AIRBORNE MOLD SAMPLING PROJECT REPORT

DOVE HILL ELEMENTARY SCHOOL
1460 COLT WAY
SAN JOSÉ, CA 95121

PORTABLE CLASSROOM BUILDINGS
K1, K2, K3, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 16, 18, 19, 20, 21, 22, 27, 28, 29, 30, 31, 33, 34, 35, AND 36

Prepared for:
EVERGREEN ELEMENTARY SCHOOL DISTRICT
3188 QUIMBY ROAD
SAN JOSE, CA 95148

MAY 24, 2018

HAZMAT DOC PROJECT # 18-079

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HazMat Doc

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PART – I

OVERVIEW

HazMat Doc (HMD) has completed an Airborne Mold Screening Project at Dove Hill Elementary School, located at 1460 Colt Way, San Jose, CA 95121. This Project entailed air sampling for mold and particulates for twenty-four each (24 EA) portable classroom buildings on the Dove Hill ES campus. This work was performed in response to a request by Mr. Rick Navarro, Director of Operations for the Evergreen Elementary School District (EESD). Mr. Michael Butler, Construction Manager for the EESD, Mr. Wayne Edgin, Construction Inspector for EESD, our site contacts for this Project, made all the necessary arrangements for access. Site work was performed on Saturday, May 5, 2018.

All occupied portable classroom buildings were designated for inclusion in this Project, except for Portable Classroom Buildings 15, 17, 23, and 25 which are currently part of a separate Airborne Mold Screening Project, (please see the HMD Project numbers 16-041 and 18-033 for those Buildings). Portable Classroom Buildings 12, 13, 24, 26, 32, and 37 were designated by Mr. Navarro as being unoccupied and therefore excluded from this Project.

This work was originally requested by Mr. Navarro at the beginning of March 2018. Due to the size of the Project and access issues, work was designated for weekend work only. This type of Airborne Mold Screening Project is to access the "normal" occupation environments in the Classrooms and is weather restricted. Heavy precipitation may reduce the naturally occurring exterior mold spores and particulates content, as well as increase the interior mold spores and particulates content, creating an "abnormal" occupations environment. Due to inclement weather in the months of March and April 2018, the site work for this Project was repeatedly postponed until the Saturday, May 5, 2018, date.

INFORMATION RECEIVED AND ON-SITE OBSERVATIONS

Information Received

We were informed of the following by Mr. Navarro March 2018:

- There have been complaints made about the indoor air quality in the portable classroom buildings throughout the Dove Hill ES campus.
- No water intrusion incidents in the portable classroom buildings have been reported.
- No visible mold growth in the portable classroom buildings have been reported.
- The suspended ceiling tiles and grids in the portable classroom buildings have been cleaned and/or replaced in the period since 2016 when the roofs of the West side campus portable classroom buildings were replaced.

On-site Observations

Our technician made the following on-site observations:

- The twenty-eight (28) units designated by Mr. Navarro for this Project are part of six (6) different banks of portable buildings on the North-East, East, South, West, and South-West sides of the Dove Hill ES campus.
- Classrooms K1-K2 are a West to East oriented bank of portables, with entries on the South side. Classrooms K1-K2 are both apparently of the same vintage and have the same Interior and Exterior finishes. Classrooms K1-K2 are apparently original to the Dove Hill ES campus. The Classrooms K1-K2 bank of portables is immediately North-East of the central "permanent" buildings on the Campus. Classrooms K1-K2 are included in this Project.
- Classroom K3 is part of the K1-K2 bank of portables, with entry on the South side. Classroom K3 is of an apparently newer vintage than Classrooms K1-K2, (and apparently not original to the Dove Hill ES campus), but has similar Interior and Exterior finishes. Classroom K3 is included in this Project.
- Classrooms 3-11 are a North to South oriented bank of portables, with entries on the West side. Classrooms 3-11 all are apparently of the same vintage and have the same Interior and Exterior finishes. Classrooms 3-11 are apparently original to the Dove Hill ES campus. The Classrooms 3-11 bank of portables is immediately East of the central "permanent" buildings on the Dove Hill ES campus. Classrooms 3-11 are included in this Project.

INFORMATION RECEIVED AND ON-SITE OBSERVATIONS *(continued)*

- Classrooms 12-19 are a West to East oriented bank of portables, with entries on the North side. Classrooms 12-19 all are apparently of the same vintage and have the same Interior and Exterior finishes. Classrooms 3-11 are apparently original to the Dove Hill ES campus. The Classrooms 12-19 bank of portables is immediately South of the central "permanent" buildings on the Dove Hill ES campus. Only Classrooms 14, 16, 18, and 19 were designated to be included in this Project.
- Classrooms 20-26 are a North to South oriented bank of portables, with entries on the East side. Classrooms 21-23 are all apparently of the same vintage and have the same Interior and Exterior finishes. Classrooms 21-23 are apparently original to the Dove Hill ES campus. Classrooms 24-26 are all apparently of the same vintage and have the same Interior and Exterior finishes. Classrooms 24-26 are all of an apparently newer vintage than Classrooms 20-22, (and apparently not original to the Dove Hill ES campus), but have similar Interior and Exterior finishes. The Classrooms 20-26 bank of portable buildings is immediately South-West of the central "permanent" buildings on the Dove Hill ES campus, and are located against the West side perimeter fence of the Dove Hill ES campus. Only Classrooms 20-22 were designated to be included in this Project.
- Classrooms 27-32 are a North to South oriented bank of portables, with entries on the East side, and in-line and immediately to the South of the Classrooms 20-26. Classrooms 27-32 are of an apparently newer vintage than Classrooms 20-22 and Classrooms 23-26, (and apparently not original to the Dove Hill ES campus), but have similar Interior and Exterior finishes. The Classrooms 27-32 bank of portable buildings is to the far South-West of the central "permanent" buildings on the Dove Hill ES campus, and are also located against the West side perimeter fence of the Dove Hill ES campus, as well as the South side perimeter fence. Only Classrooms 27-31 were designated to be included in this Project; however, Classroom 29 was inaccessible at the time of the Site visit.
- Classrooms 33-37 are a North to South oriented bank of portables, with entries on the West side, parallel and directly East of Classrooms 27-32. Classrooms 27-32 are of an apparently newer vintage than Classrooms 20-22 and Classrooms 23-26, (and apparently not original to the Dove Hill ES campus), have similar Interior and Exterior finishes. (Classrooms 27-32 are the same type and vintage as Classrooms 27-32.) The Classrooms 27-32 bank of portable buildings is to the far South-West of the central "permanent" buildings on the Dove Hill ES campus, and are also located at the West side campus and at the South side perimeter fence of the Dove Hill ES campus. Only Classrooms 33-36 were designated to be included in this Project.
- The City of San Jose Dove Hill Park is located to the South-West of the Dove Hill ES campus, with the grass playfields of the Park sharing a common border with the grass playfields of the Campus. The Hardscape/Landscape finishes of the Park are typical, (i.e., grass playfields, trees, concrete walkways, etc).
- Common Hardscape finishes for the Dove Hill ES campus include: an asphalt parking lot on the North-West corner of the Campus; and asphalt streets with concrete sidewalks to the West and North sides of the Campus; concrete walkways throughout the Campus. All common Hardscape finishes appeared in good condition and did not appear to impact the Classroom buildings in question.
- Common Landscape finishes for the Dove Hill ES campus include: grass planting patches in the breezeway between the "permanent" buildings and the "portable" buildings; mature trees (both deciduous and evergreen varieties) around the perimeter of the Campus and the parking lot, and scattered throughout the Campus; planting beds with mature bushes scattered throughout the Campus; a large tan-bark play area on the East side perimeter of the Campus; and grass playfields on the South side of the Campus. All common Landscape finishes appeared in good condition and did not appear to impact the Classroom buildings in question.
- Hardscape finishes around the portable classrooms in question (in addition to the common Campus Hardscape finishes) include:
  - **Classrooms K1-K3**
    asphalt playgrounds to the North and South-East; concrete walkways to the West and South (K1-K2); asphalt walkway to the South (K3); and an asphalt parking lot to the West.
  - **Classrooms 3-11**
    concrete walkway to the West; and asphalt playgrounds to the East and South.

INFORMATION RECEIVED AND ON-SITE OBSERVATIONS *(continued)*

On-site Observations *(continued)*

- Hardscape finishes around the portable classrooms in question (in addition to the common Campus Hardscape finishes) include ***(continued)***:
  - **Classrooms 12-19**
    concrete walkways to the North; asphalt playground to the East and South; and an asphalt breezeway to the West (between Classrooms 12-19 and Classrooms 20-26).
  - **Classrooms 20-26**
    concrete walkway to the East; asphalt walkways, breezeways, and playground to the East; and a concrete storage yard to the North.
  - **Classrooms 27-32**
    asphalt walkways and breezeways to the East; and an asphalt playground to the North-West.
  - **Classrooms 33-37**
    asphalt walkways and breezeways to the West; and an asphalt playground to the North.

  All the Hardscape finishes around the portable classrooms in question appeared good condition and did not appear to impact the buildings in question.
- Landscape finishes around the portable classrooms in question (in addition to the common Campus Landscape finishes) include:
  - **Classrooms K1-K3**
    tan-bark play area to the North (K3).
  - **Classrooms 3-11**
    Classrooms 3-11 have only the common Campus Landscape finishes.
  - **Classrooms 12-19**
    Classrooms 12-19 have only the common Campus Landscape finishes.
  - **Classrooms 20-26**
    bare soil planting area with mature evergreen trees to the West.
  - **Classrooms 27-32**
    bare soil planting area with mature evergreen trees to the West.
  - **Classrooms 33-37**
    Classrooms 33-37 have only the common Campus Landscape finishes.

  All the Landscape finishes around the portable classrooms in question appeared in good condition and did not appear to impact the buildings in question except for the bare soil planting areas to the West of Classrooms 20-26 and Classrooms 27-32. The bare soil planting areas were in poor condition with heavy build-up of dead pine needles encroaching upon the buildings (i.e., blocking the under crawlspace vents, as well as a build-up of dead pine needles on the roof and in the gutters).
- Exterior finishes for the portable classrooms in question include:
  - **Classrooms K1-K3**
    wood exterior wall cladding; wood overhang soffits; stucco walls; metal doors and doorframes; metal windows; metal exterior wall HVAC systems; built-up asphalt roofs; metal downspouts; and concrete and metal under crawlspace vents. All exterior finishes were in apparent good condition at the time of the Site Visit, with the exception of the crawlspace vents were full of debris.
  - **Classrooms 3-11**
    wood exterior wall cladding; wood overhang soffits; stucco walls; metal doors and doorframes; metal windows; metal exterior wall HVAC systems; built-up asphalt roofs; metal downspouts; and concrete and metal under crawlspace vents. All exterior finishes were in apparent good condition at the time of the Site Visit, with the exception of the crawlspace vents were full of debris.

INFORMATION RECEIVED AND ON-SITE OBSERVATIONS *(continued)*

On-Site Observations *(continued)*

- Exterior finishes for the portable classrooms in question include ***(continued)***:
  - **Classrooms 12-19**
    wood exterior wall cladding; wood overhang soffits; stucco walls; metal doors and doorframes; metal windows; metal exterior wall HVAC systems; built-up asphalt roofs; metal downspouts; and concrete and metal under crawlspace vents. All exterior finishes were in apparent good condition at the time of the Site Visit, with the exception of the crawlspace vents which were full of debris
  - **Classrooms 20-26**
    wood exterior wall cladding; wood overhang soffits; stucco walls; metal doors and doorframes; metal windows; metal exterior wall HVAC systems; built-up asphalt roofs; metal downspouts; and concrete and metal under crawlspace vents. All exterior finishes were in apparent good condition at the time of the Site Visit, with the exception of the crawlspace vents which were full of debris and/or clogged with pine needles, and the build-up of pine needles on roofs.
  - **Classrooms 27-32**
    metal wall and soffit framing; wood exterior wall cladding; wood overhang soffits; metal doors and doorframes; metal windows; metal exterior wall HVAC systems; standing seam metal roofs; metal fascia; metal downspouts, metal gutters; and concrete and metal under crawlspace vents. All exterior finishes were in apparent good condition at the time of the Site Visit, with the exception of the crawlspace vents, which were full of debris and/or clogged with pine needles, and the build-up of pine needles on roofs.
  - **Classrooms 33-37**
    metal wall and soffit framing; wood exterior wall cladding; wood overhang soffits; metal doors and doorframes; metal windows; metal exterior wall HVAC systems; standing seam metal roofs; metal fascia; metal downspouts, metal gutters; and concrete and metal under crawlspace vents. All exterior finishes were in apparent good condition at the time of the Site Visit, with the exception of the crawlspace vents, which were full of debris and/or clogged with pine needles, and the build-up of pine needles on roofs.
- Ventilation for all portable classrooms in question is provided via Bard™ wall-mounted heat pump HVAC units, with attached wall-mounted returns and ceiling mounted registers. The HVAC units were cycling on and off in all classrooms at the time of the Site Visit, with the doors and windows shut.
- Interior ceiling finishes for the portable classrooms in question include but were not limited to:
  - **Classrooms K1-K3, Classrooms 3-11, Classrooms 12-19, and Classrooms 20-26**
    metal central ceiling joints, metal suspended ceiling grids, 2'x4' suspended ceiling tiles, 2'x4' suspended fluorescent light fixtures, and ceiling mounted HVAC registers. Scattered damages (both current physical damages and past water damages) were observed on the 2'x4' suspended ceiling tiles throughout the Classrooms. The physical damages ranged from small cuts and gouges to broken/missing tile pieces. The water damage ranged from lightly "bowing"/"cupping" intact tiles to light staining throughout the Classrooms.
  - **Classrooms 27-32, and 33-37**
    metal ceiling support frame with large and small cross brace members, metal suspended ceiling grids (inserted in the ceiling frame), 2'x4' vinyl covered fiberglass suspended ceiling tiles, 2'x4' suspended fluorescent light fixtures, and ceiling mounted HVAC registers. Light scattered damages (both current physical damages and past water damages) were observed on the 2'x4' suspended ceiling tiles throughout the Classrooms. The physical damages ranged from small cuts and gouges to loose tiles. The water damage ranged from lightly "bowing"/"cupping" intact tiles to light staining throughout the Classrooms.

INFORMATION RECEIVED AND ON-SITE OBSERVATIONS *(continued)*

On-Site Observations *(continued)*

- Interior wall finishes are common for all the portable classrooms in question, (Classrooms K1-K3, Classrooms 3-11, Classrooms 12-19, Classrooms 20-26, Classrooms 27-32, and Classrooms 33-37), include: vinyl covered tackable pressed wood wall panels; vinyl wallbase; metal doors and doorframes; metal windows; metal wall mounted HVAC returns; tackboards; and whiteboards. Minor scattered surface damages were observed throughout the Classrooms. The majority of the wall-mounted returns were dirty and in need of cleaning. Some evidence of past moisture exposure and subsequent delamination of the vinyl wall covers was observed. No evidence of suspect "mold growth" was observed on any wall finishes below the ceiling grid.
- Interior floor finishes are common for all the portable classrooms in question, (Classrooms K1-K3, Classrooms 3-11, Classrooms 12-19, Classrooms 20-26, Classrooms 27-32, and Classrooms 33-37), include: laid down carpets in the main classroom areas; and 12"x12" vinyl floor tiles in "wet" areas by entries and sink areas. All interior floor finishes were in apparent fair condition at the time of the Site Visit, with the exceptions of lightly soiled carpets and some worn/cracked/broken vinyl floor tiles.
- Interior casework finishes are common for all the portable classrooms in question, (Classrooms K1-K3, Classrooms 3-11, Classrooms 12-19, Classrooms 20-26, Classrooms 27-32, and Classrooms 33-37), include: wood and laminate casework; wood and laminate sink cabinets with metal sinks; and wood and laminate shelving. All interior casework finishes were in apparent good physical condition at the time of the Site Visit, with the exception of several rooms' cabinets being very dusty.
- Interior furnishings are common for all the portable classrooms in question, (Classrooms K1-K3, Classrooms 3-11, Classrooms 12-19, Classrooms 20-26, Classrooms 27-32, and Classrooms 33-37), include: wood/laminate and metal desks; vinyl/wood and metal chairs; wood/laminate and metal tables; and metal filing cabinets. All interior furnishings were in apparent good condition at the time of the Site Visit.
- Classroom 31 is apparently used for a program that provides food to the participants. A refrigerator, microwave, and an electric hot plate were in the Classroom. A full pot of ramen noodles was left out on the counter at the time of the Site visit.

