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LIMITED INDOOR AIR QUALITY ASSESSMENT

Dalton Elementary School

500 East 10th Street

City of Azusa
County of Los Angeles
State of California

Project Number: Atch-211872

August 10, 2021

PREPARED FOR:

Azusa Unified School District

PRIVILEGED & CONFIDENTIAL

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Cover

INDOOR AIR QUALITY

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Atch-211872
Limited Indoor Air Quality Assessment
500 East 10th Street
Azusa, California 91702

August 10, 2021

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

Attn: Mr. Brian Allen

Re: Dalton Elementary School
500 East 10th 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 Dalton Elementary School located at 500 East 10th Street, in Azusa, California. The following report summarizes the findings of this assessment.

1.0 BACKGROUND

From June 29, 2021, Industrial Hygiene Technician Michael Fernandez, 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 Dalton Elementary School regarding poor indoor air quality. These concerns were limited to the twenty-three (23) areas surveyed during this assessment: Classrooms 1 through 23.

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 May 21, 2021. 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 twenty-five (25) 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 gives 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.

2.0 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.

3.0 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 twenty-three (23) 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>
211872-I-0021	Classroom 21	84.0

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 twenty-five (25) mold air samples were obtained during this assessment, including two (2) exterior samples. It was determined that eleven (11) interior samples had 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>
211872-MA-0001	Classroom 1	<i>Aspergillus/Penicillium</i> - 760 <i>Cladosporium</i> - 1,120 Alternaria - 280 Ascospores - 200 <i>Basidiospores</i> - 320 Bipolaris - 120 Epicoccum - 80 <i>Periconia/Myxomycetes/Smuts</i> - 640 <i>Torula</i> - 40	3,560
211872-MA-0003	Classroom 3	<i>Aspergillus/Penicillium</i> - 1,640 <i>Cladosporium</i> - 1,120 Alternaria - 40 Ascospores - 160 Basidiospores - 200 Epicoccum - 80 <i>Nigrospora</i> - 40 <i>Periconia/Myxomycetes/Smuts</i> - 480	3,760
211872-MA-0005	Classroom 5	<i>Aspergillus/Penicillium</i> - 1,800 Cladosporium - 480 Ascospores - 40 Basidiospores - 160 Periconia/Myxomycetes/Smuts - 200 <i>Torula</i> - 40 Classroom 3	2,720
211872-MA-0011	Classroom 11	<i>Aspergillus/Penicillium</i> - 720 Cladosporium - 440 Basidiospores - 40 Epicoccum - 40 <i>Periconia/Myxomycetes/Smuts</i> - 480	1,280
211872-MA-0014	Classroom 14	<i>Aspergillus/Penicillium</i> - 2,040 <i>Cladosporium</i> - 7,720 Alternaria - 40 Ascospores - 200 Basidiospores - 160 Bipolaris - 40 Epicoccum - 80	10,280
211872-MA-0015	Classroom 15	Aspergillus/Penicillium - 640 <i>Cladosporium</i> - 5,680 Ascospores - 80 Basidiospores - 80 Bipolaris - 40 <i>Curvularia</i> - 40 Epicoccum - 120	6,680
211872-MA-0016	Classroom 16	Aspergillus/Penicillium - 440 <i>Cladosporium</i> - 2,400 Ascospores - 40 Basidiospores - 160 Epicoccum - 40 Periconia/Myxomycetes/Smuts - 120 Ganoderma - 40	3,280

<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>
211872-MA-0017	Classroom 17	Aspergillus/Penicillium - 800 Cladosporium - 3,040 Alternaria - 80 Ascospores - 40 Basidiospores - 80 Periconia/Myxomycetes/Smuts - 80	4,040
211872-MA-0020	Classroom 20	Aspergillus/Penicillium - 400 Cladosporium - 4,080 Alternaria - 40 Ascospores - 80 Basidiospores - 80 Epicoccum - 40 Periconia/Myxomycetes/Smuts - 80 Torula - 40	4,840
211872-MA-0021	Classroom 21	Aspergillus/Penicillium - 240 Cladosporium - 2,560 Ascospores - 160 Basidiospores - 80 Bipolaris - 40 Periconia/Myxomycetes/Smuts - 120 Cercospora - 40	3,240
211872-MA-0022	Classroom 22	Aspergillus/Penicillium - 120 Cladosporium - 3,440 Basidiospores - 80 Epicoccum - 40 Nigrospora - 40 Periconia/Myxomycetes/Smuts - 80	3,800
211872-MA-0024	Exterior	Aspergillus/Penicillium - 580 Cladosporium - 820 Alternaria - 40 Ascospores - 160 Basidiospores - 160 Bipolaris - 40 Epicoccum - 40 Periconia/Myxomycetes/Smuts - 100 Ganoderma - 0 Cercospora - 0 Torula - 0 Miscellaneous Spores - 0	1,860*
211872-MA-0025	Exterior	Aspergillus/Penicillium - 460 Cladosporium - 260 Alternaria - 20 Ascospores - 40 Basidiospores - 180 Bipolaris - 0 Epicoccum - 20 Periconia/Myxomycetes/Smuts - 80 Ganoderma - 20 Cercospora - 0 Torula - 0 Miscellaneous Spores - 0	1,100*

***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*.

Basidiospores

Basidiospores are the reproductive spores produced by *Basidiomycota* fungi (a grouping of more than 31,000 different species). *Basidiospores* are commonly found in gardens, soils, plant debris and rotting plant matter, and are often released during rainfall events or periods of high humidity. If inhaled in significant quantities, exposure to *Basidiospores* can lead to allergic reactions, respiratory tract issues, and/or chronic coughs.

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.

Cladosporium

Cladosporium is a fungal genre that can grow indoors and outdoors. *Cladosporium* is commonly found in areas with humidity, moisture, and water damage, so it is more prone to be found in wet or damp areas such as bathrooms and basements. If high levels of *Cladosporium* are present in an area, some occupants (particularly those with family histories of allergies or chronic respiratory problems) may experience allergic reactions including serious asthma attacks.

Periconia

Periconia is a common outdoor fungus commonly found on stalks of grasses, herbaceous stems, dead leaves or leaf spots. They are found on soil, blackened and dead plants, and are associated with other fungi. *Periconia* is a potential allergen associated with hay fever and asthma effects.

Smuts

Smuts are found on cereal crops, grasses, weeds, and other fungi. They are commonly associated a black powder-like substance that causes plant diseases. Exposure to *Smuts* can lead to allergies, such as hay fever and asthma.

Myxomycetes

Myxomycetes are characterized as slime molds due to wet and dry spore phases. These funguslike organisms typically grow in cool, shady, moist locations and survive on decaying wood, leaves or other organic matter that retain large amounts of moisture. Exposure to *Myxomycetes* can lead to allergies, such as hay fever and asthma.

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.

4.0 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 21

Mold

Based on this limited industrial hygiene investigation for fungal activity and analytical results, elevated airborne fungal counts were present in the following interior area(s) when compared to the exterior:

- Classroom 1
- Classroom 3
- Classroom 5
- Classroom 11
- Classroom 14
- Classroom 15
- Classroom 16
- Classroom 17
- Classroom 20
- Classroom 21
- Classroom 22

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 ranges.
- 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.
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.
 - e. In an abundance of caution and due to the widespread presence of airborne mold, further mold inspections of the HVAC system(s) at the subject site may be warranted.

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



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

Client Name: Azusa Unified School District

A-Tech Project Number: 211872

Location: Dalton Elementary School, 500 East 10th 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>
211872-I-0001	8:03 AM	8:13 AM	10	Classroom 1	422	574	433	0.5	0.2	72.3	75.1	74.1	58.2	65.3	61.3
211872-I-0002	8:18 AM	8:28 AM	10	Classroom 2	424	602	437	0.3	0.1	74.8	76.1	75.7	54.6	58.7	55.6
211872-I-0003	8:30 AM	8:40 AM	10	Classroom 3	424	502	433	0.8	0.2	74.6	75.0	74.9	60.5	61.1	60.5
211872-I-0004	8:41 AM	8:51 AM	10	Classroom 4	418	469	428	0.3	0.1	74.6	77.0	76.1	54.2	58.7	55.8
211872-I-0005	8:54 AM	9:04 AM	10	Classroom 5	435	519	440	0.5	0.1	75.5	77.7	77.0	57.7	61.1	58.9
211872-I-0006	9:06 AM	9:16 AM	10	Classroom 6	411	445	429	0.3	0.1	73.8	74.4	74.1	56.5	57.6	57.0
211872-I-0007	9:18 AM	9:28 AM	10	Classroom 7	409	460	422	0.5	0.0	73.2	73.9	73.7	62.4	63.7	62.7
211872-I-0008	9:31 AM	9:41 AM	10	Classroom 8	449	709	464	0.2	0.0	73.1	73.2	73.2	62.7	65.3	63.1



<u>Sample Number</u>	<u>Start Time</u>	<u>End Time</u>	<u>Duration (min)</u>	<u>Sample Location</u>	<u>CO2 Concentration (ppm)</u>			<u>CO Concentration (ppm)</u>		<u>Temperature (°F)</u>			<u>Humidity (%)</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>
211872-I-0009	9:46 AM	9:56 AM	10	Classroom 9	429	503	433	0.2	0.0	73.2	74.1	73.8	62.3	65.3	62.9
211872-I-0010	10:21 AM	10:31 AM	10	Classroom 10	416	438	429	0.4	0.0	74.7	75.4	75.2	59.0	61.4	59.6
211872-I-0011	10:33 AM	10:44 AM	11	Classroom 11	418	519	433	0.3	0.1	75.3	76.1	75.8	55.1	59.4	56.4
211872-I-0012	10:46 AM	10:56 AM	10	Classroom 12	405	442	424	0.2	0.0	75.3	75.5	75.3	59.1	60.0	59.6
211872-I-0013	10:57 AM	11:07 AM	10	Classroom 13	410	430	423	0.2	0.0	75.0	75.4	75.2	59.1	60.5	59.6
211872-I-0014	12:12 PM	12:22 PM	10	Classroom 14	431	533	436	0.3	0.0	74.3	80.6	78.8	54.0	57.5	55.0
211872-I-0015	12:23 PM	12:33 PM	10	Classroom 15	406	471	423	0.2	0.0	76.2	78.7	77.8	57.1	62.6	58.7
211872-I-0016	12:35 PM	12:45 PM	10	Classroom 16	411	599	428	0.2	0.0	79.3	80.4	79.9	54.8	57.3	55.6
211872-I-0017	12:46 PM	12:56 PM	10	Classroom 17	423	623	436	0.3	0.0	80.1	80.6	80.3	55.0	56.7	55.4
211872-I-0018	12:58 PM	1:08 PM	10	Classroom 18	399	426	415	0.4	0.0	74.6	77.4	75.4	46.5	61.4	54.9
211872-I-0019	1:09 PM	1:19 PM	10	Classroom 19	410	439	420	0.4	0.0	73.1	74.7	73.9	52.9	55.7	53.5

					<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>
211872-I-0020	1:21 PM	1:31 PM	10	Classroom 20	434	572	435	0.3	0.0	80.0	81.2	81.0	56.5	59.6	56.9
211872-I-0021	1:32 PM	1:42 PM	10	Classroom 21	402	498	417	0.3	0.0	83.6	84.5	84.0	52.8	56.4	53.6
211872-I-0022	1:43 PM	1:53 PM	10	Classroom 22	390	416	408	0.3	0.1	72.9	82.0	75.9	41.5	53.7	49.6
211872-I-0023	1:54 PM	2:04 PM	10	Classroom 23	409	439	413	0.4	0.0	74.5	77.5	75.4	57.9	66.5	61.8
211872-I-0024	2:05 PM	2:15 PM	10	Exterior	389	421	405	0.2	0.0	79.6	84.7	83.2	48.3	61.0	51.5

Legend:

N/A = Not Applicable



Continuous Aerosol Monitoring Measurements (ThermoScientific pDR1500)

Client Name: Azusa Unified School District

A-Tech Project Number: 211872

Location: Dalton Elementary School, 500 East 10th 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>
211872-P-0001	8:03 AM	8:13 AM	10	Classroom 1	342.6	29.8
211872-P-0002	8:18 AM	8:28 AM	10	Classroom 2	19.9	18.5
211872-P-0003	8:30 AM	8:40 AM	10	Classroom 3	33.2	29.0
211872-P-0004	8:41 AM	8:51 AM	10	Classroom 4	18.3	17.5
211872-P-0005	8:54 AM	9:04 AM	10	Classroom 5	35.4	34.3
211872-P-0006	9:06 AM	9:16 AM	10	Classroom 6	19.4	18.2
211872-P-0007	9:18 AM	9:28 AM	10	Classroom 7	13.2	29.3
211872-P-0008	9:31 AM	9:41 AM	10	Classroom 8	29.4	27.5
211872-P-0009	9:46 AM	9:56 AM	10	Classroom 9	30.5	28.8
211872-P-0010	10:21 AM	10:31 AM	10	Classroom 10	27.9	25.6



					<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>
211872-P-0011	10:33 AM	10:44 AM	11	Classroom 11	26.9	21.9
211872-P-0012	10:46 AM	10:56 AM	10	Classroom 12	31.5	28.7
211872-P-0013	10:57 AM	11:07 AM	10	Classroom 13	31.1	25.2
211872-P-0014	12:12 PM	12:22 PM	10	Classroom 14	31.3	27.5
211872-P-0015	12:23 PM	12:33 PM	10	Classroom 15	28.9	27.4
211872-P-0016	12:35 PM	12:45 PM	10	Classroom 16	28.0	26.8
211872-P-0017	12:46 PM	12:56 PM	10	Classroom 17	26.6	25.0
211872-P-0018	12:58 PM	1:08 PM	10	Classroom 18	22.3	21.5
211872-P-0019	1:09 PM	1:19 PM	10	Classroom 19	22.1	21.2
211872-P-0020	1:21 PM	1:31 PM	10	Classroom 20	28.3	27.1
211872-P-0021	1:32 PM	1:42 PM	10	Classroom 21	28.9	27.9
211872-P-0022	1:43 PM	1:53 PM	10	Classroom 22	20.4	19.6



					<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>
211872-P-0023	1:54 PM	2:04 PM	10	Classroom 23	19.63	18.78
211872-P-0024	2:05 PM	2:15 PM	10	Exterior	31.57	28.9

Legend:

N/A = Not Applicable



Mold Air Sample Summary

Client Name: Azusa Unified School District

A-Tech Project Number: 211872

Location: Dalton Elementary School, 500 East 10th Street

<u>Sample Number</u>	<u>Sample Date</u>	<u>Sample Time</u>	<u>Sample Location</u>	<u>Sample Description</u>	<u>Sampling Time</u>	<u>Temp.</u>	<u>Humidity</u>	<u>Prominent Mold - Genre Level (spores/m³)</u>	<u>Total Mold Spores (spores/m³)</u>
211872-MA-0001	6/29/2021	7:43 AM	Classroom 1	Background	5 Min.	74.3 °F	45.1%	Aspergillus/Penicillium - 760 Cladosporium - 1,120 Alternaria - 280 Ascospores - 200 Basidiospores - 320 Bipolaris - 120 Epicoccum - 80 Periconia/Myxomycetes/Smuts - 640 Torula - 40	3,560
211872-MA-0002	6/29/2021	7:57 AM	Classroom 2	Background	5 Min.	75.5 °F	42.3%	Aspergillus/Penicillium - 240 Cladosporium - 200 Ascospores - 40	480
211872-MA-0003	6/29/2021	8:03 AM	Classroom 3	Background	5 Min.	73.2 °F	49.9%	Aspergillus/Penicillium - 1,640 Cladosporium - 1,120 Alternaria - 40 Ascospores - 160 Basidiospores - 200 Epicoccum - 80 Nigrospora - 40 Periconia/Myxomycetes/Smuts - 480	3,760



<u>Sample Number</u>	<u>Sample Date</u>	<u>Sample Time</u>	<u>Sample Location</u>	<u>Sample Description</u>	<u>Sampling Time</u>	<u>Temp.</u>	<u>Humidity</u>	<u>Prominent Mold - Genre Level (spores/m³)</u>	<u>Total Mold Spores (spores/m³)</u>
211872-MA-0004	6/29/2021	8:18 AM	Classroom 4	Background	5 Min.	73.2 °F	44.6%	Aspergillus/Penicillium - 480 Cladosporium - 280 Ascospores - 80 Periconia/Myxomycetes/Smuts - 40	880
211872-MA-0005	6/29/2021	8:22 AM	Classroom 5	Background	5 Min.	75. °F	51.4%	Aspergillus/Penicillium - 1,800 Cladosporium - 480 Ascospores - 40 Basidiospores - 160 Periconia/Myxomycetes/Smuts - 200 Torula - 40	2,720
211872-MA-0006	6/29/2021	8:35 AM	Classroom 6	Background	5 Min.	73.2 °F	44.6%	Aspergillus/Penicillium - 280 Cladosporium - 120 Alternaria - 40 Basidiospores - 40 Periconia/Myxomycetes/Smuts - 40	520
211872-MA-0007	6/29/2021	8:45 AM	Classroom 7	Background	5 Min.	72.5 °F	50.6%	Aspergillus/Penicillium - 440 Cladosporium - 600 Ascospores - 40 Basidiospores - 160 Periconia/Myxomycetes/Smuts - 120 Ganoderma - 40	1,400
211872-MA-0008	6/29/2021	8:55 AM	Classroom 8	Background	5 Min.	72.8 °F	47.7%	Aspergillus/Penicillium - 560 Cladosporium - 520 Ascospores - 120 Basidiospores - 80	1,280



<u>Sample Number</u>	<u>Sample Date</u>	<u>Sample Time</u>	<u>Sample Location</u>	<u>Sample Description</u>	<u>Sampling Time</u>	<u>Temp.</u>	<u>Humidity</u>	<u>Prominent Mold - Genre Level (spores/m³)</u>	<u>Total Mold Spores (spores/m³)</u>
211872-MA-0009	6/29/2021	9:20 AM	Classroom 9	Background	5 Min.	73.5 °F	48.0%	Aspergillus/Penicillium - 480 Cladosporium - 480 Ascospores - 120 Periconia/Myxomycetes/Smuts - 200	1,280
211872-MA-0010	6/29/2021	10:15 AM	Classroom 10	Background	5 Min.	75. °F	45.8%	Aspergillus/Penicillium - 640 Cladosporium - 200 Alternaria - 160 Ascospores - 120 Periconia/Myxomycetes/Smuts - 160	1,280
211872-MA-0011	6/29/2021	10:27 AM	Classroom 11	Background	5 Min.	75. °F	42.9%	Aspergillus/Penicillium - 720 Cladosporium - 440 Basidiospores - 40 Epicoccum - 40 Periconia/Myxomycetes/Smuts - 480	1,280
211872-MA-0012	6/29/2021	10:34 AM	Classroom 12	Background	5 Min.	74.4 °F	46.7%	Aspergillus/Penicillium - 280 Cladosporium - 120 Ascospores - 40 Basidiospores - 200 Periconia/Myxomycetes/Smuts - 120 Miscellaneous Spores - 40	800



