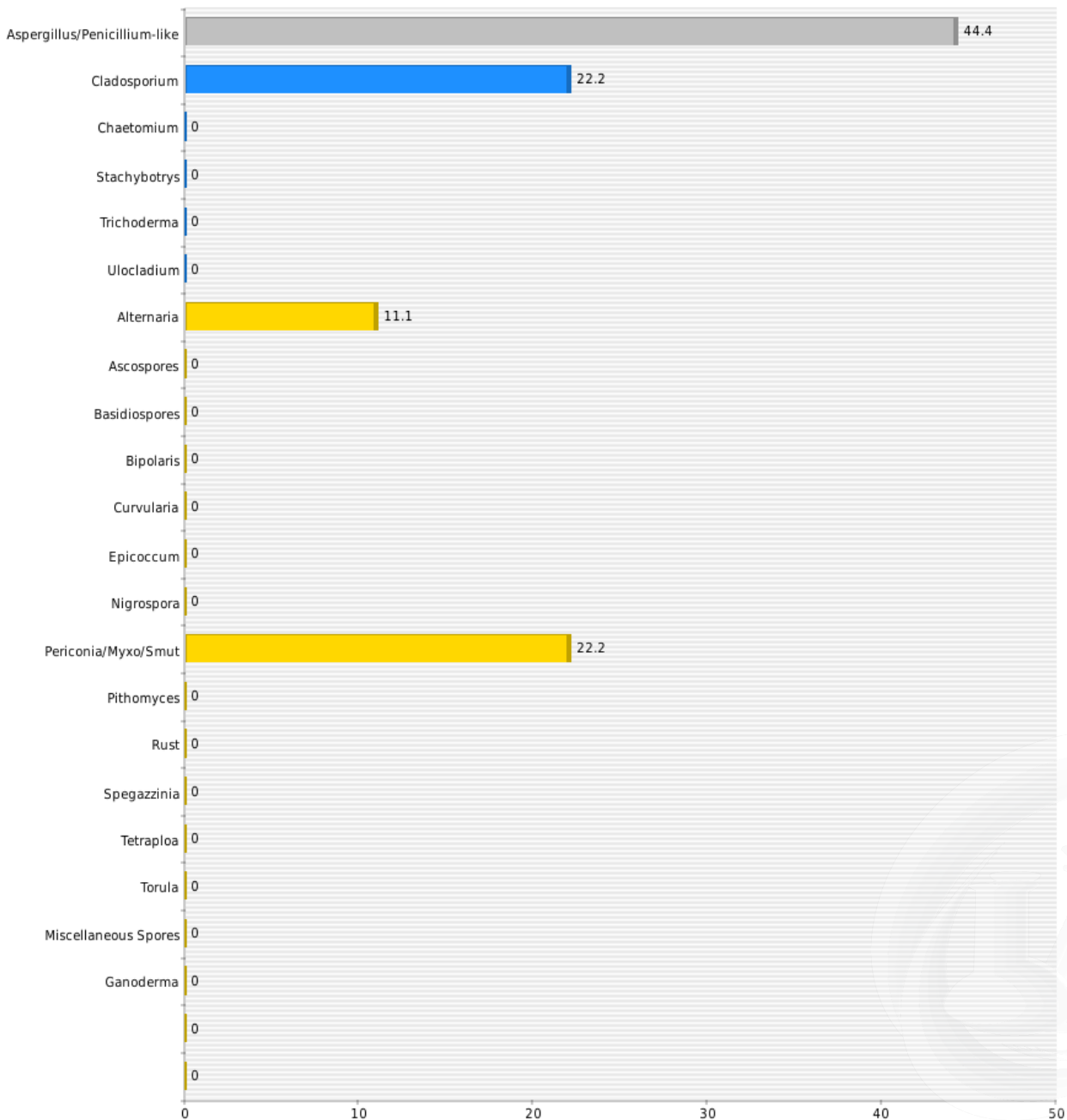
AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

1st Floor, Classroom 5 (Spore Percentage)





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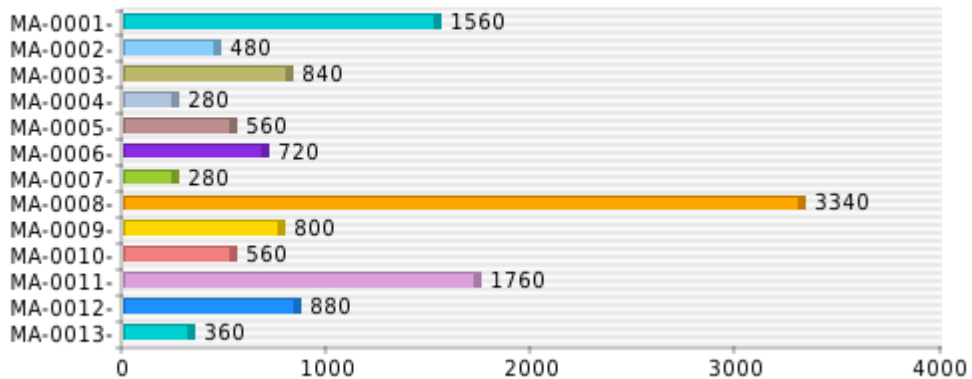
AIHA EMPAT#: 203769

Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

Spore Per Meter Cube





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Lab Batch Number: 2112055

Samples Received: 13

Samples Analyzed: 13

Understanding Sampling and Laboratory Methodologies

Spore Trap Cassettes (Air Sampling media) are unique air sampling cassettes specifically designed for the rapid collection of a wide range of airborne aerosols including mold spores, pollen, insect parts, skin cell fragments, and inorganic particulate. The analytical results obtained from include both viable and non-viable spores. Some fungal groups produce similar spore types that are difficult to be distinguished only by direct microscopic examination like *Aspergillus/Penicillium*, or other identical spore. Similarly other spore types may lack distinguishing features that aid in their identification like hyphae. To avoid any confusion these types are grouped into larger categories such as Ascospores or Basidiospores.

Examination Technique:

AIH Laboratory Fungal Air Sample Reports data results are provided in spore counts per cubic meter of air. Fungal spores are identified and grouped by morphological characteristics including color, shape, size, and fruiting structures (if present) which are compared to published mycological identification keys and texts.

Qualitative Analysis:

It is difficult to precisely measure some analytical findings which aid in assessing the overall sample condition and density. Qualitative analysis is used to determine concentration of Skin Fragments, Background and Hyphal fragments. A number between 1-5 is used to rate the concentrations. Each number increase in rate adds a range of 1-20% Please understand that higher the number of skin fragments and background particle it may obscure small spore. Overloaded in comments indicate that sample failed to meet visibility density criteria and thus the quantitative analysis was not performed on the particular sample.

Analysis:

This data is gathered by visual and statistical analysis performed on the specimen. The quantitative data is adhered to strict quality control procedures. This strict quality is achieved by reanalyzing at least 10% of samples. The results from original analysis and re-read must be close with only minor variation. If results do not fall under minor variation criteria, then all samples must be analyzed again. The quantitative data is used to produce the final result in spore(s) per meter cube.

About AIH Laboratory

AIH Laboratory is renowned laboratory located in Anaheim, CA. The staff at AIH Laboratory is recognized by State, Federal agencies and International Accrediting Bodies. AIH Laboratory employs sophisticated techniques, strong professional experience along with recognized testing procedures in the industry. AIH Laboratory participates in Inter-laboratory testing program with various national laboratories to ensure conformance with newly adapted technologies, research and methodologies. The samples received by AIH Laboratory are processed under strict quality control procedures to avoid any discrepancy in results. The data generated by the laboratory from the analytical observation of the specimens is presented in a format that is easily understood by anyone with a science background. An environmental expert will accurately interpret the data and findings detailed in this report.



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Client Name: A-Tech Consulting Inc	Report Status: Final Report
Client Address: 1640 N. Batavia Street, Orange, CA 92867	AIHA EMPAT#: 203769
Project Number: 211874	Lab Batch Number: 2112058
Project Location: 700 West 11th Street, Azusa, CA 91702	Samples Received: 22
	Samples Analyzed: 21

Laboratory Sample ID:	211205801	211205802	211205803
Client Sample ID:	MA-0014	MA-0015	MA-0016
Sample Location:	1st Floor, Classroom 4	Exterior	Exterior
Comments:	<i>Sample not submitted</i>	<i>None</i>	<i>None</i>

Quantitative Analysis

		Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total
Inside/Outside	Aspergillus/Penicillium-like	-	-	-	59	1180	31.1	14	280	9.6
	Cladosporium	-	-	-	75	1500	39.5	63	1260	43.2
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	-	-	-	2	40	1.1	2	40	1.4
	Ascospores	-	-	-	9	180	4.7	9	180	6.2
	Basidiospores	-	-	-	34	680	17.9	26	520	17.8
	Bipolaris	-	-	-	3	60	1.6	-	-	-
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	-	-	-	-	-	-	-	-	-
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	-	-	-	5	100	2.6	27	540	18.5
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	-	-	-	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	-	-	-
	Ganoderma	-	-	-	3	60	1.6	5	100	3.4
Total		0	0	0	190	3800	100	146	2920	100



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Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

Laboratory Sample ID:	211205801	211205802	211205803
Client Sample ID:	MA-0014	MA-0015	MA-0016
Sample Location:	1st Floor, Classroom 4	Exterior	Exterior

Sample Collection Data

Total Time:			
Flow Rate:			
Volume:		150	150

Qualitative Analysis

Skin Fragments- 1 to 5 (low to high):		2	2
Background/m3- 1 to 5 (low to high):		5	5
Hyphal Fragments- 1 to 5 (low to high):		1	2





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Client Address: 1640 N. Batavia Street, Orange, CA 92867	AIHA EMPAT#: 203769
Project Number: 211874	Lab Batch Number: 2112058
Project Location: 700 West 11th Street, Azusa, CA 91702	Samples Received: 22
	Samples Analyzed: 21

Laboratory Sample ID:	211205804	211205805	211205806
Client Sample ID:	MA-0017	MA-0018	MA-0019
Sample Location:	1st Floor, Classroom 2	1st Floor, Classroom 14	1st Floor, Classroom 7
Comments:	<i>None</i>	<i>None</i>	<i>None</i>

Quantitative Analysis

		Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total
Inside/Outside	Aspergillus/Penicillium-like	10	400	45.5	16	640	61.5	12	480	75.0
	Cladosporium	2	80	9.1	6	240	23.1	1	40	6.3
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	1	40	4.5	-	-	-	-	-	-
	Ascospores	-	-	-	-	-	-	-	-	-
	Basidiospores	5	200	22.7	3	120	11.5	2	80	12.5
	Bipolaris	-	-	-	-	-	-	-	-	-
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	-	-	-	1	40	3.8	-	-	-
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	4	160	18.2	-	-	-	1	40	6.3
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	-	-	-	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	-	-	-
	Ganoderma	-	-	-	-	-	-	-	-	-
Total		22	880	100	26	1040	100	16	640	100



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Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

Laboratory Sample ID:	211205804	211205805	211205806
Client Sample ID:	MA-0017	MA-0018	MA-0019
Sample Location:	1st Floor, Classroom 2	1st Floor, Classroom 14	1st Floor, Classroom 7

Sample Collection Data

Total Time:			
Flow Rate:			
Volume:	75	75	75

Qualitative Analysis

Skin Fragments- 1 to 5 (low to high):	1	1	2
Background/m3- 1 to 5 (low to high):	4	4	3
Hyphal Fragments- 1 to 5 (low to high):	1	1	1





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Client Address: 1640 N. Batavia Street, Orange, CA 92867	AIHA EMPAT#: 203769
Project Number: 211874	Lab Batch Number: 2112058
Project Location: 700 West 11th Street, Azusa, CA 91702	Samples Received: 22
	Samples Analyzed: 21

Laboratory Sample ID:	211205807	211205808	211205809
Client Sample ID:	MA-0020	MA-0021	MA-0022
Sample Location:	1st Floor, Classroom 9	1st Floor, Classroom 23	1st Floor, Classroom 25
Comments:	<i>None</i>	<i>None</i>	<i>None</i>

Quantitative Analysis

		Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total
Inside/Outside	Aspergillus/Penicillium-like	21	840	51.2	6	240	54.5	10	400	76.9
	Cladosporium	10	400	24.4	1	40	9.1	-	-	-
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	-	-	-	-	-	-	-	-	-
	Ascospores	2	80	4.9	-	-	-	1	40	7.7
	Basidiospores	4	160	9.8	3	120	27.3	1	40	7.7
	Bipolaris	-	-	-	-	-	-	-	-	-
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	1	40	2.4	-	-	-	-	-	-
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	3	120	7.3	1	40	9.1	1	40	7.7
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	-	-	-	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	-	-	-
	Ganoderma	-	-	-	-	-	-	-	-	-
Total		41	1640	100	11	440	100	13	520	100



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Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

Laboratory Sample ID:	211205807	211205808	211205809
Client Sample ID:	MA-0020	MA-0021	MA-0022
Sample Location:	1st Floor, Classroom 9	1st Floor, Classroom 23	1st Floor, Classroom 25

Sample Collection Data

Total Time:			
Flow Rate:			
Volume:	75	75	75

Qualitative Analysis

Skin Fragments- 1 to 5 (low to high):	2	1	1
Background/m3- 1 to 5 (low to high):	4	2	3
Hyphal Fragments- 1 to 5 (low to high):	1	1	1





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Project Number: 211874	Lab Batch Number: 2112058
Project Location: 700 West 11th Street, Azusa, CA 91702	Samples Received: 22
	Samples Analyzed: 21

Laboratory Sample ID:	211205810	211205811	211205812
Client Sample ID:	MA-0023	MA-0024	MA-0025
Sample Location:	1st Floor, Classroom 26	1st Floor, Classroom 28	1st Floor, Computer Lab
Comments:	<i>None</i>	<i>None</i>	<i>None</i>

Quantitative Analysis

		Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total
Inside/Outside	Aspergillus/Penicillium-like	5	200	62.5	19	760	79.2	10	400	76.9
	Cladosporium	3	120	37.5	1	40	4.2	2	80	15.4
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	-	-	-	-	-	-	-	-	-
	Ascospores	-	-	-	1	40	4.2	-	-	-
	Basidiospores	-	-	-	3	120	12.5	1	40	7.7
	Bipolaris	-	-	-	-	-	-	-	-	-
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	-	-	-	-	-	-	-	-	-
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	-	-	-	-	-	-	-	-	-
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	-	-	-	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	-	-	-
	Ganoderma	-	-	-	-	-	-	-	-	-
Total		8	320	100	24	960	100	13	520	100



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Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

Laboratory Sample ID:	211205810	211205811	211205812
Client Sample ID:	MA-0023	MA-0024	MA-0025
Sample Location:	1st Floor, Classroom 26	1st Floor, Classroom 28	1st Floor, Computer Lab

Sample Collection Data

Total Time:			
Flow Rate:			
Volume:	75	75	75

Qualitative Analysis

Skin Fragments- 1 to 5 (low to high):	2	1	2
Background/m3- 1 to 5 (low to high):	3	4	3
Hyphal Fragments- 1 to 5 (low to high):	1	1	1





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Project Number: 211874	Lab Batch Number: 2112058
Project Location: 700 West 11th Street, Azusa, CA 91702	Samples Received: 22
	Samples Analyzed: 21

Laboratory Sample ID:	211205813	211205814	211205815
Client Sample ID:	MA-0026	MA-0027	MA-0028
Sample Location:	1st Floor, Library	1st Floor, Classroom 29	1st Floor, Classroom 22
Comments:	<i>None</i>	<i>None</i>	<i>None</i>

Quantitative Analysis

		Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total
Inside/Outside	Aspergillus/Penicillium-like	5	200	35.7	12	480	66.7	5	200	83.3
	Cladosporium	3	120	21.4	4	160	22.2	-	-	-
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	-	-	-	-	-	-	-	-	-
	Ascospores	2	80	14.3	-	-	-	-	-	-
	Basidiospores	2	80	14.3	1	40	5.6	1	40	16.7
	Bipolaris	1	40	7.1	-	-	-	-	-	-
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	-	-	-	-	-	-	-	-	-
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	1	40	7.1	1	40	5.6	-	-	-
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	-	-	-	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	-	-	-
	Ganoderma	-	-	-	-	-	-	-	-	-
Total		14	560	100	18	720	100	6	240	100