WORK PERFORMED

Air Condition Assessment

As requested, the HMD technicians took note of any strong "aromas" or "odors" detectable at the time of the Site Visit in the classrooms in question, (Classrooms K1-K3, Classrooms 3-11, Classrooms 12-19, Classrooms 20-26, Classrooms 27-32, and Classrooms 33-37). The ventilation systems were cycling at the time of the Site visit, with some Classrooms set for cooling and some set for heating. The conditions were as follows:

- Classroom K1 – no odors noted, air cycling and fresh;
- Classroom K2 – no odors noted, air cycling and fresh;
- Classroom K3 – no odors noted, air cycling and fresh;
- Classroom 3 – no odors noted, air cycling and fresh;
- Classroom 4 – no odors noted, air cycling and fresh;
- Classroom 5 – no odors noted, air cycling and fresh;
- Classroom 6 – heavy scent of air freshener, air cycled on;
- Classroom 7 – heavy moldy odor (possibly from the theater clothes and props storage), air cycled off;
- Classroom 8 – heavy scent of air freshener, air cycled on;
- Classroom 9 – no odors noted, air cycling and fresh;
- Classroom 10 – stale and damp carpet odor, air cycled off;
- Classroom 11 – heavy scent of air freshener, air cycled on;
- Classroom 14 – musty odor, air cycled off;

SAMPLING PERFORMED *(continued)*

Air Conditions Assessment *(continued)*

- Classroom 16 – no odors noted, air cycling and fresh;
- Classroom 18 – stale and musty odor, air cycled off;
- Classroom 19 – no odors noted, air cycling and fresh;
- Classroom 20 – no odors noted, air cycling warm and fresh;
- Classroom 21 – "dead animal" in crawlspace odor, air cycled off;
- Classroom 22 – heavy scent of spice air freshener, air cycled off;
- Classroom 27 – no odors noted, air cycling and fresh;
- Classroom 28 – stale odor, air cycling and hot;
- Classroom 30 – no odors noted, air cycled off and fresh;
- Classroom 31 – no odors note, air cycled and cool;
- Classroom 33 – stale musty odor, air cycled off;
- Classroom 34 – musty odor, air cycled on and hot;
- Classroom 35 – strong chemical odor of cleaners, air cycled on and cool;
- Classroom 36 – strong acrid odor, air cycled off and warm.

Air-O-Cell™ Samples

HazMat Doc personnel performed air sampling by collecting air samples on spore traps for airborne fungal matter. The samples were collected using Zefon™ Air-O-Cell™ samplers. Air is drawn in at 15 liters per minute through an Air-O-Cell™ cassette for a 10-minute period. The particulate laden air enters the cassette, meets the sampling substance upon which it is impacted. The sampling substance is a special glass slide coated with an adherence medium. These cassettes are designed for the rapid collection and analysis of a wide range of airborne aerosols.

These include mold spores, pollen, insect parts, skin cell fragments, fibers (e.g., asbestos, fiberglass, cellulose, clothing fibers) and inorganic particulate (e.g., ceramic, fly ash, combustion particles, copy toner). Inside and outside sampling is performed to detect the interior amplification (if any) of airborne fungal contaminants. Samples were collected from the outside location to account for any materials/spores that may be brought in by the HVAC unit.

The levels should be used only as providing guidance in interpreting the results and not as a key factor. Recently, the concept that numerical guidelines are useful for characterizing airborne fungi has been replaced with the realization that in most circumstances, the kinds of fungi present indoors should, for non-problem buildings, be similar to those present in the outdoor air. Please refer to the enclosed sample results.

A total of twenty-seven (27) Interior samples were collected as part of this sampling as follows:

- Classroom K1 – center, ambient by teaching wall;
- Classroom K2 **–** center, ambient by teaching wall;
- Classroom K3 **–** center, ambient by teaching wall;
- Classroom 3 **–** center, ambient by teaching wall;
- Classroom 4 **–** center, ambient by teaching wall;
- Classroom 5 **–** center, ambient by teaching wall;
- Classroom 6 **–** center, ambient by teaching wall;
- Classroom 7 **–** center, ambient by teaching wall;
- Classroom 8 **–** center, ambient by teaching wall;
- Classroom 9 **–** center, ambient by teaching wall;
- Classroom 10 **–** center, ambient by teaching wall;
- Classroom 11 **–** West side, ambient by sink counter;
- Classroom 14 – North side, ambient by sink counter;

SAMPLING PERFORMED *(continued)*

Air-O-Cell™ Samples *(continued)*

- Classroom 16 – North side, ambient by sink counter;
- Classroom 18 – North side, ambient by sink counter;
- Classroom 19 – North side, ambient by sink counter;
- Classroom 20 – East side, ambient by sink counter;
- Classroom 21 – East side, ambient by sink counter;
- Classroom 22 – East side, ambient by sink counter;
- Classroom 27 – East side, ambient by sink counter;
- Classroom 28 – East side, ambient by sink counter;
- Classroom 30 – East side, ambient by sink counter;
- Classroom 31 – East side, ambient by sink counter;
- Classroom 33 – West side, ambient by sink counter;
- Classroom 34 – West side, ambient by sink counter;
- Classroom 35 – West side, ambient by sink counter; and
- Classroom 36 – West side, ambient by sink counter.

A total of six (6) Exterior samples were collected as part of this sampling as follows:

- North-West corner of Classroom K1 (to be reflective of the North and West sides conditions of Classrooms K1-K3);
- South-East corner of Classroom K3/North-East corner of Classroom 3 (to be reflective of the South and East sides conditions of Classrooms K1-K3/to be reflective of the North and East sides conditions of Classrooms 3-11);
- South-West corner of Classroom 11/North-East corner of Classroom 12 (to be reflective of the South and West sides conditions of Classrooms 3-11/to be reflective of the North and East sides conditions of Classrooms 12-19);
- North-East of Classroom 20/North-West of Classroom 19 (to be reflective of the North and East sides conditions of Classrooms 20-26/to be reflective of the North and West sides conditions of Classrooms 12-19);
- South-West of Classroom 19/North-West of Classroom 33/East of Classroom 26 (to be reflective of the South and West sides conditions of Classrooms 12-19/to be reflective of the North and West sides conditions of Classrooms 33-37/to be reflective of the East side conditions of Classrooms 20-26 and 27-32); and
- South-East of Classroom 32/South-West of Classroom 37 (to be reflective of the South and East sides conditions of Classrooms 20-26 and 27-32/to be reflective of the South and West sides conditions of Classrooms 33-37).

Air-O-Cell™ Samples – Other Biological Particles Report

In addition to the Spore Trap report, the twenty-seven (27) Interior air samples and six (6) Exterior air samples were also submitted to the laboratory for a report on other biological particles. A variety of pollen particles were isolated from the samples, however the heaviest concentration of materials isolated were epithelial (skin) cells. Please see the attached report.

SPECIES IDENTIFICATION

The following is a list and a definition of the species identified in the air samples:

Alternaria Species are cosmopolitan fungi of plants either as pathogens or as saprobes and from soil. *Alternaria* is a common and important allergen, including Type I allergies (hay fever, asthma) and Type III hypersensitivity pneumonitis (Woodworker's lung, Apple store hypersensitivity). *Alternaria Species* are occasional agents of onychomycosis, of ulcerated cutaneous infection and of sinusitis. Rare cases of infection have been reported in immunocompromised patients. *("Significant Species")*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 3-11 (Classrooms 3-11 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

- **These species were ONLY detected in the Interior air sample collected in Classroom 16. *(Note: Only detected in extremely low levels.)***
- **These species were NOT detected in the Interior air samples collected in Classrooms 14, 18, and 19, or in any of the corresponding Exterior air samples for these Classrooms.**

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

- **These species were ONLY detected in the Interior air sample collected in Classroom 33. *(Note: Only detected in the lowest level.)***
- **These species were NOT detected in the Interior air samples collected in Classrooms 34, 35, and 36, or in any of the corresponding Exterior air samples for these Classrooms.**

Ascospores are ubiquitous and found everywhere in nature. *Ascospores* are produced by morels, truffles, cup fungi, ergot and many micro-fungi. They are frequently found growing indoors on damp substrates. Their allergenicity is highly variable, dependent on genus and species. *Ascospores* are a potential opportunist or pathogen dependent on species; however, the vast majority of these organisms do not cause disease. It should be noted that these organisms have been poorly studied. *("Significant Species")*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

- **These species were detected in REDUCED levels in the Interior air sample collected in Classroom K1 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air samples collected in Classrooms K2 and K3.**

Classrooms 3-11 (Classrooms 3-11 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

SPECIES IDENTIFICATION *(continued)*

Ascospores Sp. (continued)

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Aspergillus Species are cosmopolitan, sabrobic fungi of soils (especially cultivated soils) and decomposing plant material. Some twenty species of *Aspergillus* have been recognized as opportunistic pathogens. In humans, the most common forms of aspergillosis are pulmonary in nature, although other deep infections are also encountered, particularly in immunocompromised patients. *("Significant Species")*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 3-11 (Classrooms 3-11 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

- **These species were detected REDUCED levels in the Interior air sample collected in Classroom 20 as compared to the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 21 and 22.**

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

- **These species were detected REDUCED levels in the Interior air samples collected in Classrooms 35 and 36 as compared to the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 33 and 34.**

Basidospores are 'mushroom' spores. These spores are cosmopolitan and ubiquitous and consist of approximately 1,200 genera. Some forms (asexual) *Basidospores* may cause rare and opportunistic infections. *Basidospores* are commonly found in gardens, forests and woodlands. *("Significant Species")*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 3-11 (Classrooms 3-11 Buildings)

- **These species were detected REDUCED levels in the Interior air samples collected in Classrooms 3 and 8 as compared to the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 4, 5, 6, 7, 9, 10, and 11.**

SPECIES IDENTIFICATION *(continued)*

Basidospores Sp. (continued)

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

- **These species were detected REDUCED levels in the Interior air sample collected in Classroom 19 as compared to the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 14, 16, and 18.**

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

- **These species were detected REDUCED levels in the Interior air sample collected in Classroom 22 as compared to the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 20 and 21.**

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

- **These species were detected REDUCED levels in the Interior air sample collected in Classroom 30 as compared to the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 27, 28, and 31.**

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

- **These species were detected REDUCED levels in the Interior air sample collected in Classroom 35 as compared to the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 33, 34, and 36.**

Chaetomium Species are ubiquitous and are cosmopolitan fungi of soil, decomposing plant material, especially woody or straw-like material as well as from herbivore dung. The allergenicity of Chaetomium is not well studied. Chaetomium are common allergens with Type I allergies (hay fever, asthma). *Chaetomium Species* are very uncommonly an agent of onychomycosis or subcutaneous or deep infection in humans. *("Significant Species")*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 3-11 (Classrooms 3-11 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Cladosporium Species are cosmopolitan fungi of soil, plant debris and leaf surfaces. Cladosporium is very frequently isolated from air, especially during seasons in which humidity is elevated. *Cladosporium* is generally non-pathogenic, but is a common and important allergen, including Type I allergies (hay fever, asthma) and Type III hypersensitivity pneumonitis (Hot tub lung, Moldy wall hypersensitivity). *("Non-Significant Species")*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

- **These species were detected in REDUCED levels in the Interior air samples collected in Classrooms K1 and K3 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air sample collected in Classroom K2.**

Classrooms 3-11 (Classrooms 3-11 Buildings)

- **These species were detected in REDUCED levels in the Interior air samples collected in Classrooms 3, 4, 8, and 9 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 5, 6, 7, 10, and 11.**

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

- **These species were detected in REDUCED levels in the Interior air samples collected in Classrooms 18 and 19 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 14 and 16.**

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

- **These species were detected in REDUCED levels in the Interior air samples collected in Classroom 22 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 20 and 21.**

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

- **These species were detected in REDUCED levels in the Interior air samples collected in Classrooms 27 and 30 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 28 and 31.**

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

- **These species were detected in REDUCED levels in the Interior air samples collected in Classrooms 33, 34, 35, and 36 as compared to the corresponding Exterior air samples.**

Epicoccum Species are cosmopolitan fungi isolated from infected plants, litter and soil. *Epicoccum* are common allergens with Type I allergies (hay fever, asthma). No cases of infection have been recorded in humans or animals. *("Non-Significant Species")*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 3-11 (Classrooms 3-11 Buildings)

- **These species were ONLY detected in the Interior air sample collected in Classroom 10. *(Note: Only detected in the lowest level,)***
- **These species were NOT detected in the Interior air samples collected in Classrooms 3, 4, 5, 6, 7, 8, 9, and 11, or in any of the corresponding Exterior air samples for these Classrooms.**

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

SPECIES IDENTIFICATION *(continued)*

Epicoccum Sp. (continued)

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Myxomycetes - are ubiquitous and cosmopolitan and are of the taxonomical fungal category - slime molds. Most of these spore types are not seen with culturable methods (Anderson Sampling), although some may appear as non-sporulating fungi. *Myxomycetes* are found on decaying wood and dead leaves particularly in forested regions. *Myxomycetes* are a constituent of Type I allergies which include hay fever and asthma. *Myxomycetes* do not produce any potential toxins. *("Non-Significant Species")*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 3-11 (Classrooms 3-11 Buildings)

- **These species were detected in REDUCED levels in the Interior air samples collected in Classrooms 7, 8, 10, and 11 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 3, 4, 5, 6, and 9.**

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

- **These species were detected in REDUCED levels in the Interior air samples collected in Classrooms 16, 18, and 19 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air sample collected in Classroom 14.**

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

- **These species were detected in REDUCED levels in the Interior air samples collected in Classrooms 20 and 21 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air sample collected in Classroom 22.**

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

- **These species were detected in REDUCED levels in the Interior air sample collected in Classroom 27 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 28, 30, and 31.**

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Oidium species are the asexual state of *Erysiphe species*. *Erysiphe species* are plant pathogens, one of the genera causing powdery mildews. *Erysiphe* is very common and is an obligate parasite on leaves, stems, flowers, and fruits of living higher plants. No information is available regarding health effects or toxicity. The *Oidium* spores are also seen in dust as part of the normal influx of outdoor microbial particles. The allergenicity of the species has not been studied. *("Non-Significant Species")*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 3-11 (Classrooms 3-11 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

SPECIES IDENTIFICATION *(continued)*

Oidium Sp. (continued)

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

- **These species were ONLY detected in the Interior air sample collected in Classroom 19. *(Note: Only detected in extremely low levels,)***
- **These species were NOT detected in any of the Interior air samples collected in Classrooms 14, 16, and 18 or the corresponding Exterior air samples for these Classrooms.**

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Other Brown types are spores with no distinct morphology. Health effects cannot be quantified. *("Non-Significant Species")*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 3-11 (Classrooms 3-11 Buildings)

- **These species were ONLY detected in the Interior air samples collected in Classrooms 6 and 8. *(Note: Only detected in the lowest level,)***
- **These species were NOT detected in any of the Interior air samples collected in Classrooms 3, 4, 5, 7, 9, 10, and 11, or the corresponding Exterior air samples for these Classrooms.**

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

- **These species were ONLY detected in the Interior air sample collected in Classrooms 20. *(Note: Only detected in the lowest level,)***
- **These species were NOT detected in any of the Interior air samples collected in Classrooms 21 and 22, or the corresponding Exterior air samples for these Classrooms.**

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

- **These species were ONLY detected in the Interior air sample collected in Classroom 35. *(Note: Only detected in extremely low levels,)***
- **These species were NOT detected in any of the Interior air samples collected in Classrooms 33, 34, and 36, or the corresponding Exterior air samples for these Classrooms.**

Penicillium Species are cosmopolitan predominant in regions of temperate climate. Penicillia figure among the most common types of fungi isolated from the environment, some are commonly implicated in the deterioration of food products. *("Significant Species")*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 3-11 (Classrooms 3-11 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