<u>Sample Number</u>	<u>Sample Date</u>	<u>Sample Time</u>	<u>Sample Location</u>	<u>Sample Description</u>	<u>Sampling Time</u>	<u>Temp.</u>	<u>Humidity</u>	<u>Prominent Mold - Genre Level (spores/m³)</u>	<u>Total Mold Spores (spores/m³)</u>
211872-MA-0013	6/29/2021	10:40 AM	Classroom 13	Background	5 Min.	74.4 °F	45.9%	Aspergillus/Penicillium - 400 Cladosporium - 320 Ascospores - 40 Basidiospores - 40 Periconia/Myxomycetes/Smuts - 40 Miscellaneous Spores - 40	880
211872-MA-0014	6/29/2021	12:05 PM	Classroom 14	Background	5 Min.	79.7 °F	43.5%	Aspergillus/Penicillium - 2,040 Cladosporium - 7,720 Alternaria - 40 Ascospores - 200 Basidiospores - 160 Bipolaris - 40 Epicoccum - 80	10,280
211872-MA-0015	6/29/2021	12:17 PM	Classroom 15	Background	5 Min.	78.8 °F	42.1%	Aspergillus/Penicillium - 640 Cladosporium - 5,680 Ascospores - 80 Basidiospores - 80 Bipolaris - 40 Curvularia - 40 Epicoccum - 120	6,680
211872-MA-0016	6/29/2021	12:26 PM	Classroom 16	Background	5 Min.	78.9 °F	43.1%	Aspergillus/Penicillium - 440 Cladosporium - 2,400 Ascospores - 40 Basidiospores - 160 Epicoccum - 40 Periconia/Myxomycetes/Smuts - 120 Ganoderma - 40	3,280



<u>Sample Number</u>	<u>Sample Date</u>	<u>Sample Time</u>	<u>Sample Location</u>	<u>Sample Description</u>	<u>Sampling Time</u>	<u>Temp.</u>	<u>Humidity</u>	<u>Prominent Mold - Genre Level (spores/m³)</u>	<u>Total Mold Spores (spores/m³)</u>
211872-MA-0017	6/29/2021	12:36 PM	Classroom 17	Background	5 Min.	78.8 °F	42.8%	Aspergillus/Penicillium - 800 Cladosporium - 3,040 Alternaria - 80 Ascospores - 40 Basidiospores - 80 Periconia/Myxomycetes/Smuts - 80	4,040
211872-MA-0018	6/29/2021	12:45 PM	Classroom 18	Background	5 Min.	76.4 °F	40.4%	Aspergillus/Penicillium - 200 Cladosporium - 800 Basidiospores - 120 Periconia/Myxomycetes/Smuts - 80 Ganoderma - 40	1,240
211872-MA-0019	6/29/2021	12:52 PM	Classroom 19	Background	5 Min.	76.4 °F	39.2%	Aspergillus/Penicillium - 400 Cladosporium - 120 Alternaria - 40 Ascospores - 40 Basidiospores - 40 Miscellaneous Spores - 40	680
211872-MA-0020	6/29/2021	1:06 PM	Classroom 20	Background	5 Min.	80.7 °F	42.9%	Aspergillus/Penicillium - 400 Cladosporium - 4,080 Alternaria - 40 Ascospores - 80 Basidiospores - 80 Epicoccum - 40 Periconia/Myxomycetes/Smuts - 80 Torula - 40	4,840



<u>Sample Number</u>	<u>Sample Date</u>	<u>Sample Time</u>	<u>Sample Location</u>	<u>Sample Description</u>	<u>Sampling Time</u>	<u>Temp.</u>	<u>Humidity</u>	<u>Prominent Mold - Genre Level (spores/m³)</u>	<u>Total Mold Spores (spores/m³)</u>
211872-MA-0021	6/29/2021	1:12 PM	Classroom 21	Background	5 Min.	83.4 °F	41.3%	Aspergillus/Penicillium - 240 Cladosporium - 2,560 Ascospores - 160 Basidiospores - 80 Bipolaris - 40 Periconia/Myxomycetes/Smuts - 120 Cercospora - 40	3,240
211872-MA-0022	6/29/2021	1:20 PM	Classroom 22	Background	5 Min.	79.1 °F	38.9%	Aspergillus/Penicillium - 120 Cladosporium - 3,440 Basidiospores - 80 Epicoccum - 40 Nigrospora - 40 Periconia/Myxomycetes/Smuts - 80	3,800
211872-MA-0023	6/29/2021	1:23 PM	Classroom 23	Background	5 Min.	76.4 °F	46.3%	Aspergillus/Penicillium - 320 Cladosporium - 400 Ascospores - 40 Basidiospores - 40 Periconia/Myxomycetes/Smuts - 40 Ganoderma - 40	920



<u>Sample Number</u>	<u>Sample Date</u>	<u>Sample Time</u>	<u>Sample Location</u>	<u>Sample Description</u>	<u>Sampling Time</u>	<u>Temp.</u>	<u>Humidity</u>	<u>Prominent Mold - Genre Level (spores/m³)</u>	<u>Total Mold Spores (spores/m³)</u>
211872-MA-0024	6/29/2021	1:40 PM	Exterior	Ambient	10 Min.	87.4 °F	34.1%	Aspergillus/Penicillium - 580 Cladosporium - 820 Alternaria - 40 Ascospores - 160 Basidiospores - 160 Bipolaris - 40 Epicoccum - 40 Periconia/Myxomycetes/Smuts - 100 Ganoderma - 0 Cercospora - 0 Torula - 0 Miscellaneous Spores - 0	1,860*
211872-MA-0025	6/29/2021	7:45 AM	Exterior	Ambient	10 Min.	72.3 °F	58.2%	Aspergillus/Penicillium - 460 Cladosporium - 260 Alternaria - 20 Ascospores - 40 Basidiospores - 180 Bipolaris - 0 Epicoccum - 20 Periconia/Myxomycetes/Smuts - 80 Ganoderma - 20 Cercospora - 0 Torula - 0 Miscellaneous Spores - 0	1,100*

*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



Digital Photographs - IAQ

Locations: Dalton Elementary School, 500 East 10th Street

Client Name: Azusa Unified School District



View of Classroom HVAC Vents



View of Classroom Interior



Dalton Elementary School

Site Drawing - Indoor Air Quality - Page 1 of 1	
Dalton Elementary School 500 East 10th Street Azusa, California 91702	
Project #: Atch-211872	Azusa Unified School District

LEGEND:
I = IAQCalc Sample Locations
P = PDR1500 Sample Locations
MA = Mold Air Sample Locations



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: 211872	Lab Batch Number: 2110514
Project Location: 151 North Fenimore Avenue, Azusa, CA 91702	Samples Received: 25
	Samples Analyzed: 25

Laboratory Sample ID:	211051401	211051402	211051403
Client Sample ID:	MA-0001	MA-0002	MA-0003
Sample Location:	Classroom 1	Classroom 2	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	19	760	21.3	6	240	50	41	1640	43.6
	Cladosporium	28	1120	31.5	5	200	41.7	28	1120	29.8
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	7	280	7.9	-	-	-	1	40	1.1
	Ascospores	5	200	5.6	1	40	8.3	4	160	4.3
	Basidiospores	8	320	9	-	-	-	5	200	5.3
	Bipolaris	3	120	3.4	-	-	-	-	-	-
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	2	80	2.2	-	-	-	2	80	2.1
	Nigrospora	-	-	-	-	-	-	1	40	1.1
	Periconia/Myxo/Smut	16	640	18	-	-	-	12	480	12.8
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	1	40	1.1	-	-	-	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	-	-	-
	Ganoderma	-	-	-	-	-	-	-	-	-
	Cercospora	-	-	-	-	-	-	-	-	-
	Oidium	-	-	-	-	-	-	-	-	-
Total		89	3560	100	12	480	100	94	3760	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: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Laboratory Sample ID:	211051401	211051402	211051403
Client Sample ID:	MA-0001	MA-0002	MA-0003
Sample Location:	Classroom 1	Classroom 2	Classroom 3

Sample Collection Data

Total Time:	5	5	5
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):	5	3	4
Hyphal Fragments- 1 to 5 (low to high):	2	1	1





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

Phone: (562) 860-2201

www.aihlaboratory.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: 211872	Lab Batch Number: 2110514
Project Location: 151 North Fenimore Avenue, Azusa, CA 91702	Samples Received: 25
	Samples Analyzed: 25

Laboratory Sample ID:	211051404	211051405	211051406
Client Sample ID:	MA-0004	MA-0005	MA-0006
Sample Location:	Classroom 4	Classroom 5	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	12	480	54.5	45	1800	66.2	7	280	53.8
	Cladosporium	7	280	31.8	12	480	17.6	3	120	23.1
Water Damage Indication	Chaetomium	-	-	-	-	-	-	1	40	7.7
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	-	-	-	-	-	-	-	-	-
	Ascospores	2	80	9.1	1	40	1.5	-	-	-
	Basidiospores	-	-	-	4	160	5.9	1	40	7.7
	Bipolaris	-	-	-	-	-	-	-	-	-
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	-	-	-	-	-	-	-	-	-
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	1	40	4.5	5	200	7.4	1	40	7.7
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	1	40	1.5	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	-	-	-
	Ganoderma	-	-	-	-	-	-	-	-	-
	Cercospora	-	-	-	-	-	-	-	-	-
	Oidium	-	-	-	-	-	-	-	-	-
Total		22	880	100	68	2720	100	13	520	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: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Laboratory Sample ID:	211051404	211051405	211051406
Client Sample ID:	MA-0004	MA-0005	MA-0006
Sample Location:	Classroom 4	Classroom 5	Classroom 6

Sample Collection Data

Total Time:	5	5	5
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	4	3
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

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: 211872	Lab Batch Number: 2110514
Project Location: 151 North Fenimore Avenue, Azusa, CA 91702	Samples Received: 25
	Samples Analyzed: 25

Laboratory Sample ID:	211051407	211051408	211051409
Client Sample ID:	MA-0007	MA-0008	MA-0009
Sample Location:	Classroom 7	Classroom 8	Classroom 9
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	11	440	31.4	14	560	43.8	12	480	37.5
	Cladosporium	15	600	42.9	13	520	40.6	12	480	37.5
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	-	-	-	-	-	-	-	-	-
	Ascospores	1	40	2.9	3	120	9.4	-	-	-
	Basidiospores	4	160	11.4	2	80	6.3	3	120	9.4
	Bipolaris	-	-	-	-	-	-	-	-	-
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	-	-	-	-	-	-	-	-	-
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	3	120	8.6	-	-	-	5	200	15.6
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	-	-	-	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	-	-	-
	Ganoderma	1	40	2.9	-	-	-	-	-	-
	Cercospora	-	-	-	-	-	-	-	-	-
	Oidium	-	-	-	-	-	-	-	-	-
Total		35	1400	100	32	1280	100	32	1280	100



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: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Laboratory Sample ID:	211051407	211051408	211051409
Client Sample ID:	MA-0007	MA-0008	MA-0009
Sample Location:	Classroom 7	Classroom 8	Classroom 9

Sample Collection Data

Total Time:	5	5	5
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	3	3
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

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

Project Number: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Laboratory Sample ID:	211051410	211051411	211051412
Client Sample ID:	MA-0010	MA-0011	MA-0012
Sample Location:	Classroom 10	Classroom 11	Classroom 12
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	16	640	50	18	720	56.3	7	280	35
	Cladosporium	5	200	15.6	11	440	34.4	3	120	15
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	4	160	12.5	-	-	-	-	-	-
	Ascospores	3	120	9.4	-	-	-	1	40	5
	Basidiospores	-	-	-	1	40	3.1	5	200	25
	Bipolaris	-	-	-	-	-	-	-	-	-
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	-	-	-	1	40	3.1	-	-	-
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	4	160	12.5	1	40	3.1	3	120	15
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	-	-	-	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	1	40	5
	Ganoderma	-	-	-	-	-	-	-	-	-
	Cercospora	-	-	-	-	-	-	-	-	-
	Oidium	-	-	-	-	-	-	-	-	-
Total		32	1280	100	32	1280	100	20	800	100



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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: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Laboratory Sample ID:	211051410	211051411	211051412
Client Sample ID:	MA-0010	MA-0011	MA-0012
Sample Location:	Classroom 10	Classroom 11	Classroom 12

Sample Collection Data

Total Time:	5	5	5
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):	4	4	4
Hyphal Fragments- 1 to 5 (low to high):	1	2	1





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: 211872	Lab Batch Number: 2110514
Project Location: 151 North Fenimore Avenue, Azusa, CA 91702	Samples Received: 25
	Samples Analyzed: 25

Laboratory Sample ID:	211051413	211051414	211051415
Client Sample ID:	MA-0013	MA-0014	MA-0015
Sample Location:	Classroom 13	Classroom 14	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	10	400	45.5	51	2040	19.8	16	640	9.6
	Cladosporium	8	320	36.4	193	7720	75.1	142	5680	85
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	-	-	-	1	40	0.4	-	-	-
	Ascospores	1	40	4.5	5	200	1.9	2	80	1.2
	Basidiospores	1	40	4.5	4	160	1.6	2	80	1.2
	Bipolaris	-	-	-	1	40	0.4	1	40	0.6
	Curvularia	-	-	-	-	-	-	1	40	0.6
	Epicoccum	-	-	-	2	80	0.8	3	120	1.8
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	1	40	4.5	-	-	-	-	-	-
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	-	-	-	-	-	-
	Miscellaneous Spores	1	40	4.5	-	-	-	-	-	-
	Ganoderma	-	-	-	-	-	-	-	-	-
	Cercospora	-	-	-	-	-	-	-	-	-
	Oidium	-	-	-	-	-	-	-	-	-
Total		22	880	100	257	10280	100	167	6680	100



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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: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Laboratory Sample ID:	211051413	211051414	211051415
Client Sample ID:	MA-0013	MA-0014	MA-0015
Sample Location:	Classroom 13	Classroom 14	Classroom 15

Sample Collection Data

Total Time:	5	5	5
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):	3	4	4
Hyphal Fragments- 1 to 5 (low to high):	2	2	1





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: 211872	Lab Batch Number: 2110514
Project Location: 151 North Fenimore Avenue, Azusa, CA 91702	Samples Received: 25
	Samples Analyzed: 25

Laboratory Sample ID:	211051416	211051417	211051418
Client Sample ID:	MA-0016	MA-0017	MA-0018
Sample Location:	Classroom 16	Classroom 17	Classroom 18
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	11	440	13.4	20	800	19.8	5	200	16.1
	Cladosporium	60	2400	73.2	76	3040	75.2	20	800	64.5
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	-	-	-	-	-	-	-	-	-
	Ascospores	1	40	1.2	2	80	2	-	-	-
	Basidiospores	4	160	4.9	1	40	1	3	120	9.7
	Bipolaris	-	-	-	-	-	-	-	-	-
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	2	80	2.4	-	-	-	-	-	-
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	3	120	3.7	2	80	2	2	80	6.5
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	-	-	-	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	-	-	-
	Ganoderma	1	40	1.2	-	-	-	1	40	3.2
	Cercospora	-	-	-	-	-	-	-	-	-
	Oidium	-	-	-	-	-	-	-	-	-
Total		82	3280	100	101	4040	100	31	1240	100



MOLD AIR SAMPLE REPORT

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Phone:(562) 860-2201

www.aihlab.com

Client Name: A-Tech Consulting Inc

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

Project Number: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Laboratory Sample ID:	211051416	211051417	211051418
Client Sample ID:	MA-0016	MA-0017	MA-0018
Sample Location:	Classroom 16	Classroom 17	Classroom 18

Sample Collection Data

Total Time:	5	5	5
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	4	4
Hyphal Fragments- 1 to 5 (low to high):	2	1	1





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: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Laboratory Sample ID:	211051419	211051420	211051421
Client Sample ID:	MA-0019	MA-0020	MA-0021
Sample Location:	Classroom 19	Classroom 20	Classroom 21
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	58.8	10	400	8.3	6	240	7.4
	Cladosporium	3	120	17.6	102	4080	84.3	64	2560	79
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	1	40	5.9	1	40	0.8	-	-	-
	Ascospores	1	40	5.9	2	80	1.7	4	160	4.9
	Basidiospores	1	40	5.9	2	80	1.7	2	80	2.5
	Bipolaris	-	-	-	-	-	-	1	40	1.2
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	-	-	-	1	40	0.8	-	-	-
	Nigrospora	-	-	-	-	-	-	-	-	-
	Periconia/Myxo/Smut	-	-	-	2	80	1.7	3	120	3.7
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	1	40	0.8	-	-	-
	Miscellaneous Spores	1	40	5.9	-	-	-	-	-	-
	Ganoderma	-	-	-	-	-	-	-	-	-
	Cercospora	-	-	-	-	-	-	1	40	1.2
	Oidium	-	-	-	-	-	-	-	-	-
Total		17	680	100	121	4840	100	81	3240	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: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Laboratory Sample ID:	211051419	211051420	211051421
Client Sample ID:	MA-0019	MA-0020	MA-0021
Sample Location:	Classroom 19	Classroom 20	Classroom 21

Sample Collection Data

Total Time:	5	5	5
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	4	4
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

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: 211872	Lab Batch Number: 2110514
Project Location: 151 North Fenimore Avenue, Azusa, CA 91702	Samples Received: 25
	Samples Analyzed: 25