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Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

Laboratory Sample ID:	211205813	211205814	211205815
Client Sample ID:	MA-0026	MA-0027	MA-0028
Sample Location:	1st Floor, Library	1st Floor, Classroom 29	1st Floor, Classroom 22

Sample Collection Data

Total Time:			
Flow Rate:			
Volume:	75	75	75

Qualitative Analysis

Skin Fragments- 1 to 5 (low to high):	2	2	2
Background/m3- 1 to 5 (low to high):	3	3	3
Hyphal Fragments- 1 to 5 (low to high):	1	1	1





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Project Number: 211874	Lab Batch Number: 2112058
Project Location: 700 West 11th Street, Azusa, CA 91702	Samples Received: 22
	Samples Analyzed: 21

Laboratory Sample ID:	211205816	211205817	211205818
Client Sample ID:	MA-0029	MA-0030	MA-0031
Sample Location:	1st Floor, Classroom 21	1st Floor, Classroom 20	1st Floor, Classroom 19
Comments:	<i>None</i>	<i>None</i>	<i>None</i>

Quantitative Analysis

		Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total
Inside/Outside	Aspergillus/Penicillium-like	7	280	50.0	7	280	63.6	3	120	50.0
	Cladosporium	5	200	35.7	3	120	27.3	-	-	-
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	-	-	-	-	-	-	1	40	16.7
	Ascospores	1	40	7.1	1	40	9.1	1	40	16.7
	Basidiospores	-	-	-	-	-	-	-	-	-
	Bipolaris	-	-	-	-	-	-	-	-	-
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	1	40	7.1	-	-	-	-	-	-
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	-	-	-	-	-	-	1	40	16.7
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	-	-	-	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	-	-	-
	Ganoderma	-	-	-	-	-	-	-	-	-
Total		14	560	100	11	440	100	6	240	100



MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

Phone:(562) 860-2201

www.aihlab.com

Client Name: A-Tech Consulting Inc

Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

Laboratory Sample ID:	211205816	211205817	211205818
Client Sample ID:	MA-0029	MA-0030	MA-0031
Sample Location:	1st Floor, Classroom 21	1st Floor, Classroom 20	1st Floor, Classroom 19

Sample Collection Data

Total Time:			
Flow Rate:			
Volume:	75	75	75

Qualitative Analysis

Skin Fragments- 1 to 5 (low to high):	2	2	1
Background/m3- 1 to 5 (low to high):	2	2	2
Hyphal Fragments- 1 to 5 (low to high):	1	1	1





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

Phone: (562) 860-2201

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Client Name: A-Tech Consulting Inc	Report Status: Final Report
Client Address: 1640 N. Batavia Street, Orange, CA 92867	AIHA EMPAT#: 203769
Project Number: 211874	Lab Batch Number: 2112058
Project Location: 700 West 11th Street, Azusa, CA 91702	Samples Received: 22
	Samples Analyzed: 21

Laboratory Sample ID:	211205819	211205820	211205821
Client Sample ID:	MA-0032	MA-0033	MA-0034
Sample Location:	1st Floor, Classroom 18	1st Floor, Classroom 24	1st Floor, Classroom 27
Comments:	<i>None</i>	<i>None</i>	<i>None</i>

Quantitative Analysis

		Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total
Inside/Outside	Aspergillus/Penicillium-like	12	480	34.3	9	360	75.0	9	360	45.0
	Cladosporium	20	800	57.1	1	40	8.3	10	400	50.0
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	-	-	-	-	-	-	-	-	-
	Ascospores	-	-	-	-	-	-	-	-	-
	Basidiospores	3	120	8.6	-	-	-	-	-	-
	Bipolaris	-	-	-	-	-	-	-	-	-
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	-	-	-	-	-	-	-	-	-
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	-	-	-	2	80	16.7	1	40	5.0
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	-	-	-	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	-	-	-
	Ganoderma	-	-	-	-	-	-	-	-	-
Total		35	1400	100	12	480	100	20	800	100



MOLD AIR SAMPLE REPORT

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

Laboratory Sample ID:	211205819	211205820	211205821
Client Sample ID:	MA-0032	MA-0033	MA-0034
Sample Location:	1st Floor, Classroom 18	1st Floor, Classroom 24	1st Floor, Classroom 27

Sample Collection Data

Total Time:			
Flow Rate:			
Volume:	75	75	75

Qualitative Analysis

Skin Fragments- 1 to 5 (low to high):	2	1	2
Background/m3- 1 to 5 (low to high):	3	2	3
Hyphal Fragments- 1 to 5 (low to high):	1	1	1





MOLD AIR SAMPLE REPORT

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Client Name: A-Tech Consulting Inc

Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

Laboratory Sample ID:	211205822	XXXXXXXXX	XXXXXXXXX
Client Sample ID:	MA-0035	XXXXXXXXX	XXXXXXXXX
Sample Location:	Exterior	XXXXXXXXX	XXXXXXXXX
Comments:	None		

Quantitative Analysis

		Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total
Inside/Outside	Aspergillus/Penicillium-like	40	800	32.3						
	Cladosporium	72	1440	58.1						
Water Damage Indication	Chaetomium	-	-	-						
	Stachybotrys	-	-	-						
	Trichoderma	-	-	-						
	Ulocladium	-	-	-						
	Alternaria	3	60	2.4						
Outdoor Environment	Ascospores	4	80	3.2						
	Basidiospores	1	20	0.8						
	Bipolaris	-	-	-						
	Curvularia	-	-	-						
	Epicoccum	-	-	-						
	Nigrospora	-	-	-						
	Periconia/Myxo/Smut	3	60	2.4						
	Pithomyces	-	-	-						
	Rust	-	-	-						
	Spegazzinia	-	-	-						
	Tetraploa	-	-	-						
	Torula	-	-	-						
	Miscellaneous Spores	1	20	0.8						
	Ganoderma	-	-	-						
Total		124	2480	100						



MOLD AIR SAMPLE REPORT

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

Laboratory Sample ID:	211205822	XXXXXXXX	XXXXXXXX
Client Sample ID:	MA-0035	XXXXXXXX	XXXXXXXX
Sample Location:	Exterior	XXXXXXXX	XXXXXXXX

Sample Collection Data

Total Time:		
Flow Rate:		
Volume:	150	

Qualitative Analysis

Skin Fragments- 1 to 5 (low to high):	1	
Background/m3- 1 to 5 (low to high):	4	
Hyphal Fragments- 1 to 5 (low to high):	1	

Analyzed by: Emily Chang

Signature: 

Date: 08-02-2021

Reviewed by: Zubair Ahmed

Signature: 

Date: 08-02-2021

No accepted regulatory standards currently exist by which to assess the health risks related to mold exposure. Molds have been associated with a variety of health effects and sensitivity varies from person to person. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. High levels of background particulate can obscure spores and other particulates leading to underestimation. "-" Denotes not detected. Background levels of 4 or 5 indicate an overload of background particulates, prohibiting accurate detection and quantification. AIH Laboratory maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by AIH Laboratory. AIH Laboratory bears no responsibility for sample collection activities or analytical method limitations. Spores/m³ calculation based on volume information provided by client. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. All report format and design are copyright of AIH Laboratory 2021.

AIHA LAP, LLC Accredited Laboratory for Microbiology Laboratory ISO/IEC 17025:2005, Lab ID# 203769



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Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

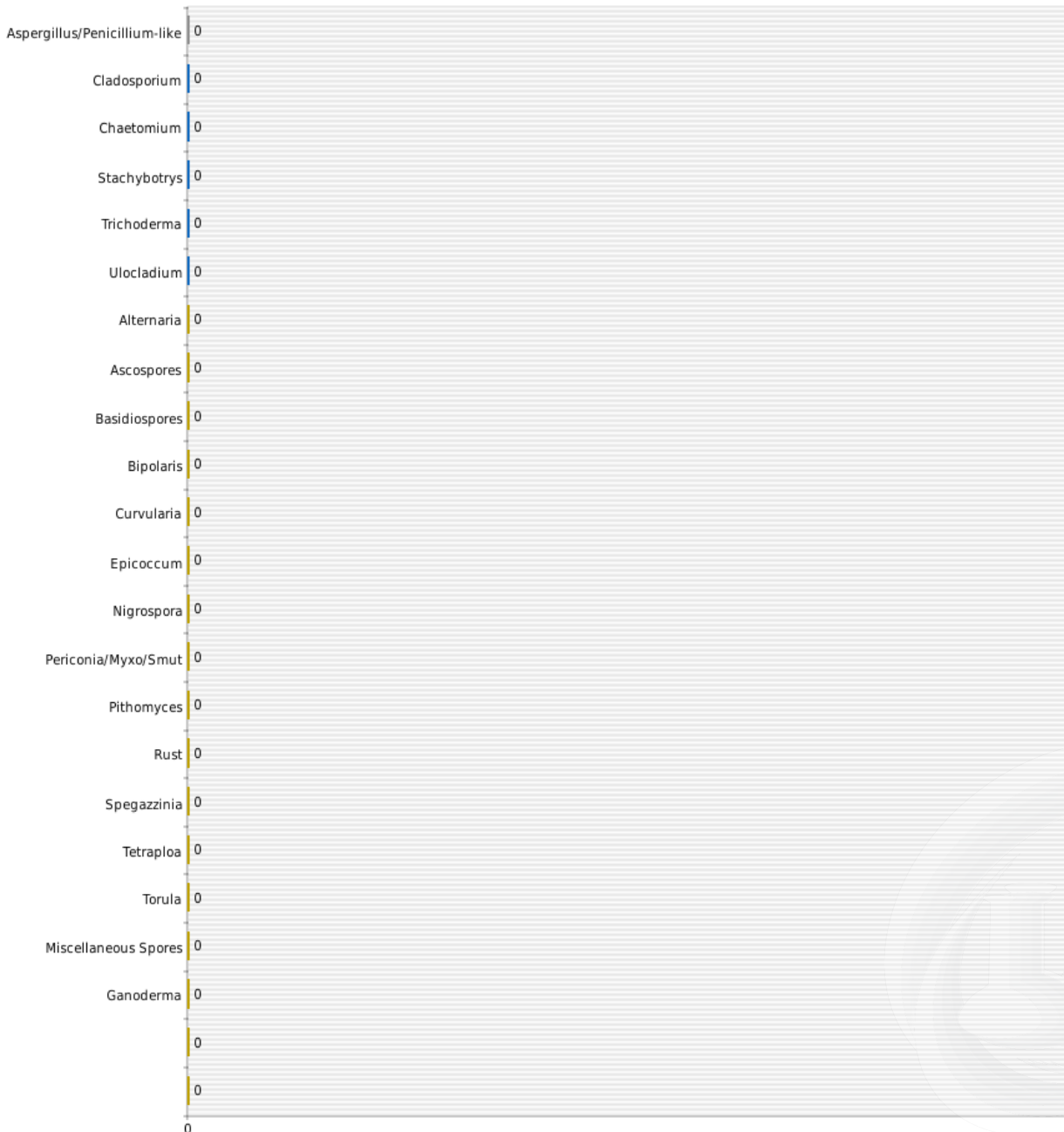
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Classroom 4 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

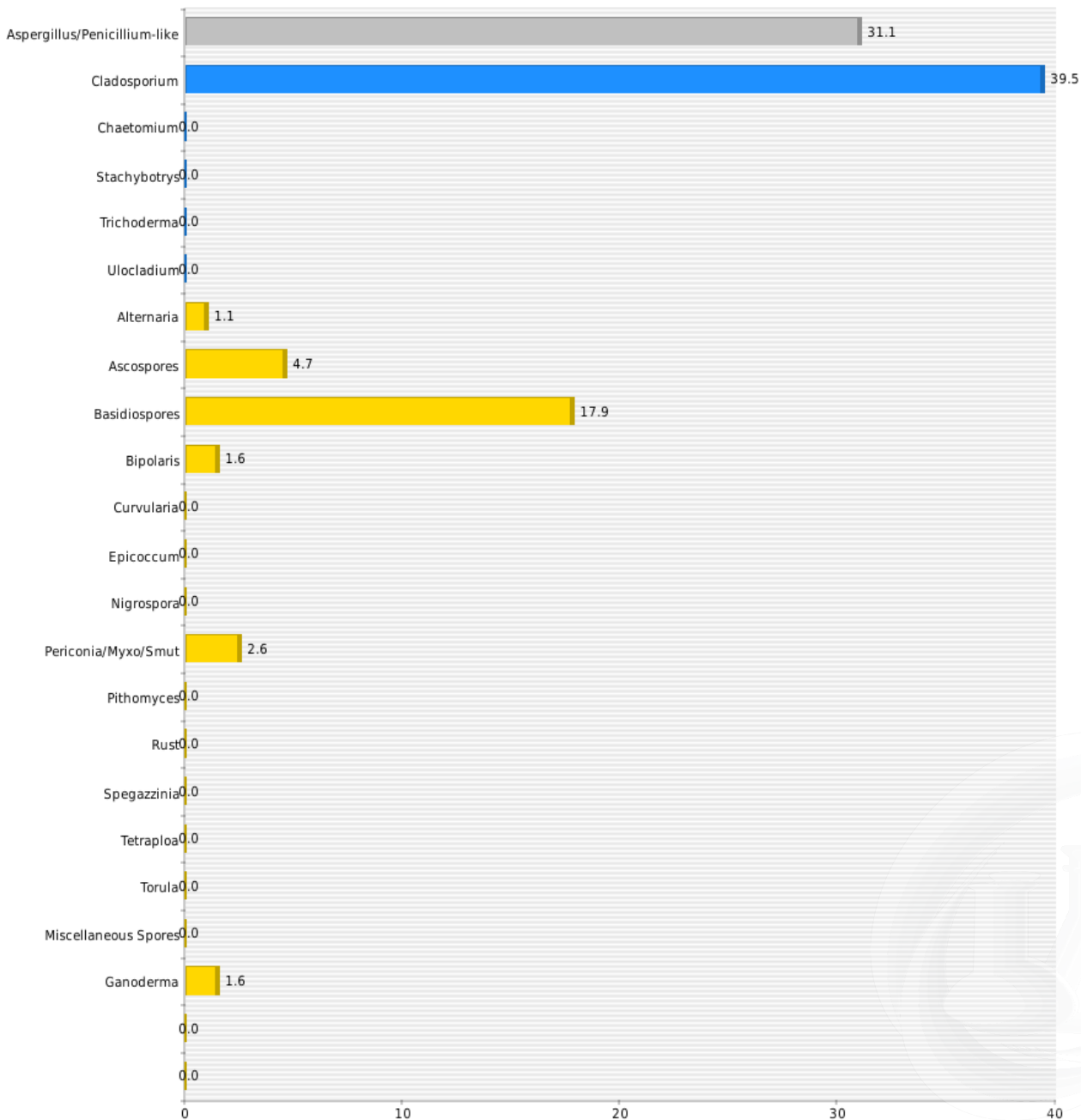
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