- **These species were detected REDUCED levels in the Interior air sample collected in Classroom 20 as compared to the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 21 and 22.**

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

- **These species were detected REDUCED levels in the Interior air samples collected in Classrooms 35 and 36 as compared to the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 33 and 34.**

Periconia Species are cosmopolitan predominant in soil, rotting vegetative matter, it is almost always associated with other fungi. Most of these spore types are not seen with culturable methods (Anderson Sampling), although some may appear as non-sporulating fungi. The allergenicity has not been studied of this species however; rare cases of mycotic keratitis have been reported. *Periconia Species* are rarely found growing indoors. *("Significant Species")*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 3-11 (Classrooms 3-11 Buildings)

- **These species were detected in REDUCED levels in the Interior air samples collected in Classrooms 7, 8, 10, and 11 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 3, 4, 5, 6, and 9.**

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

- **These species were detected in REDUCED levels in the Interior air samples collected in Classrooms 16, 18, and 19 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air sample collected in Classroom 14.**

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

- **These species were detected in REDUCED levels in the Interior air samples collected in Classrooms 20 and 21 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air sample collected in Classroom 22.**

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

- **These species were detected in REDUCED levels in the Interior air sample collected in Classroom 27 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 28, 30, and 31.**

SPECIES IDENTIFICATION *(continued)*

Periconia Species Sp. (continued)

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Pithomyces Species are cosmopolitan fungi isolated from decaying wood and other plant material and from soil. No cases of infection have been recorded in humans or animals. *("Non-Significant Species")*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 3-11 (Classrooms 3-11 Buildings)

- **These species were ONLY detected in the Interior air sample collected in Classroom 5. *(Note: Only detected in the lowest level,)***
- **These species were NOT detected in any of the Interior air samples collected in Classrooms 3, 4, 6, 7, 8, 9, 10, and 11, or the corresponding Exterior air samples for these Classrooms.**

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Rusts are ubiquitous and cosmopolitan with approximately 14 families and 105 genera and 5,000 species. *Rusts* are found on grasses, flowers, trees and other living plants. *Rusts* are a constituent for Type I allergies which include hay fever and asthma. The potential toxin production of *Rusts* is unknown; however, no cases of infection have been recorded in humans or animals. *Rusts* are plant pathogens. *("Non-Significant Species")*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

- **These species were ONLY detected in the Interior air samples collected in Classrooms K1 and K2. *(Note: Only detected in the lowest level,)***
- **These species were NOT detected in the Interior air sample collected in Classroom K3, or any of the corresponding Exterior air samples for these Classrooms.**

Classrooms 3-11 (Classrooms 3-11 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

SPECIES IDENTIFICATION *(continued)*

Rusts Sp. (continued)

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Smuts – Most of these spore types are not seen with culturable methods (Anderson Sampling), although some may appear as non-sporulating fungi. *Smuts* are a constituent of Type I allergies which include hay fever and asthma. There have been no reports of human infection by the plant parasitic forms. *("Non-Significant Species")*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 3-11 (Classrooms 3-11 Buildings)

- **These species were detected in REDUCED levels in the Interior air samples collected in Classrooms 7, 8, 10, and 11 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 3, 4, 5, 6, and 9.**

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

- **These species were detected in REDUCED levels in the Interior air samples collected in Classrooms 16, 18, and 19 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air sample collected in Classroom 14.**

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

- **These species were detected in REDUCED levels in the Interior air samples collected in Classrooms 20 and 21 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air sample collected in Classroom 22.**

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

- **These species were detected in REDUCED levels in the Interior air sample collected in Classroom 27 as compared to the corresponding Exterior air samples.**
- **These species were NOT detected in the Interior air samples collected in Classrooms 28, 30, and 31.**

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Stachybotrys Species are cosmopolitan, isolated from decaying plant material and soil. Prominent indoor habitats include water-damaged wallpaper, jute carpet backing (and associated glue), moist debris in ducts and damp papers and books. In humans, symptoms are noted following inhalation or percutaneous absorption. Several cases of fatal intoxication have been noted in farm animals that have eaten feed contaminated by this fungus. Symptoms such as fatigue, respiratory aliments, and eye irritation have been observed in cases. Furthermore, some studies have suggested an association between *Stachybotrys* and pulmonary hemorrhage/hermosiderosis in infants, generally those less than six months old. *("Significant Species")*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 3-11 (Classrooms 3-11 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

SPECIES IDENTIFICATION *(continued)*

Stachybotrys Sp. (continued)

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Torula Species are ubiquitous isolated from soil, dead wood, grasses, groundnuts and oats. Growth indoors is most common on cellulose material such as jute, wicker, straw baskets, wood and paper. No cases of infection have been reported in humans. *("Non-Significant Species")*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

- **These species were ONLY detected in the Interior air sample collected in Classroom K1. *(Note: Only detected in the lowest level,)***
- **These species were NOT detected in any of the Interior air samples collected in Classroom K2 and K3, or the corresponding Exterior air samples for these Classrooms.**

Classrooms 3-11 (Classrooms 3-11 Buildings)

- **These species were NOT detected in any of the Interior air samples or the corresponding Exterior air samples for these Classrooms.**

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

- **These species were ONLY detected in the corresponding Exterior air samples for these Classrooms.**
- **These species were NOT detected in any of the Interior air samples for these Classrooms.**

SAMPLING SUMMARY

Air Sampling – Spore Trap

Significant mold genera are those that have known historical incidents of acute allergenicity or infection in humans. Non-significant mold genera are those that have no known historical incidents of allergenicity or infection in humans. Please note: all of the species identified in the air sampling may have some level of allergenicity.

Air Sampling – Spore Trap *(continued)*

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

Significant Mold Genera
Six (6) significant mold genera were identified during this sampling for these Classrooms:

- **NOTE: NONE OF THE SIGNIFICANT MOLD GENERAL IDENTIFIED INDICATED THE PRESENCE OF OR AN ELEVATION IN THESE CLASSROOMS.**

- One (1) of the significant mold genera that were identified, *(Ascospores Sp.)*, indicated a REDUCTION in the Interior air samples for these Classrooms as compared to Exterior air samples for these Classrooms. ***(in Classroom K1 only)***

- Five (5) of the significant mold genera that were identified, *(Aspergillus Sp., Basidiospores Sp., Chaetomium Sp., Penicillium Sp., and Stachybotrys Sp.)*, were **ONLY** found in the Exterior air samples and **were NOT detected on any of the Interior air samples**.

Non-Significant Mold Genera
Five (5) non-significant mold genera were identified during this sampling for these Classrooms:

- Two (2) of the non-significant mold genera that were identified, *(Rust Sp., and Torula Sp.)*, were only detected in the Interior air samples, but **IN THE LOWEST LEVEL DETECTABLE. *(Rust Sp. in Classrooms K1 and K2; Torula Sp. in Classroom K1 only)***

- One (1) of the non-significant mold genera that were identified, *(Cladosporium Sp.)*, indicated a REDUCTION in the Interior air samples for these Classrooms as compared to Exterior air samples for these Classrooms. ***(in Classrooms K1 and K3 only)***

- One (1) of the non-significant mold genera that were identified, *(Cladosporium Sp.)*, indicated a REDUCTION in the Interior air samples for these Classrooms as compared to Exterior air samples for these Classrooms. ***(in Classrooms K1 and K3 only)***

- Two (2) of the non-significant mold genera that were identified, *(Myxomycetes Sp. and Smuts Sp.)*, were **ONLY** found in the Exterior air samples and **were NOT detected on any of the Interior air samples**.

Classrooms 3-11 (Classrooms 3-11 Buildings)

Significant Mold Genera
Four (4) significant mold genera were identified during this sampling for these Classrooms:

- **NOTE: NONE OF THE SIGNIFICANT MOLD GENERAL IDENTIFIED INDICATED THE PRESENCE OF OR AN ELEVATION IN THESE CLASSROOMS.**

- Two (2) of the significant mold genera that were identified, *(Basidiospores Sp. and Periconia Sp.)*, indicated a REDUCTION in the Interior air samples for these Classrooms as compared to Exterior air samples for these Classrooms. ***(Basidiospores in Classrooms 3 and 8 only; Periconia Sp. in Classrooms 7, 8, 10, and 11 only)***

- Two (2) of the significant mold genera that were identified, *(Aspergillus Sp. and Penicillium Sp.)*, were **ONLY** found in the Exterior air samples and **were NOT detected on any of the Interior air samples**.

Air Sampling – Spore Trap *(continued)*

Classrooms 3-11 (Classrooms 3-11 Buildings) *(continued)*

Non-Significant Mold Genera
Six (6) non-significant mold genera were identified during this sampling for these Classrooms:

- Three (3) of the non-significant mold genera that were identified, *(Epicoccum Sp., Other Brown Sp., and Pithomyces Sp.)*, were only detected in the Interior air samples, but **IN THE LOWEST LEVEL DETECTABLE.** ***(Epicoccum Sp. in Classroom 10 only; Other Brown Sp. in Classrooms 6 and 8 only; Pithomyces Sp. in Classroom 5 only)***

- Three (3) of the non-significant mold genera that were identified, *(Cladosporium Sp., Myxomycetes Sp., and Smuts Sp.)*, indicated a REDUCTION in the Interior air samples for these Classrooms as compared to Exterior air samples for these Classrooms. ***(Cladosporium Sp. in Classrooms 3, 4, 8, and 9 only; Myxomycetes Sp. and Smuts Sp. in Classrooms 7, 8, 10, and 11 only)***

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

Significant Mold Genera
Five (5) significant mold genera were identified during this sampling for these Classrooms:

- One (1) of the significant mold genera that were identified, *(Altenaria Sp.)*, was only identified in the Interior air samples, but **IN EXTREMELY LOW LEVELS**, and was not identified in any of the corresponding Exterior air samples for these Classroom. ***(in Classroom 16 only)***

- Two (2) of the significant mold genera that were identified, *(Basidiospores Sp. and Periconia Sp.)*, indicated a REDUCTION in the Interior air samples for these Classrooms as compared to Exterior air samples for these Classrooms. ***(Basidiospores in Classroom 19 only; Periconia Sp. in Classrooms 16, 18, and 19 only)***

- Two (2) of the significant mold genera that were identified, *(Aspergillus Sp. and Penicillium Sp.)*, were ONLY detected in the Exterior air samples and were NOT detected on any of the Interior air samples for these Classrooms.

Non-Significant Mold Genera
Five (5) non-significant mold genera were identified during this sampling for these Classrooms:

- One (1) of the non-significant mold genera that were identified, *(Oidium Sp.)*, were only detected in the Interior air samples, but **IN THE LOWEST LEVEL DETECTABLE.** ***(in Classroom 19 only)***

- Three (3) of the non-significant mold genera that were identified, *(Cladosporium Sp., Myxomycetes Sp., and Smuts Sp.)*, indicated a REDUCTION in the Interior air samples for these Classrooms as compared to Exterior air samples for these Classrooms. ***(Cladosporium Sp. in Classrooms 18 and 19 only; Myxomycetes Sp. and Smuts Sp. in Classrooms 16, 18, and 19 only)***

- One (1) of the non-significant mold genera that were identified, *(Torula Sp.)*, were **ONLY** detected in the Exterior air samples and **were NOT detected on any of the Interior air samples for these Classrooms**.

Air Sampling – Spore Trap *(continued)*

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

Significant Mold Genera
Four (4) significant mold genera were identified during this sampling for these Classrooms:

- **NOTE: NONE OF THE SIGNIFICANT MOLD GENERAL IDENTIFIED INDICATED THE PRESENCE OF OR AN ELEVATION IN THESE CLASSROOMS.**

- All four (4) of the significant mold genera that were identified, *(Aspergillus Sp., Basidiospores Sp., Penicillium Sp., and Periconia Sp.)*, indicated a REDUCTION in the Interior air samples for these Classrooms as compared to Exterior air samples for these Classrooms. ***(Aspergillus Sp. and Penicillium Sp. in Classroom 20 only; Basidiospores Sp. in Classroom 22 only; Periconia Sp. in Classrooms 20 and 21 only)***

Non-Significant Mold Genera
Five (5) non-significant mold genera were identified during this sampling for these Classrooms:

- One (1) of the non-significant mold genera that were identified, *(Other Brown Sp.)*, were only detected in the Interior air samples, but **IN THE LOWEST LEVEL DETECTABLE. *(in Classroom 20 only)***

- Three (3) of the non-significant mold genera that were identified, *(Cladosporium Sp., Myxomycetes Sp., and Smuts Sp.)*, indicated a REDUCTION in the Interior air samples for these Classrooms as compared to Exterior air samples for these Classrooms. ***(Cladosporium Sp. in Classroom 22 only; Myxomycetes Sp. and Smuts Sp. in Classrooms 20 and 21 only)***

- One (1) of the non-significant mold genera that were identified, *(Torula Sp.)*, were only detected in the Exterior air samples and **were NOT detected on any of the Interior air samples for these Classrooms**.

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

Significant Mold Genera
Four (4) significant mold genera were identified during this sampling for these Classrooms:

- **NOTE: NONE OF THE SIGNIFICANT MOLD GENERAL IDENTIFIED INDICATED THE PRESENCE OF OR AN ELEVATION IN THESE CLASSROOMS.**

- Two (2) of the significant mold genera that were identified, *(Basidiospores Sp. and Periconia Sp.)*, indicated a REDUCTION in the Interior air samples for these Classrooms as compared to Exterior air samples for these Classrooms. ***(Basidiospores Sp. in Classroom 30 only; Periconia Sp. in Classroom 27 only)***

- Two (2) of the significant mold genera that were identified, *(Aspergillus Sp. and Penicillium Sp.)*, were ONLY detected in the Exterior air samples and were NOT detected on any of the Interior air samples for these Classrooms.

Air Sampling – Spore Trap *(continued)*

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings) *(continued)*

Non-Significant Mold Genera
Three (3) non-significant mold genera were identified during this sampling for these Classrooms:

- All three (3) of the non-significant mold genera that were identified, *(Cladosporium Sp., Myxomycetes Sp., and Smuts Sp.)*, indicated a REDUCTION in the Interior air samples for these Classrooms as compared to Exterior air samples for these Classrooms. ***(Cladosporium Sp. in Classrooms 27 and 30 only; Myxomycetes Sp. and Smuts Sp. in Classroom 27 only)***

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

Significant Mold Genera
Five (5) significant mold genera were identified during this sampling for these Classrooms:

- One (1) of the significant mold genera that were identified, *(Altenaria Sp.)*, was only identified in the Interior air samples, but **IN THE LOWEST LEVEL DETECTABLE**, and was not identified in any of the corresponding Exterior air samples for these Classroom. ***(in Classroom 33 only)***

- Three (3) of the significant mold genera that were identified, *(Aspergillus Sp., Basidiospores Sp., and Penicillium Sp.)*, indicated a REDUCTION in the Interior air samples for these Classrooms as compared to Exterior air samples for these Classrooms. ***(Aspergillus Sp. and Penicillium Sp. in Classrooms 35 and 36 only; Basidiospores Sp. in Classroom 35 only)***

- One (1) of the significant mold genera that were identified, *(Periconia Sp.)*, were ONLY detected in the Exterior air samples and were NOT detected on any of the Interior air samples for these Classrooms.

Non-Significant Mold Genera
Five (5) non-significant mold genera were identified during this sampling for these Classrooms:

- One (1) of the non-significant mold genera that were identified, *(Other Brown Sp.)*, were only detected in the Interior air samples, but **IN THE LOWEST LEVEL DETECTABLE. *(in Classroom 35 only)***

- One (1) of the non-significant mold genera that were identified, *(Cladosporium Sp.)*, indicated a REDUCTION in the Interior air samples for these Classrooms as compared to Exterior air samples for these Classrooms. ***(in all Classrooms, 33, 34, 35, and 36)***

- Three (3) of the non-significant mold genera that were identified, *(Myxomycetes Sp., Smuts Sp., and Torula Sp.)*, were ONLY detected in the Exterior air samples and were NOT detected on any of the Interior air samples for these Classrooms.