Laboratory Sample ID:	211051422	211051423	211051424
Client Sample ID:	MA-0022	MA-0023	MA-0024
Sample Location:	Classroom 22	Classroom 23	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	3	120	3.2	8	320	34.8	29	580	31.2
	Cladosporium	86	3440	90.5	10	400	43.5	41	820	44.1
Water Damage Indication	Chaetomium	-	-	-	-	-	-	-	-	-
	Stachybotrys	-	-	-	-	-	-	-	-	-
	Trichoderma	-	-	-	-	-	-	-	-	-
	Ulocladium	-	-	-	-	-	-	-	-	-
Outdoor Environment	Alternaria	-	-	-	-	-	-	2	40	2.2
	Ascospores	-	-	-	1	40	4.3	8	160	8.6
	Basidiospores	2	80	2.1	1	40	4.3	3	60	3.2
	Bipolaris	-	-	-	1	40	4.3	2	40	2.2
	Curvularia	-	-	-	-	-	-	-	-	-
	Epicoccum	1	40	1.1	-	-	-	2	40	2.2
	Nigrospora	1	40	1.1	-	-	-	-	-	-
	Periconia/Myxo/Smut	2	80	2.1	1	40	4.3	5	100	5.4
	Pithomyces	-	-	-	-	-	-	-	-	-
	Rust	-	-	-	-	-	-	-	-	-
	Spegazzinia	-	-	-	-	-	-	-	-	-
	Tetraploa	-	-	-	-	-	-	-	-	-
	Torula	-	-	-	-	-	-	-	-	-
	Miscellaneous Spores	-	-	-	-	-	-	-	-	-
	Ganoderma	-	-	-	1	40	4.3	-	-	-
	Cercospora	-	-	-	-	-	-	-	-	-
	Oidium	-	-	-	-	-	-	1	20	1.1
	Total	95	3800	100	23	920	100	93	1860	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: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Laboratory Sample ID:	211051422	211051423	211051424
Client Sample ID:	MA-0022	MA-0023	MA-0024
Sample Location:	Classroom 22	Classroom 23	Exterior

Sample Collection Data

Total Time:	5	5	10
Flow Rate:			
Volume:	75	75	150

Qualitative Analysis

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

www.aihlab.com

Client Name: A-Tech Consulting Inc

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

Project Number: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Laboratory Sample ID:	211051425	XXXXXXXX	XXXXXXXX
Client Sample ID:	MA-0025	XXXXXXXX	XXXXXXXX
Sample Location:	Exterior	XXXXXXXX	XXXXXXXX
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	23	460	41.8						
	Cladosporium	13	260	23.6						
Water Damage Indication	Chaetomium	-	-	-						
	Stachybotrys	-	-	-						
	Trichoderma	-	-	-						
	Ulocladium	-	-	-						
Outdoor Environment	Alternaria	1	20	1.8						
	Ascospores	2	40	3.6						
	Basidiospores	9	180	16.4						
	Bipolaris	-	-	-						
	Curvularia	-	-	-						
	Epicoccum	1	20	1.8						
	Nigrospora	1	20	1.8						
	Periconia/Myxo/Smut	4	80	7.3						
	Pithomyces	-	-	-						
	Rust	-	-	-						
	Spegazzinia	-	-	-						
	Tetraploa	-	-	-						
	Torula	-	-	-						
	Miscellaneous Spores	-	-	-						
	Ganoderma	1	20	1.8						
	Cercospora	-	-	-						
	Oidium	-	-	-						
Total		55	1100	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: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Laboratory Sample ID:	211051425	XXXXXXXX	XXXXXXXX
Client Sample ID:	MA-0025	XXXXXXXX	XXXXXXXX
Sample Location:	Exterior	XXXXXXXX	XXXXXXXX

Sample Collection Data

Total Time:	10		
Flow Rate:			
Volume:	150		

Qualitative Analysis

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

Analyzed by: Emily Chang

Signature: 

Date: 07-07-2021

Reviewed by: Zubair Ahmed

Signature: 

Date: 07-08-2021

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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Report Status: Final Report

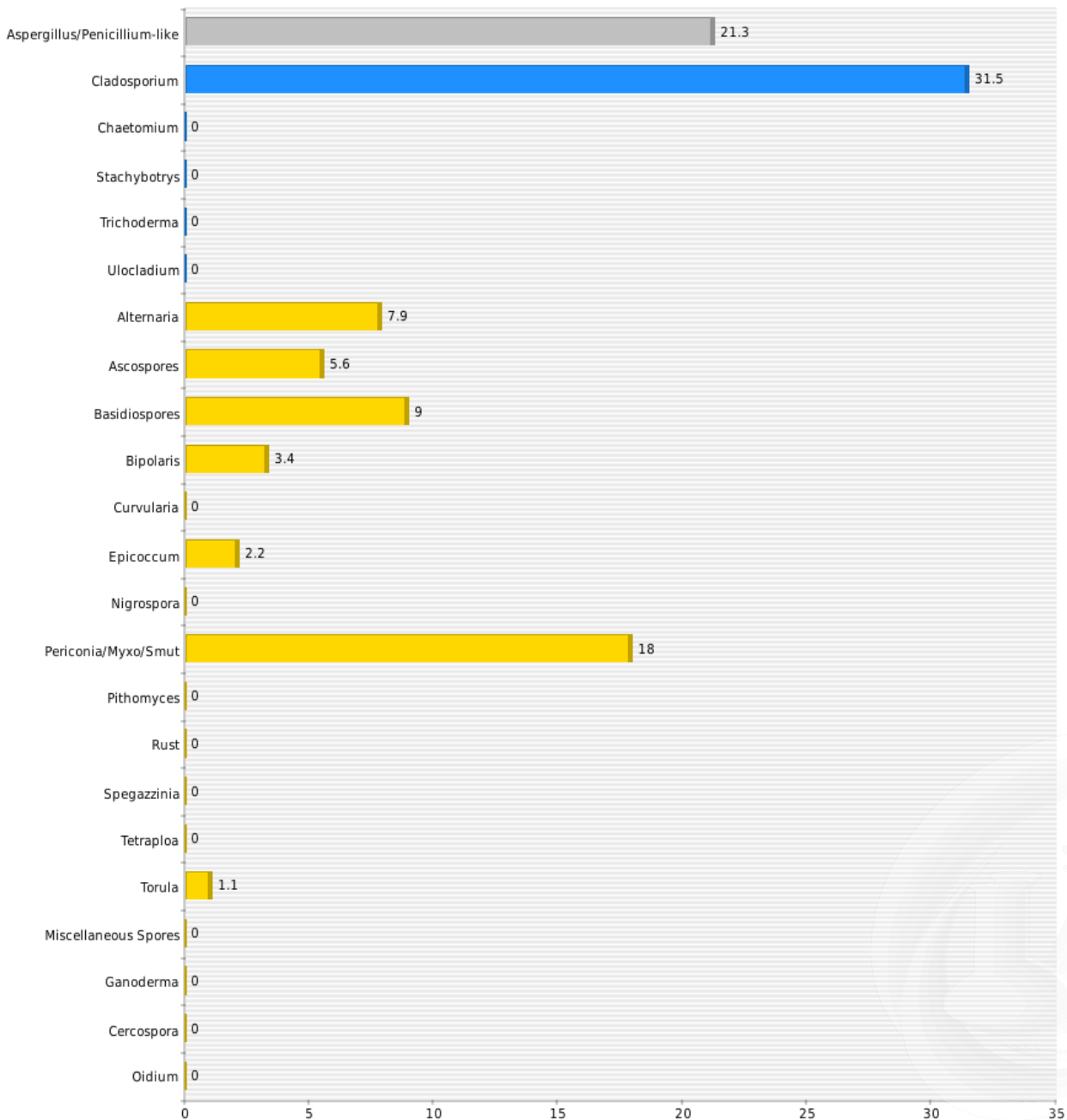
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 1 (Spore Percentage)





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Report Status: Final Report

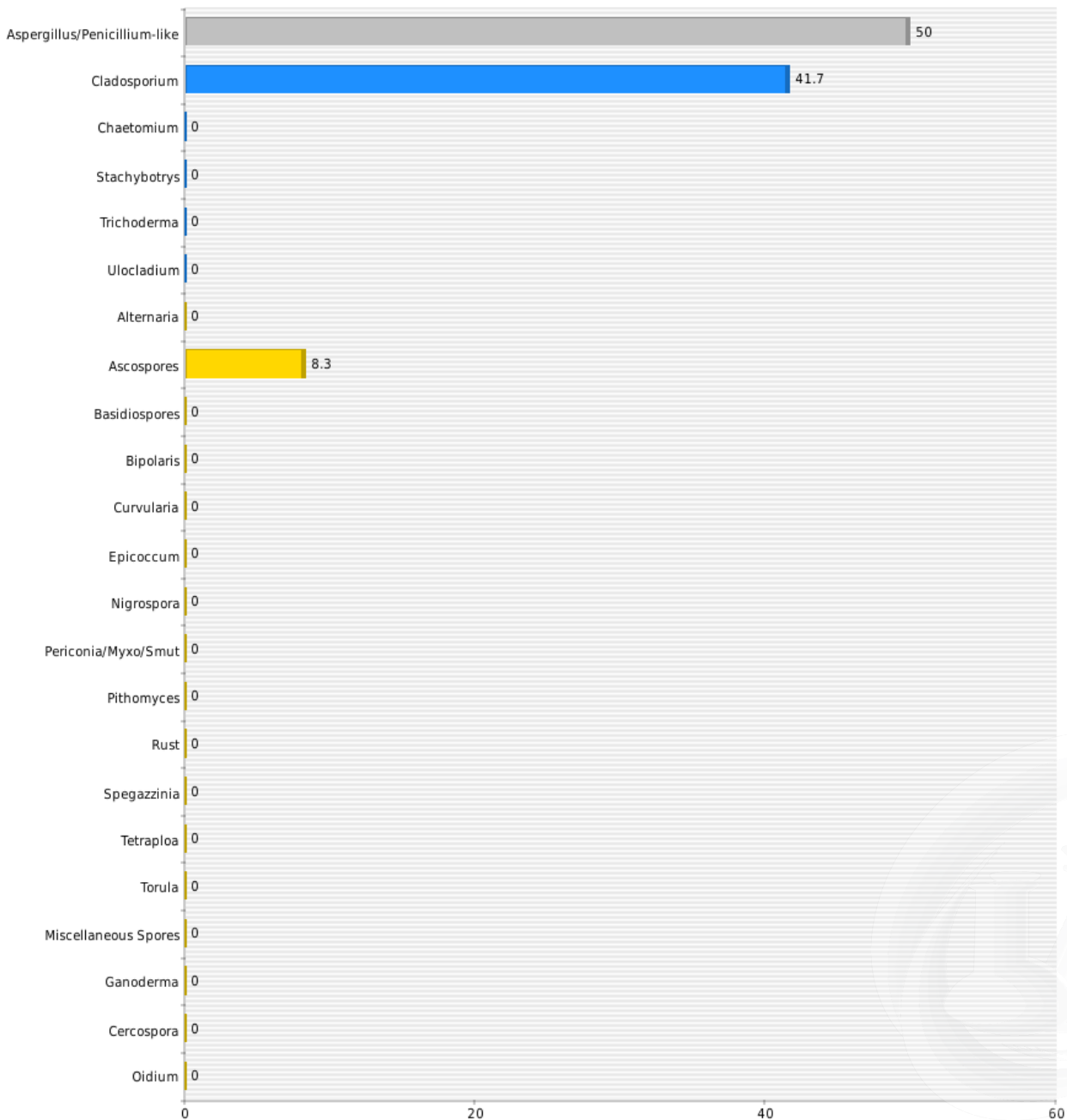
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 2 (Spore Percentage)





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Project Number: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

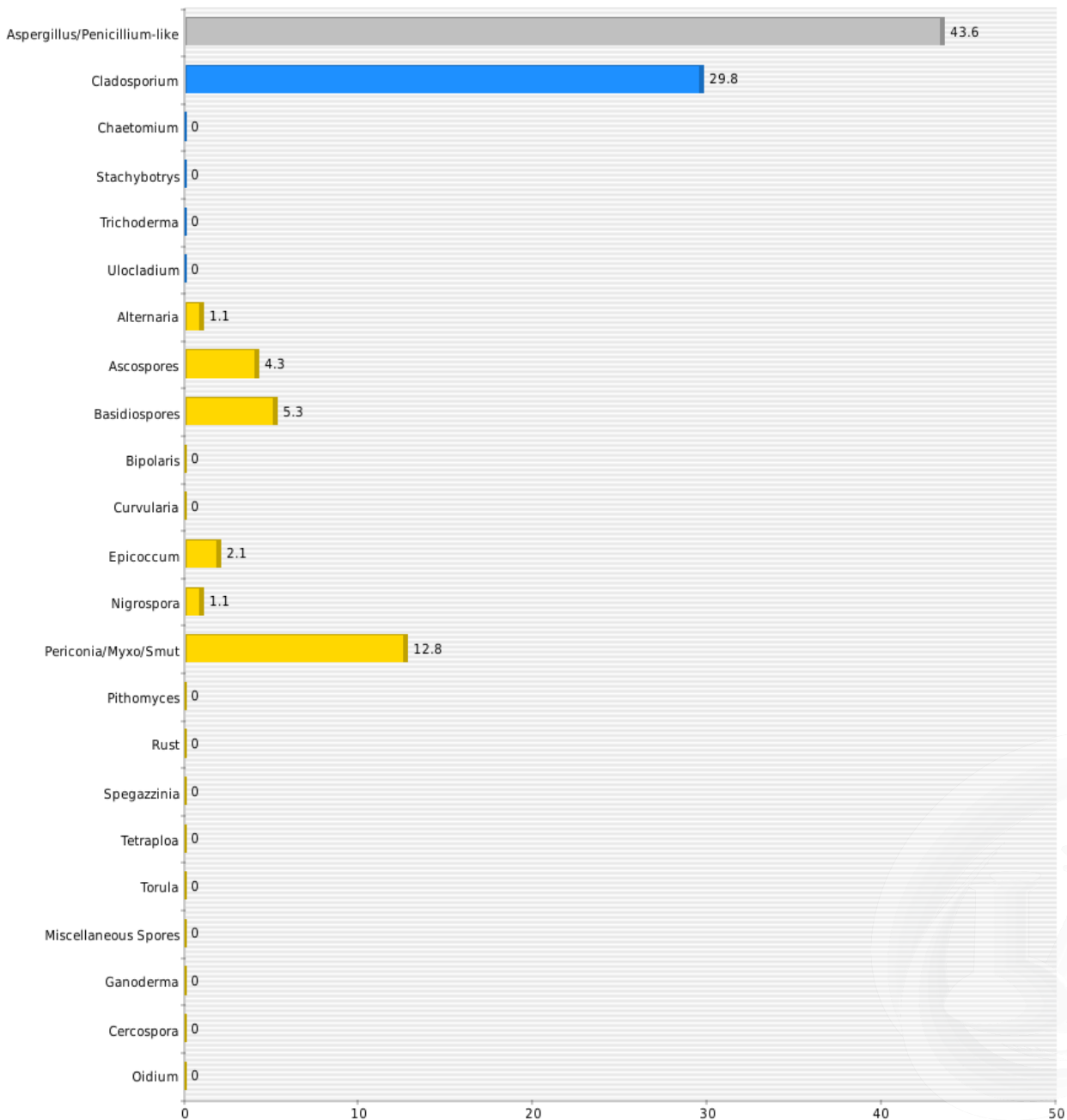
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 3 (Spore Percentage)





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Project Number: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

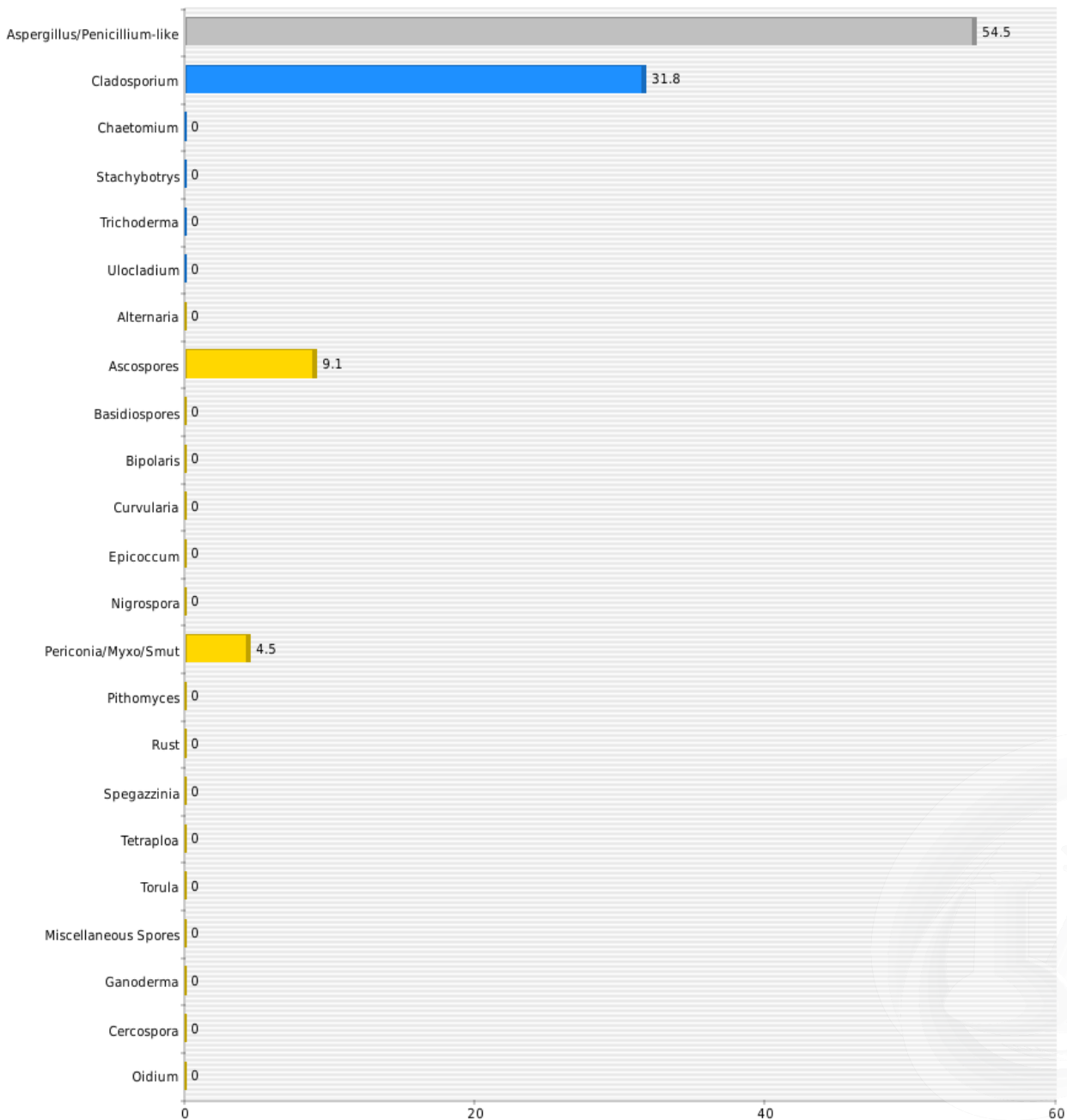
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 4 (Spore Percentage)