Exterior (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

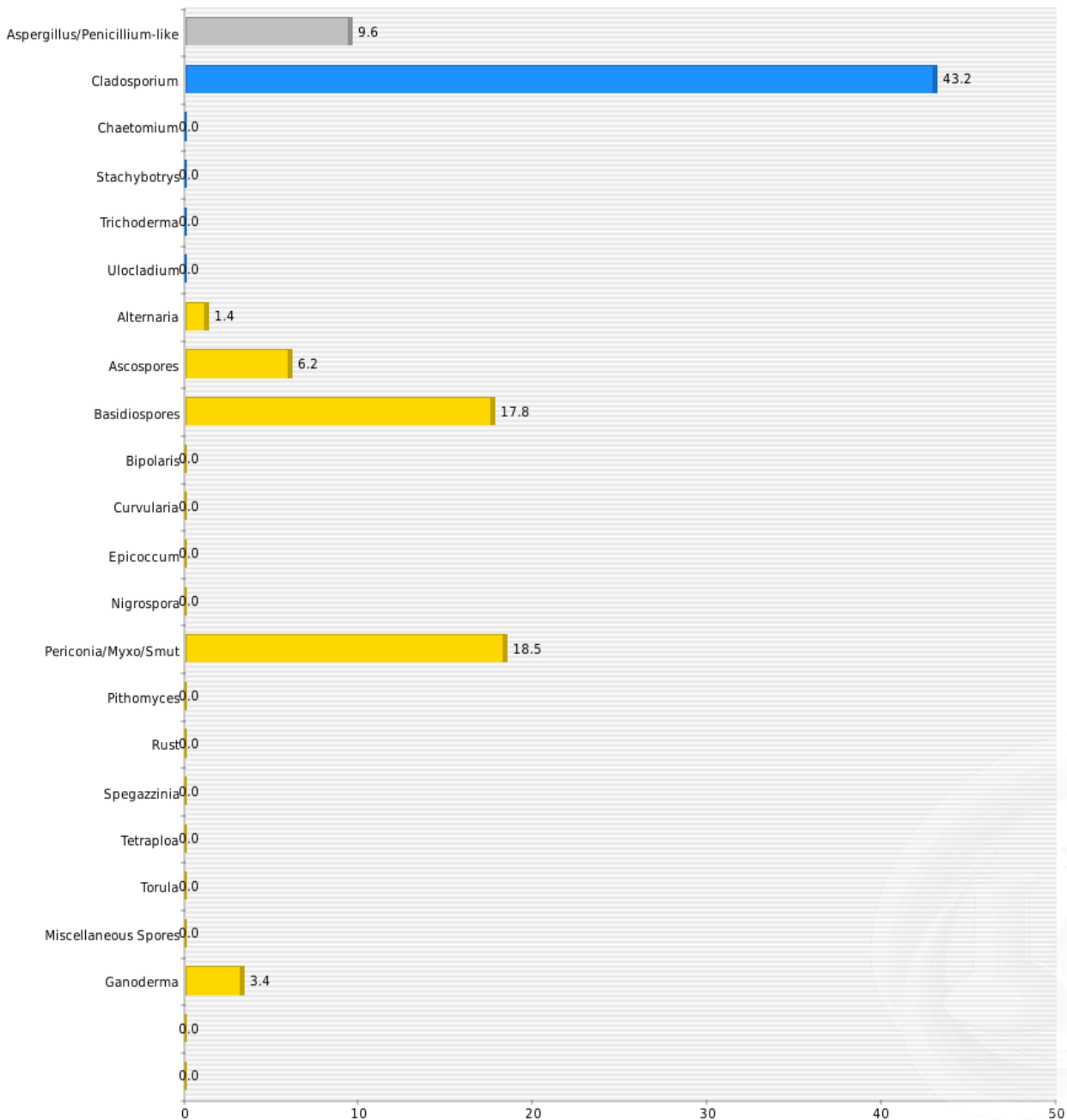
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

Exterior (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

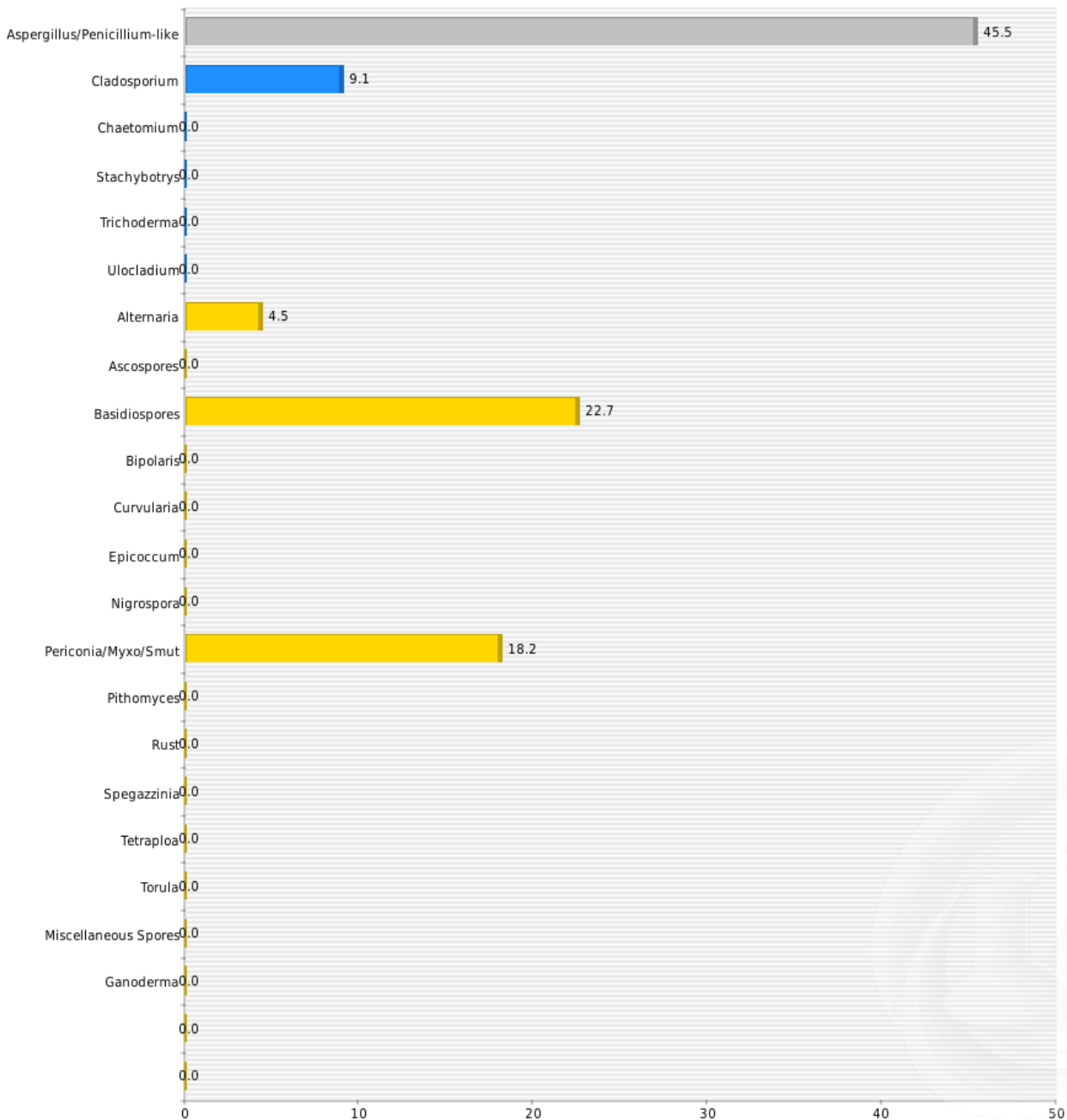
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Classroom 2 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

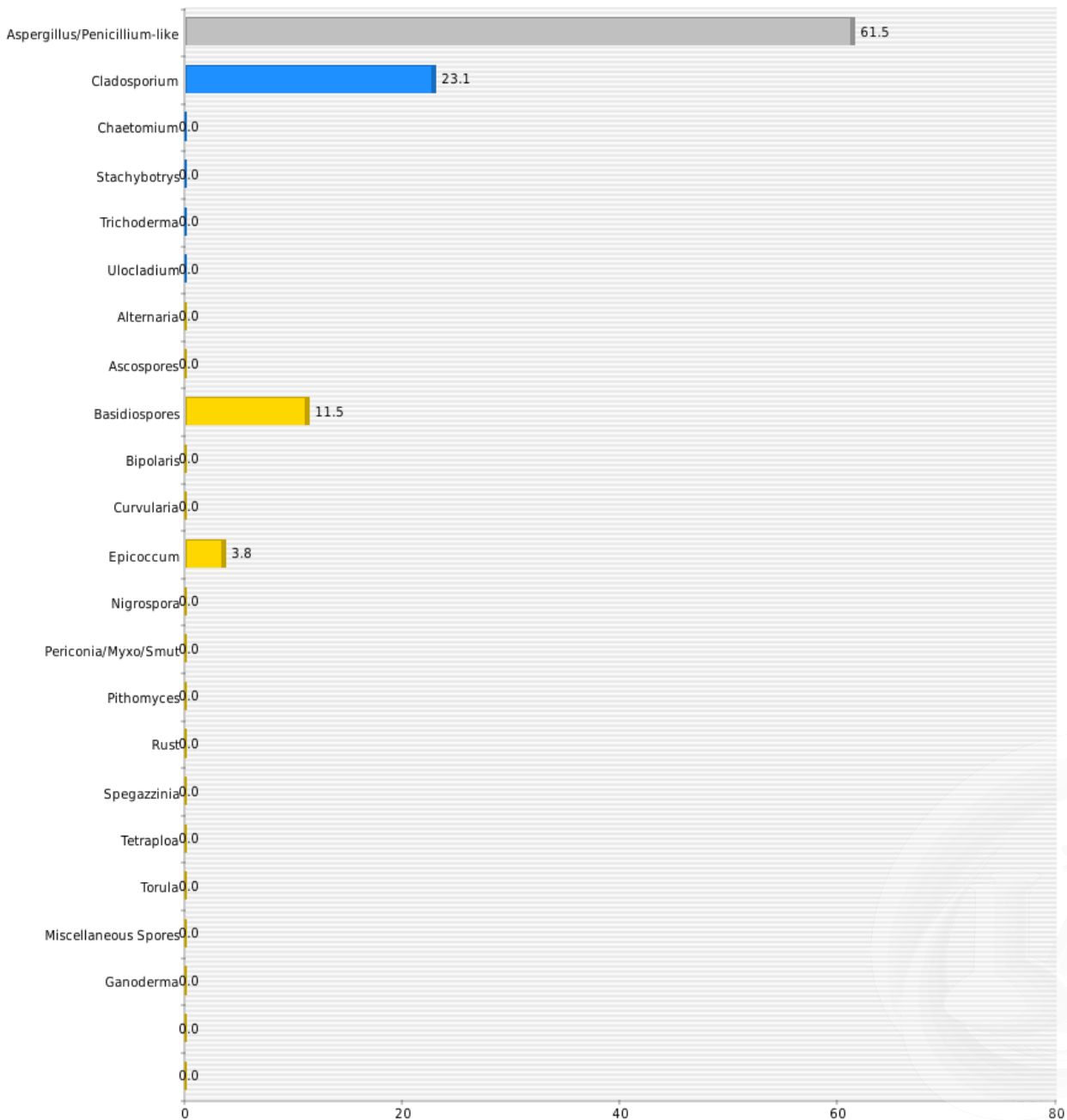
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Classroom 14 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

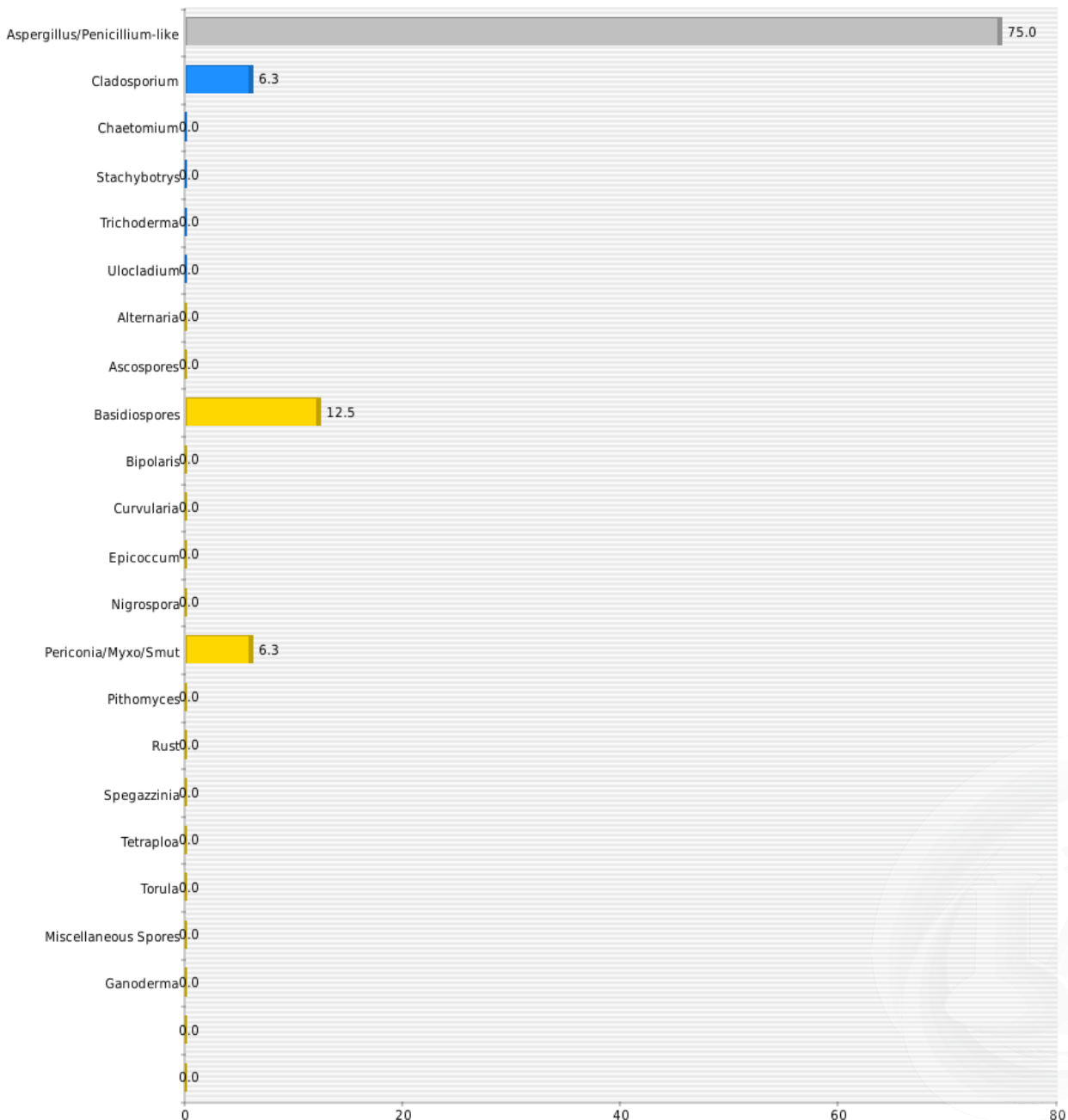
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Classroom 7 (Spore Percentage)





MOLD AIR SAMPLE REPORT

Phone: (562) 860-2201
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Client Name: A-Tech Consulting Inc

Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

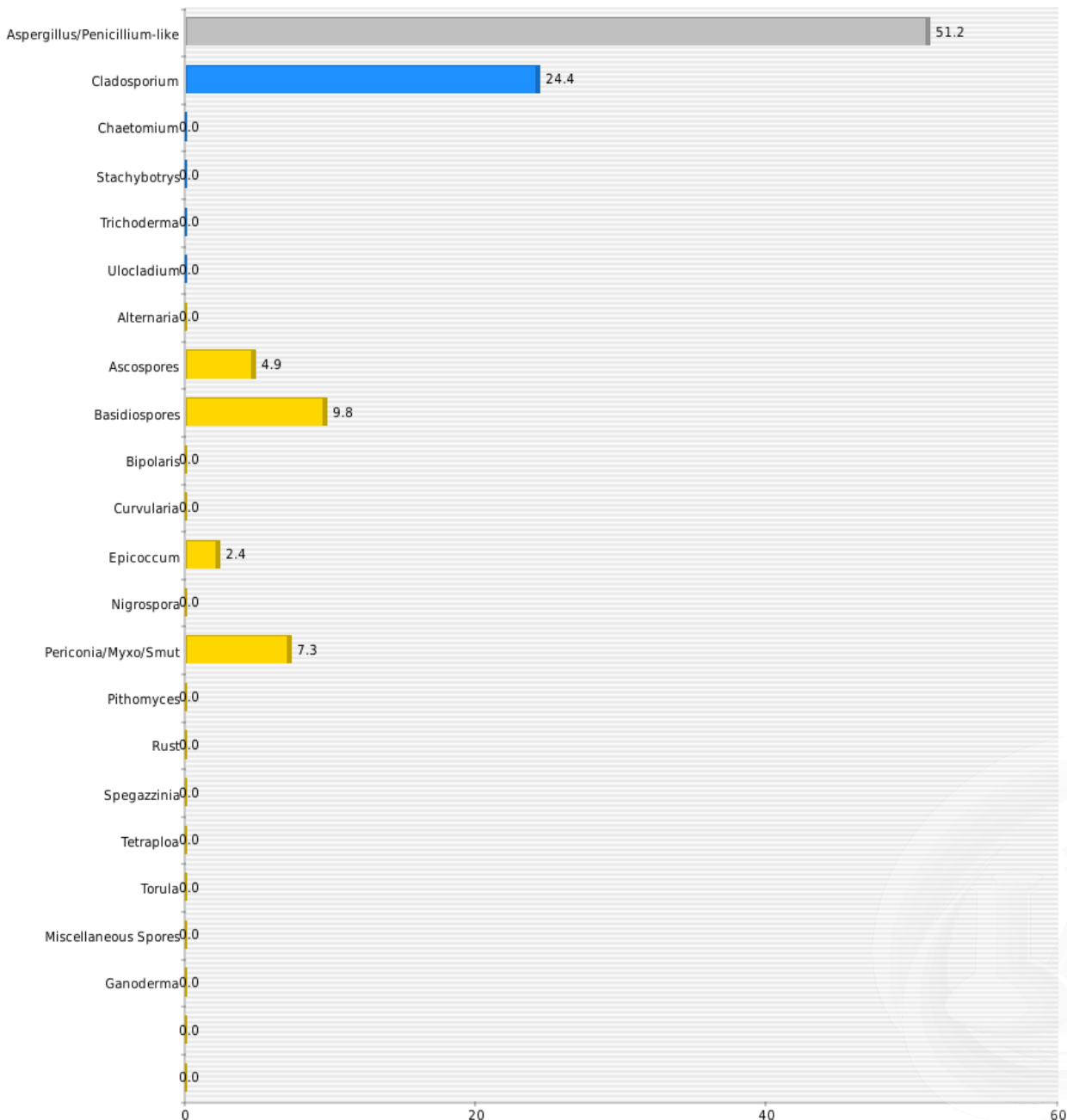
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Classroom 9 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

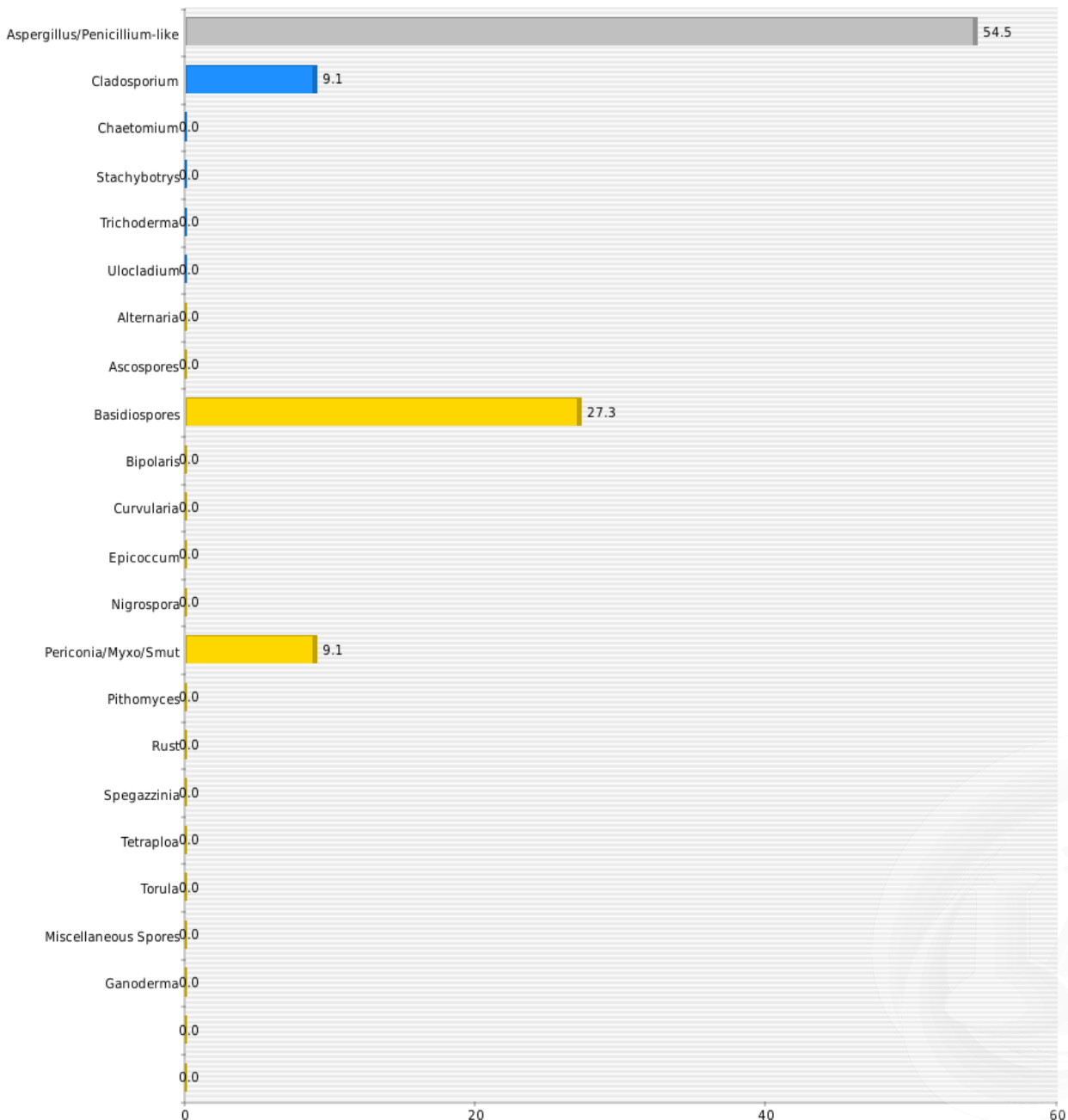
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Classroom 23 (Spore Percentage)





MOLD AIR SAMPLE REPORT

Phone: (562) 860-2201
www.aihlab.com

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Client Name: A-Tech Consulting Inc

Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Classroom 25 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

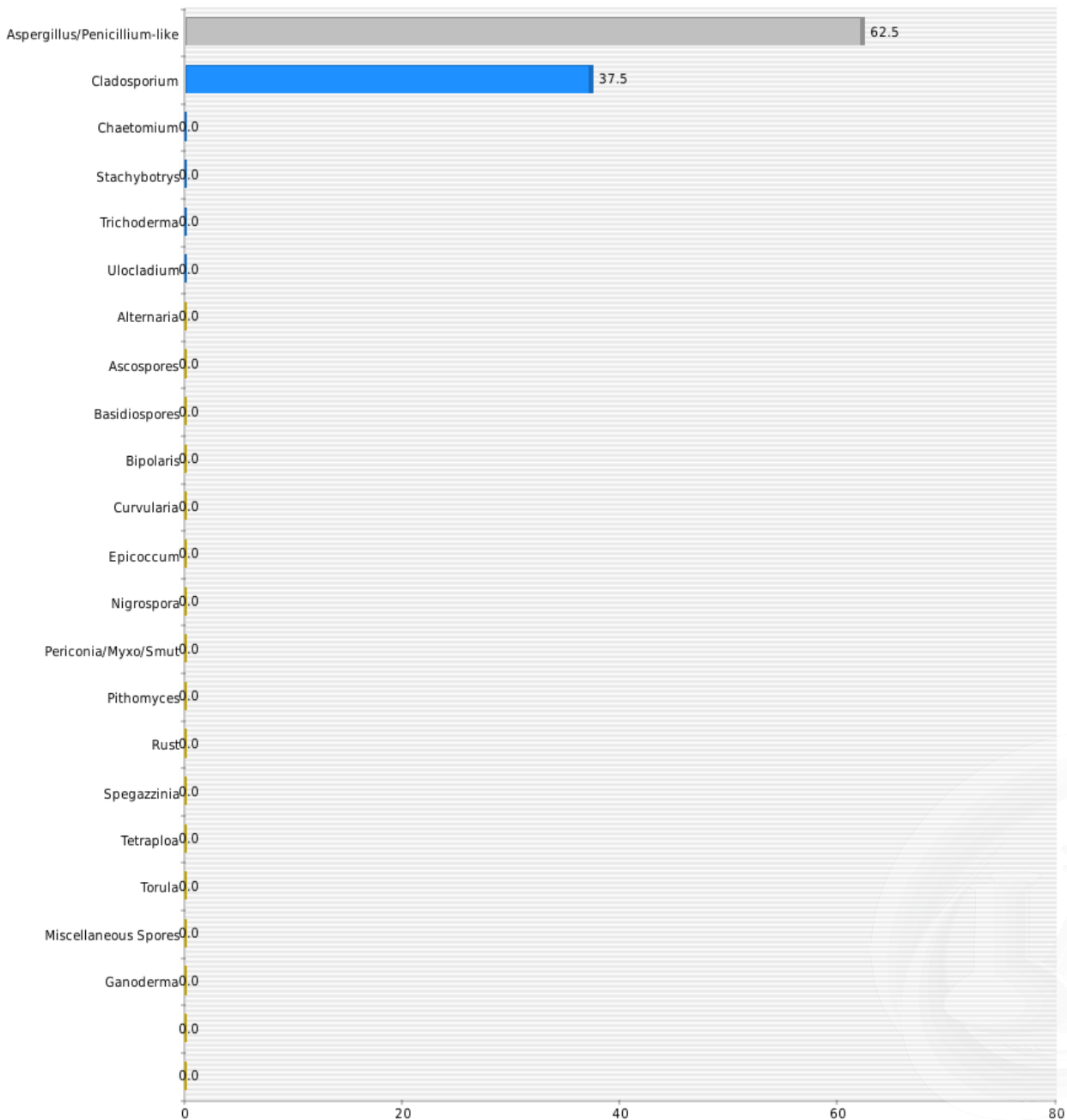
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Classroom 26 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Name: A-Tech Consulting Inc

Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

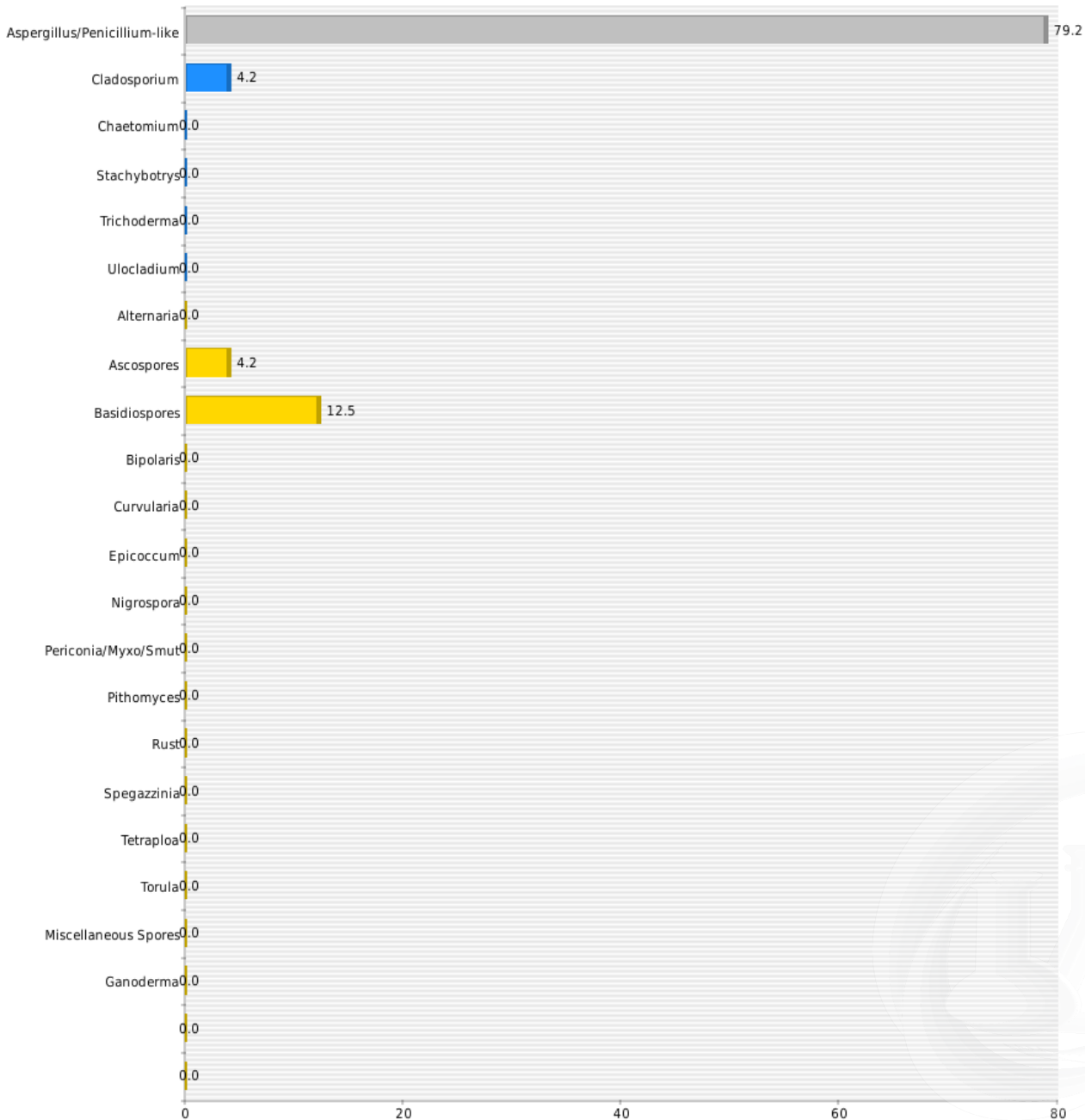
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Classroom 28 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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www.aihlab.com

Client Name: A-Tech Consulting Inc

Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

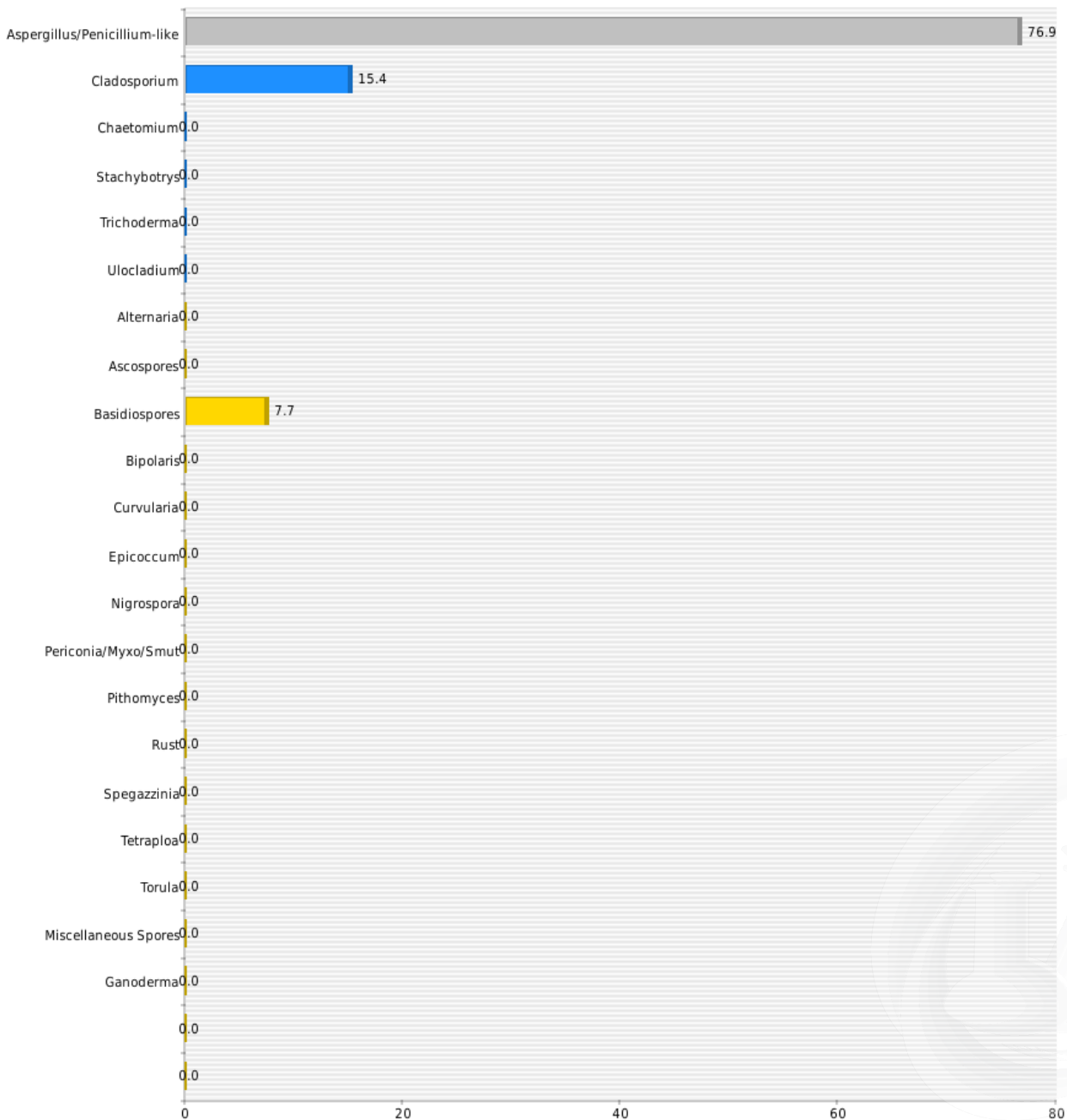
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Computer Lab (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