Air Sampling – Other Biologicals

The following is listing of the particulates found in the Interior air samples for these Classrooms and the corresponding Exterior air samples for these Classrooms. These finding are only presented to illustrate the condition of the Indoor air environment as it compares to the "fresh air" supply from the corresponding Exterior air environments.

Air Sampling – Other Biologicals ***(continued)***

Classrooms K1-K3 (Classrooms K1-K3 Buildings)

Fourteen (14) Other Biological Particles were identified during this sampling for these Classrooms.

- Three (3) of the Other Biological Particles identified, [OTHER PARTICLES: ANIMAL-Epithelial(Skin); OTHER PARTICLES: NON-BIOLOGICAL-Cellulose Fibers; and OTHER PARTICLES: NON-BIOLOGICAL-Synthetic Fibers], indicated an ELEVATION in the Interior air samples as compared to the corresponding Exterior air samples for these Classrooms. ***(all three (3) of these types of Other Biological Particles were found in Elevations in Classrooms K1, K2, and K3)***

- Three (3) of the Other Biological Particles identified, [POLLEN: Other; OTHER PLANT-Other (wood, trichomes, etc.); and OTHER PARTICLES: NON-BIOLOGICAL-Starch Particles], indicated an REDUCTION in the Interior air samples as compared to the corresponding Exterior air samples for these Classrooms. ***(all three (3) of these types of Other Biological Particles were found in Reductions in Classrooms K1, K2, and K3)***

- The remaining eight (8) Other Biological Particles identified, [POLLEN: Cedar/Juniper (Cupressaceae); POLLEN: Elm (Ulmus); POLLEN: Grass (Poaceae); POLLEN: Mulberry (Morus); POLLEN: Oak (Quercus); POLLEN: Pine (Pinaceae); OTHER PARTICLES: FUNGI-Hyphal Fragments; and OTHER PARTICLES: NON-BIOLOGICAL-Glass Fiber], were ONLY detected in the corresponding Exterior air samples for Classrooms collected, and were NOT detected in the Interior air samples.

Classrooms 3-11 (Classrooms 3-11 Buildings)

Thirteen (13) Other Biological Particles were identified during this sampling for these Classrooms.

- One (1) of the Other Biological Particles identified, [POLLEN: Pine (Pinaceae)], was ONLY identified in the Interior air samples for these Classrooms and were NOT detected in the corresponding Exterior air samples for these Classrooms. ***(in Classrooms 8 and 9 only)***

- Four (4) of the Other Biological Particles identified, [OTHER PARTICLES: ANIMAL-Epithelial(Skin); OTHER PARTICLES: NON-BIOLOGICAL-Cellulose Fibers; OTHER PARTICLES: NON-BIOLOGICAL-Starch Particles; and OTHER PARTICLES: NON-BIOLOGICAL-Synthetic Fibers], indicated an ELEVATION in the Interior air samples as compared to the corresponding Exterior air samples for these Classrooms. ***(OTHER PARTICLES: ANIMAL-Epithelial(Skin) were detected in Elevations in Classrooms 3, 4, 5, 6, 7, 8, 9, 10, and 11 only; OTHER PARTICLES: NON-BIOLOGICAL-Cellulose Fibers were detected in Elevations in Classrooms 3, 4, 6, 7, 8, 9, 10, and 11 only; OTHER PARTICLES: NON-BIOLOGICAL-Starch Particles were detected in Elevations in Classrooms 3, 4, 5, 7, 10, and 11 only; and OTHER PARTICLES: NON-BIOLOGICAL-Synthetic Fibers were detected in Elevations in Classrooms 3, 4, 5, 6, 7, 8, 9, 10, and 11 only)***

Air Sampling – Other Biologicals ***(continued)***

Classrooms 3-11 (Classrooms 3-11 Buildings) ***(continued)***

- Seven (7) of the Other Biological Particles identified, [POLLEN: Oak (Quercus); POLLEN: Other; OTHER PLANT-Other (wood, trichomes, etc.); OTHER PARTICLES: FUNGI-Hyphal Fragments; OTHER PARTICLES: NON-BIOLOGICAL-Cellulose Fibers; OTHER PARTICLES: NON-BIOLOGICAL-Glass Fiber; and OTHER PARTICLES: NON-BIOLOGICAL-Starch Particles], indicated an REDUCTION or EQUIVALENCY in the Interior air samples as compared to the corresponding Exterior air samples for these Classrooms. ***(POLLEN: Oak (Quercus) were detected in Reductions in Classroom 8); POLLEN: Other were detected in Reductions in Classrooms 4, 8, and 9 only; OTHER PLANT-Other (wood, trichomes, etc.) were detected in Reductions in Classrooms 3, 4, 6, 7, 8, 9, 10, and 11 only; OTHER PARTICLES: FUNGI-Hyphal Fragments were detected in Reductions in Classrooms 10 and 11 only; OTHER PARTICLES: NON-BIOLOGICAL-Cellulose Fibers were detected in Reductions in Classroom 5 only; OTHER PARTICLES: NON-BIOLOGICAL-Glass Fiber were detected in Reductions in Classrooms 3, 4, and 8 only; and OTHER PARTICLES: NON-BIOLOGICAL-Starch Particles were detected in Equivalency in Classroom 9 only)***

- The remaining three (3) Other Biological Particles identified, [POLLEN: Cedar/Juniper (Cupressaceae); POLLEN: Elm (Ulmus); and POLLEN: Mulberry (Morus)], were ONLY detected in the corresponding Exterior air samples for Classrooms collected, and were NOT detected in the Interior air samples.

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings)

Twelve (12) Other Biological Particles were identified during this sampling for these Classrooms.

- One (1) of the Other Biological Particles identified, [POLLEN: Pine (Pinaceae)], was ONLY identified in the Interior air samples for these Classrooms and were NOT detected in the corresponding Exterior air samples for these Classrooms. ***(in Classroom 18 only)***

- Four (4) of the Other Biological Particles identified, [OTHER PARTICLES: ANIMAL-Epithelial(Skin); OTHER PARTICLES: NON-BIOLOGICAL-Cellulose Fibers; OTHER PARTICLES: NON-BIOLOGICAL-Starch Particles; and OTHER PARTICLES: NON-BIOLOGICAL-Synthetic Fibers], indicated an ELEVATION in the Interior air samples as compared to the corresponding Exterior air samples for these Classrooms. ***(OTHER PARTICLES: ANIMAL-Epithelial(Skin) were detected in Elevations in Classrooms 14, 16, 18, and 19 only; OTHER PARTICLES: NON-BIOLOGICAL-Cellulose Fibers were detected in Elevations in Classrooms 14, 16, 18, and 19 only; OTHER PARTICLES: NON-BIOLOGICAL-Starch Particles were detected in Elevations in Classrooms 16 and 19 only; and OTHER PARTICLES: NON-BIOLOGICAL-Synthetic Fibers were detected in Elevations in Classrooms 14, 16, 18, and 19 only)***

- Five (5) of the Other Biological Particles identified, [POLLEN: Oak (Quercus); POLLEN: Other; OTHER PLANT-Other (wood, trichomes, etc.); OTHER PARTICLES: FUNGI-Hyphal Fragments; and OTHER PARTICLES: NON-BIOLOGICAL-Glass Fiber], indicated an REDUCTION in the Interior air samples as compared to the corresponding Exterior air samples for these Classrooms. ***(POLLEN: Oak (Quercus) were detected in Reductions in Classrooms 16 and 19 only); POLLEN: Other were detected in Reductions in Classrooms 14, 16, and 19 only; OTHER PLANT-Other (wood, trichomes, etc.) were detected in Reductions in Classrooms 16, 18, and 19 only; OTHER PARTICLES: FUNGI-Hyphal Fragments were detected in Reductions in Classroom 16 only; and OTHER PARTICLES: NON-BIOLOGICAL-Glass Fiber were detected in Reductions in Classrooms 18 and 19 only)***

Air Sampling – Other Biologicals ***(continued)***

Classrooms 14, 16, 18, and 19 (Classrooms 12-19 Buildings) ***(continued)***

- The remaining two (2) Other Biological Particles identified, [POLLEN: Cedar/Juniper (Cupressaceae); and OTHER PARTICLES: ANIMAL-Insect Parts], were ONLY detected in the corresponding Exterior air samples for Classrooms collected, and were NOT detected in the Interior air samples.

Classrooms 20, 21, and 22 (Classrooms 20-26 Buildings)

Twelve (12) Other Biological Particles were identified during this sampling for these Classrooms.

- One (1) of the Other Biological Particles identified, [POLLEN: Pine (Pinaceae)], was ONLY identified in the Interior air samples for these Classrooms and were NOT detected in the corresponding Exterior air samples for these Classrooms. ***(in Classroom 20 only)***

- Four (4) of the Other Biological Particles identified, [OTHER PARTICLES: ANIMAL-Epithelial(Skin); OTHER PARTICLES: NON-BIOLOGICAL-Cellulose Fibers; OTHER PARTICLES: NON-BIOLOGICAL-Starch Particles; and OTHER PARTICLES: NON-BIOLOGICAL-Synthetic Fibers], indicated an ELEVATION in the Interior air samples as compared to the corresponding Exterior air samples for these Classrooms. ***(OTHER PARTICLES: ANIMAL-Epithelial(Skin) were detected in Elevations in Classrooms 20, 21, and 22 only; OTHER PARTICLES: NON-BIOLOGICAL-Cellulose Fibers were detected in Elevations in Classrooms 20, 21, and 22 only; OTHER PARTICLES: NON-BIOLOGICAL-Starch Particles were detected in Elevations in Classroom 21 only; and OTHER PARTICLES: NON-BIOLOGICAL-Synthetic Fibers were detected in Elevations in Classrooms 20 and 21 only)***

- Two (2) of the Other Biological Particles identified, [OTHER PLANT-Other (wood, trichomes, etc.); and OTHER PARTICLES: NON-BIOLOGICAL-Starch Particles], indicated an REDUCTION or EQUIVALENCY in the Interior air samples as compared to the corresponding Exterior air samples for these Classrooms. ***(OTHER PLANT-Other (wood, trichomes, etc.) were detected in Reductions in Classrooms 21 and 22 only; OTHER PARTICLES: NON-BIOLOGICAL-Starch Particles were detected in Equivalencies in Classrooms 20 and 22 only.)***

- The remaining six (6) Other Biological Particles identified, [POLLEN: Cedar/Juniper (Cupressaceae); POLLEN: Oak (Quercus); POLLEN: Other; OTHER PARTICLES: ANIMAL-Insect Parts; OTHER PARTICLES: FUNGI-Hyphal Fragments; and OTHER PARTICLES: NON-BIOLOGICAL-Glass Fiber], were ONLY detected in the corresponding Exterior air samples for Classrooms collected, and were NOT detected in the Interior air samples.

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings)

Fourteen (14) Other Biological Particles were identified during this sampling for these Classrooms.

- Three (3) of the Other Biological Particles identified, [POLLEN: Alder (Alnus); POLLEN: Mulberry (Morus); and POLLEN: Pine (Pinaceae)], was ONLY identified in the Interior air samples for these Classrooms and were NOT detected in the corresponding Exterior air samples for these Classrooms. ***(POLLEN: Alder (Alnus) in Classroom 31 only; POLLEN: Mulberry (Morus); in Classroom 28 only; and POLLEN: Pine (Pinaceae) in Classroom 30 only)***

Air Sampling – Other Biologicals ***(continued)***

Classrooms 27, 28, 30, and 31 (Classrooms 27-32 Buildings) ***(continued)***

- Four (4) of the Other Biological Particles identified, [OTHER PARTICLES: ANIMAL-Epithelial(Skin); OTHER PARTICLES: NON-BIOLOGICAL-Cellulose Fibers; OTHER PARTICLES: NON-BIOLOGICAL-Starch Particles; and OTHER PARTICLES: NON-BIOLOGICAL-Synthetic Fibers], indicated an ELEVATION in the Interior air samples as compared to the corresponding Exterior air samples for these Classrooms. ***(OTHER PARTICLES: ANIMAL-Epithelial(Skin) were detected in Elevations in Classrooms 27, 28, 30, and 31 only; OTHER PARTICLES: NON-BIOLOGICAL-Cellulose Fibers were detected in Elevations in Classrooms 27, 28, 30, and 31 only; OTHER PARTICLES: NON-BIOLOGICAL-Starch Particles were detected in Elevations in Classroom 30 only; and OTHER PARTICLES: NON-BIOLOGICAL-Synthetic Fibers were detected in Elevations in Classrooms 28, 30, and 31 only)***

- Eight (8) of the Other Biological Particles identified, [POLLEN: Cedar/Juniper (Cupressaceae); POLLEN: Oak (Quercus); POLLEN: Other; OTHER PLANT-Other (wood, trichomes, etc.); OTHER PARTICLES: ANIMAL-Insect Parts; OTHER PARTICLES: FUNGI-Hyphal Fragments; OTHER PARTICLES: NON-BIOLOGICAL-Glass Fiber; OTHER PARTICLES: NON-BIOLOGICAL-Starch Particles; and OTHER PARTICLES: NON-BIOLOGICAL-Synthetic Fibers], indicated an REDUCTION or EQUIVALENCY in the Interior air samples as compared to the corresponding Exterior air samples for these Classrooms. ***(POLLEN: Cedar/Juniper (Cupressaceae) were detected in Equivalencies in Classrooms 28 and 31 only; POLLEN: Oak (Quercus) were detected in Reductions in Classroom 28 only; POLLEN: Other was detected in Reductions in Classrooms 27, 30, and 31 only; OTHER PLANT-Other (wood, trichomes, etc.) were detected in Reductions in Classrooms 27, 28, 30, and 31 only; OTHER PARTICLES: ANIMAL-Insect Parts were detected in Equivalencies in Classroom 30 only; OTHER PARTICLES: FUNGI-Hyphal Fragments were detected in Reductions in Classroom 31 only; OTHER PARTICLES: NON-BIOLOGICAL-Glass Fiber were detected in Reductions in Classroom 30 only; OTHER PARTICLES: NON-BIOLOGICAL-Starch Particles were detected in Equivalencies in Classroom 28 only; OTHER PARTICLES: NON-BIOLOGICAL-Synthetic Fibers were detected in Equivalencies in Classroom 27 only.)***

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings)

Twelve (12) Other Biological Particles were identified during this sampling for these Classrooms.

- One (1) of the Other Biological Particles identified, [POLLEN: Mulberry (Morus)], was ONLY identified in the Interior air samples for these Classrooms and were NOT detected in the corresponding Exterior air samples for these Classrooms. ***(in Classroom 35 only)***

- Four (4) of the Other Biological Particles identified, [OTHER PARTICLES: ANIMAL-Epithelial(Skin); OTHER PARTICLES: FUNGI-Hyphal Fragments; OTHER PARTICLES: NON-BIOLOGICAL-Cellulose Fibers; and OTHER PARTICLES: NON-BIOLOGICAL-Synthetic Fibers], indicated an ELEVATION in the Interior air samples as compared to the corresponding Exterior air samples for these Classrooms. ***(OTHER PARTICLES: ANIMAL-Epithelial(Skin) were detected in Elevations in Classrooms 33, 34, 35, and 36 only; OTHER PARTICLES: FUNGI-Hyphal Fragments were detected in Elevations in Classroom 34 only; OTHER PARTICLES: NON-BIOLOGICAL-Cellulose Fibers were detected in Elevations in Classrooms 33, 35, and 36 only; and OTHER PARTICLES: NON-BIOLOGICAL-Synthetic Fibers were detected in Elevations in Classrooms 33 and 35 only)***

Air Sampling – Other Biologicals *(continued)*

Classrooms 33, 34, 35, and 36 (Classrooms 33-37 Buildings) *(continued)*

- Four (4) of the Other Biological Particles identified, [POLLEN: Oak (Quercus); OTHER PLANT-Other (wood, trichomes, etc.); OTHER PARTICLES: NON-BIOLOGICAL-Starch Particles; and OTHER PARTICLES: NON-BIOLOGICAL-Synthetic Fibers], indicated an REDUCTION or EQUIVALENCY in the Interior air samples as compared to the corresponding Exterior air samples for these Classrooms. ***(POLLEN: Oak (Quercus) detected in Equivalencies in Classroom 35 only; OTHER PLANT-Other (wood, trichomes, etc.) were detected in Reductions in Classrooms 34 and 35 only; OTHER PARTICLES: NON-BIOLOGICAL-Starch Particles were detected in Equivalencies in Classrooms 33 and 35 only; and OTHER PARTICLES: NON-BIOLOGICAL-Synthetic Fibers were detected in Equivalencies in Classroom 36.)***

- The remaining four (4) Other Biological Particles identified, [POLLEN: Cedar/Juniper (Cupressaceae); POLLEN: Other; OTHER PARTICLES: ANIMAL-Insect Parts; and OTHER PARTICLES: NON-BIOLOGICAL-Glass Fiber], were ONLY detected in the corresponding Exterior air samples for Classrooms collected, and were NOT detected in the Interior air samples.