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Project Number: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

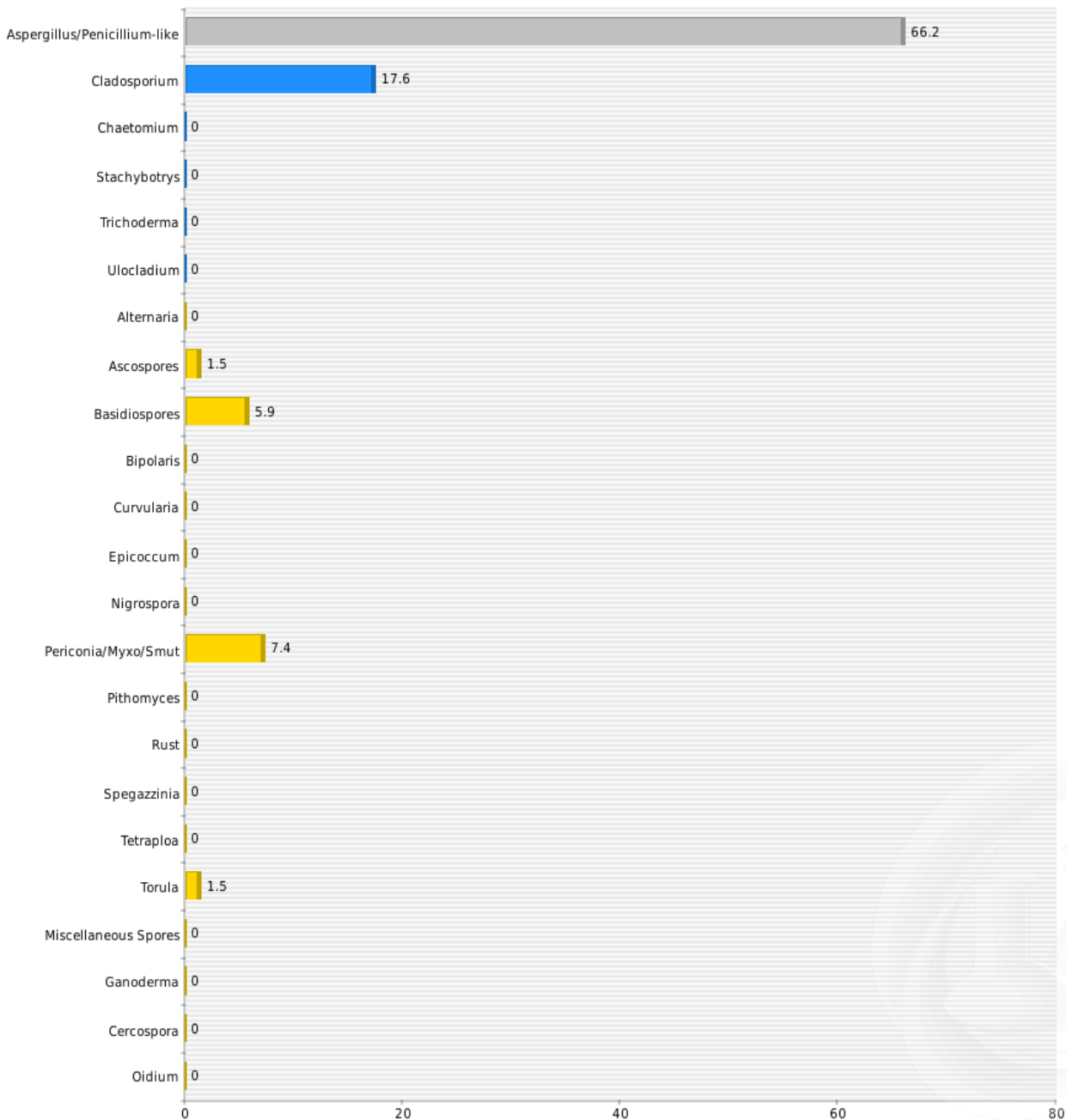
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 5 (Spore Percentage)





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Project Number: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

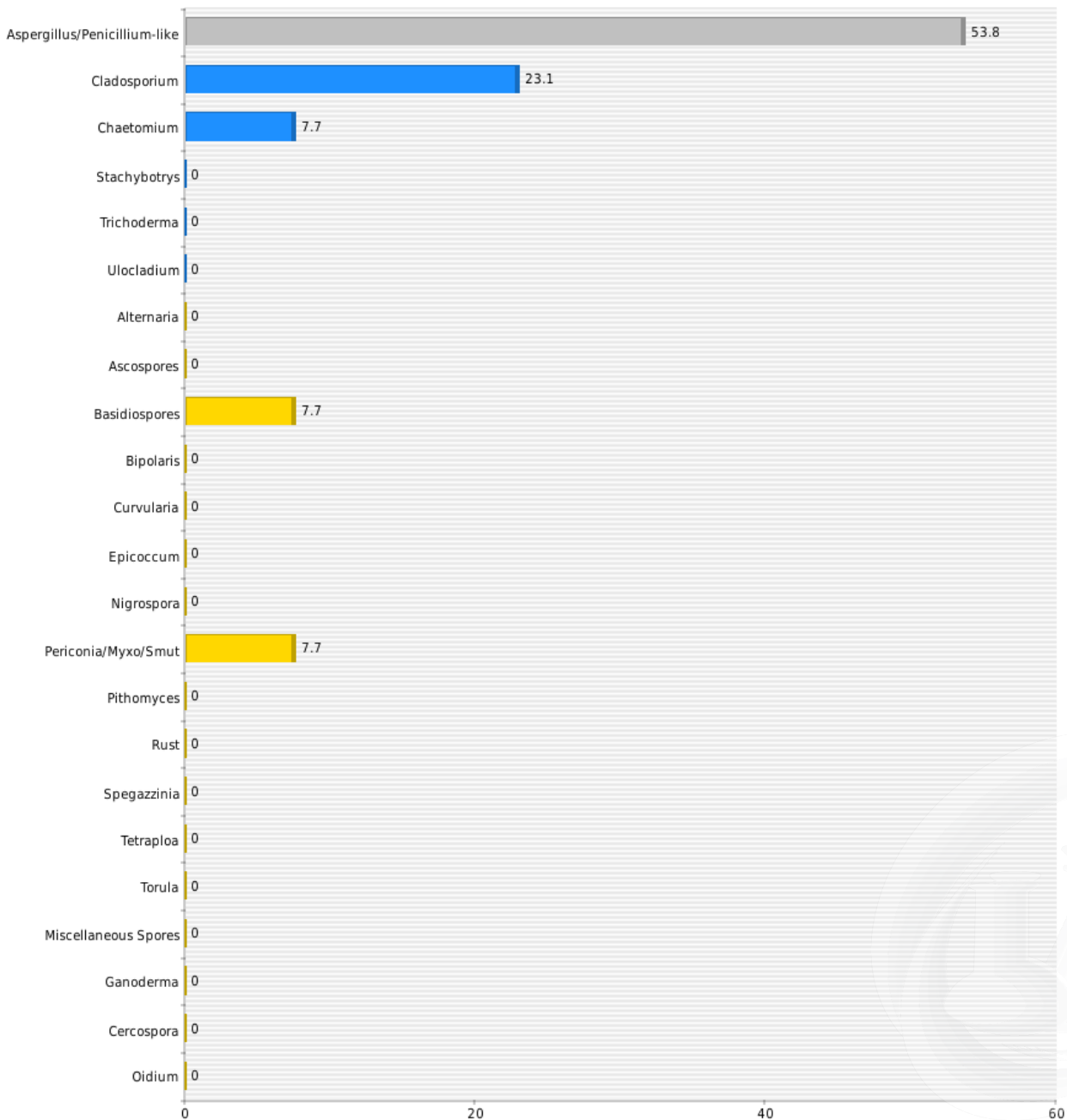
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 6 (Spore Percentage)





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Phone: (562) 860-2201
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Project Number: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

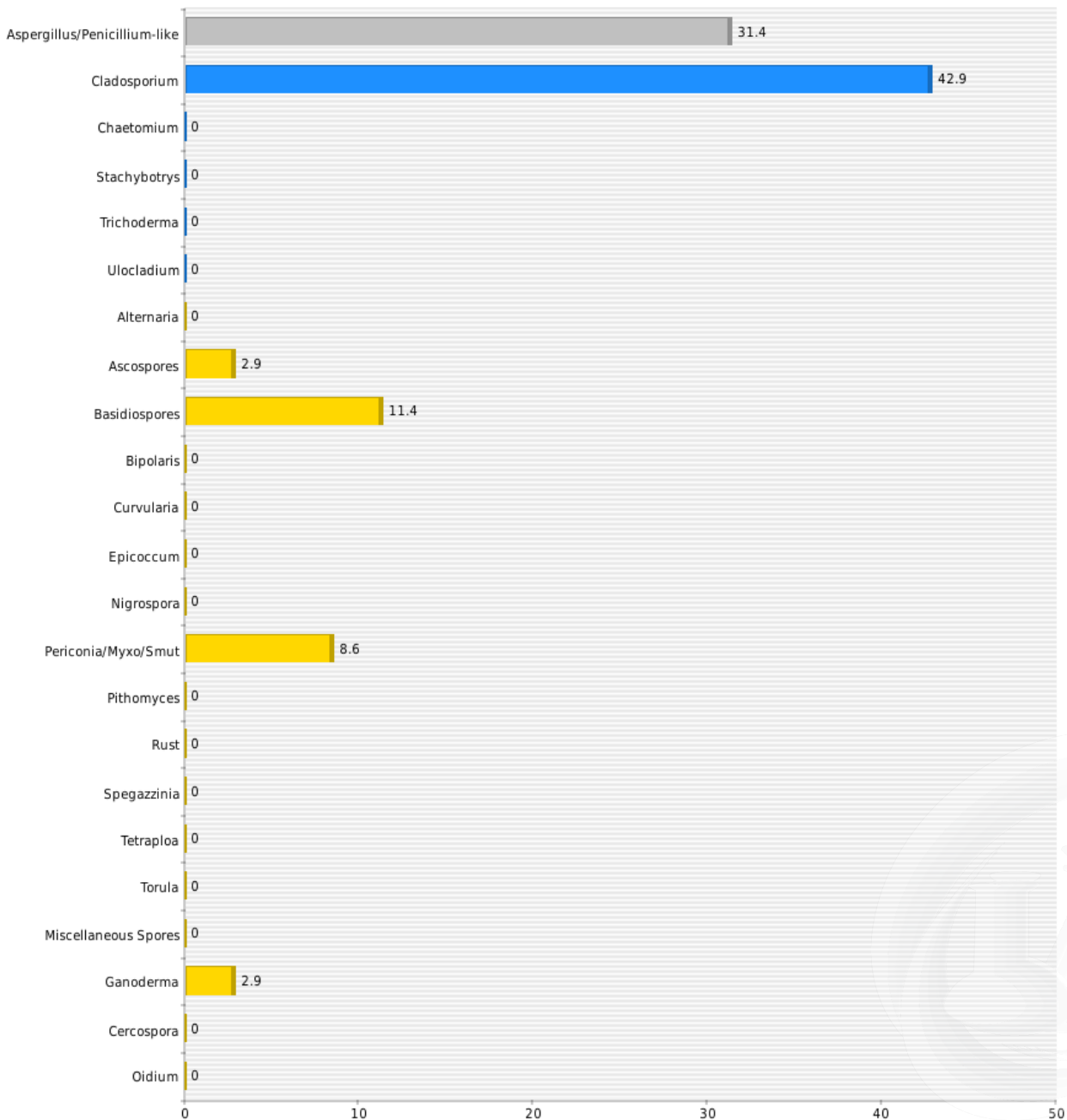
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 7 (Spore Percentage)





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Report Status: Final Report

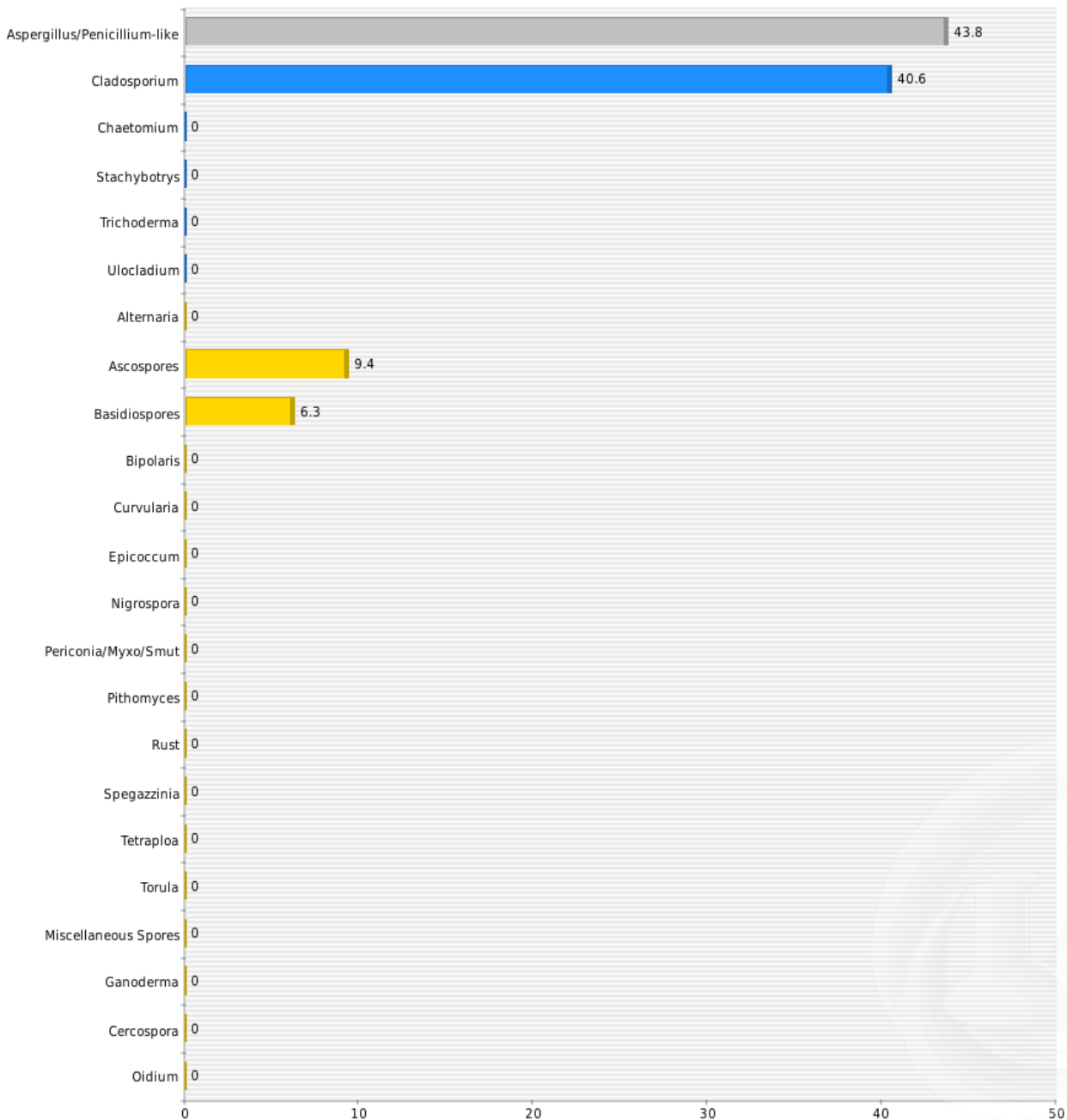
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 8 (Spore Percentage)





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Report Status: Final Report

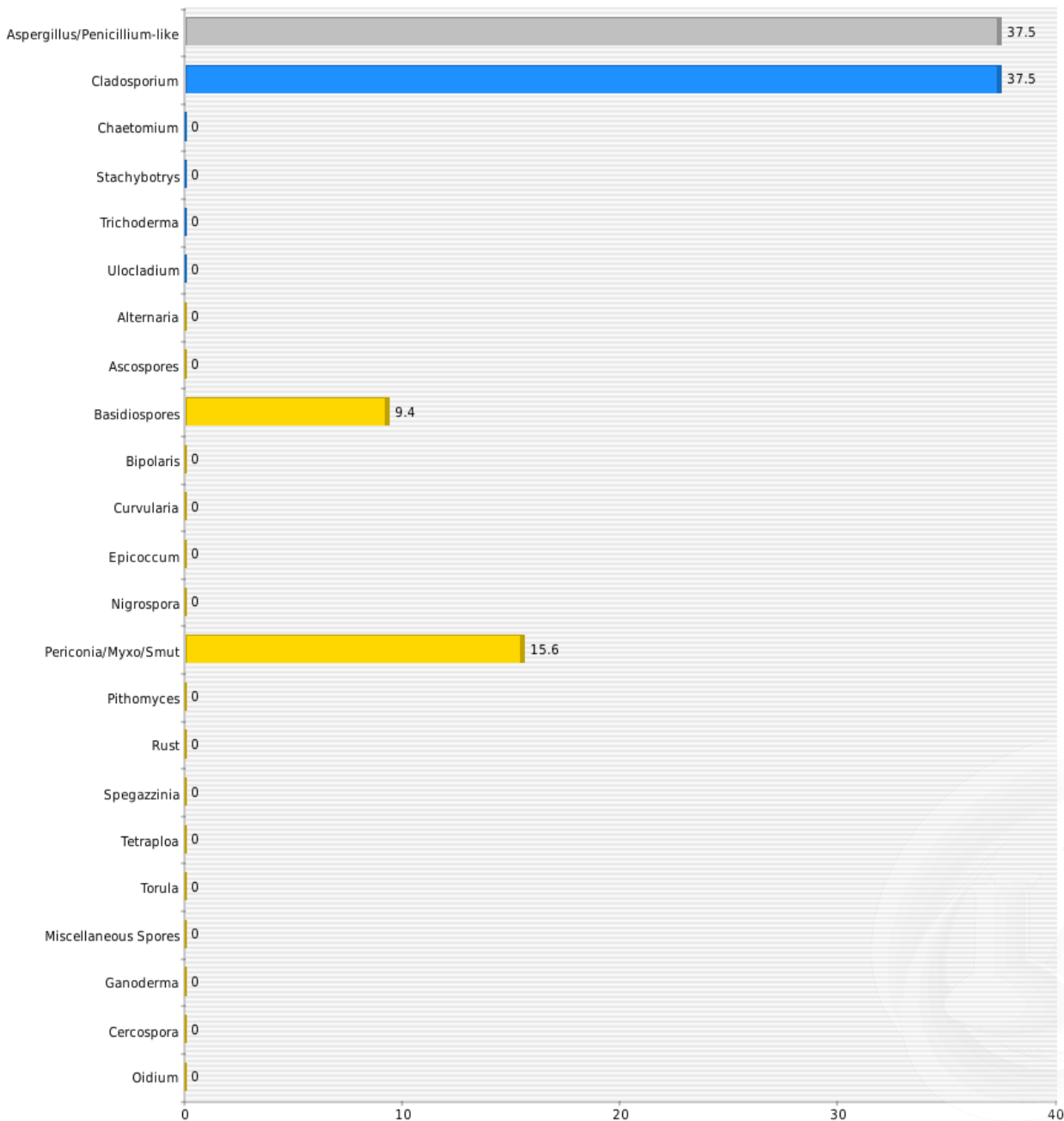
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 9 (Spore Percentage)