Phone: (562) 860-2201

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Client Name: A-Tech Consulting Inc

Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

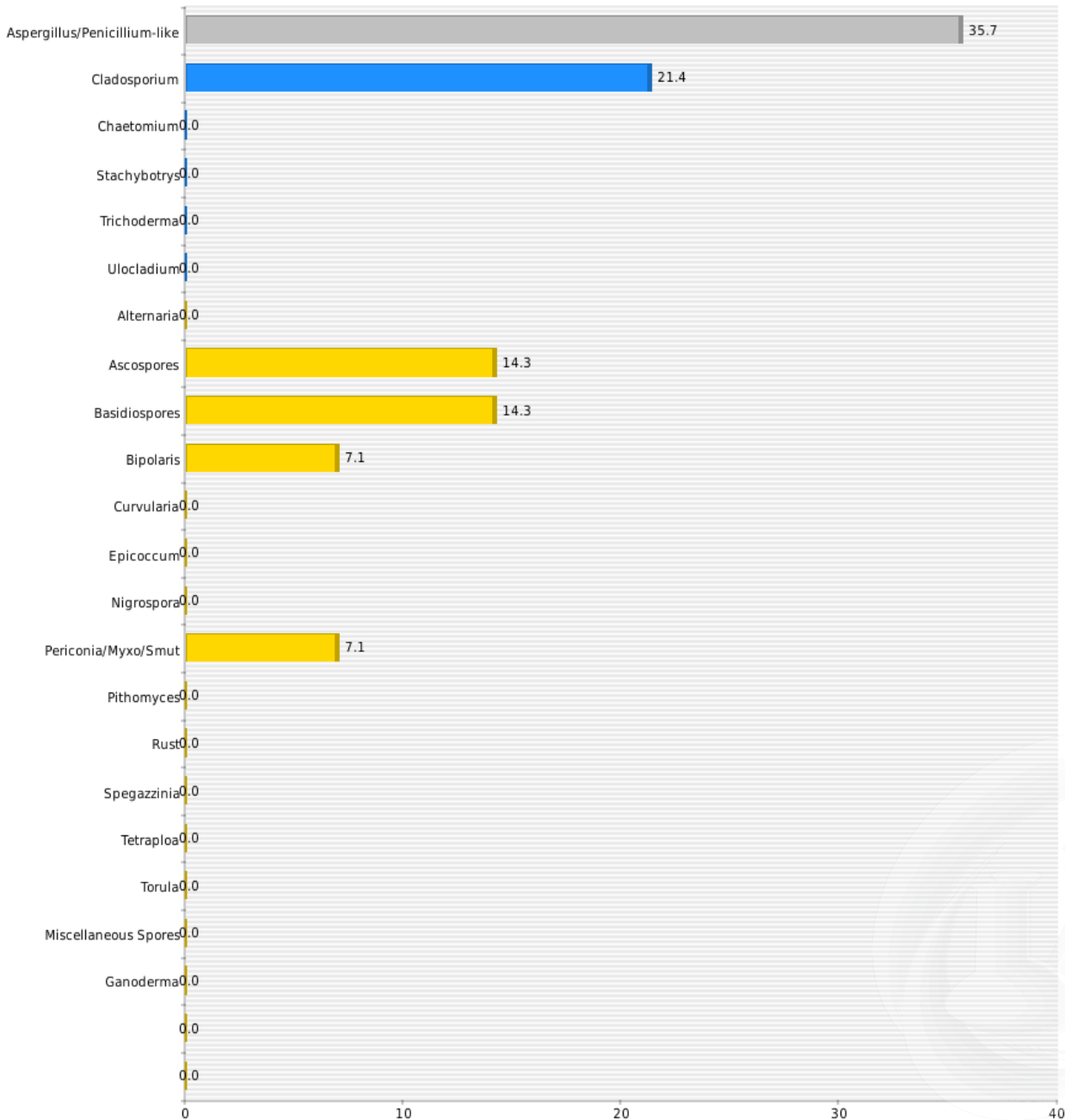
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Library (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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www.aihlab.com

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

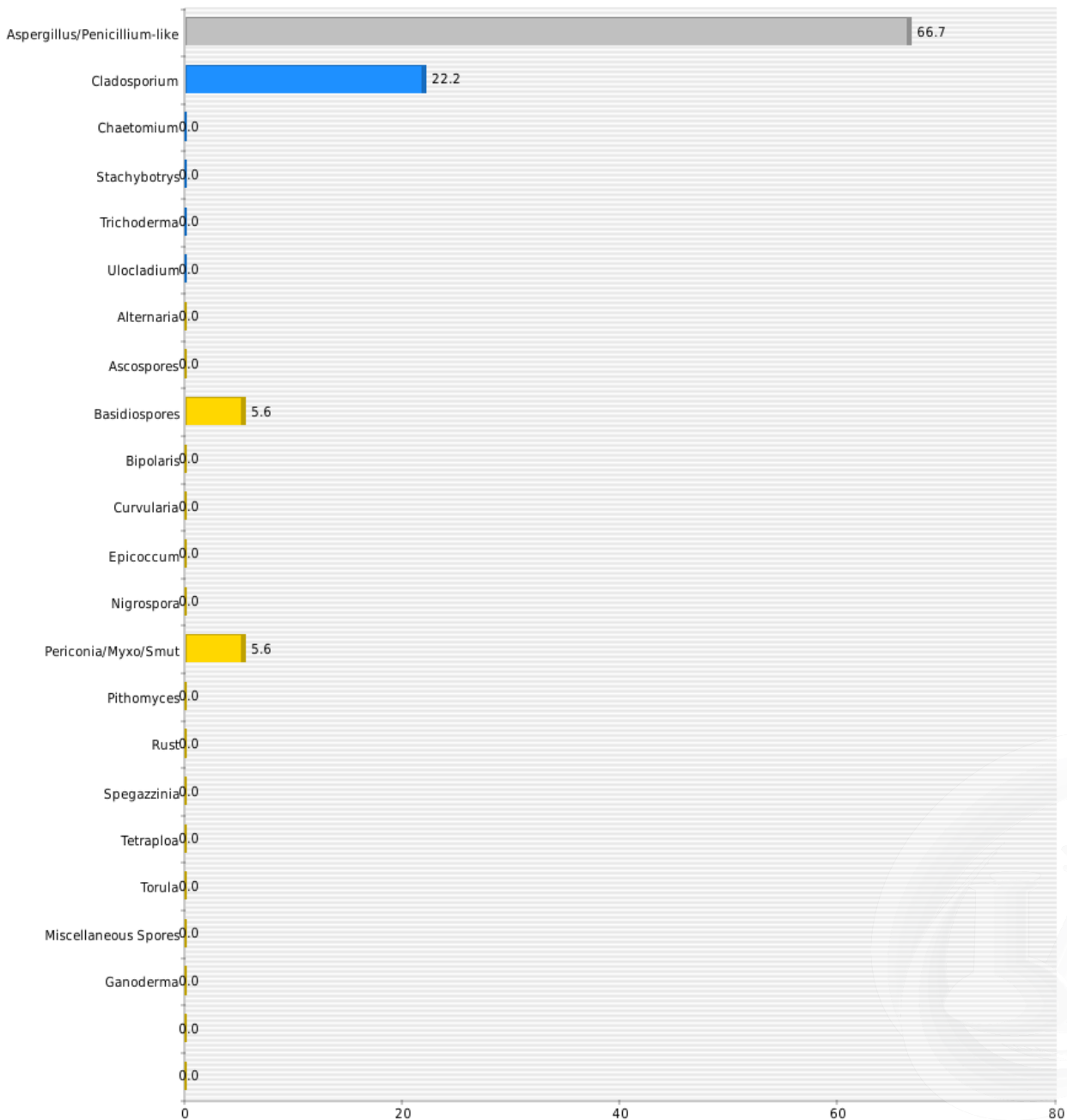
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Classroom 29 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

Phone: (562) 860-2201

www.aihlab.com

Client Name: A-Tech Consulting Inc

Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

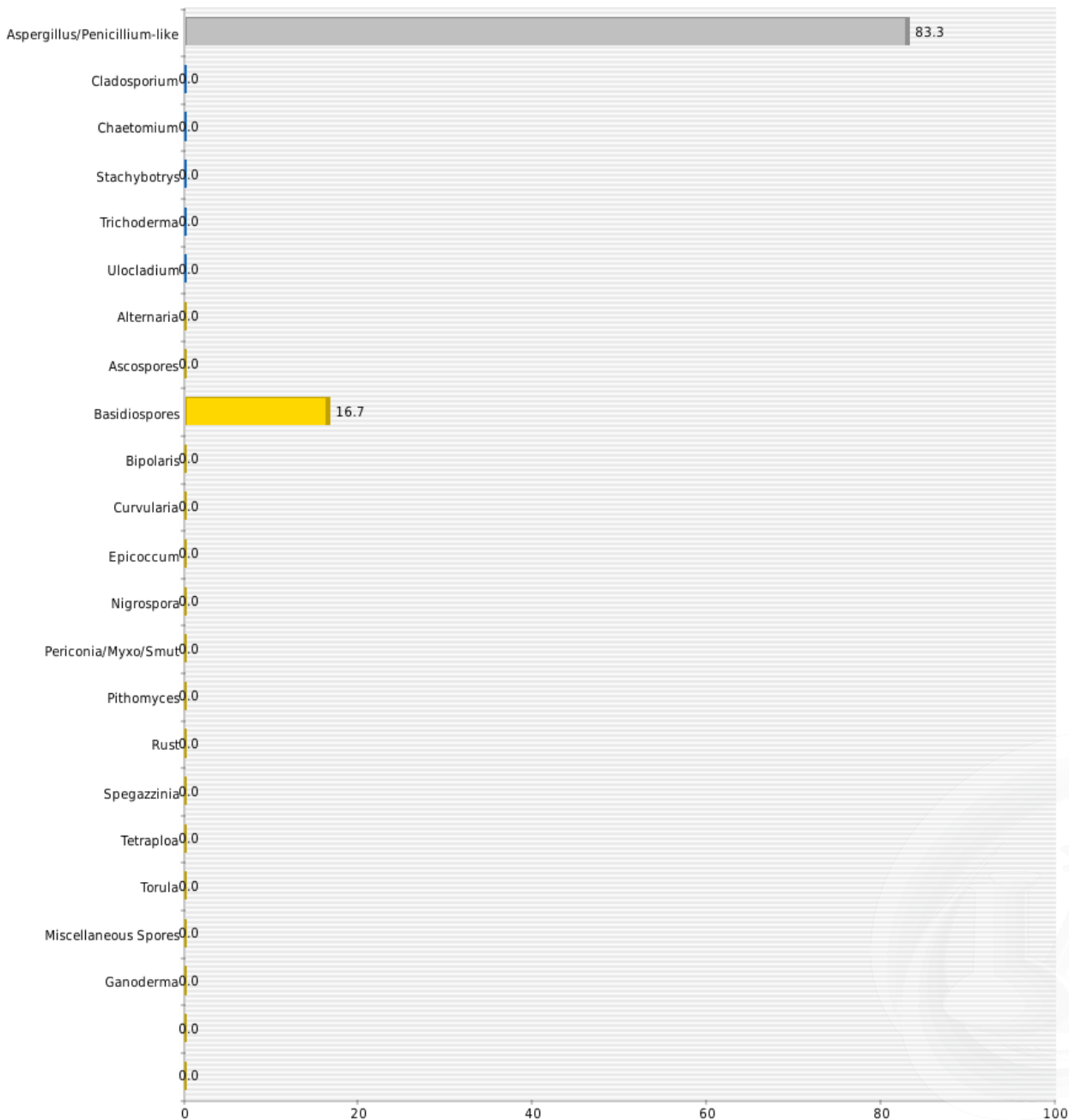
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Classroom 22 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

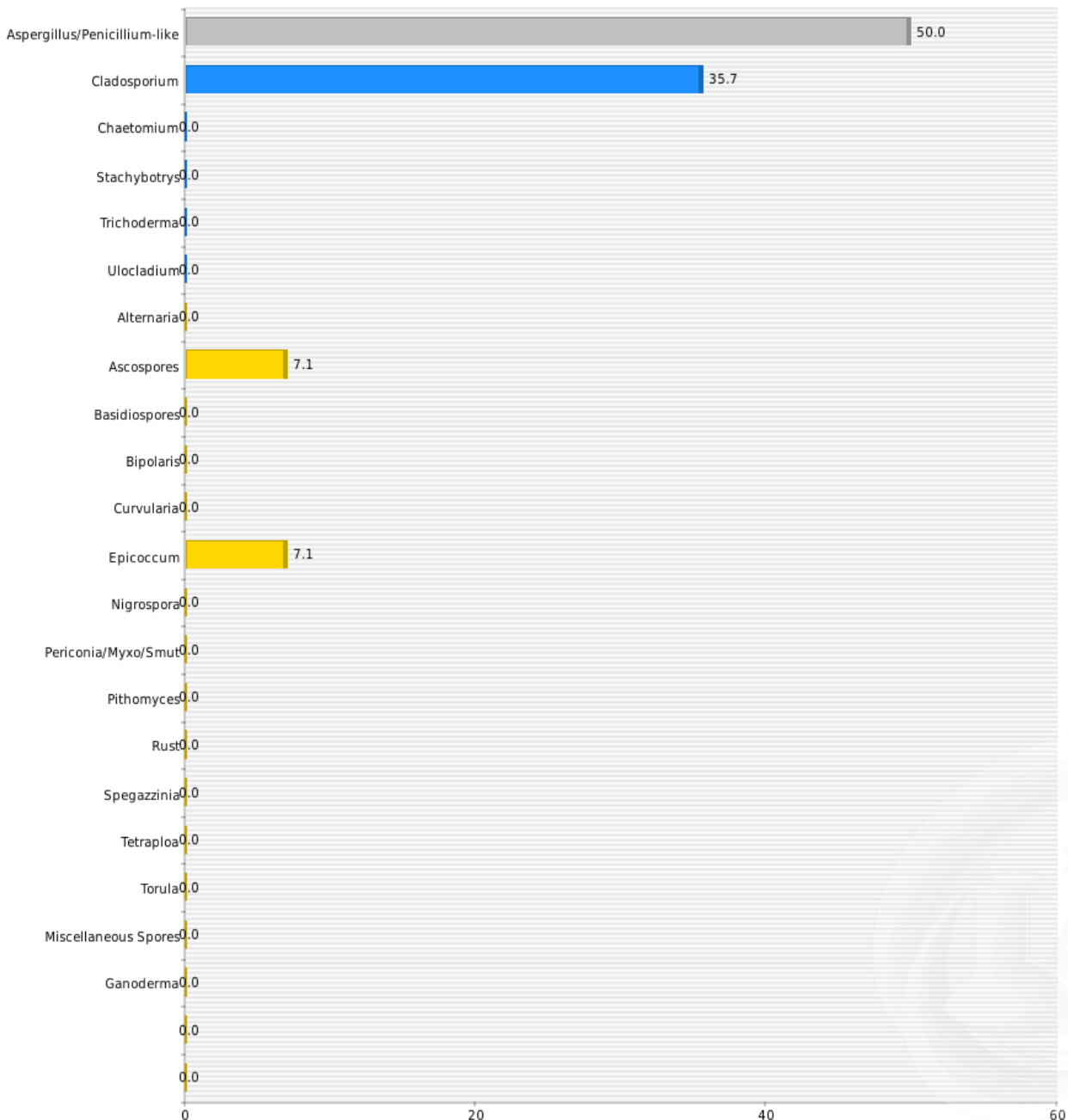
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Classroom 21 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