1. **Significant Mold Genera: Only Classroom 16 and Classroom 33 indicated the presence of a Significant Mold Genera in the Interior air samples that was not detected in the corresponding Exterior air samples, and was only found at the lowest level of detection. The presence of these Significant Mold Genera may only be anomalies, since the detection levels are so low and no Classroom included in the sampling indicated an elevation of a Significant Mold Genera that was detected in the corresponding Exterior air samples. All other presences of Significant Mold Genera in the Interior air samples were either in a reduced level as compared to the corresponding Exterior air samples, or were only found in the Exterior air samples.**

2. **Non-Significant Mold Genera: Classrooms K1, K2, 5, 6, 8, 10, 19, 20, and 35 all indicated the presence of a Non-Significant Mold Genera in the Interior air samples that was not detected in the corresponding Exterior air samples, and was only found at either the lowest level of detection or extremely low levels of detection. The presence of these Non-Significant Mold Genera may only be anomalies, since the detection levels are so low and no Classroom included in the sampling indicated an elevation of a Non-Significant Mold Genera that was detected in the corresponding Exterior air samples. All other presences of Non-Significant Mold Genera in the Interior air samples were either in a reduced level as compared to the corresponding Exterior air samples, or were only found in the Exterior air samples.**

3. **Other Biological Particles: Classrooms 8, 9, 18, 20, 28, 30, 31, and 35 all indicated the presence of an Other Biological Particle type in the Interior air samples that was not detected in the corresponding Exterior air samples, and was only found at either the lowest level of detection or extremely low levels of detection. The presence of these Other Biological Particle types may only be anomalies, since the detection levels are so low and the disbursement amongst the Classrooms does not indicate any type of causality, pattern, or source.**

RECOMMENDATIONS

While the total spore count for the samples collected inside the Classrooms are lower than the samples collected from the Exterior and no visible signs of water damage or suspect "mold growth" were present at the time of the Site Visit, we are concerned with:

a. the "anomalous" readings of Significant Mold Genera in Classrooms 16 and 33;
b. the "anomalous" reading of Non-Significant Mold Genera in Classrooms K1, K2, 5, 6, 8, 10, 19, 20, and 35;
c. the overall levels of Other Biological Particles found throughout all of the Classrooms included in this Sampling;
d. the proliferation of odors noted in the Classrooms; and
e. the heavy use of oil based air fresheners.

To address these concerns, would we like to recommend the following:

1. Weather permitting, these Classrooms should be given a good airing out to help disperse the accumulated odors, (musty, unclean, or heavily perfumed), inside the Classrooms.

2. The use of oil based air fresheners should be suspended. Overuse of these type of air fresheners may result in reduced air quality once the atomized oils and fragrances become entrained in the soft finishes inside the Classrooms. Additionally, some occupants may experience sensitivities to the scented oils.

3. The ventilation system should be kept on a "continuous flow" cycle at all times during working hours. The fresh air damper of the unit should be set to maximize the fresh air intake into the work areas. The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) ANSI/ASHRAE Standard 62.1 – 2016, Ventilation for Acceptable Air Quantity, recommends at least 15 cfm per person (8 liters per second per person) of outside air be delivered, in all occupied classroom areas.

4. If the District is not already doing so, while these rooms are occupied, the HVAC system should be examined to ensure that it is operating at the Manufacturer's suggested capacity for the installation on a regular maintenance cycle. The filters should be checked to make sure there is no impediment to adequate air flow for the system. This recommendation is being made to address items a-e above.

5. If the District is not already doing so, while these rooms are occupied, the HVAC filters should be replaced on a regular cycle, at a minimum in accordance with the HVAC unit manufacturer's recommended replacement cycle. At the time of replacement on the manufacturer's cycle, if it is found that the filters are heavily clogged, the District may want to increase the frequency of replacement to compensate. This recommendation is being made to address items a-e above.

6. The housekeeping of the Classrooms, while visibly acceptable, could benefit from additional cleaning, especially while these rooms are occupied. This recommendation is being made because of the level of mold spores and particulates detected on the Interior air samples. For any areas with elevated levels of mold spores and/or particulates, if not already employing such units, the District may consider using a HEPA filter equipped vacuum cleaner. This could prevent the airborne dissipation of material collected by regular vacuuming. This recommendation is being made to address items a-e above.

7. After all the Classrooms on Campus have been given a thorough deep cleaning during the summer break of 2018, Classrooms 16 and 33 should be re-sampled to help assess if the detected anomalous Significant Mold Genera was cause by passive transference of the room occupants, and/or carried in through open doors/windows, or if there is actual concealed Interior source.

RECOMMENDATIONS *(continued)*

8. Although Classrooms K1, K2, 5, 6, 8, 10, 19, 20, and 35 only indicated anomalous readings for Non-Significant Mold Genera, (Mold Genera with no history of infections in humans), the District may consider having these rooms re-sampled as well after the summer break of 2018 deep cleaning, again to help assess if the detected anomalous Non-Significant Mold Genera was cause by passive transference of the room occupants, and/or carried in through open doors/windows, or if there is actual concealed Interior source.

DISCLAIMER & LIMITATIONS

Reasonable effort is made by HazMat Doc personnel to locate and sample suspect fungal/mold growth. However, for any facility the existence of unique or concealed fungal/mold growth is a possibility. Conditions of fungal/mold growth can change in short periods of time due to water intrusion, environmental conditions and other factors. In addition, sampling and laboratory analysis constraints typically hinder the investigation. Results of this report represent the conditions at the time of the investigation and sampling only. HazMat Doc does not warrant, guarantee or profess to have the ability to locate or identify all mold and fungi in a facility. Guarantees or assurances against errors and omissions are not expressed or implied

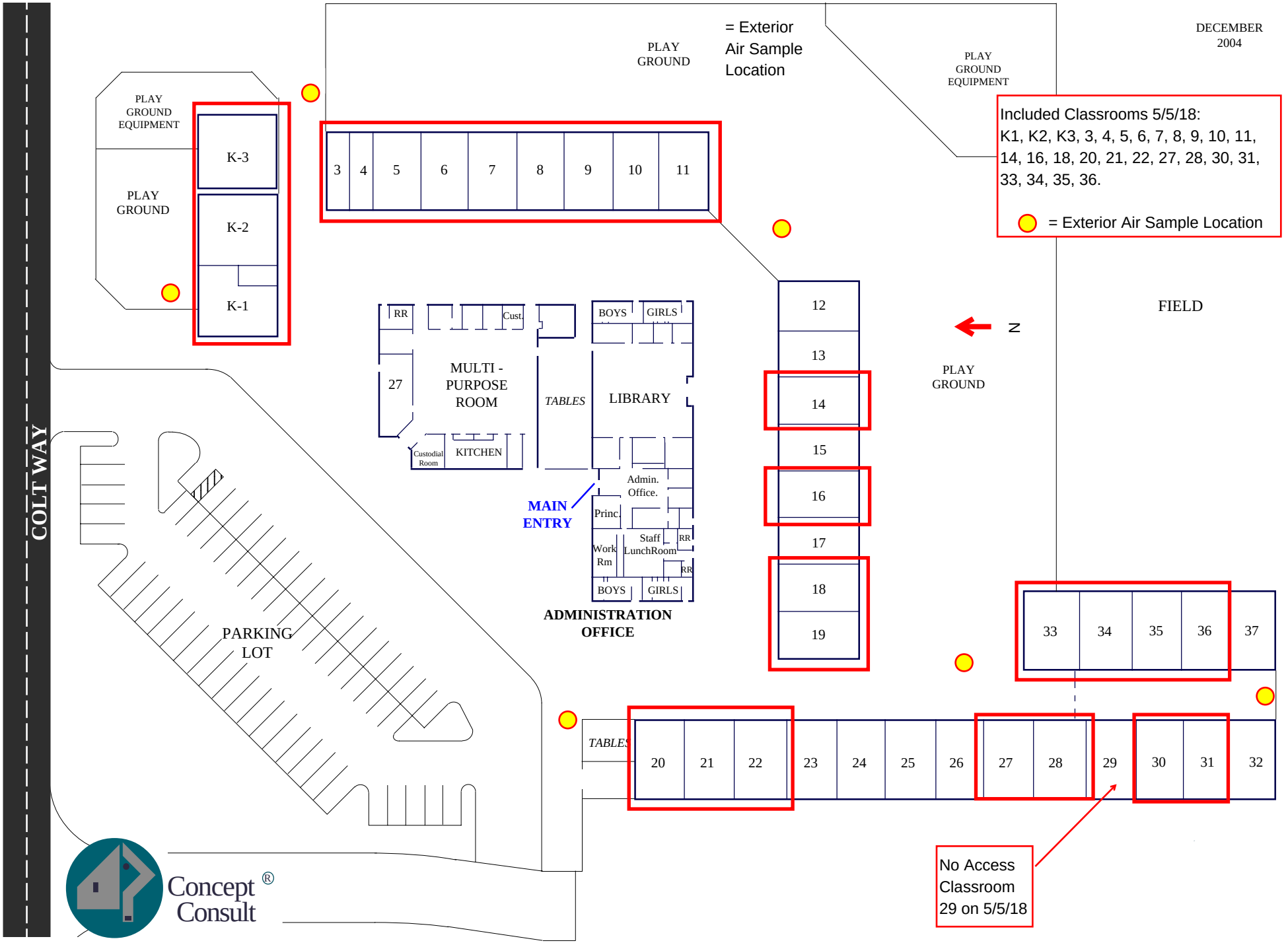
HazMat Doc

Zen Doctor,
Project Manager

References: (1) Identifying Filamentous Fungi. Guy St-Germain & Richard Summerbell, © Star Publishing Co.
(2) Environmental Microbiology Laboratory, Inc., South San Francisco, CA
(3) New York City Department of Health – Bureau of Environmental & Occupational Disease and Epidemiology

PART – II

SITE MAP	DOVE HILL ELEMENTARY SCHOOL	460 COLT WAY, SAN JOSE, CA 95121



EMLab P&K
A TestAmerica Company

Report for:

Ms. Maheen B. Doctor
HazMat Doc
3080 Olcott Street #D-135
Santa Clara, CA 95054

Regarding: Project: 18-079; Dove Hills ES Mold Screening
EML ID: 1923996

Approved by:

Technical Manager
Murali Putty

Dates of Analysis:
Spore trap analysis: 05-10-2018

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #102856

EMLab P&K
6000 Shoreline Ct, Ste 205, So. San Francisco, CA 94080
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	25851032: Classroom #K1/ ambient		25852361: Classroom #K2/ ambient		25852329: Classroom #K3/ ambient		25851207: Classroom #3/ ambient		25851075: Classroom #4/ ambient	
Comments (see below)	None		None		None		None		None	
Lab ID-Version‡:	9046571-1		9046572-1		9046573-1		9046574-1		9046575-1	
Analysis Date:	05/10/2018		05/10/2018		05/10/2018		05/10/2018		05/10/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria										
Ascospores	1	27								
Basidiospores							5	130		
Chaetomium										
Cladosporium	1	27			1	27	1	27	1	27
Epicoccum										
Nigrospora										
Oidium										
Other brown										
Other colorless										
Penicillium/Aspergillus types†										
Pithomyces										
Rusts	1	7	1	7						
Smuts, Periconia, Myxomycetes										
Stachybotrys										
Stemphylium										
Torula	1	7								
Ulocladium										
Zygomycetes										
Background debris (1-4+)††	3+		2+		3+		3+		3+	
Hyphal fragments/m3	< 7		< 7		< 7		< 7		< 7	
Pollen/m3	< 7		7		< 7		< 7		7	
Skin cells (1-4+)	< 1+		1+		< 1+		1+		1+	
Sample volume (liters)	150		150		150		150		150	
§ TOTAL SPORES/m3		67		7		27		160		27

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	25852277: Classroom #5/ ambient		25852301: Classroom #6/ ambient		25851193: Classroom #7/ ambient		25852341: Classroom #8/ ambient	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9046576-1		9046577-1		9046578-1		9046579-1	
Analysis Date:	05/10/2018		05/10/2018		05/10/2018		05/10/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores								
Basidiospores							2	53
Chaetomium								
Cladosporium							1	27
Epicoccum								
Nigrospora								
Oidium								
Other brown			1	7			1	7
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces	1	7						
Rusts								
Smuts, Periconia, Myxomycetes					1	7	1	7
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		3+		2+		3+	
Hyphal fragments/m3	< 7		< 7		< 7		< 7	
Pollen/m3	< 7		< 7		< 7		27	
Skin cells (1-4+)	< 1+		< 1+		< 1+		1+	
Sample volume (liters)	150		150		150		150	
§ TOTAL SPORES/m3		7		7		7		93

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.
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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	25851122: Classroom #9/ ambient		25852393: Classroom #10/ ambient		25882288: Int. CR 11 west side		25852271: Int. CR 14 north side	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9046580-1		9046581-1		9046582-1		9046583-1	
Analysis Date:	05/10/2018		05/10/2018		05/10/2018		05/10/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores								
Basidiospores								
Chaetomium								
Cladosporium	2	53						
Epicoccum			1	7				
Nigrospora								
Oidium								
Other brown								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes			1	7	1	7		
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		3+		3+		2+	
Hyphal fragments/m3	< 7		7		7		< 7	
Pollen/m3	20		< 7		< 7		7	
Skin cells (1-4+)	< 1+		< 1+		1+		< 1+	
Sample volume (liters)	150		150		150		150	
§ TOTAL SPORES/m3		53		13		7		< 7

Comments:

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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	25852280: Int. CR 16 north side		25852299: Int. CR 18 north side		25851067: Int. CR 19 north side		25852365: Int. CR 20 east side	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9046584-1		9046585-1		9046586-1		9046587-1	
Analysis Date:	05/10/2018		05/10/2018		05/10/2018		05/10/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	13						
Ascospores								
Basidiospores					1	27		
Chaetomium								
Cladosporium			1	27	2	53		
Epicoccum								
Nigrospora								
Oidium					2	13		
Other brown							1	7
Other colorless								
Penicillium/Aspergillus types†							2	53
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	1	7	3	20	1	7	1	7
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		4+		3+		2+	
Hyphal fragments/m3	7		< 7		< 7		< 7	
Pollen/m3	20		13		20		7	
Skin cells (1-4+)	1+		1+		< 1+		< 1+	
Sample volume (liters)	150		150		150		150	
§ TOTAL SPORES/m3		20		47		100		67

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.
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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	25852386: Int. CR 21 east side		25851037: Int. CR 22 east side		25852389: Int. CR 27 east side		25852283: Int. CR 28 east side	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9046588-1		9046589-1		9046590-1		9046591-1	
Analysis Date:	05/10/2018		05/10/2018		05/10/2018		05/10/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores								
Basidiospores			1	27				
Chaetomium								
Cladosporium			3	80	1	27		
Epicoccum								
Myrothecium								
Nigrospora								
Oidium								
Other brown								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	1	7			1	7		
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		2+		3+		2+	
Hyphal fragments/m3	< 7		< 7		< 7		< 7	
Pollen/m3	< 7		< 7		7		20	
Skin cells (1-4+)	1+		< 1+		< 1+		< 1+	
Sample volume (liters)	150		150		150		150	
§ TOTAL SPORES/m3		7		110		33		< 7