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Phone: (562) 860-2201
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Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

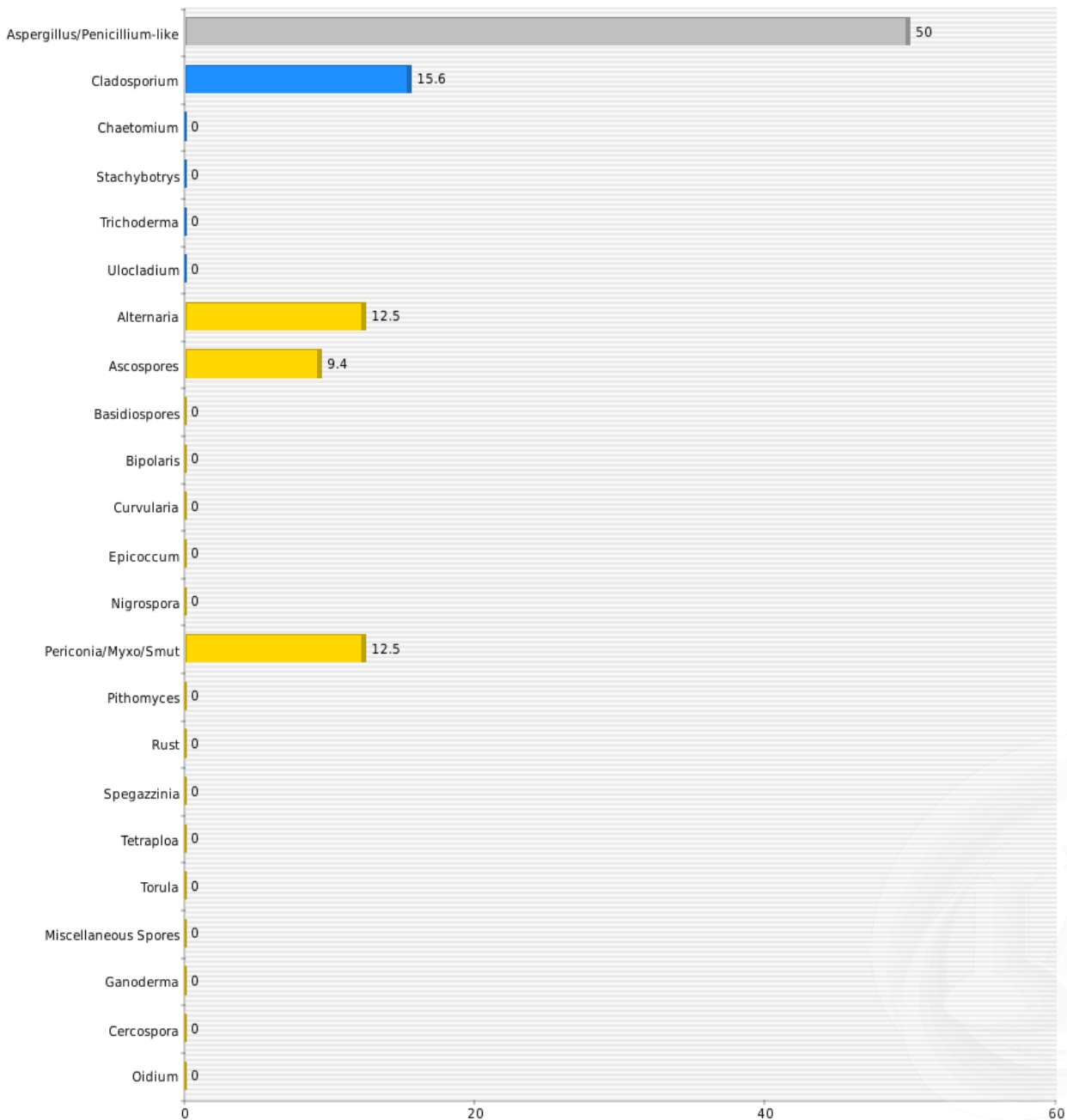
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 10 (Spore Percentage)





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Report Status: Final Report

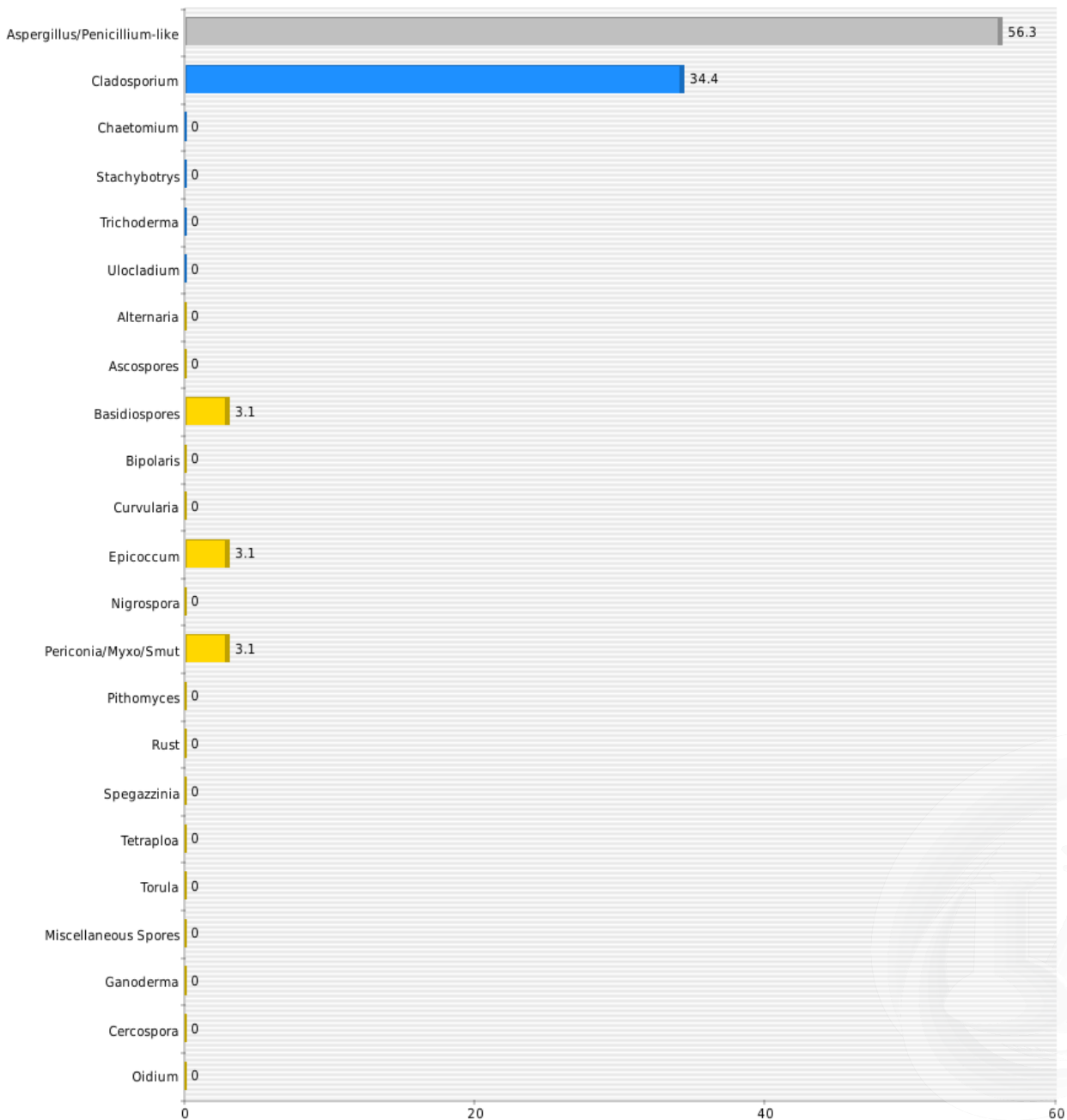
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 11 (Spore Percentage)





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Project Number: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

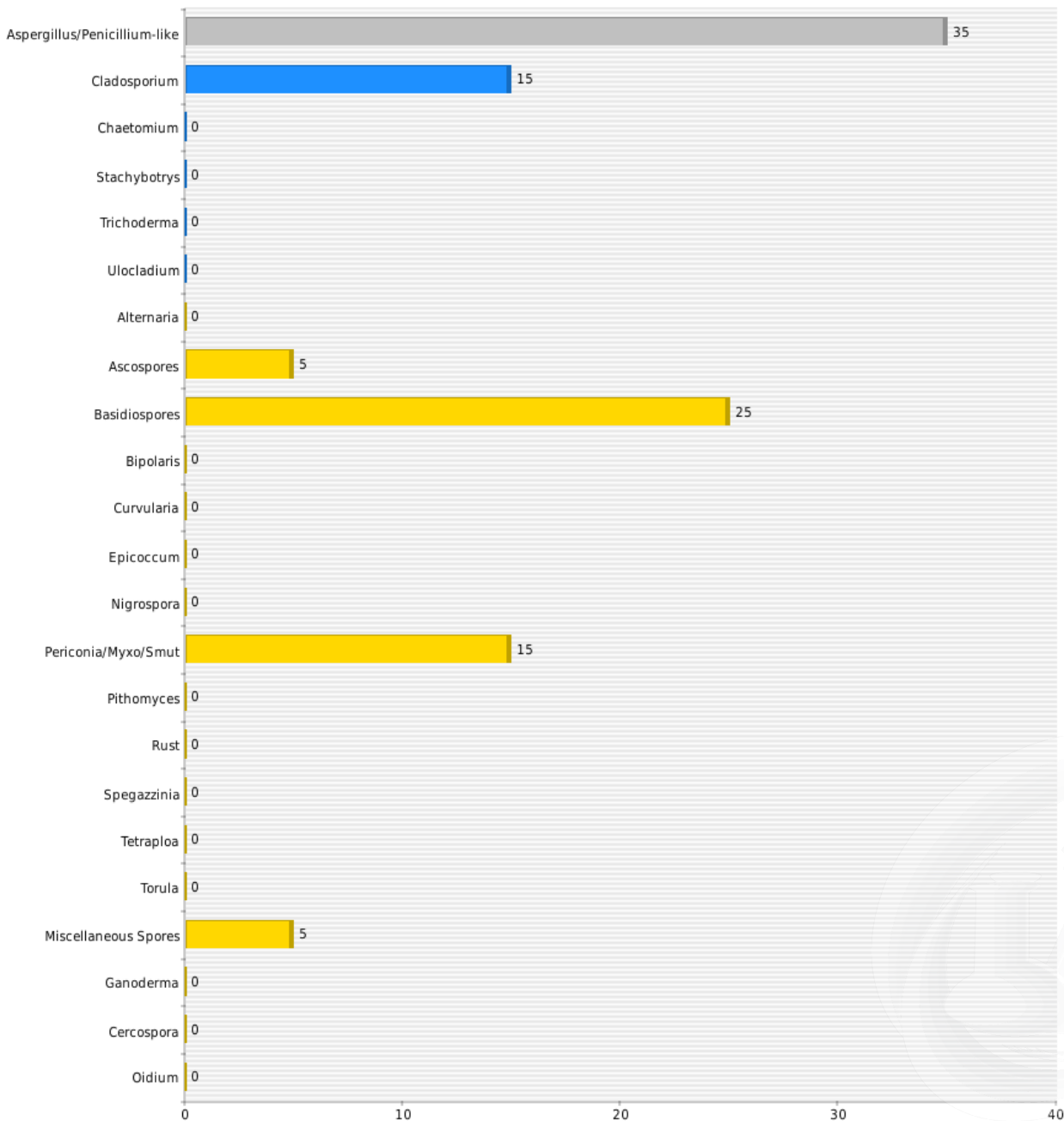
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 12 (Spore Percentage)





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Report Status: Final Report

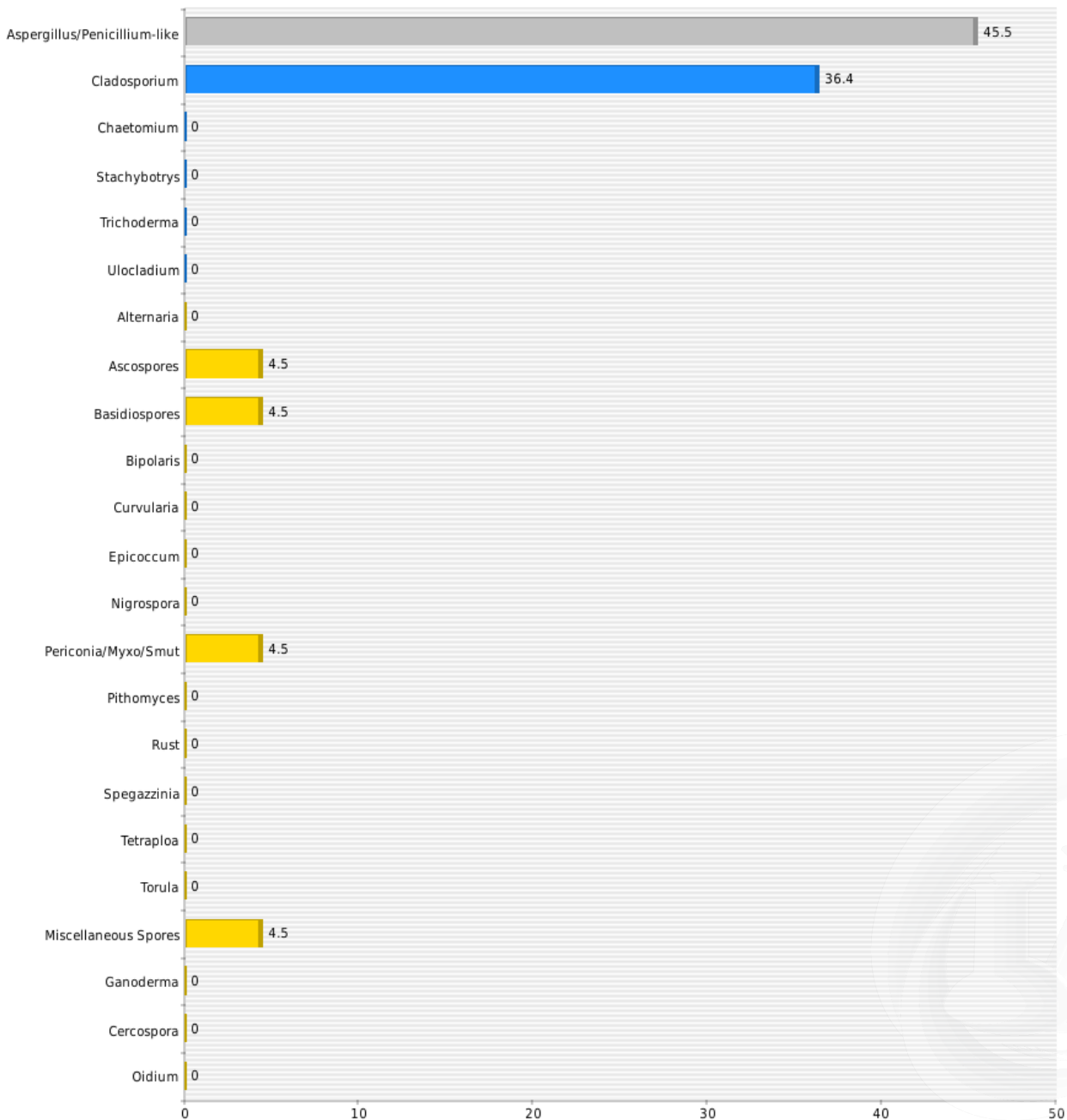
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 13 (Spore Percentage)