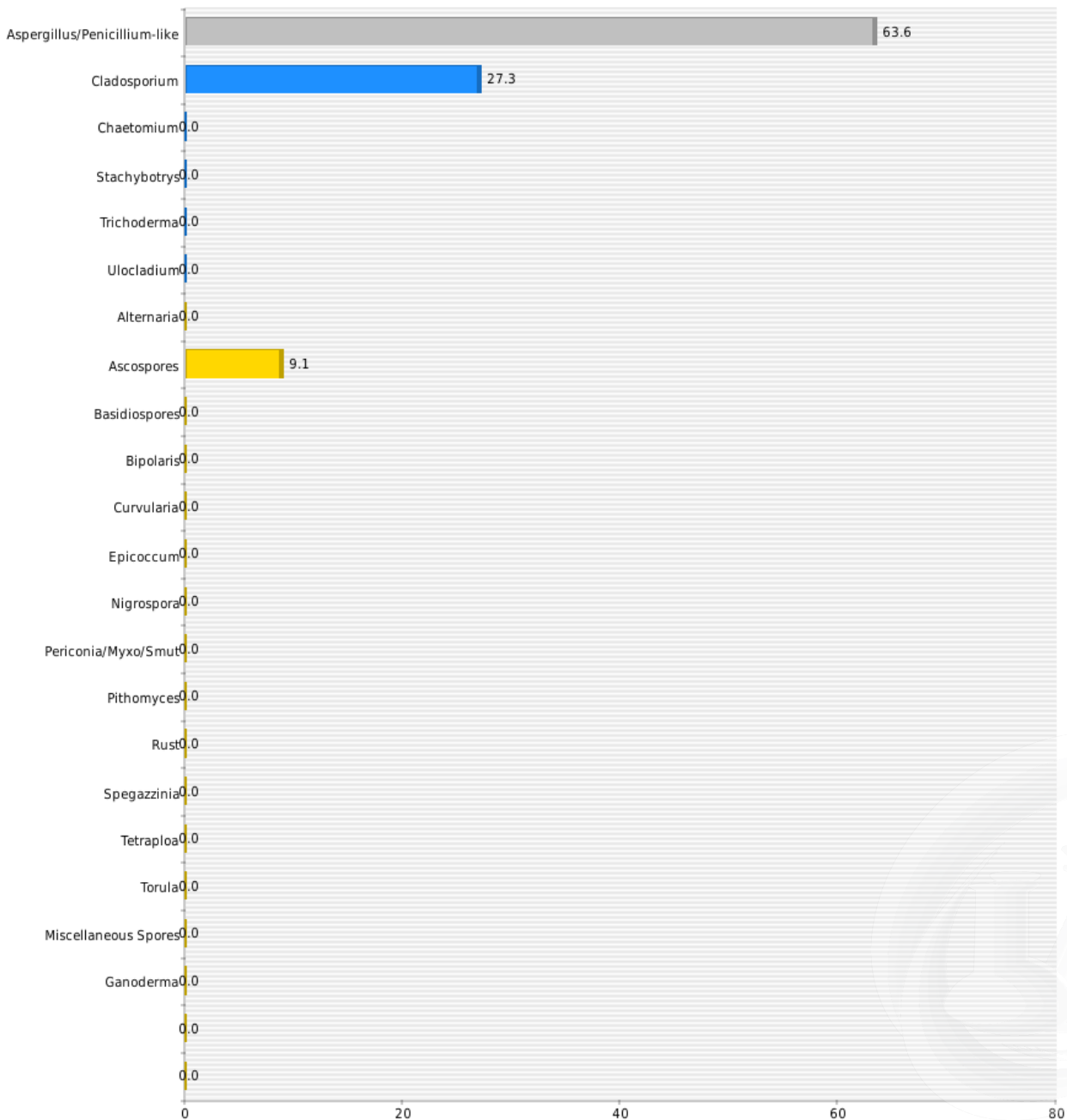
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Classroom 20 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

Phone: (562) 860-2201

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Client Name: A-Tech Consulting Inc

Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

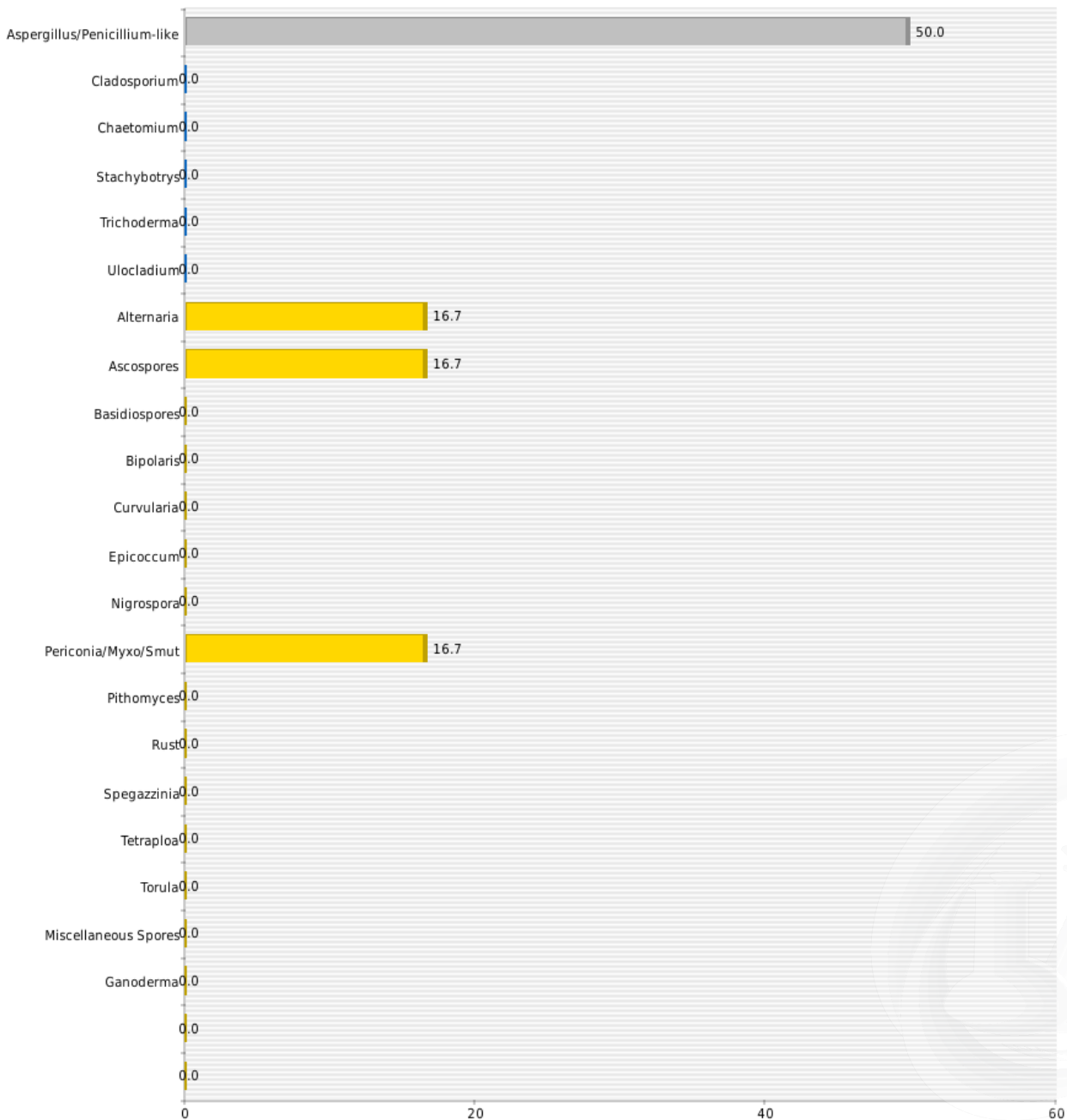
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Classroom 19 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

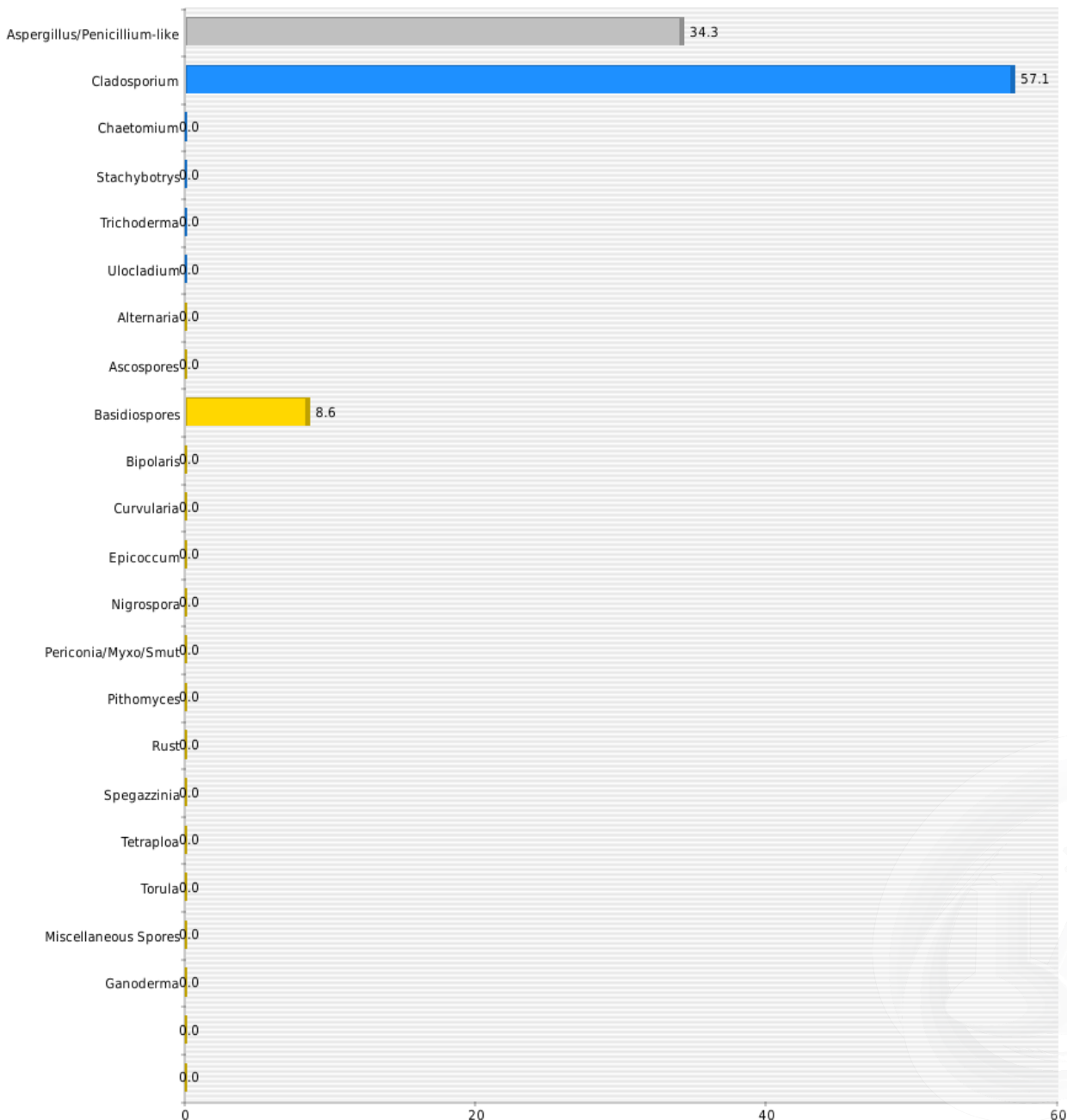
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Classroom 18 (Spore Percentage)





MOLD AIR SAMPLE REPORT

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Client Address: 1640 N. Batavia Street, Orange, CA 92867

Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Classroom 24 (Spore Percentage)





MOLD AIR SAMPLE REPORT

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Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

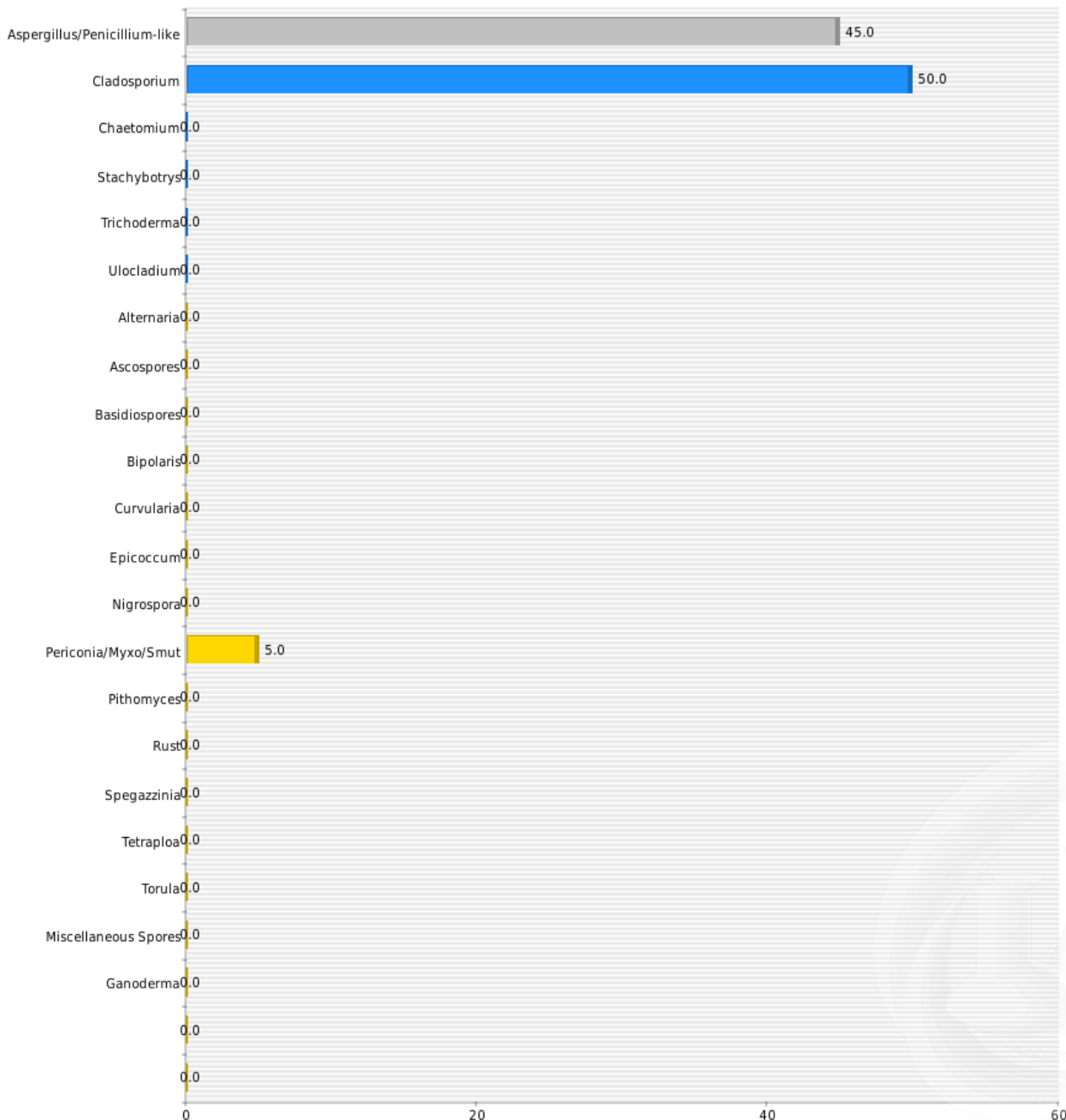
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

1st Floor, Classroom 27 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

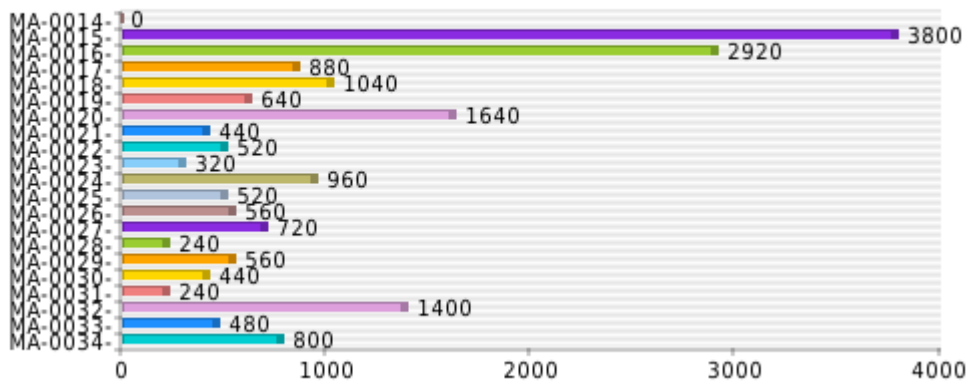
AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

Spore Per Meter Cube





MOLD AIR SAMPLE REPORT

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Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112058

Samples Received: 22

Samples Analyzed: 21

Understanding Sampling and Laboratory Methodologies

Spore Trap Cassettes (Air Sampling media) are unique air sampling cassettes specifically designed for the rapid collection of a wide range of airborne aerosols including mold spores, pollen, insect parts, skin cell fragments, and inorganic particulate. The analytical results obtained from include both viable and non-viable spores. Some fungal groups produce similar spore types that are difficult to be distinguished only by direct microscopic examination like *Aspergillus/Penicillium*, or other identical spore. Similarly other spore types may lack distinguishing features that aid in their identification like hyphae. To avoid any confusion these types are grouped into larger categories such as Ascospores or Basidiospores.