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.
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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	25852308: Int. CR 30 east side		25851209: Int. CR 31 east side		25852312: Int. CR 33 west side		25852383: Int. CR 34 west side	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9046592-1		9046593-1		9046594-1		9046595-1	
Analysis Date:	05/10/2018		05/10/2018		05/10/2018		05/10/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					1	7		
Ascospores								
Basidiospores	1	27						
Chaetomium								
Cladosporium	1	27			1	27	9	240
Epicoccum								
Myrothecium								
Nigrospora								
Oidium								
Other brown								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		2+		3+		2+	
Hyphal fragments/m3	< 7		7		< 7		13	
Pollen/m3	13		20		< 7		< 7	
Skin cells (1-4+)	< 1+		< 1+		1+		1+	
Sample volume (liters)	150		150		150		150	
§ TOTAL SPORES/m3		53		< 7		33		240

Comments:

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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	25852291: Int. CR 35 west side		25851236: Int. CR 36 west side		25851024: Ext. CR K1 north side		25852343: Ext. CR 3 N/K3 south side	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9046596-1		9046597-1		9046598-1		9046599-1	
Analysis Date:	05/10/2018		05/10/2018		05/10/2018		05/10/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores					29	770	31	830
Basidiospores	3	80			36	960	33	880
Chaetomium					2	13		
Cladosporium	1	27	3	80	22	590	13	350
Epicoccum								
Nigrospora								
Oidium								
Other brown	2	13						
Other colorless								
Penicillium/Aspergillus types†	4	110	4	110	22	590	17	450
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes					25	170	8	53
Stachybotrys					1	7		
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		2+		3+		3+	
Hyphal fragments/m3	< 7		< 7		7		< 7	
Pollen/m3	20		< 7		190		73	
Skin cells (1-4+)	< 1+		< 1+		< 1+		< 1+	
Sample volume (liters)	150		150		150		150	
§ TOTAL SPORES/m3		230		190		3,100		2,600

Comments:

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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	25852336: Ext. 12E/11 south side		25852334: Ext. CR20 north side		25851017: Ext. CR 33N/27E/ 19 south side		25852293: Ext. CR 32 and 37 south side	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9046600-1		9046601-1		9046602-1		9046603-1	
Analysis Date:	05/10/2018		05/10/2018		05/10/2018		05/10/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores	33	880	8	210	16	430	45	1,200
Basidiospores	31	830	55	1,500	37	990	34	910
Chaetomium								
Cladosporium	3	80	15	400	41	1,100	4	110
Epicoccum								
Nigrospora								
Oidium								
Other brown								
Other colorless								
Penicillium/Aspergillus types†	12	320	1	27			22	590
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	3	20	2	13	3	20	1	7
Stachybotrys								
Stemphylium								
Torula					1	7		
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		3+		3+		3+	
Hyphal fragments/m3	73		20		< 7		7	
Pollen/m3	33		27		33		7	
Skin cells (1-4+)	< 1+		< 1+		1+		< 1+	
Sample volume (liters)	150		150		150		150	
§ TOTAL SPORES/m3		2,100		2,100		2,500		2,800

Comments:

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§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
A TestAmerica Company

Report for:

Ms. Maheen B. Doctor
HazMat Doc
3080 Olcott Street #D-135
Santa Clara, CA 95054

Regarding: Project: 18-079; Dove Hills ES Mold Screening
EML ID: 1923996

Approved by:

Technical Manager
Murali Putty

Dates of Analysis:
Spore trap analysis other particles-Supplement: 05-10-2018

Service SOPs: Spore trap analysis other particles-Supplement (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #102856

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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY

Location:	25851032: Classroom #K1/ ambient		25852361: Classroom #K2/ ambient		25852329: Classroom #K3/ ambient		25851207: Classroom #3/ ambient		25851075: Classroom #4/ ambient	
Comments (see below)	None		None		None		None		None	
Lab ID-Version‡:	9046604-1		9046605-1		9046606-1		9046607-1		9046608-1	
	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3
POLLEN										
Alder (Alnus)										
Cedar/Juniper (Cupressaceae)										
Elm (Ulmus)										
Grass (Poaceae)										
Mulberry (Morus)										
Oak (Quercus)										
Other			1	7					1	7
Pine (Pinaceae)										
OTHER PLANT										
Diatoms										
Fern, moss, etc. spores										
Other (wood, trichomes, etc.)	2	13			3	20	1	7	4	27
OTHER PARTICLES:										
ANIMAL										
Epithelial (skin) cells	24	640	32	850	15	400	31	830	42	1,100
Hair										
Insect parts										
Mites										
FUNGI										
Hyphal fragments										
NON-BIOLOGICAL										
Cellulose fibers	9	240	9	240	8	210	21	300	15	400
Glass fiber							1	7	1	7
Starch particles			1	7	1	7	6	40	3	20
Synthetic fibers	3	20	5	130	3	80	10	150	6	160
Background debris (1-4+)†	3+		2+		3+		3+		3+	
Sample volume (liters)	150		150		150		150		150	

Comments:

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

Carbonaceous particles include soot and other combustion products. In most instances a detailed analysis of soot can be accomplished using scanning electron microscopy.

Note: Interpretation is left to the company and/or persons who conducted the field work.

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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY

Location:	25852277: Classroom #5/ ambient		25852301: Classroom #6/ ambient		25851193: Classroom #7/ ambient		25852341: Classroom #8/ ambient	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9046609-1		9046610-1		9046611-1		9046612-1	
	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3
POLLEN								
Alder (Alnus)								
Cedar/Juniper (Cupressaceae)								
Elm (Ulmus)								
Grass (Poaceae)								
Mulberry (Morus)								
Oak (Quercus)							1	7
Other							1	7
Pine (Pinaceae)							2	13
OTHER PLANT								
Diatoms								
Fern, moss, etc. spores								
Other (wood, trichomes, etc.)			3	20	1	7	5	33
OTHER PARTICLES:								
ANIMAL								
Epithelial (skin) cells	22	590	25	670	24	640	33	880
Hair								
Insect parts								
Mites								
FUNGI								
Hyphal fragments								
NON-BIOLOGICAL								
Cellulose fibers	1	7	14	93	12	80	15	400
Glass fiber							1	7
Starch particles	2	13			2	13		
Synthetic fibers	3	20	6	40	5	33	9	240
Background debris (1-4+)†	2+		3+		2+		3+	
Sample volume (liters)	150		150		150		150	

Comments:

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

Carbonaceous particles include soot and other combustion products. In most instances a detailed analysis of soot can be accomplished using scanning electron microscopy.

Note: Interpretation is left to the company and/or persons who conducted the field work.

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Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY

Location:	25851122: Classroom #9/ ambient		25852393: Classroom #10/ ambient		25882288: Int. CR 11 west side		25852271: Int. CR 14 north side	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9046613-1		9046614-1		9046615-1		9046616-1	
	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3
POLLEN								
Alder (Alnus)								
Cedar/Juniper (Cupressaceae)								
Elm (Ulmus)								
Grass (Poaceae)								
Mulberry (Morus)								
Oak (Quercus)								
Other	1	7					1	7
Pine (Pinaceae)	2	13						
OTHER PLANT								
Diatoms								
Fern, moss, etc. spores								
Other (wood, trichomes, etc.)	2	13	6	40	6	40		
OTHER PARTICLES:								
ANIMAL								
Epithelial (skin) cells	11	73	23	610	28	750	9	240
Hair								
Insect parts								
Mites								
FUNGI								
Hyphal fragments			1	7	1	7		
NON-BIOLOGICAL								
Cellulose fibers	6	40	12	320	13	350	10	67
Glass fiber								
Starch particles	1	7	5	33	2	13		
Synthetic fibers	2	13	7	190	5	130	4	27
Background debris (1-4+)†	3+		3+		3+		2+	
Sample volume (liters)	150		150		150		150	

Comments:

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

Carbonaceous particles include soot and other combustion products. In most instances a detailed analysis of soot can be accomplished using scanning electron microscopy.

Note: Interpretation is left to the company and/or persons who conducted the field work.

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Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY

Location:	25852280: Int. CR 16 north side		25852299: Int. CR 18 north side		25851067: Int. CR 19 north side		25852365: Int. CR 20 east side	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9046617-1		9046618-1		9046619-1		9046620-1	
	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3
POLLEN								
Alder (Alnus)								
Cedar/Juniper (Cupressaceae)								
Elm (Ulmus)								
Grass (Poaceae)								
Mulberry (Morus)								
Oak (Quercus)	2	13			2	13		
Other	1	7			1	7		
Pine (Pinaceae)			2	13			1	7
OTHER PLANT								
Diatoms								
Fern, moss, etc. spores								
Other (wood, trichomes, etc.)	10	67	3	20	2	13		
OTHER PARTICLES:								
ANIMAL								
Epithelial (skin) cells	32	850	27	720	15	100	12	320
Hair								
Insect parts								
Mites								
FUNGI								
Hyphal fragments	1	7						
NON-BIOLOGICAL								
Cellulose fibers	9	240	13	350	8	53	19	130
Glass fiber			2	13	1	7		
Starch particles	5	33			6	40	1	7
Synthetic fibers	7	190	5	130	3	20	8	53
Background debris (1-4+)†	3+		4+		3+		2+	
Sample volume (liters)	150		150		150		150	

Comments:

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

Carbonaceous particles include soot and other combustion products. In most instances a detailed analysis of soot can be accomplished using scanning electron microscopy.

Note: Interpretation is left to the company and/or persons who conducted the field work.

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OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY

Location:	25852386: Int. CR 21 east side		25851037: Int. CR 22 east side		25852389: Int. CR 27 east side		25852283: Int. CR 28 east side	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9046621-1		9046622-1		9046623-1		9046624-1	
	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3
POLLEN								
Alder (Alnus)								
Cedar/Juniper (Cupressaceae)							1	7
Elm (Ulmus)								
Grass (Poaceae)								
Mulberry (Morus)							1	7
Oak (Quercus)							1	7
Other					1	7		
Pine (Pinaceae)								
OTHER PLANT								
Algae								
Diatoms								
Fern, moss, etc. spores								
Other (wood, trichomes, etc.)	3	20	4	27	2	13	4	27
OTHER PARTICLES:								
ANIMAL								
Epithelial (skin) cells	36	960	22	590	15	400	17	450
Hair								
Insect parts								
Mites								
FUNGI								
Hyphal fragments								
NON-BIOLOGICAL								
Cellulose fibers	11	290	7	47	4	27	4	27
Glass fiber								
Starch particles	3	20	2	13			1	7
Synthetic fibers	6	160			1	7	2	13
Background debris (1-4+)†	3+		2+		3+		2+	
Sample volume (liters)	150		150		150		150	

Comments:

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

Carbonaceous particles include soot and other combustion products. In most instances a detailed analysis of soot can be accomplished using scanning electron microscopy.

Note: Interpretation is left to the company and/or persons who conducted the field work.

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OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY

Location:	25852308: Int. CR 30 east side		25851209: Int. CR 31 east side		25852312: Int. CR 33 west side		25852383: Int. CR 34 west side	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9046625-1		9046626-1		9046627-1		9046628-1	
	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3
POLLEN								
Alder (Alnus)			1	7				
Cedar/Juniper (Cupressaceae)			1	7				
Elm (Ulmus)								
Grass (Poaceae)								
Mulberry (Morus)								
Oak (Quercus)								
Other	1	7	1	7				
Pine (Pinaceae)	1	7						
OTHER PLANT								
Algae								
Diatoms								
Fern, moss, etc. spores								
Other (wood, trichomes, etc.)	2	13	1	7			5	33
OTHER PARTICLES:								
ANIMAL								
Epithelial (skin) cells	16	430	22	590	31	830	37	990
Hair								
Insect parts	1	7						
Mites								
FUNGI								
Hyphal fragments			1	7			2	13
NON-BIOLOGICAL								
Cellulose fibers	16	110	11	73	13	350		
Glass fiber	1	7						
Starch particles	4	27			5	33		
Synthetic fibers	4	27	6	40	7	190		
Background debris (1-4+)†	3+		2+		3+		2+	
Sample volume (liters)	150		150		150		150	

Comments:

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

Carbonaceous particles include soot and other combustion products. In most instances a detailed analysis of soot can be accomplished using scanning electron microscopy.

Note: Interpretation is left to the company and/or persons who conducted the field work.

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Date of Report: 05-10-2018

OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY

Location:	25852291: Int. CR 35 west side		25851236: Int. CR 36 west side		25851024: Ext. CR K1 north side		25852343: Ext. CR 3 N/K3 south side	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9046629-1		9046630-1		9046631-1		9046632-1	
	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3
POLLEN								
Alder (Alnus)								
Cedar/Juniper (Cupressaceae)					2	13	3	20
Elm (Ulmus)							1	7
Grass (Poaceae)					1	7		
Mulberry (Morus)	2	13					1	7
Oak (Quercus)	1	7			20	130	3	20
Other					2	13	3	20
Pine (Pinaceae)					4	27		
OTHER PLANT								
Diatoms								
Fern, moss, etc. spores								
Other (wood, trichomes, etc.)	2	13			21	140	18	120
OTHER PARTICLES:								
ANIMAL								
Epithelial (skin) cells	24	640	18	120	12	80	14	93
Hair								
Insect parts								
Mites								
FUNGI								
Hyphal fragments					1	7		
NON-BIOLOGICAL								
Cellulose fibers	9	240	2	13	3	20	5	33
Glass fiber					1	7	2	13
Starch particles	2	13	1	7	3	20		
Synthetic fibers	6	160	1	7	1	7	1	7
Background debris (1-4+)†	3+		2+		3+		3+	
Sample volume (liters)	150		150		150		150	

Comments:

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

Carbonaceous particles include soot and other combustion products. In most instances a detailed analysis of soot can be accomplished using scanning electron microscopy.

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OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY

Location:	25852336: Ext. 12E/11 south side		25852334: Ext. CR20 north side		25851017: Ext. CR 33N/27E/ 19 south side		25852293: Ext. CR 32 and 37 south side	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	9046633-1		9046634-1		9046635-1		9046636-1	
	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3
POLLEN								
Alder (Alnus)								
Cedar/Juniper (Cupressaceae)			1	7	1	7	1	7
Elm (Ulmus)								
Grass (Poaceae)								
Mulberry (Morus)								
Oak (Quercus)	2	13	3	20	1	7		
Other	3	20			3	20		
Pine (Pinaceae)								
OTHER PLANT								
Diatoms								
Fern, moss, etc. spores								
Other (wood, trichomes, etc.)	11	73	7	47	15	100	11	73
OTHER PARTICLES:								
ANIMAL								
Epithelial (skin) cells	25	170	4	27	52	1,400	15	400
Hair								
Insect parts			1	7	1	7		
Mites								
FUNGI								
Hyphal fragments	11	73	3	20			1	7
NON-BIOLOGICAL								
Cellulose fibers			3	20	5	33	4	27
Glass fiber					4	27		
Starch particles	1	7	1	7	2	13	5	33
Synthetic fibers			1	7	1	7	1	7
Background debris (1-4+)†	3+		3+		3+		3+	
Sample volume (liters)	150		150		150		150	

Comments:

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

Carbonaceous particles include soot and other combustion products. In most instances a detailed analysis of soot can be accomplished using scanning electron microscopy.

Note: Interpretation is left to the company and/or persons who conducted the field work.