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Report Status: Final Report

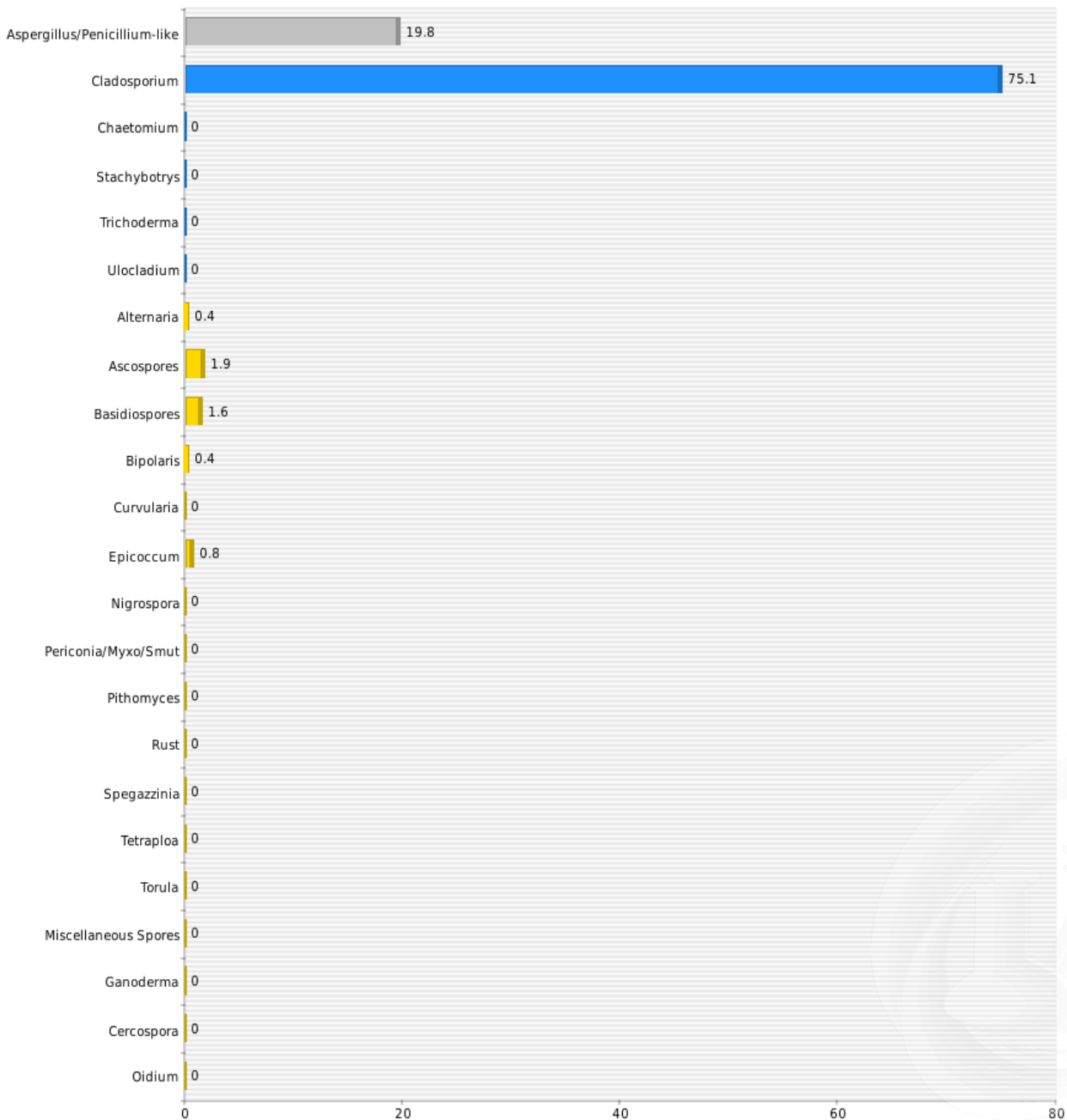
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 14 (Spore Percentage)





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Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

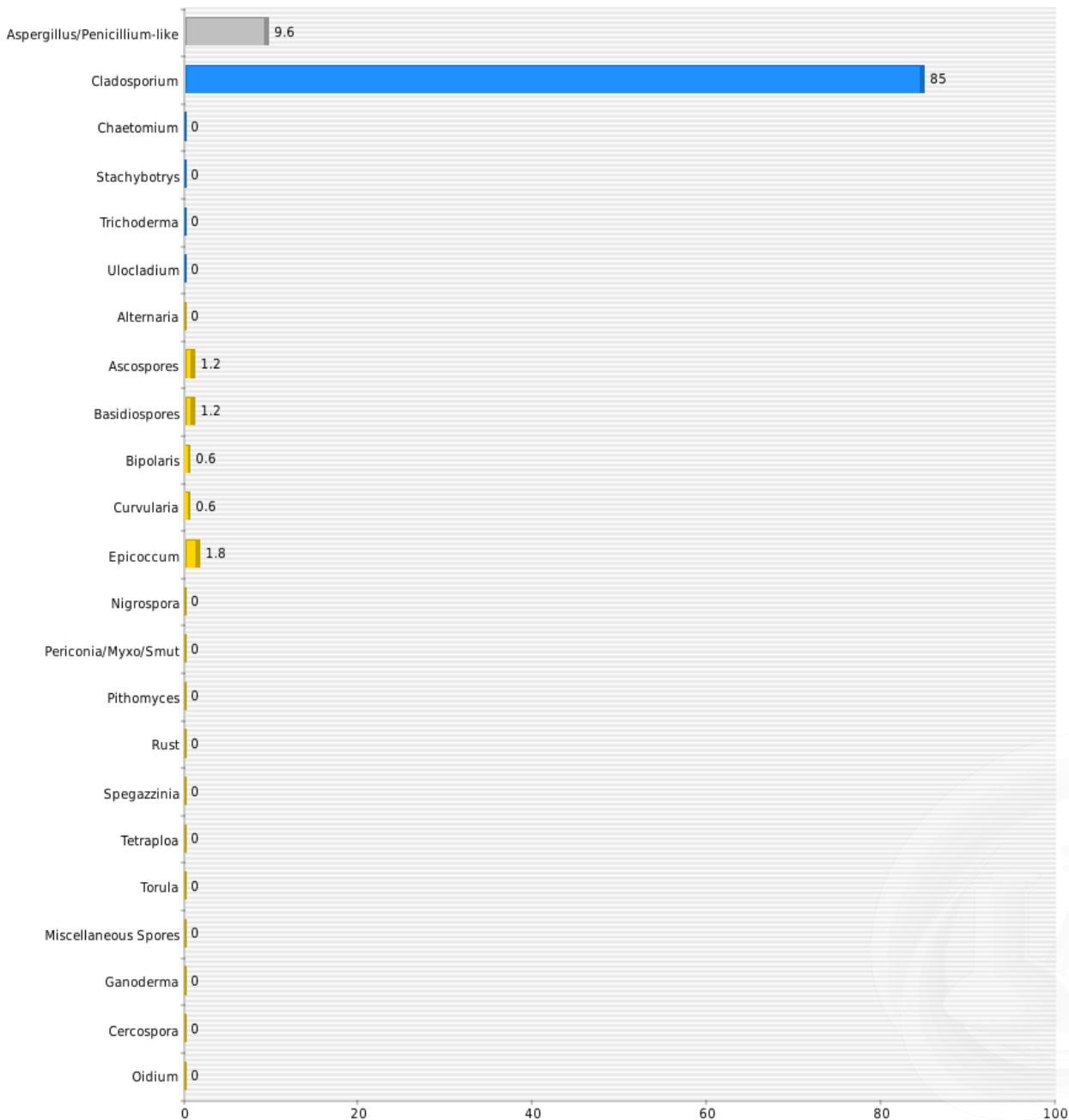
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 15 (Spore Percentage)





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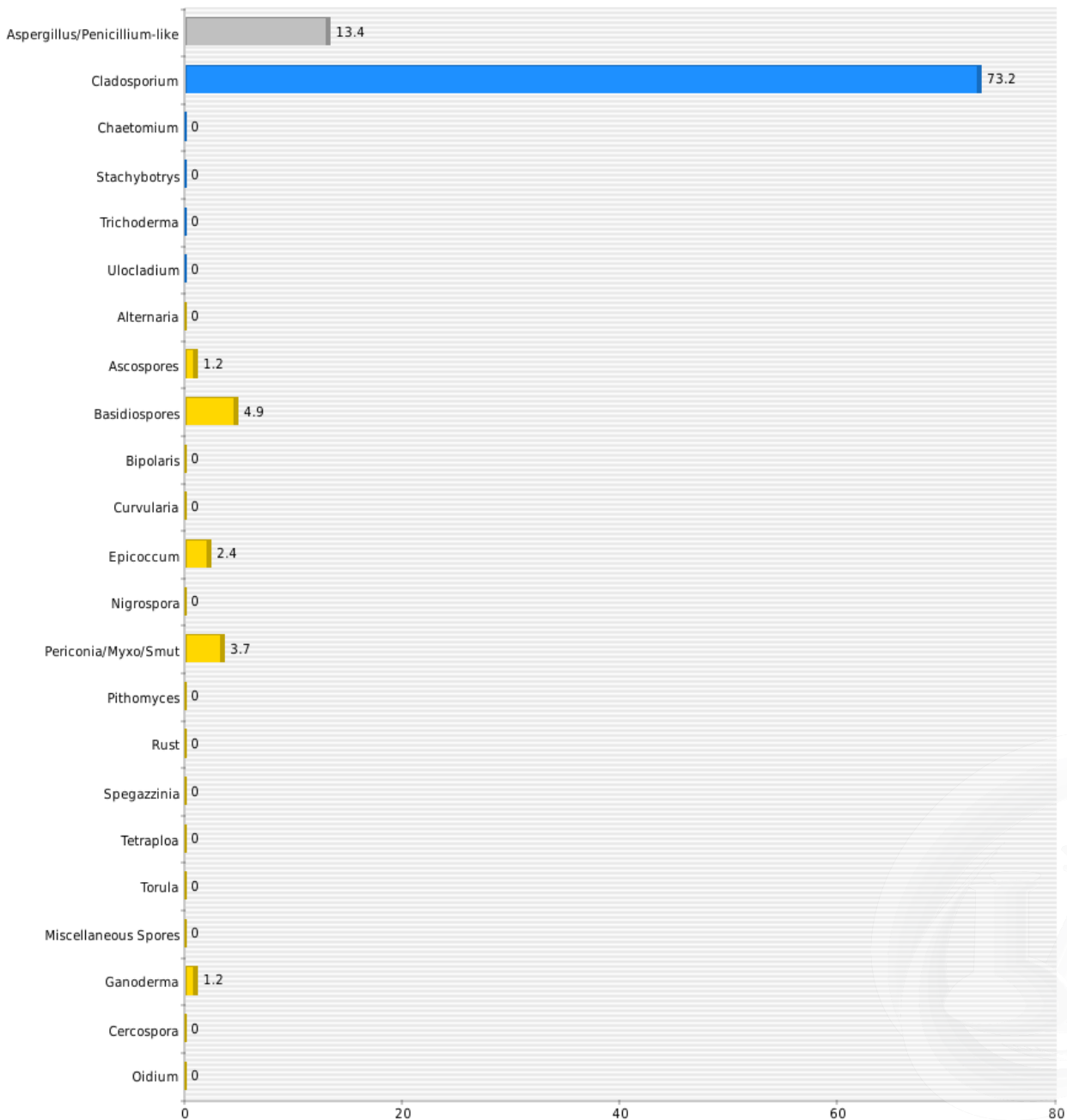
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 16 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Project Number: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

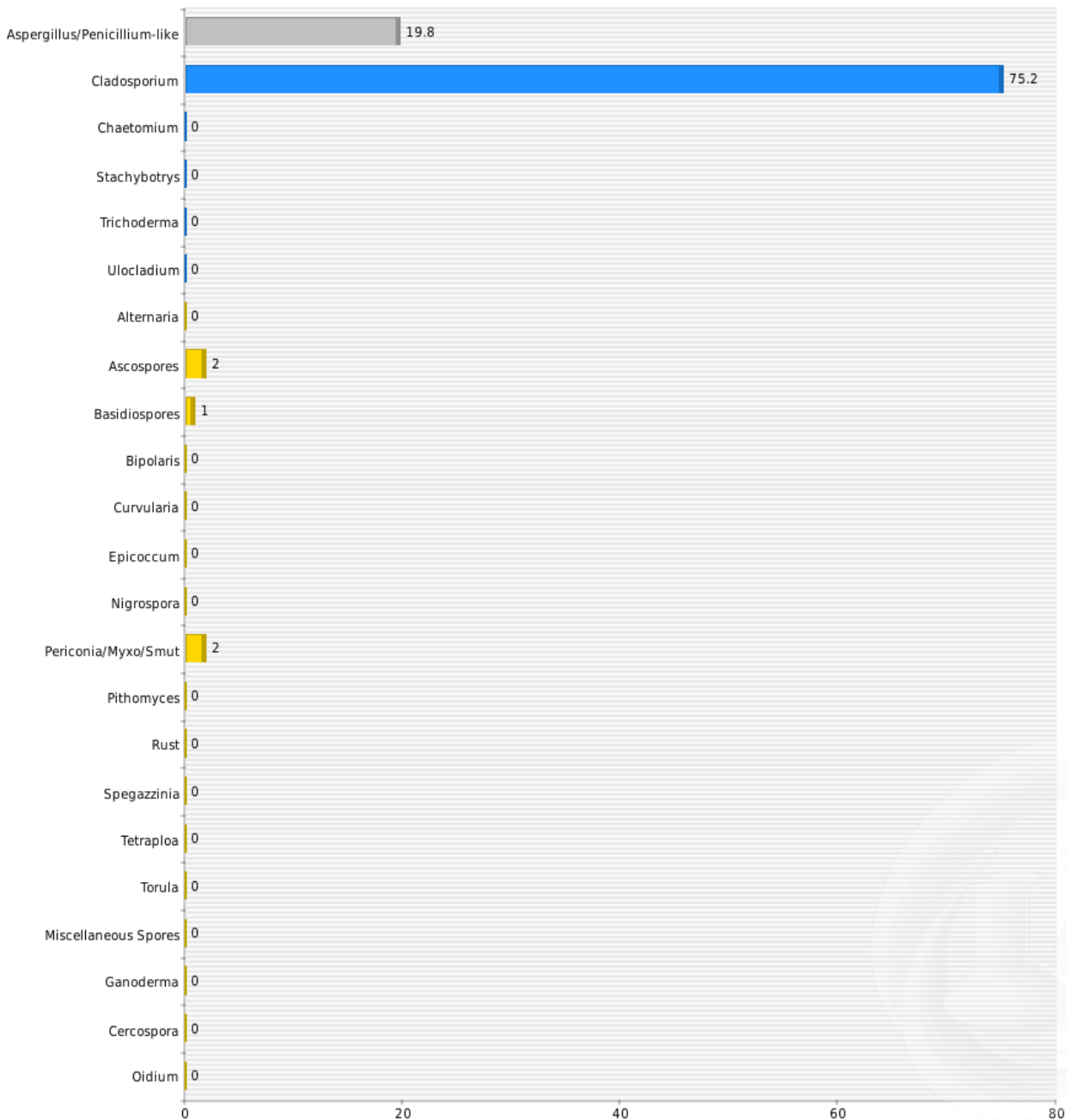
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 17 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Project Number: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

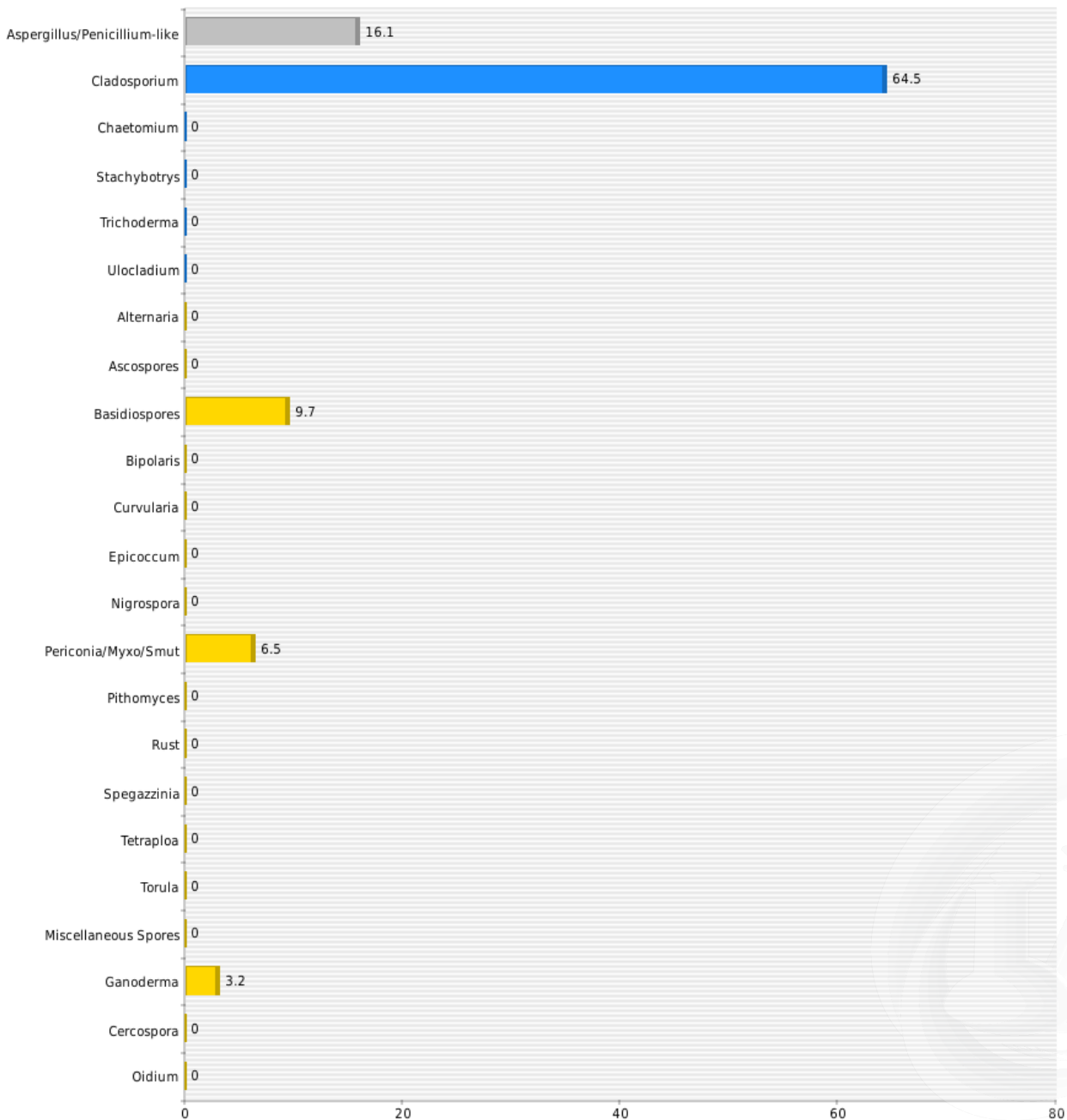
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 18 (Spore Percentage)





MOLD AIR SAMPLE REPORT

2556 W Woodland Dr Anaheim, CA 92801

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Project Number: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