Examination Technique:

AIH Laboratory Fungal Air Sample Reports data results are provided in spore counts per cubic meter of air. Fungal spores are identified and grouped by morphological characteristics including color, shape, size, and fruiting structures (if present) which are compared to published mycological identification keys and texts.

Qualitative Analysis:

It is difficult to precisely measure some analytical findings which aid in assessing the overall sample condition and density. Qualitative analysis is used to determine concentration of Skin Fragments, Background and Hyphal fragments. A number between 1-5 is used to rate the concentrations. Each number increase in rate adds a range of 1-20% Please understand that higher the number of skin fragments and background particle it may obscure small spore. Overloaded in comments indicate that sample failed to meet visibility density criteria and thus the quantitative analysis was not performed on the particular sample.

Analysis:

This data is gathered by visual and statistical analysis performed on the specimen. The quantitative data is adhered to strict quality control procedures. This strict quality is achieved by reanalyzing at least 10% of samples. The results from original analysis and re-read must be close with only minor variation. If results do not fall under minor variation criteria, then all samples must be analyzed again. The quantitative data is used to produce the final result in spore(s) per meter cube.

About AIH Laboratory

AIH Laboratory is renowned laboratory located in Anaheim, CA. The staff at AIH Laboratory is recognized by State, Federal agencies and International Accrediting Bodies. AIH Laboratory employs sophisticated techniques, strong professional experience along with recognized testing procedures in the industry. AIH Laboratory participates in Inter-laboratory testing program with various national laboratories to ensure conformance with newly adapted technologies, research and methodologies. The samples received by AIH Laboratory are processed under strict quality control procedures to avoid any discrepancy in results. The data generated by the laboratory from the analytical observation of the specimens is presented in a format that is easily understood by anyone with a science background. An environmental expert will accurately interpret the data and findings detailed in this report.



MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

Phone: (562) 860-2201

www.aihlab.com

Client Name: A-Tech Consulting Inc	Report Status: Final Report
Client Address: 1640 N. Batavia Street, Orange, CA 92867	AIHA EMPAT#: 203769
Project Number: 211874	Lab Batch Number: 2112850
Project Location: 700 West 11th Street, Azusa, CA 91702	Samples Received: 3
	Samples Analyzed: 3

Laboratory Sample ID:	211285001	211285002	211285003
Client Sample ID:	MA-0036	MA-0037	MA-0038
Sample Location:	Exterior	1st Floor, Classroom 4	Exterior
Comments:	<i>None</i>	<i>None</i>	<i>None</i>

Quantitative Analysis

		Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total	Raw Counts	Spores/m ³	% Total
Inside/Outside	Aspergillus/Penicillium-like	33	660	30.6	27	1080	60	29	580	43.3
	Cladosporium	56	1120	51.9	12	480	26.7	28	560	41.8
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	1	20	0.9	1	40	2.2	1	20	1.5
	Ascospores	4	80	3.7	1	40	2.2	2	40	3
	Basidiospores	7	140	6.5	1	40	2.2	3	60	4.5
	Bipolaris	-	-	-	1	40	2.2	1	20	1.5
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	-	-	-	-	-	-	-	-	-
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	5	100	4.6	2	80	4.4	-	-	-
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	1	20	1.5
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	-	-	-	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	-	-	-
	Ganoderma	2	40	1.9	-	-	-	2	40	3
Total		108	2160	100	45	1800	100	67	1340	100



MOLD AIR SAMPLE REPORT

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Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2112850

Samples Received: 3

Samples Analyzed: 3

Laboratory Sample ID:	211285001	211285002	211285003
Client Sample ID:	MA-0036	MA-0037	MA-0038
Sample Location:	Exterior	1st Floor, Classroom 4	Exterior

Sample Collection Data

Total Time:			
Flow Rate:			
Volume:	150	75	150

Qualitative Analysis

Skin Fragments- 1 to 5 (low to high):	1	2	1
Background/m3- 1 to 5 (low to high):	5	3	5
Hyphal Fragments- 1 to 5 (low to high):	1	1	1

Analyzed by: Emily Chang

Signature: 

Date: 08-11-2021

Reviewed by: Zubair Ahmed

Signature: 

Date: 08-13-2021

No accepted regulatory standards currently exist by which to assess the health risks related to mold exposure. Molds have been associated with a variety of health effects and sensitivity varies from person to person. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. High levels of background particulate can obscure spores and other particulates leading to underestimation. "-" Denotes not detected. Background levels of 4 or 5 indicate an overload of background particulates, prohibiting accurate detection and quantification. AIH Laboratory maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by AIH Laboratory. AIH Laboratory bears no responsibility for sample collection activities or analytical method limitations. Spores/m³ calculation based on volume information provided by client. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. All report format and design are copyright of AIH Laboratory 2021.

AIHA LAP, LLC Accredited Laboratory for Microbiology Laboratory ISO/IEC 17025:2005, Lab ID# 203769



MOLD AIR SAMPLE REPORT

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Report Status: Final Report

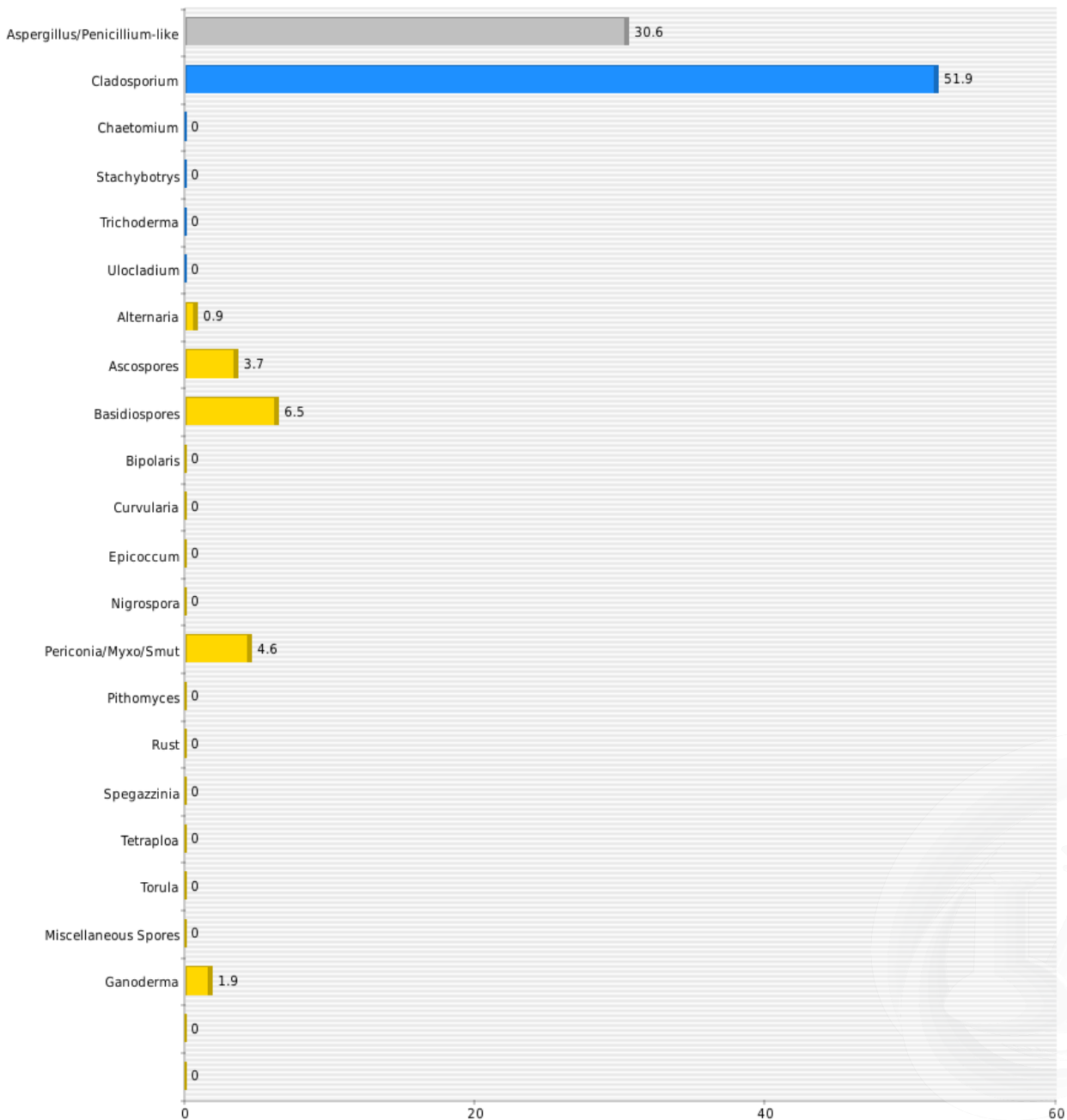
AIHA EMPAT#: 203769

Lab Batch Number: 2112850

Samples Received: 3

Samples Analyzed: 3

Exterior (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Project Number: 211874

Project Location: 700 West 11th Street, Azusa, CA 91702

Report Status: Final Report

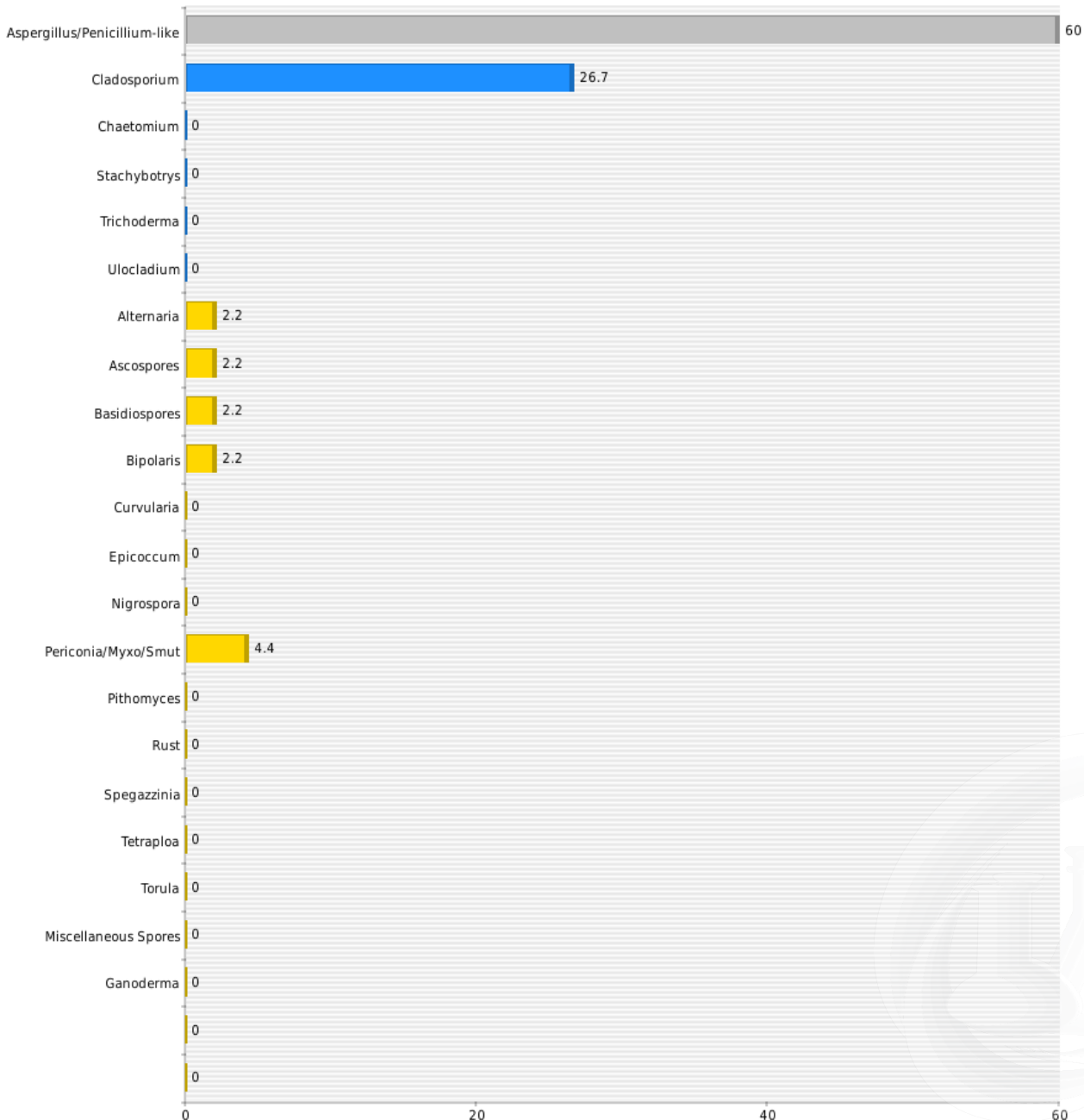
AIHA EMPAT#: 203769

Lab Batch Number: 2112850

Samples Received: 3

Samples Analyzed: 3

1st Floor, Classroom 4 (Spore Percentage)





MOLD AIR SAMPLE REPORT

Phone: (562) 860-2201
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Project Number: 211874