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Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldRANGE™, California Climate: Extended Outdoor Comparison (Patent Pending)

Outdoor Location: 25851024, Ext. CR K1 north side

Fungi Identified	Outdoor data	Typical Outdoor Data for: May in California† Köppen-Geiger climate code[1] "Csb" Mediterranean/cool summer (n‡=963)						Typical Outdoor Data for: The entire year in California† Köppen-Geiger climate code[1] "Csb" Mediterranean/cool summer (n‡=10305)					
Project zip code 95121	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	38	93	150	58	13	13	27	63	110	51
Bipolaris/Drechslera group	-	7	9	13	32	53	9	7	11	13	27	40	8
Chaetomium	13	7	13	13	27	40	17	7	13	13	27	50	19
Cladosporium	590	110	210	670	1,800	3,100	98	110	250	750	2,000	3,400	97
Curvularia	-	-	-	-	-	-	2	7	13	13	22	48	3
Epicoccum	-	7	13	13	39	53	22	7	13	13	40	53	20
Nigrospora	-	11	13	13	13	27	3	7	13	13	27	53	8
Other brown	-	8	13	13	40	53	36	10	13	13	40	53	38
Penicillium/Aspergillus types	590	53	67	210	640	1,000	75	53	110	270	750	1,200	82
Pithomyces	-	7	7	13	27	29	4	7	11	13	27	53	4
Stachybotrys	7	9	13	13	25	27	5	7	13	13	27	67	4
Torula	-	7	13	13	40	53	21	7	13	13	40	53	12
Seldom found growing indoors**													
Ascospores	770	50	53	170	530	830	83	52	53	210	720	1,400	82
Basidiospores	960	53	110	340	1,100	1,700	93	53	110	480	2,100	4,500	95
Oidium	-	13	13	27	53	110	39	8	13	13	53	80	22
Rusts	-	13	13	27	93	160	53	8	13	25	53	110	34
Smuts, Periconia, Myxomycetes	170	13	27	67	240	430	83	13	13	40	120	210	71
§ TOTAL SPORES/m3	3,100												

[1]Köppen-Geiger climate codes are based upon a climate classification scheme for large geographic areas. The "MoldRANGE, California Climate" report uses the sampling location zipcode to identify the Köppen-Geiger climate code in that area. Because California has such diverse climates, this approach sharpens the precision of the MoldRANGE reporting system, providing more reliable estimates of the range and average concentrations of the different airborne fungal spore types for each region. Additional information on the Köppen-Geiger climate classification system can be found on the last page of this report.

†The Typical Outdoor Data represents the typical outdoor spore levels across North America for the time period and climate code indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ n is the sample size used to calculate the MoldRange, California Climate data summarized in the table.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldRANGE™, California Climate: Extended Outdoor Comparison (Patent Pending)

Outdoor Location: 25852343, Ext. CR 3 N/K3 south side

Fungi Identified	Outdoor data	Typical Outdoor Data for: May in California† Köppen-Geiger climate code[1] "Csb" Mediterranean/cool summer (n‡=963)						Typical Outdoor Data for: The entire year in California† Köppen-Geiger climate code[1] "Csb" Mediterranean/cool summer (n‡=10305)					
Project zip code 95121	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	38	93	150	58	13	13	27	63	110	51
Bipolaris/Drechslera group	-	7	9	13	32	53	9	7	11	13	27	40	8
Chaetomium	-	7	13	13	27	40	17	7	13	13	27	50	19
Cladosporium	350	110	210	670	1,800	3,100	98	110	250	750	2,000	3,400	97
Curvularia	-	-	-	-	-	-	2	7	13	13	22	48	3
Epicoccum	-	7	13	13	39	53	22	7	13	13	40	53	20
Nigrospora	-	11	13	13	13	27	3	7	13	13	27	53	8
Other brown	-	8	13	13	40	53	36	10	13	13	40	53	38
Penicillium/Aspergillus types	450	53	67	210	640	1,000	75	53	110	270	750	1,200	82
Pithomyces	-	7	7	13	27	29	4	7	11	13	27	53	4
Stachybotrys	-	9	13	13	25	27	5	7	13	13	27	67	4
Torula	-	7	13	13	40	53	21	7	13	13	40	53	12
Seldom found growing indoors**													
Ascospores	830	50	53	170	530	830	83	52	53	210	720	1,400	82
Basidiospores	880	53	110	340	1,100	1,700	93	53	110	480	2,100	4,500	95
Oidium	-	13	13	27	53	110	39	8	13	13	53	80	22
Rusts	-	13	13	27	93	160	53	8	13	25	53	110	34
Smuts, Periconia, Myxomycetes	53	13	27	67	240	430	83	13	13	40	120	210	71
§ TOTAL SPORES/m3	2,600												

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†The Typical Outdoor Data represents the typical outdoor spore levels across North America for the time period and climate code indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ n is the sample size used to calculate the MoldRange, California Climate data summarized in the table.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldRANGE™, California Climate: Extended Outdoor Comparison (Patent Pending)

Outdoor Location: 25852336, Ext. 12E/11 south side

Fungi Identified	Outdoor data	Typical Outdoor Data for: May in California† Köppen-Geiger climate code[1] "Csb" Mediterranean/cool summer (n‡=963)						Typical Outdoor Data for: The entire year in California† Köppen-Geiger climate code[1] "Csb" Mediterranean/cool summer (n‡=10305)					
Project zip code 95121	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	38	93	150	58	13	13	27	63	110	51
Bipolaris/Drechslera group	-	7	9	13	32	53	9	7	11	13	27	40	8
Chaetomium	-	7	13	13	27	40	17	7	13	13	27	50	19
Cladosporium	80	110	210	670	1,800	3,100	98	110	250	750	2,000	3,400	97
Curvularia	-	-	-	-	-	-	2	7	13	13	22	48	3
Epicoccum	-	7	13	13	39	53	22	7	13	13	40	53	20
Nigrospora	-	11	13	13	13	27	3	7	13	13	27	53	8
Other brown	-	8	13	13	40	53	36	10	13	13	40	53	38
Penicillium/Aspergillus types	320	53	67	210	640	1,000	75	53	110	270	750	1,200	82
Pithomyces	-	7	7	13	27	29	4	7	11	13	27	53	4
Stachybotrys	-	9	13	13	25	27	5	7	13	13	27	67	4
Torula	-	7	13	13	40	53	21	7	13	13	40	53	12
Seldom found growing indoors**													
Ascospores	880	50	53	170	530	830	83	52	53	210	720	1,400	82
Basidiospores	830	53	110	340	1,100	1,700	93	53	110	480	2,100	4,500	95
Oidium	-	13	13	27	53	110	39	8	13	13	53	80	22
Rusts	-	13	13	27	93	160	53	8	13	25	53	110	34
Smuts, Periconia, Myxomycetes	20	13	27	67	240	430	83	13	13	40	120	210	71
§ TOTAL SPORES/m3	2,100												

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†The Typical Outdoor Data represents the typical outdoor spore levels across North America for the time period and climate code indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ n is the sample size used to calculate the MoldRange, California Climate data summarized in the table.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldRANGE™, California Climate: Extended Outdoor Comparison (Patent Pending)

Outdoor Location: 25852334, Ext. CR20 north side

Fungi Identified	Outdoor data	Typical Outdoor Data for: May in California† Köppen-Geiger climate code[1] "Csb" Mediterranean/cool summer (n‡=963)						Typical Outdoor Data for: The entire year in California† Köppen-Geiger climate code[1] "Csb" Mediterranean/cool summer (n‡=10305)					
Project zip code 95121	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	38	93	150	58	13	13	27	63	110	51
Bipolaris/Drechslera group	-	7	9	13	32	53	9	7	11	13	27	40	8
Chaetomium	-	7	13	13	27	40	17	7	13	13	27	50	19
Cladosporium	400	110	210	670	1,800	3,100	98	110	250	750	2,000	3,400	97
Curvularia	-	-	-	-	-	-	2	7	13	13	22	48	3
Epicoccum	-	7	13	13	39	53	22	7	13	13	40	53	20
Nigrospora	-	11	13	13	13	27	3	7	13	13	27	53	8
Other brown	-	8	13	13	40	53	36	10	13	13	40	53	38
Penicillium/Aspergillus types	27	53	67	210	640	1,000	75	53	110	270	750	1,200	82
Pithomyces	-	7	7	13	27	29	4	7	11	13	27	53	4
Stachybotrys	-	9	13	13	25	27	5	7	13	13	27	67	4
Torula	-	7	13	13	40	53	21	7	13	13	40	53	12
Seldom found growing indoors**													
Ascospores	210	50	53	170	530	830	83	52	53	210	720	1,400	82
Basidiospores	1,500	53	110	340	1,100	1,700	93	53	110	480	2,100	4,500	95
Oidium	-	13	13	27	53	110	39	8	13	13	53	80	22
Rusts	-	13	13	27	93	160	53	8	13	25	53	110	34
Smuts, Periconia, Myxomycetes	13	13	27	67	240	430	83	13	13	40	120	210	71
§ TOTAL SPORES/m3	2,100												

[1]Köppen-Geiger climate codes are based upon a climate classification scheme for large geographic areas. The "MoldRANGE, California Climate" report uses the sampling location zipcode to identify the Köppen-Geiger climate code in that area. Because California has such diverse climates, this approach sharpens the precision of the MoldRANGE reporting system, providing more reliable estimates of the range and average concentrations of the different airborne fungal spore types for each region. Additional information on the Köppen-Geiger climate classification system can be found on the last page of this report.

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‡ n is the sample size used to calculate the MoldRange, California Climate data summarized in the table.

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Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldRANGE™, California Climate: Extended Outdoor Comparison (Patent Pending)

Outdoor Location: 25851017, Ext. CR 33N/27E/19 south side

Fungi Identified	Outdoor data	Typical Outdoor Data for: May in California† Köppen-Geiger climate code[1] "Csb" Mediterranean/cool summer (n‡=963)						Typical Outdoor Data for: The entire year in California† Köppen-Geiger climate code[1] "Csb" Mediterranean/cool summer (n‡=10305)					
Project zip code 95121	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	38	93	150	58	13	13	27	63	110	51
Bipolaris/Drechslera group	-	7	9	13	32	53	9	7	11	13	27	40	8
Chaetomium	-	7	13	13	27	40	17	7	13	13	27	50	19
Cladosporium	1,100	110	210	670	1,800	3,100	98	110	250	750	2,000	3,400	97
Curvularia	-	-	-	-	-	-	2	7	13	13	22	48	3
Epicoccum	-	7	13	13	39	53	22	7	13	13	40	53	20
Nigrospora	-	11	13	13	13	27	3	7	13	13	27	53	8
Other brown	-	8	13	13	40	53	36	10	13	13	40	53	38
Penicillium/Aspergillus types	-	53	67	210	640	1,000	75	53	110	270	750	1,200	82
Pithomyces	-	7	7	13	27	29	4	7	11	13	27	53	4
Stachybotrys	-	9	13	13	25	27	5	7	13	13	27	67	4
Torula	7	7	13	13	40	53	21	7	13	13	40	53	12
Seldom found growing indoors**													
Ascospores	430	50	53	170	530	830	83	52	53	210	720	1,400	82
Basidiospores	990	53	110	340	1,100	1,700	93	53	110	480	2,100	4,500	95
Oidium	-	13	13	27	53	110	39	8	13	13	53	80	22
Rusts	-	13	13	27	93	160	53	8	13	25	53	110	34
Smuts, Periconia, Myxomycetes	20	13	27	67	240	430	83	13	13	40	120	210	71
§ TOTAL SPORES/m3	2,500												

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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldRANGE™, California Climate: Extended Outdoor Comparison (Patent Pending)

Outdoor Location: 25852293, Ext. CR 32 and 37 south side

Fungi Identified	Outdoor data	Typical Outdoor Data for: May in California† Köppen-Geiger climate code[1] "Csb" Mediterranean/cool summer (n‡=963)						Typical Outdoor Data for: The entire year in California† Köppen-Geiger climate code[1] "Csb" Mediterranean/cool summer (n‡=10305)					
Project zip code 95121	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	38	93	150	58	13	13	27	63	110	51
Bipolaris/Drechslera group	-	7	9	13	32	53	9	7	11	13	27	40	8
Chaetomium	-	7	13	13	27	40	17	7	13	13	27	50	19
Cladosporium	110	110	210	670	1,800	3,100	98	110	250	750	2,000	3,400	97
Curvularia	-	-	-	-	-	-	2	7	13	13	22	48	3
Epicoccum	-	7	13	13	39	53	22	7	13	13	40	53	20
Nigrospora	-	11	13	13	13	27	3	7	13	13	27	53	8
Other brown	-	8	13	13	40	53	36	10	13	13	40	53	38
Penicillium/Aspergillus types	590	53	67	210	640	1,000	75	53	110	270	750	1,200	82
Pithomyces	-	7	7	13	27	29	4	7	11	13	27	53	4
Stachybotrys	-	9	13	13	25	27	5	7	13	13	27	67	4
Torula	-	7	13	13	40	53	21	7	13	13	40	53	12
Seldom found growing indoors**													
Ascospores	1,200	50	53	170	530	830	83	52	53	210	720	1,400	82
Basidiospores	910	53	110	340	1,100	1,700	93	53	110	480	2,100	4,500	95
Oidium	-	13	13	27	53	110	39	8	13	13	53	80	22
Rusts	-	13	13	27	93	160	53	8	13	25	53	110	34
Smuts, Periconia, Myxomycetes	7	13	27	67	240	430	83	13	13	40	120	210	71
§ TOTAL SPORES/m3	2,800												

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‡ n is the sample size used to calculate the MoldRange, California Climate data summarized in the table.

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Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
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Understanding Köppen-Geiger Climate Codes

Outdoor airborne fungal spore concentrations are strongly influenced by climate and weather patterns, often resulting in pronounced seasonal and diurnal cycles (Burge, 1995). The seasonal climatic changes directly affect the growth cycles of plants, thereby influencing fungal growth, spore maturation and release cycles. By evaluating outdoor spore concentration across similar climatic zones, rather than for the state as a whole, it is possible to provide a more precise and reliable estimate of typical outdoor spore levels and the frequency of occurrence for different airborne fungal spore types in a given area.

A widely used system for classifying climate was developed in the late nineteenth century by the climatologist Wladimir Köppen. He later collaborated with another climatologist Rudolf Geiger in making modifications to his original system. As new climatic data has become available other individuals have submitted revisions and modifications to this system which are commonly referred to as modified Köppen-Geiger climate classification systems.

The Köppen-Geiger climate classification system is a widely used system that provides an objective numerical definition of climate types in terms of climatic elements such as temperature, rainfall, and other seasonal characteristics. The modified Köppen-Geiger climate classification system adopted here includes 6 major climate categories designated by a capital letter:

A Tropical
B Dry
C Mediterranean (Temperate)
D Continental (Temperate)
E Polar
H Timberline

In order to represent the main climatic types, additional letter designations are added. Except for the Dry climates and Polar climates the second letter refers to rainfall regime. The second letter for Dry climates differentiates Dry Steppe climates from Dry Desert climates. The second letter for Polar climates differentiates Polar Tundra climates from Polar Ice climates. For all 6 major climate categories the third letter refers to temperature characteristics, and the fourth to special features of the climate.

California is unique in that it has a more diverse array of climate types than any other state. Based upon data mapped by the California Department of Fish and Game (2003), California displays 11 distinct climate types as defined by a modified Köppen-Geiger climate classification system:

BSh Semi-arid, steppe hot
BSk Semi-arid, steppe
BSkn Semi-arid, steppe w/summer fog
BWh Arid low latitude desert hot
BWk Arid mid latitude desert
Csa Mediterranean/hot summer
Csb Mediterranean/cool summer
Csbn Mediterranean/summer fog
Dsb Cool continental/dry summer
Dsc Cold winter/dry summer
H Highland/Timberline

This report groups California zip codes in relation to these climate codes and summarizes the MoldRANGE™ data by month and by year within each climate code.

REFERENCES

California Department of Fish and Game, Atlas of the Biodiversity of California, p. 15, 2003.
Burge, Harriet A. Bioaerosols. Boca Raton: Lewis Publishers, pp. 163-171, 1995.