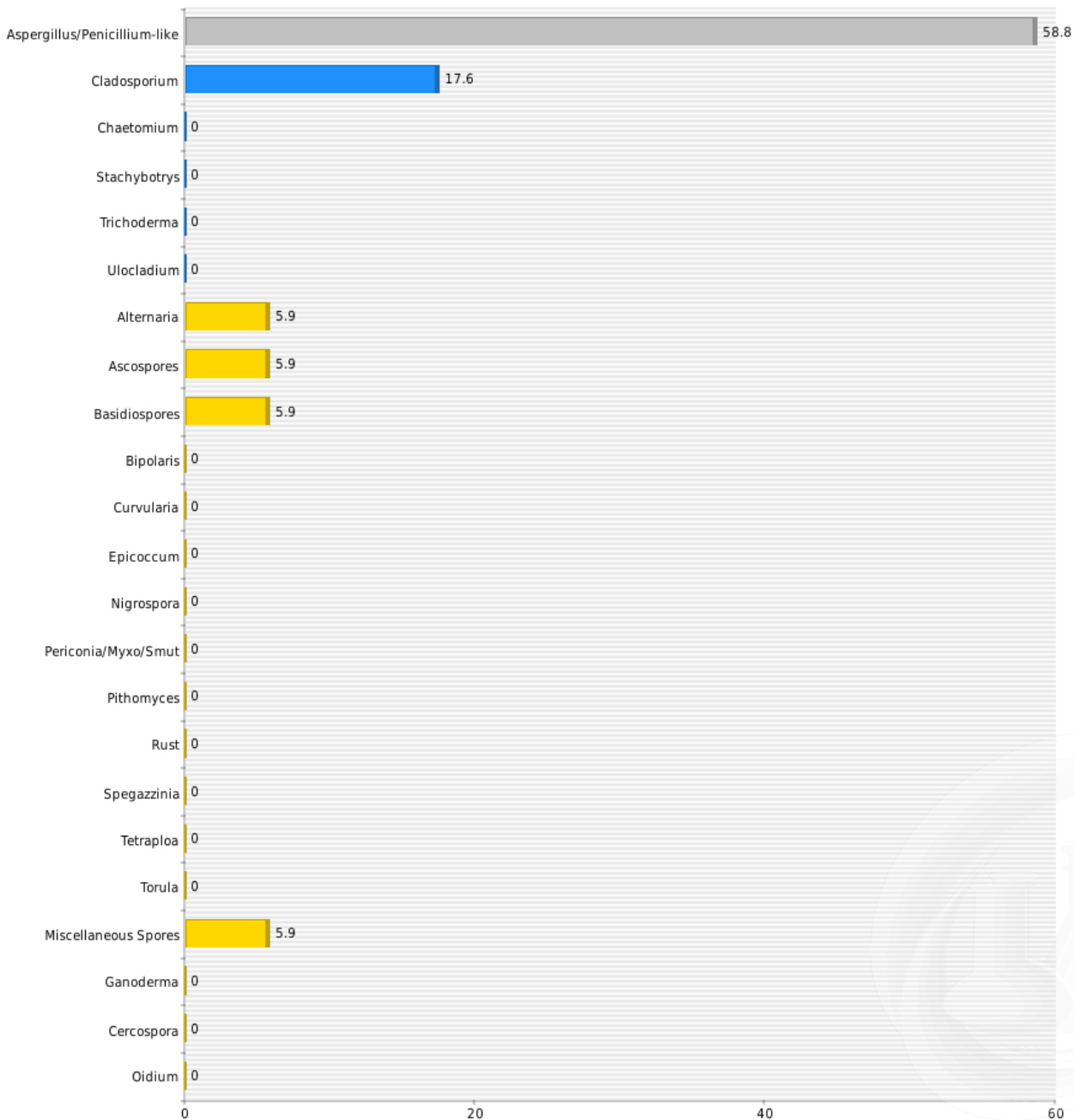
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 19 (Spore Percentage)





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Phone: (562) 860-2201
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Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

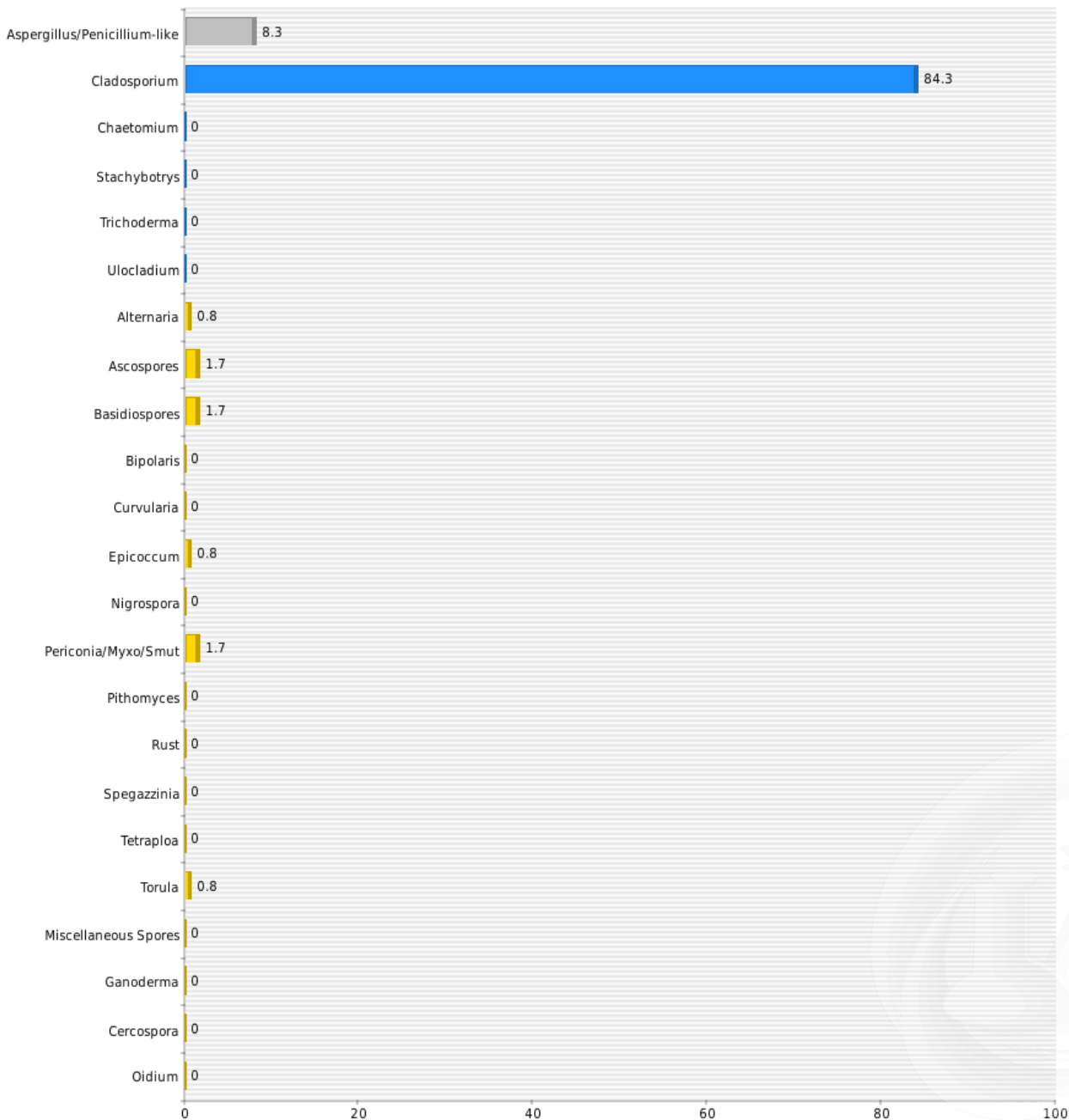
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 20 (Spore Percentage)





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Report Status: Final Report

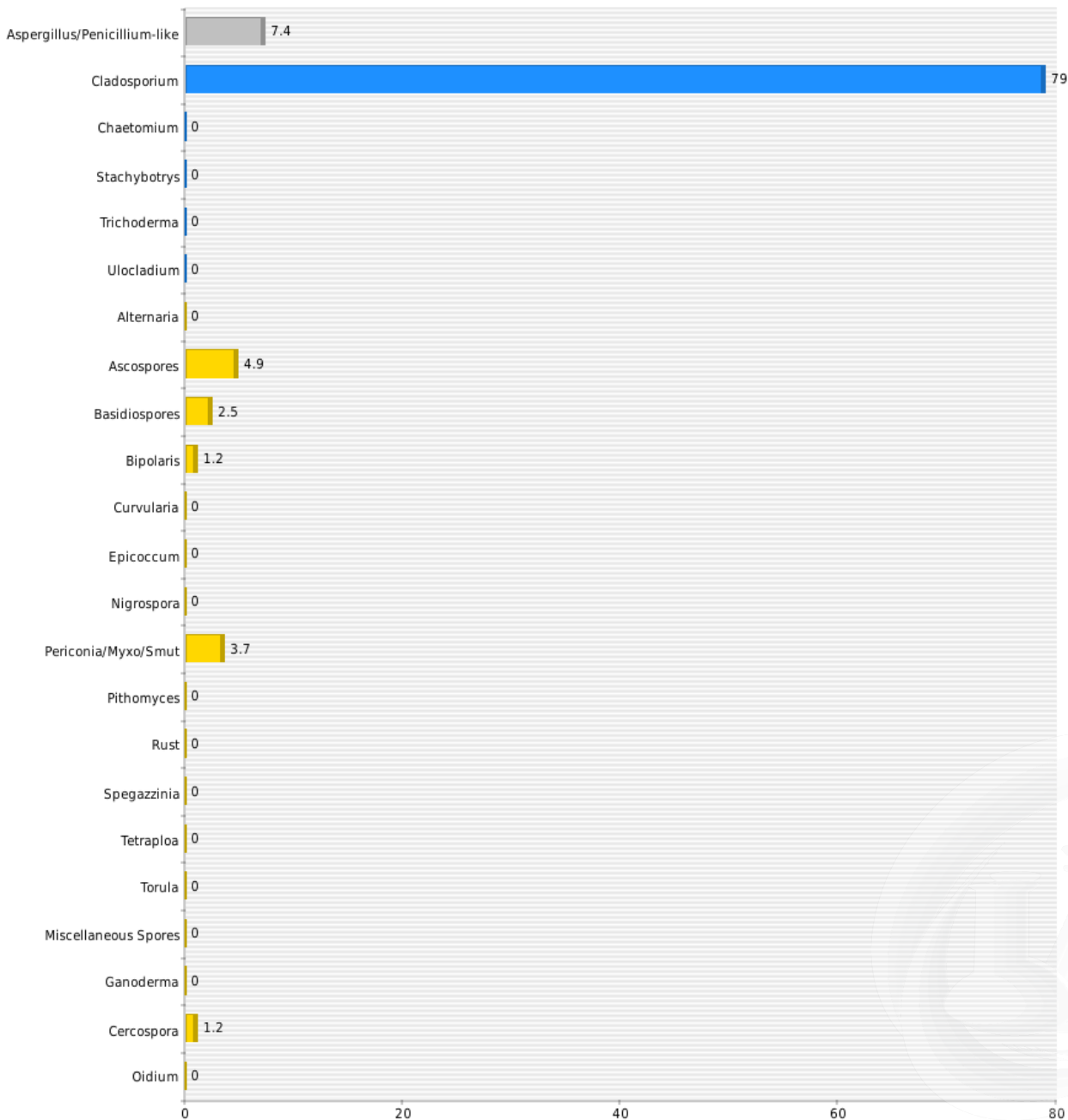
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 21 (Spore Percentage)





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Report Status: Final Report

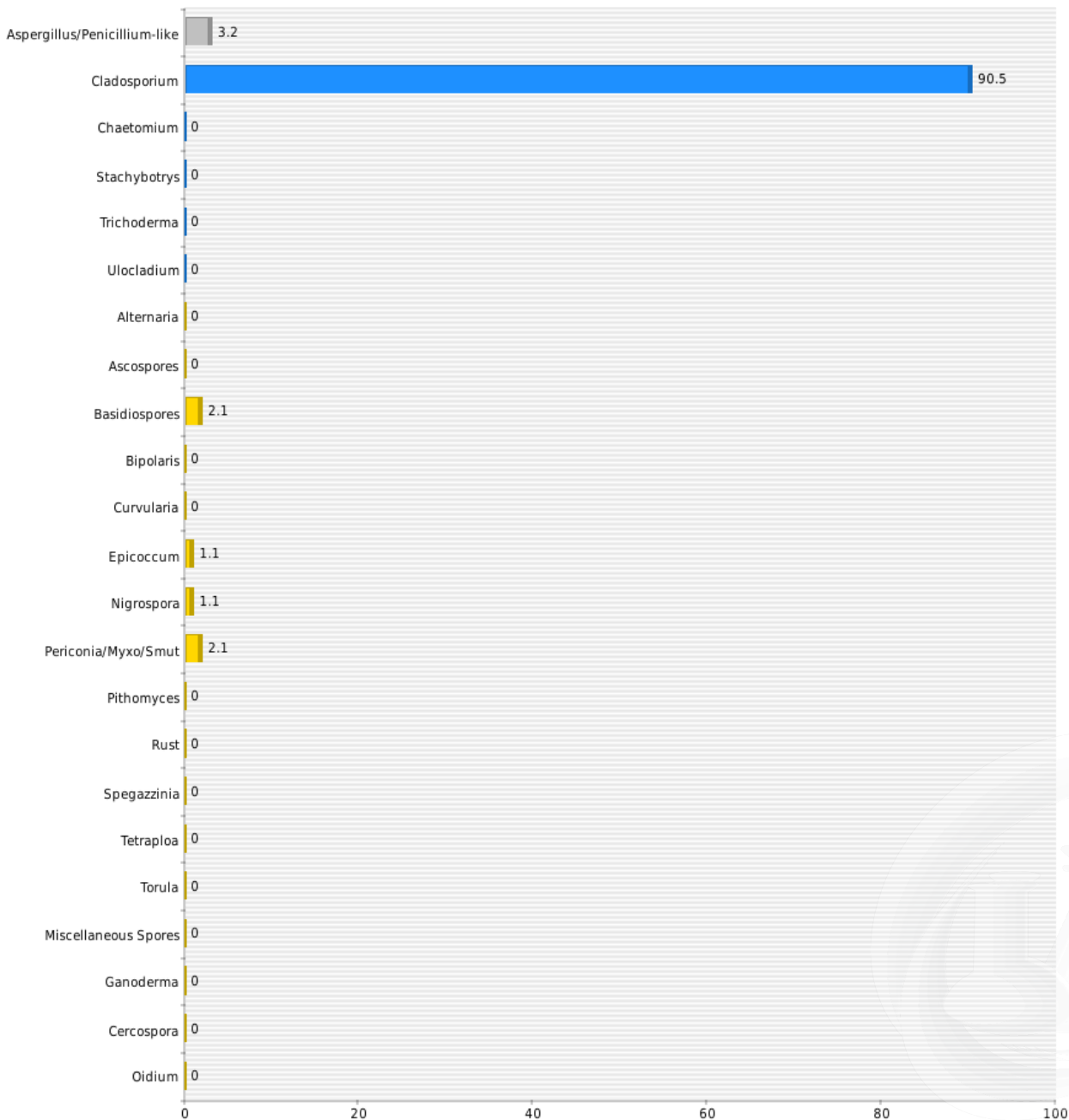
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 22 (Spore Percentage)





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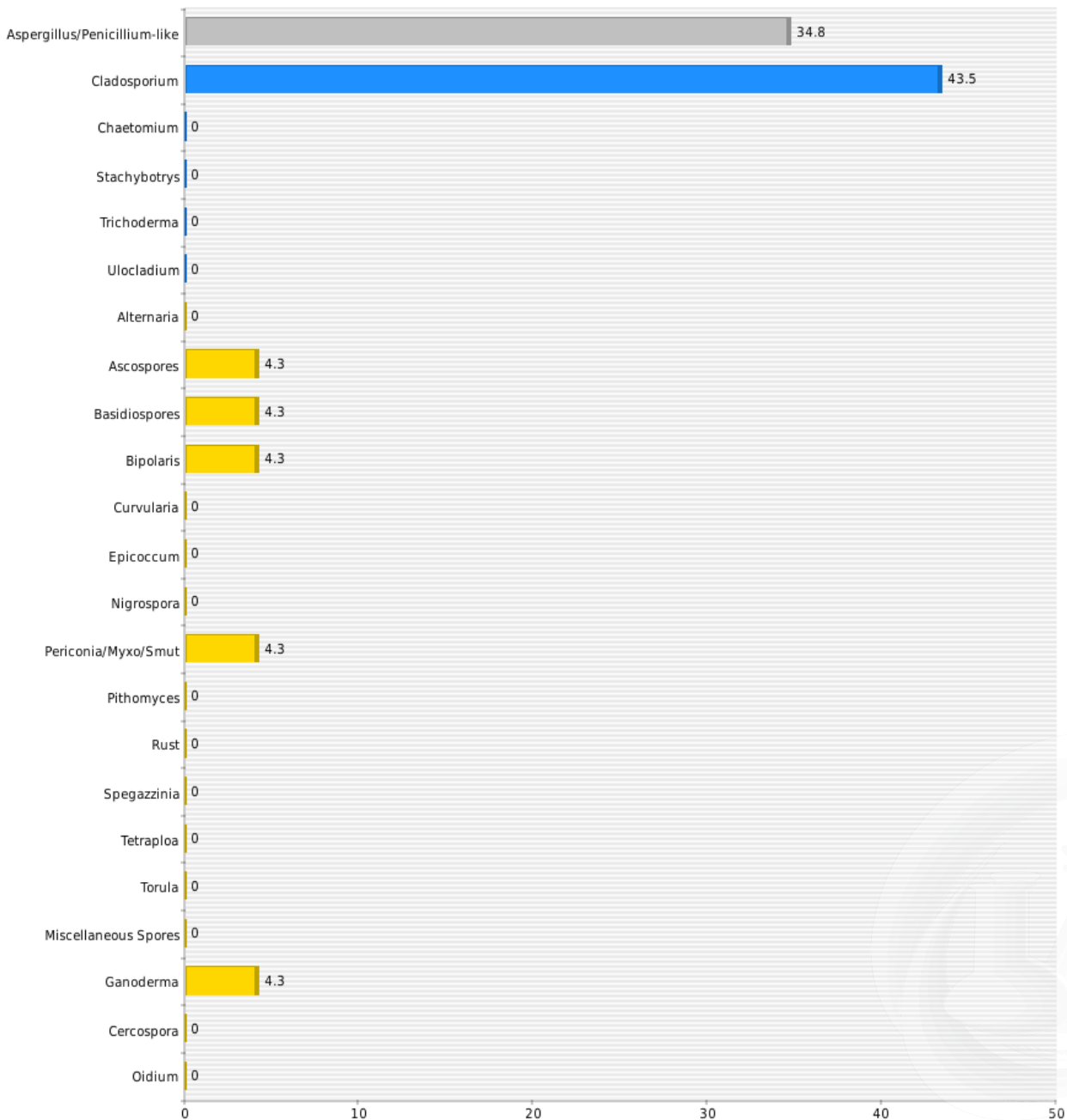
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Classroom 23 (Spore Percentage)