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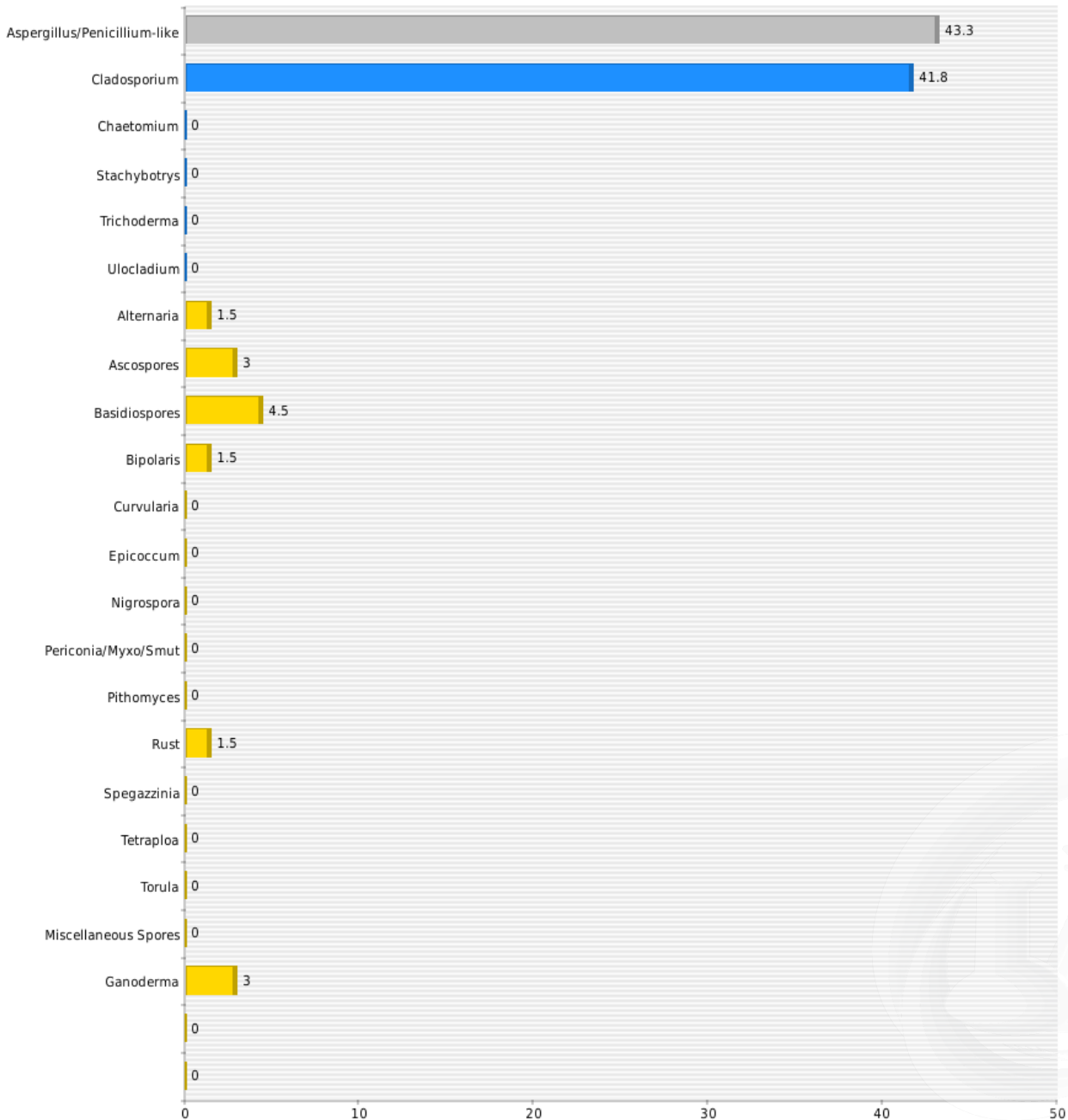
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Lab Batch Number: 2112850

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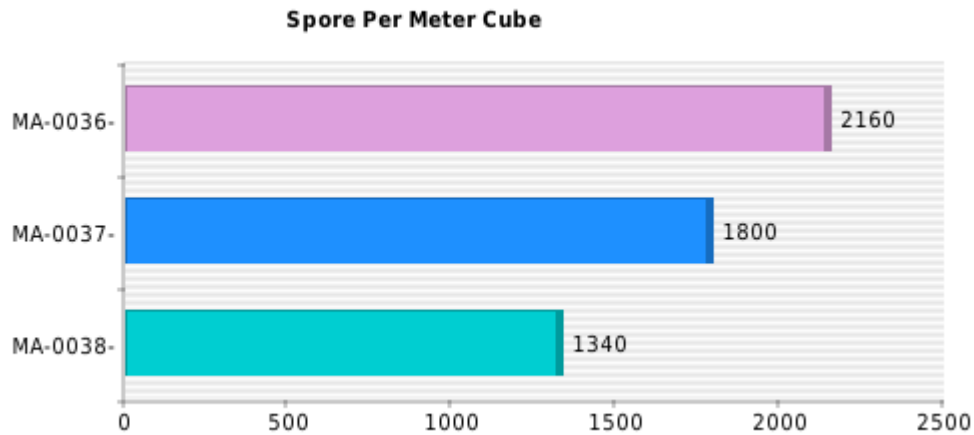
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Understanding Sampling and Laboratory Methodologies

Spore Trap Cassettes (Air Sampling media) are unique air sampling cassettes specifically designed for the rapid collection of a wide range of airborne aerosols including mold spores, pollen, insect parts, skin cell fragments, and inorganic particulate. The analytical results obtained from include both viable and non-viable spores. Some fungal groups produce similar spore types that are difficult to be distinguished only by direct microscopic examination like *Aspergillus/Penicillium*, or other identical spore. Similarly other spore types may lack distinguishing features that aid in their identification like hyphae. To avoid any confusion these types are grouped into larger categories such as Ascospores or Basidiospores.

Examination Technique:

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MOLD AIR SAMPLE CHAIN OF CUSTODY

Analysis: Non-Viable Spore Trap (Air-O-Cell)(ID Fungal Count & Genus; Direct Exam)

Turn Around Time: 72 Hour

Phone Number: (714) 434-6360

Fax Number: (714) 221-6360

Attn: Robert Williams

Results: Email to labs@atechinc.net

2112055

Project Number and Name: 211874 - Azusa USD Hodge Elementary School		Sampled By: Krizia Kolakowski	
Project Address: 700 West 11th Street		City: Azusa	State: CA
		Zip: 91702-1909	
Notes:			
Sample Date	Sample ID	Sample Location	Sample Volume (L)
7/23/2021 10:15 AM	211874-MA-0001	1st Floor, Classroom 8	75
7/23/2021 11:30 AM	211874-MA-0002	1st Floor, Classroom 13	75
7/23/2021 12:25 PM	211874-MA-0003	1st Floor, Classroom 10	75
7/23/2021 12:31 PM	211874-MA-0004	1st Floor, Classroom 11	75
7/23/2021 12:37 PM	211874-MA-0005	1st Floor, Classroom 12	75
7/23/2021 2:05 PM	211874-MA-0006	1st Floor, Classroom 15	75
7/23/2021 2:17 PM	211874-MA-0007	1st Floor, Classroom 17	75
7/27/2021 9:00 AM	211874-MA-0008	Exterior	150
7/27/2021 9:23 AM	211874-MA-0009	1st Floor, Classroom 6	75
7/27/2021 9:38 AM	211874-MA-0010	1st Floor, Classroom 16	75
7/27/2021 10:13 AM	211874-MA-0011	1st Floor, Classroom 1	75
7/27/2021 10:25 AM	211874-MA-0012	1st Floor, Classroom 3	75
7/27/2021 10:38 AM	211874-MA-0013	1st Floor, Classroom 5	75

Client Sample Number: 211874-MA-0001 to 211874-MA-0035

Total: 35

Relinquished By:

Date: 7/28/2021

Time: 2:33 PM

Samples Received By: Sarah Tran 87-

Date: 7/28/21

Time: 3:40pm

Relinquished By:

Date:

Time:

Samples Received By:

Date:

Time:



MOLD AIR SAMPLE CHAIN OF CUSTODY

7/27/2021 10:51 AM	211874-MA-0014	1st Floor, Classroom 4	75
7/27/2021 10:57 AM	211874-MA-0015	Exterior	150
7/28/2021 7:24 AM	211874-MA-0016	Exterior	150
7/28/2021 7:33 AM	211874-MA-0017	1st Floor, Classroom 2	75
7/28/2021 7:52 AM	211874-MA-0018	1st Floor, Classroom 14	75
7/28/2021 8:07 AM	211874-MA-0019	1st Floor, Classroom 7	75
7/28/2021 8:23 AM	211874-MA-0020	1st Floor, Classroom 9	75
7/28/2021 8:34 AM	211874-MA-0021	1st Floor, Classroom 23	75
7/28/2021 8:49 AM	211874-MA-0022	1st Floor, Classroom 25	75
7/28/2021 9:08 AM	211874-MA-0023	1st Floor, Classroom 26	75
7/28/2021 9:26 AM	211874-MA-0024	1st Floor, Classroom 28	75
7/28/2021 9:38 AM	211874-MA-0025	1st Floor, Computer Lab	75
7/28/2021 9:52 AM	211874-MA-0026	1st Floor, Library	75
7/28/2021 10:33 AM	211874-MA-0027	1st Floor, Classroom 29	75
7/28/2021 10:44 AM	211874-MA-0028	1st Floor, Classroom 22	75
7/28/2021 10:56 AM	211874-MA-0029	1st Floor, Classroom 21	75
7/28/2021 11:17 AM	211874-MA-0030	1st Floor, Classroom 20	75
7/28/2021 12:50 PM	211874-MA-0031	1st Floor, Classroom 19	75
7/28/2021 1:53 PM	211874-MA-0032	1st Floor, Classroom 18	75
7/28/2021 2:04 PM	211874-MA-0033	1st Floor, Classroom 24	75
7/28/2021 2:21 PM	211874-MA-0034	1st Floor, Classroom 27	75
7/28/2021 2:27 PM	211874-MA-0035	Exterior	150

Client Sample Number: 211874-MA-0001 to 211874-MA-0035

Total: 35

Relinquished By: 

Date: 7/28/2021

Time: 2:33 PM

Samples Received By: Sarah Tran 

Date: 7/28/21

Time: 3:40 pm

Relinquished By:

Date:

Time:

Samples Received By:

Date:

Time:



MOLD AIR SAMPLE CHAIN OF CUSTODY

2112850

Analysis: Non-Viable Spore Trap (Air-O-Cell)(ID Fungal Count & Genus; Direct Exam)

Turn Around Time: 72 Hour

Phone Number: (714) 434-6360

Fax Number: (714) 221-6360

Attn: Robert Williams

Results: Email to labs@atechinc.net

Project Number and Name: 211874 - Azusa USD Hodge Elementary School		Sampled By: Krizia Kolakowski	
Project Address: 700 West 11th Street		City: Azusa	State: CA
		Zip: 91702-1909	
Notes:			
Sample Date	Sample ID	Sample Location	Sample Volume (L)
8/9/2021 9:54 AM	211874-MA-0036	Exterior	150
8/9/2021 10:21 AM	211874-MA-0037	1st Floor, Classroom 4	75
8/9/2021 10:28 AM	211874-MA-0038	Exterior	

Client Sample Number: 211874-MA-0036 to 211874-MA-0038

Total: 3

Relinquished By:

Date: 8/10/2021

Time: 2:46 PM

Samples Received By: Sarah Tran

Date: 8/10/21

Time: 3:20 pm

Relinquished By:

Date:

Time:

Samples Received By:

Date:

Time:

From: Krizia Kolakowski <krizia.atech@gmail.com>
Sent: Tuesday, August 10, 2021 2:51 PM
To: pm@atechinc.net; reports@atechinc.net
Cc: AIH Lab Customer Service
Subject: Re: AIH Laboratory - 211874 Mold Air Chain Of Custody from A-Tech Consulting, Inc.

Hi,

Last exterior volume is 150.

On Tue, Aug 10, 2021 at 2:47 PM A-Tech <EnviroShare@atechinc.net> wrote:

Hello AIH Laboratory,

Please see the attached Chain of Custody for Mold Air Samples for Project 211874 to be analyzed at 72 Hour Turn Around.

A-Tech Consulting, Inc.

Office: (714) 434-6360

1640 N. Batavia Street, Orange, CA 92867

A-Tech: www.atechinc.net | A-Tech Cares: <https://www.atechinc.net/cares/>

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INSTRUMENT CALIBRATION REPORT



Advanced Labs, Inc.

A-Tech Testing

Instrument ID T75451842011
Description TSI 7545 IAQ-Calc
Calibrated 12/21/2020

Manufacturer TSI
Model Number 7545
Serial Number T75451842011
Location New Jersey
Temp 68

Classification
Status Pass
Frequency Yearly EOM
Department Lab
Humidity 25

Calibration Specifications

Group # 1 Group Name Temperature Stated Accy Plus / Minus				Range Acc % 0.0000 Reading Acc % 0.0000 Plus/Minus 0.60			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
20.00 / 17.70	°C	17.70	°C	17.80	17.70	0.00%	Pass
Group # 2 Group Name Relative Humidity Stated Accy Plus / Minus				Range Acc % 0.0000 Reading Acc % 0.0000 Plus/Minus 3.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
30.00 / 29.40	%	29.40	%	31.10	29.40	0.00%	Pass
Group # 3 Group Name Carbon Dioxide Stated Accy Pct of Reading				Range Acc % 0.0000 Reading Acc % 3.0000 Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
0.00 / 0.00	ppm	0.00	ppm	6.00	0.00	0.00%	Pass
1000.00 / 1000.00	ppm	1000.00	ppm	970.00	1,002.00	0.20%	Pass
Group # 4 Group Name Carbon Monoxide Stated Accy Pct of Reading				Range Acc % 0.0000 Reading Acc % 3.0000 Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
0.00 / 0.00	ppm	0.00	ppm	0.40	0.00	0.00%	Pass
100.00 / 100.00	ppm	100.00	ppm	67.30	100.40	0.40%	Pass
Group # 5 Group Name Barometric Pressure Stated Accy Pct of Reading				Range Acc % 0.0000 Reading Acc % 3.0000 Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
30.00 / 29.71	inHg	29.71	inHg	29.92	29.71	0.00%	Pass

INSTRUMENT CALIBRATION REPORT



Advanced Labs, Inc.

A-Tech Testing

Instrument ID T75451842011
Description TSI 7545 IAQ-Calc
Calibrated 12/21/2020

Test Instruments Used During the Calibration

<u>Test Instrument ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Serial Number</u>	<u>(As Of Cal Entry Date)</u>	
				<u>Last Cal Date</u>	<u>Next Cal Date</u>
CO/CO2_105L-375	100ppm CO, 1000ppm CO2	Specialty Gases of America, Inc.	MBI-375-2	12/1/2018	12/11/2022
MICHELL DM-509-TX-01	Relative Humidity Meter	Michell	273296	11/3/2020	11/3/2021
NITROGEN_U HP	Nitrogen 99.999%	Liquid Technology	31821	12/1/2018	12/1/2023
OMEGA HX93AC/DP25-E	Omega HX93AC/DP25-E	Omega Engineering	1010368 035025 035026	11/25/2020	11/25/2022
OMEGA PX02K1-16A5T /DP25-E-A	Omega PX02K1-16A5T/DP25-E-A	Omega Engineering	168377/8375030	11/25/2020	11/25/2022
OMEGA WT4401-D	Omega WT4401-D	Omega Engineering	101105	11/25/2020	11/25/2022
ZERO_AIR	Zero Grade Air THC <1.0 PPM	Liquid Technology	31845	3/1/2019	3/21/2023

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Kevin Cole

Advanced Labs, Inc. hereby certifies that this instrument is calibrated and functions to meet the manufacture's specifications using NIST traceable standards, or is derived from accepted values of physical constants.

INSTRUMENT CALIBRATION REPORT



Advanced Labs, Inc.

A-Tech Testing

Instrument ID CM19362009
Description Thermo PDR-1500 Aerosol Monitor
Calibrated 12/7/2020

Manufacturer Thermo
Model Number PDR-1500
Serial Number CM19362009
Location New Jersey
Temp 70

Classification
Status Pass
Frequency Yearly
Department Lab
Humidity 25

Calibration Specifications

Group # 1
Group Name Arizona Road Test Dust
Test Performed: Yes **As Found Result:** Pass **As Left Result:** Pass

Test Instruments Used During the Calibration

<u>Test Instrument ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Serial Number</u>	<u>(As Of Cal Entry Date)</u>	
				<u>Last Cal Date</u>	<u>Next Cal Date</u>
DR-4 MASTER	Thermo DataRAM-4000	Thermo	D780	3/6/2020	3/6/2021
D780	Master				

Notes about this calibration

Calibration Ratio: 1.15

Calibration Result Calibration Successful
Who Calibrated David Galego

Advanced Labs, Inc. hereby certifies that this instrument is calibrated and functions to meet the manufacture's specifications using NIST traceable standards, or is derived from accepted values of physical constants.