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Report Status: Final Report

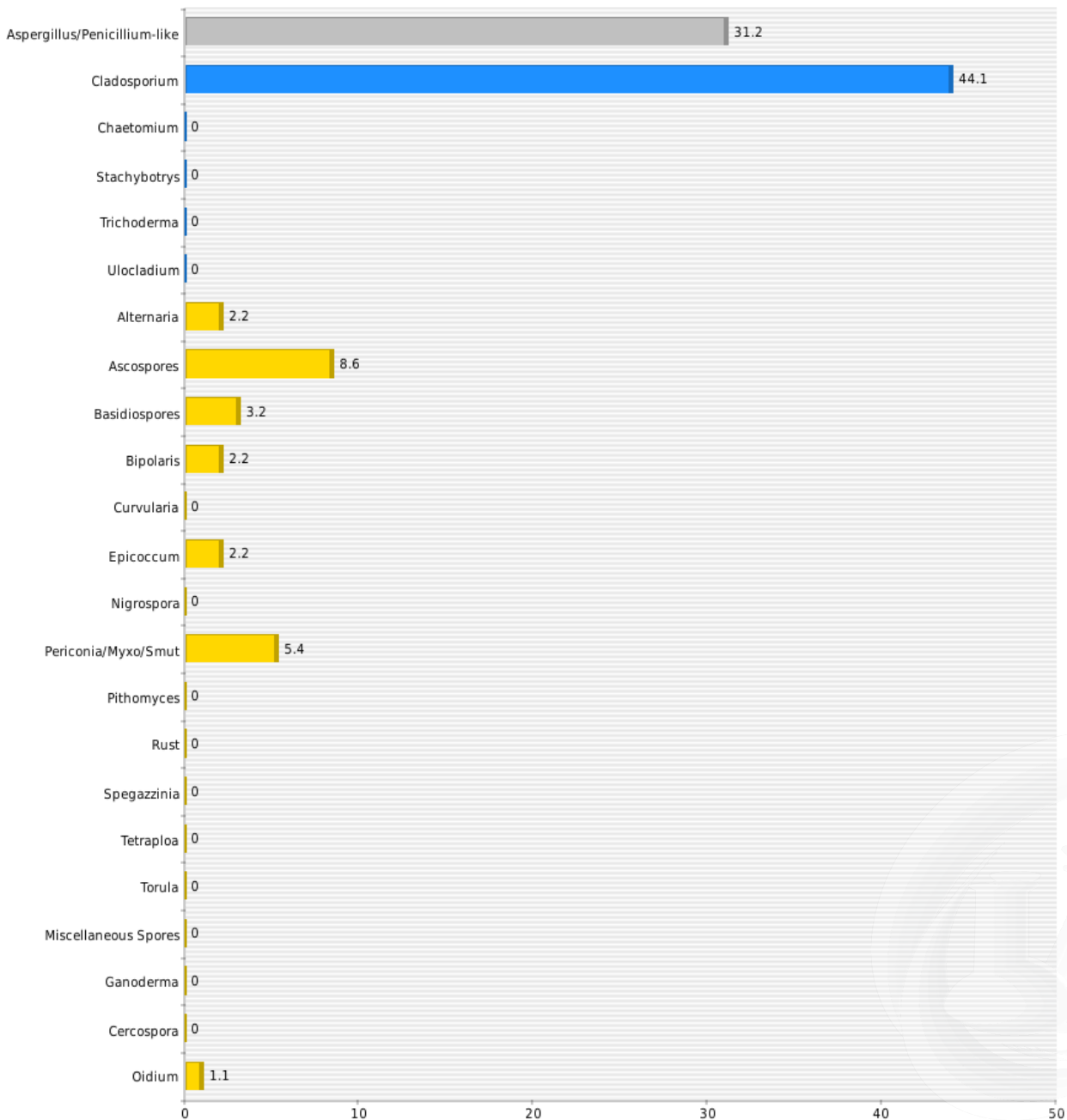
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Exterior (Spore Percentage)





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Project Number: 211872

Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

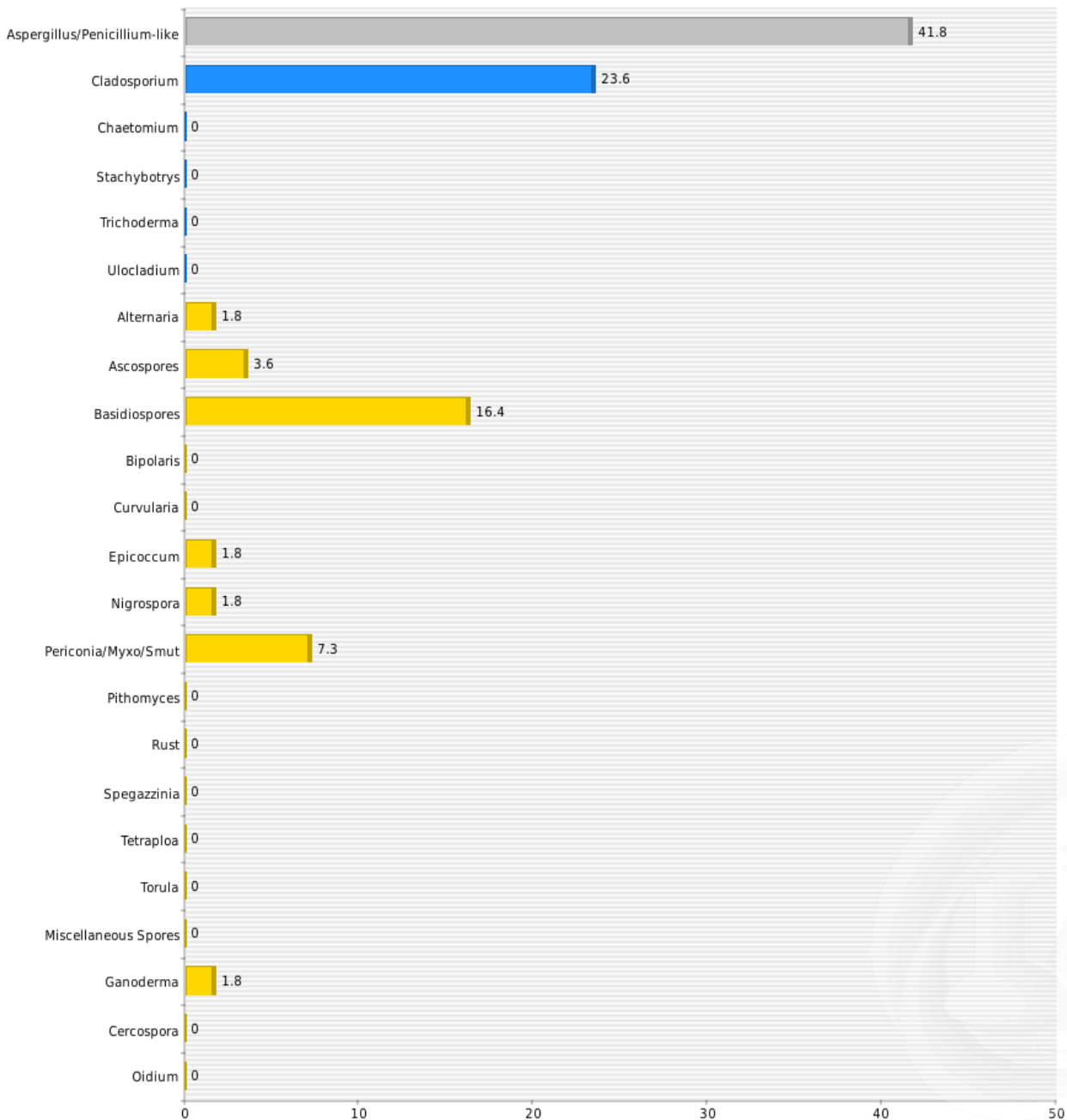
AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

Exterior (Spore Percentage)





MOLD AIR SAMPLE REPORT

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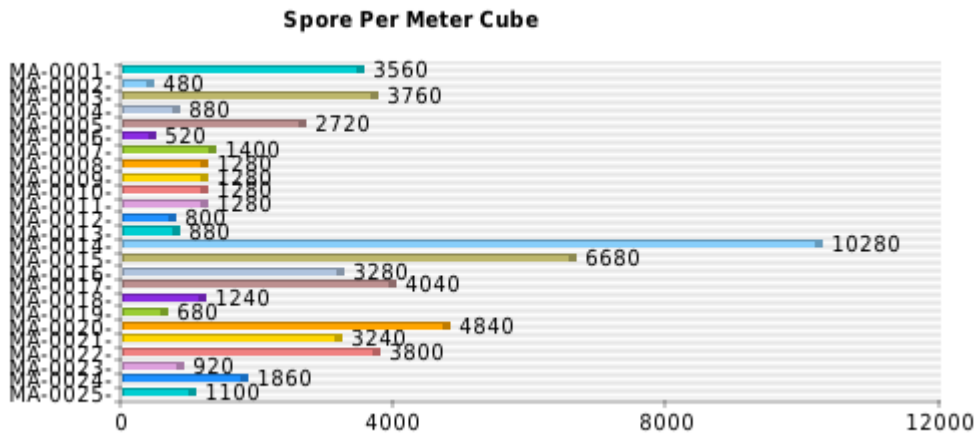
Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25





MOLD AIR SAMPLE REPORT

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Project Location: 151 North Fenimore Avenue, Azusa, CA 91702

Report Status: Final Report

AIHA EMPAT#: 203769

Lab Batch Number: 2110514

Samples Received: 25

Samples Analyzed: 25

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.



A-Tech Consulting, Inc.

2110514

MOLD AIR FIELD BULK SAMPLE CHAIN OF CUSTODY

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

Turn Around Time (Circle One):

1 HR 2 HR 3 HR 6 HR

24 HR 48 HR 72 HR 5 DAY

OTHER _____

Phone Number: (714) 434-6360
Fax Number: (714) 221-6360
Attn: Robert Williams
Results: Email to labs@atechinc.net

Project Number and Name: Atch-211872 Dalton Elementary School, Azusa Unified School District		Sampled By (Print Full Name): Michael Fernandez	
Project Address: 151 North Fenimore Avenue		City: Azusa, CA	Zip: 91702

Sample Number	Sample Date	Sample Time	Sample Locations	Description	Sampling Time	Liters per Minute (LPM)
211872-MA-0001	6/29/2021	7:43 AM	Classroom 1	Background	5 Min.	75
211872-MA-0002	6/29/2021	7:57 AM	Classroom 2	Background	5 Min.	75
211872-MA-0003	6/29/2021	8:03 AM	Classroom 3	Background	5 Min.	75
211872-MA-0004	6/29/2021	8:18 AM	Classroom 4	Background	5 Min.	75
211872-MA-0005	6/29/2021	8:22 AM	Classroom 5	Background	5 Min.	75
211872-MA-0006	6/29/2021	8:35 AM	Classroom 6	Background	5 Min.	75
211872-MA-0007	6/29/2021	8:45 AM	Classroom 7	Background	5 Min.	75

Relinquished By: [Signature] Date: 7/1/21 Time: 4:30 PM

Samples Received By: [Signature] Date: 7/1/21 Time: 4:31 PM

Mold Air Chain of Custody



A-Tech Consulting, Inc.

2110514

MOLD AIR FIELD BULK SAMPLE CHAIN OF CUSTODY

Analysis: Non-Viable Spore Trap (Air-O-Cell)(ID Fungal Count and Genus, Direct Exam)
Turn Around Time (Circle One):
1 HR 2 HR 3 HR 6 HR
24 HR 48 HR 72 HR 5 DAY
OTHER _____

Phone Number: (714) 434-6360
Fax Number: (714) 221-6360
Attn: Robert Williams
Results: Email to labs@atechinc.net

Project Number and Name: Atch-211872 Dalton Elementary School, Azusa Unified School District	Sampled By (Print Full Name): Michael Fernandez
Project Address: 151 North Fernmore Avenue	City: Azusa, CA
	Zip: 91702

211872-MA-0008	6/29/2021	8:55 AM	Classroom 8	Background	5 Min.	75
211872-MA-0009	6/29/2021	9:20 AM	Classroom 9	Background	5 Min.	75
211872-MA-0010	6/29/2021	10:15 AM	Classroom 10	Background	5 Min.	75
211872-MA-0011	6/29/2021	10:27 AM	Classroom 11	Background	5 Min.	75
211872-MA-0012	6/29/2021	10:34 AM	Classroom 12	Background	5 Min.	75
211872-MA-0013	6/29/2021	10:40 AM	Classroom 13	Background	5 Min.	75
211872-MA-0014	6/29/2021	12:05 PM	Classroom 14	Background	5 Min.	75
211872-MA-0015	6/29/2021	12:17 PM	Classroom 15	Background	5 Min.	75
211872-MA-0016	6/29/2021	12:26 PM	Classroom 16	Background	5 Min.	75

Relinquished By:  **Date:** 7/1/21 **Time:** 4:20 PM

Samples Received By:  **Date:** 7/1/21 **Time:** 4:31 PM



A-Tech Consulting, Inc.

2110514


MOLD AIR FIELD BULK SAMPLE CHAIN OF CUSTODY

Analysis: Non-Viable Spore Trap (Air-O-Cell)(ID Fungal Count and Genus,
Direct Exam)
Turn Around Time (Circle One):
1 HR 2 HR 3 HR 6 HR
24 HR 48 HR 72 HR 5 DAY
OTHER _____

Phone Number: (714) 434-6360
Fax Number: (714) 221-6360
Attn: Robert Williams
Results: Email to labs@atechinc.net

Project Number and Name: Atch-211872 Dalton Elementary School, Azusa Unified School District	Sampled By (Print Full Name): Michael Fernandez
Project Address: 151 North Fenimore Avenue	City: Azusa, CA
	Zip: 91702

211872-MA-0017	6/29/2021	12:36 PM	Classroom 17	Background	5 Min.	75
211872-MA-0018	6/29/2021	12:45 PM	Classroom 18	Background	5 Min.	75
211872-MA-0019	6/29/2021	12:52 PM	Classroom 19	Background	5 Min.	75
211872-MA-0020	6/29/2021	1:06 PM	Classroom 20	Background	5 Min.	75
211872-MA-0021	6/29/2021	1:12 PM	Classroom 21	Background	5 Min.	75
211872-MA-0022	6/29/2021	1:20 PM	Classroom 22	Background	5 Min.	75
211872-MA-0023	6/29/2021	1:23 PM	Classroom 23	Background	5 Min.	75
211872-MA-0024	6/29/2021	1:40 PM	Exterior	Ambient	10Min.	150
211872-MA-0025	6/29/2021	7:45 AM	Exterior	Ambient	10Min.	150

Relinquished By:  **Date:** 7/2/21 **Time:** 4:20 PM

Samples Received By: Ryan S. Hall **Date:** 7/2/21 **Time:** 4:31 PM



A-Tech Consulting, Inc.

2110514

MOLD AIR FIELD BULK SAMPLE CHAIN OF CUSTODY

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

Phone Number: (714) 434-6360
Fax Number: (714) 221-6360

Turn Around Time (Circle One):

1 HR 2 HR 3 HR 6 HR

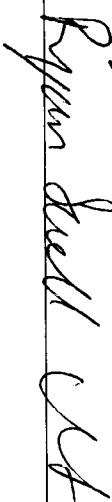
24 HR 48 HR 72 HR 5 DAY

Attn: Robert Williams
Results: Email to labs@atechinc.net

OTHER _____

Project Number and Name: Atch-211872 Dalton Elementary School, Azusa Unified School District	Sampled By (Print Full Name): Michael Fernandez
Project Address: 151 North Fenimore Avenue	City: Azusa, CA
	Zip: 91702

Relinquished By:  **Date:** 7/14/03 **Time:** 4:00 PM

Samples Received By:  **Date:** 7/14/03 **Time:** 4:30 PM

Mold Air Chain of Custody

Thermo

SCIENTIFIC

Model PDR-1500 Calibration

Calibration Technician *Ramon Almonte*

Date *5/20/2021*

S/N: *0115250203*

Calibration Due: *5/21/2022*

Leak Check @ 10 " w.c. *PASS*

Ta (deg C) 25

RH (%) 27

Pa (mmHg) 767

Minimum Flow (L/min) 1.0

Max Flow (L/min) 3.5

Flow Cal Correlation 0.995

Source Level 97

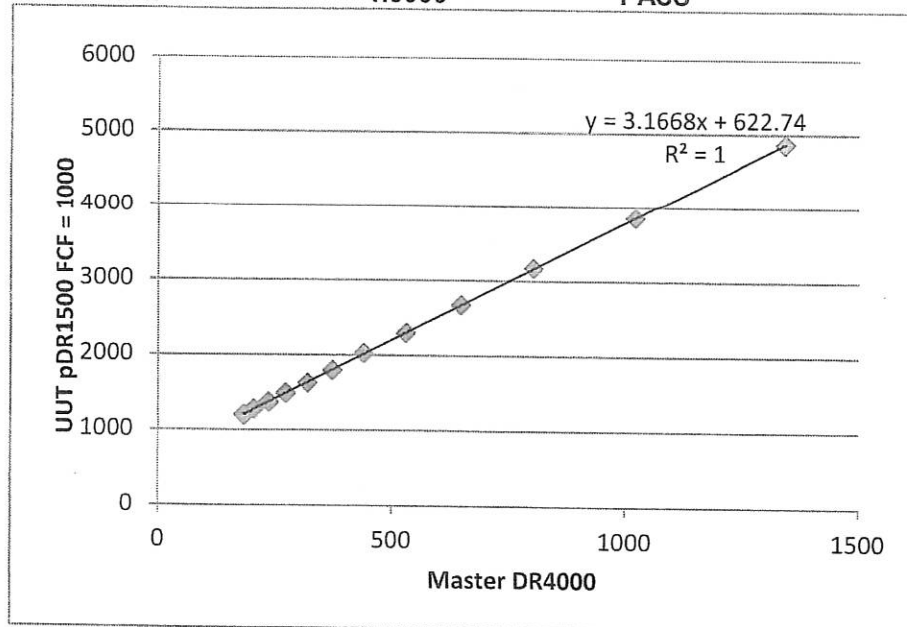
Source Current (mA) 60

Ref Det Volts (VDC) 0.94

Cal Factor 316

Background (ug/m3) 201

Correlation 1.0000 **PASS**



All aerosol calibrations are traceable to Arizona Road Dust

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.