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Date of Sampling: 05-05-2018
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Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 25851024: Ext. CR K1 north side

Species detected	Outdoor sample spores/m3 <100 1K 10K >100K	Typical outdoor ranges (North America)	Freq. %
Ascospores	770	13 - 230 - 6,400	77
Basidiospores	960	13 - 480 - 23,000	91
Chaetomium	13	7 - 13 - 140	10
Cladosporium	590	27 - 510 - 9,400	90
Penicillium/Aspergillus types	590	13 - 190 - 2,600	67
Smuts, Periconia, Myxomycetes	170	7 - 53 - 1,100	65
Stachybotrys	7	7 - 13 - 400	2
Total	3,100		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 25851032: Classroom #K1/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.1042 Critical value: 0.5833 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Ascospores	27
Cladosporium	27
Rusts	7
Torula	7
Total	67

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852361: Classroom #K2/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 8 Result: 0.0060 Critical value: 0.6190 Outside Similar: No	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Rusts	7
Total	7

Location: 25852329: Classroom #K3/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.3839 Critical value: 0.6786 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	27
Total	27

Location: 25851207: Classroom #3/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 5%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.6696 Critical value: 0.6786 Outside Similar: No	Score: 109 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	130
Cladosporium	27
Total	160

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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25851075: Classroom #4/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.3839 Critical value: 0.6786 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	27
Total	27

Location: 25852277: Classroom #5/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 8 Result: 0.0060 Critical value: 0.6190 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Pithomyces	7
Total	7

Location: 25852301: Classroom #6/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 8 Result: 0.0060 Critical value: 0.6190 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Other brown	7
Total	7

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C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25851193: Classroom #7/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.1964 Critical value: 0.6786 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Smuts, Periconia, Myxomycetes	7
Total	7

Location: 25852341: Classroom #8/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5455	dF: 8 Result: 0.3512 Critical value: 0.6190 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	53
Cladosporium	27
Other brown	7
Smuts, Periconia, Myxomycetes	7
Total	93

Location: 25851122: Classroom #9/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.3839 Critical value: 0.6786 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	53
Total	53

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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852393: Classroom #10/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: -0.1607 Critical value: 0.6190 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Epicoccum	7
Smuts, Periconia, Myxomycetes	7
Total	13

Location: 25882288: Int. CR 11 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.1964 Critical value: 0.6786 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Smuts, Periconia, Myxomycetes	7
Total	7

Location: 25852271: Int. CR 14 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 7

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Re: 18-079; Dove Hills ES Mold Screening

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852280: Int. CR 16 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: -0.2024 Critical value: 0.6190 Outside Similar: No	Score: 106 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K	
Alternaria		13
Smuts, Periconia, Myxomycetes		7
Total		20

Location: 25852299: Int. CR 18 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.1518 Critical value: 0.6786 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K	
Cladosporium		27
Smuts, Periconia, Myxomycetes		20
Total		47

Location: 25851067: Int. CR 19 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5455	dF: 8 Result: 0.2500 Critical value: 0.6190 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K	
Basidiospores		27
Cladosporium		53
Oidium		13
Smuts, Periconia, Myxomycetes		7
Total		100

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Re: 18-079; Dove Hills ES Mold Screening

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852365: Int. CR 20 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: -0.0833 Critical value: 0.6190 Outside Similar: No	Score: 106 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Other brown	7
Penicillium/Aspergillus types	53
Smuts, Periconia, Myxomycetes	7
Total	67

Location: 25852386: Int. CR 21 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.1964 Critical value: 0.6786 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Smuts, Periconia, Myxomycetes	7
Total	7

Location: 25851037: Int. CR 22 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.5804 Critical value: 0.6786 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	27
Cladosporium	80
Total	110

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Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
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Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852389: Int. CR 27 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.1518 Critical value: 0.6786 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	27
Smuts, Periconia, Myxomycetes	7
Total	33

Location: 25852283: Int. CR 28 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
None Detected	< 7

Location: 25852308: Int. CR 30 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.6339 Critical value: 0.6786 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	27
Cladosporium	27
Total	53

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Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25851209: Int. CR 31 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 7

Location: 25852312: Int. CR 33 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.0298 Critical value: 0.6190 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Alternaria	7
Cladosporium	27
Total	33

Location: 25852383: Int. CR 34 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 7%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.3839 Critical value: 0.6786 Outside Similar: No	Score: 112 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	240
Total	240

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852291: Int. CR 35 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 7%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5455	dF: 8 Result: 0.4464 Critical value: 0.6190 Outside Similar: No	Score: 111 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	80
Cladosporium	27
Other brown	13
Penicillium/Aspergillus types	110
Total	230

Location: 25851236: Int. CR 36 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 6%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.3125 Critical value: 0.6786 Outside Similar: No	Score: 112 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	80
Penicillium/Aspergillus types	110
Total	190

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 25852343: Ext. CR 3 N/K3 south side

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Ascospores	830	13 - 230 - 6,400	77
Basidiospores	880	13 - 480 - 23,000	91
Cladosporium	350	27 - 510 - 9,400	90
Penicillium/Aspergillus types	450	13 - 190 - 2,600	67
Smuts, Periconia, Myxomycetes	53	7 - 53 - 1,100	65
Total	2,600		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 25851032: Classroom #K1/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: -0.0625 Critical value: 0.6786 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Ascospores	27
Cladosporium	27
Rusts	7
Torula	7
Total	67

Location: 25852361: Classroom #K2/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Rusts	7
Total	7

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Location: 25852329: Classroom #K3/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	27
Total	27

Location: 25851207: Classroom #3/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 6%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No	Score: 108 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	130
Cladosporium	27
Total	160

Location: 25851075: Classroom #4/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	27
Total	27

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C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852277: Classroom #5/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Pithomyces	7
Total	7

Location: 25852301: Classroom #6/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Other brown	7
Total	7

Location: 25851193: Classroom #7/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: -0.2500 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Smuts, Periconia, Myxomycetes	7
Total	7

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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852341: Classroom #8/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.1143 Critical value: 0.7714 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	53
Cladosporium	27
Other brown	7
Smuts, Periconia, Myxomycetes	7
Total	93

Location: 25851122: Classroom #9/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	53
Total	53

Location: 25852393: Classroom #10/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.5286 Critical value: 0.7714 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Epicoccum	7
Smuts, Periconia, Myxomycetes	7
Total	13

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Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25882288: Int. CR 11 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: -0.2500 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Smuts, Periconia, Myxomycetes	7
Total	7

Location: 25852271: Int. CR 14 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
None Detected	< 7

Location: 25852280: Int. CR 16 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.5714 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	13
Smuts, Periconia, Myxomycetes	7
Total	20

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Re: 18-079; Dove Hills ES Mold Screening

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Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852299: Int. CR 18 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: -0.6000 Critical value: 0.8000 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	27
Smuts, Periconia, Myxomycetes	20
Total	47

Location: 25851067: Int. CR 19 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: -0.1000 Critical value: 0.7714 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	27
Cladosporium	53
Oidium	13
Smuts, Periconia, Myxomycetes	7
Total	100

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Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852365: Int. CR 20 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: -0.3857 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Other brown	7
Penicillium/Aspergillus types	53
Smuts, Periconia, Myxomycetes	7
Total	67

Location: 25852386: Int. CR 21 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: -0.2500 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Smuts, Periconia, Myxomycetes	7
Total	7

Location: 25851037: Int. CR 22 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.2000 Critical value: 0.8000 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	27
Cladosporium	80
Total	110

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Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
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Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852389: Int. CR 27 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: -0.6000 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	27
Smuts, Periconia, Myxomycetes	7
Total	33

Location: 25852283: Int. CR 28 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 7

Location: 25852308: Int. CR 30 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.3750 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	27
Cladosporium	27
Total	53

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Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
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Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25851209: Int. CR 31 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 7

Location: 25852312: Int. CR 33 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.3143 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Alternaria	7
Cladosporium	27
Total	33

Location: 25852383: Int. CR 34 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 9%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 113 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	240
Total	240

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Date of Sampling: 05-05-2018
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852291: Int. CR 35 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 8%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.3571 Critical value: 0.7714 Outside Similar: No	Score: 111 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	80
Cladosporium	27
Other brown	13
Penicillium/Aspergillus types	110
Total	230

Location: 25851236: Int. CR 36 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 7%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: -0.1000 Critical value: 0.8000 Outside Similar: No	Score: 112 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	80
Penicillium/Aspergillus types	110
Total	190

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 25852336: Ext. 12E/11 south side

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Ascospores	880	13 - 230 - 6,400	77
Basidiospores	830	13 - 480 - 23,000	91
Cladosporium	80	27 - 510 - 9,400	90
Penicillium/Aspergillus types	320	13 - 190 - 2,600	67
Smuts, Periconia, Myxomycetes	20	7 - 53 - 1,100	65
Total	2,100		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 25851032: Classroom #K1/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.0982 Critical value: 0.6786 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Ascospores	27
Cladosporium	27
Rusts	7
Torula	7
Total	67

Location: 25852361: Classroom #K2/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Rusts	7
Total	7

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852329: Classroom #K3/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	27
Total	27

Location: 25851207: Classroom #3/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 7%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.2000 Critical value: 0.8000 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	130
Cladosporium	27
Total	160

Location: 25851075: Classroom #4/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	27
Total	27

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852277: Classroom #5/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Pithomyces	7
Total	7

Location: 25852301: Classroom #6/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Other brown	7
Total	7

Location: 25851193: Classroom #7/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: -0.2500 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Smuts, Periconia, Myxomycetes	7
Total	7

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Date of Sampling: 05-05-2018
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Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852341: Classroom #8/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	53
Cladosporium	27
Other brown	7
Smuts, Periconia, Myxomycetes	7
Total	93

Location: 25851122: Classroom #9/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	53
Total	53

Location: 25852393: Classroom #10/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.5286 Critical value: 0.7714 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Epicoccum	7
Smuts, Periconia, Myxomycetes	7
Total	13

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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25882288: Int. CR 11 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: -0.2500 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Smuts, Periconia, Myxomycetes	7
Total	7

Location: 25852271: Int. CR 14 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
None Detected	< 7

Location: 25852280: Int. CR 16 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.5714 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	13
Smuts, Periconia, Myxomycetes	7
Total	20

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Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
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Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852299: Int. CR 18 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: -0.6000 Critical value: 0.8000 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	27
Smuts, Periconia, Myxomycetes	20
Total	47

Location: 25851067: Int. CR 19 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: -0.3000 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	27
Cladosporium	53
Oidium	13
Smuts, Periconia, Myxomycetes	7
Total	100

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Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
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Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852365: Int. CR 20 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: -0.3857 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Other brown	7
Penicillium/Aspergillus types	53
Smuts, Periconia, Myxomycetes	7
Total	67

Location: 25852386: Int. CR 21 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: -0.2500 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Smuts, Periconia, Myxomycetes	7
Total	7

Location: 25851037: Int. CR 22 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 5%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	27
Cladosporium	80
Total	110

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Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
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Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852389: Int. CR 27 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: -0.6000 Critical value: 0.8000 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	27
Smuts, Periconia, Myxomycetes	7
Total	33

Location: 25852283: Int. CR 28 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 7

Location: 25852308: Int. CR 30 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.1250 Critical value: 0.8000 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	27
Cladosporium	27
Total	53

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Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25851209: Int. CR 31 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 7

Location: 25852312: Int. CR 33 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.3143 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Alternaria	7
Cladosporium	27
Total	33

Location: 25852383: Int. CR 34 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 11%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 115 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	240
Total	240

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852291: Int. CR 35 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 10%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.1571 Critical value: 0.7714 Outside Similar: No	Score: 112 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	80
Cladosporium	27
Other brown	13
Penicillium/Aspergillus types	110
Total	230

Location: 25851236: Int. CR 36 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 8%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: -0.1000 Critical value: 0.8000 Outside Similar: No	Score: 113 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	80
Penicillium/Aspergillus types	110
Total	190

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 25852334: Ext. CR20 north side

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Ascospores	210	13 - 230 - 6,400	77
Basidiospores	1,500	13 - 480 - 23,000	91
Cladosporium	400	27 - 510 - 9,400	90
Penicillium/Aspergillus types	27	13 - 190 - 2,600	67
Smuts, Periconia, Myxomycetes	13	7 - 53 - 1,100	65
Total	2,100		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 25851032: Classroom #K1/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.0982 Critical value: 0.6786 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Ascospores	27
Cladosporium	27
Rusts	7
Torula	7
Total	67

Location: 25852361: Classroom #K2/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Rusts	7
Total	7

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852329: Classroom #K3/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	27
Total	27

Location: 25851207: Classroom #3/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 7%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.9000 Critical value: 0.8000 Outside Similar: Yes	Score: 102 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	130
Cladosporium	27
Total	160

Location: 25851075: Classroom #4/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	27
Total	27

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852277: Classroom #5/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Pithomyces	7
Total	7

Location: 25852301: Classroom #6/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Other brown	7
Total	7

Location: 25851193: Classroom #7/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: -0.2500 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Smuts, Periconia, Myxomycetes	7
Total	7

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Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852341: Classroom #8/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.5143 Critical value: 0.7714 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	53
Cladosporium	27
Other brown	7
Smuts, Periconia, Myxomycetes	7
Total	93

Location: 25851122: Classroom #9/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	53
Total	53

Location: 25852393: Classroom #10/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.5286 Critical value: 0.7714 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Epicoccum	7
Smuts, Periconia, Myxomycetes	7
Total	13

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25882288: Int. CR 11 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: -0.2500 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Smuts, Periconia, Myxomycetes	7
Total	7

Location: 25852271: Int. CR 14 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
None Detected	< 7

Location: 25852280: Int. CR 16 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.5714 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	13
Smuts, Periconia, Myxomycetes	7
Total	20

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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852299: Int. CR 18 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	27
Smuts, Periconia, Myxomycetes	20
Total	47

Location: 25851067: Int. CR 19 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.4143 Critical value: 0.7714 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	27
Cladosporium	53
Oidium	13
Smuts, Periconia, Myxomycetes	7
Total	100

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852365: Int. CR 20 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: -0.6143 Critical value: 0.7714 Outside Similar: No	Score: 108 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Other brown	7
Penicillium/Aspergillus types	53
Smuts, Periconia, Myxomycetes	7
Total	67

Location: 25852386: Int. CR 21 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: -0.2500 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Smuts, Periconia, Myxomycetes	7
Total	7

Location: 25851037: Int. CR 22 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.8000 Critical value: 0.8000 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	27
Cladosporium	80
Total	110

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852389: Int. CR 27 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	27
Smuts, Periconia, Myxomycetes	7
Total	33

Location: 25852283: Int. CR 28 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 7

Location: 25852308: Int. CR 30 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.8750 Critical value: 0.8000 Outside Similar: Yes	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	27
Cladosporium	27
Total	53

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Date of Sampling: 05-05-2018
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25851209: Int. CR 31 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
None Detected	< 7

Location: 25852312: Int. CR 33 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.0857 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	7
Cladosporium	27
Total	33

Location: 25852383: Int. CR 34 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 11%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No	Score: 112 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	240
Total	240

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852291: Int. CR 35 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 10%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.3857 Critical value: 0.7714 Outside Similar: No	Score: 117 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	80
Cladosporium	27
Other brown	13
Penicillium/Aspergillus types	110
Total	230

Location: 25851236: Int. CR 36 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 8%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 117 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	80
Penicillium/Aspergillus types	110
Total	190

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 25851017: Ext. CR 33N/27E/19 south side

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)		Typical outdoor ranges (North America)	Freq. %
Ascospores	430		13 - 230 - 6,400	77
Basidiospores	990		13 - 480 - 23,000	91
Cladosporium	1,100		27 - 510 - 9,400	90
Penicillium/Aspergillus types	< 7		13 - 190 - 2,600	67
Smuts, Periconia, Myxomycetes	20		7 - 53 - 1,100	65
Torula	7		7 - 13 - 190	9
Total	2,500			

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 25851032: Classroom #K1/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.2714 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Ascospores	27
Cladosporium	27
Rusts	7
Torula	7
Total	67

Location: 25852361: Classroom #K2/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Rusts	7
Total	7

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852329: Classroom #K3/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.7500 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	27
Total	27

Location: 25851207: Classroom #3/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 6%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.8000 Critical value: 0.8000 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	130
Cladosporium	27
Total	160

Location: 25851075: Classroom #4/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.7500 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	27
Total	27

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Location: 25852277: Classroom #5/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Pithomyces	7
Total	7

Location: 25852301: Classroom #6/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Other brown	7
Total	7

Location: 25851193: Classroom #7/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Smuts, Periconia, Myxomycetes	7
Total	7

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Location: 25852341: Classroom #8/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.5714 Critical value: 0.7714 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	53
Cladosporium	27
Other brown	7
Smuts, Periconia, Myxomycetes	7
Total	93

Location: 25851122: Classroom #9/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.7500 Critical value: 0.8000 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	53
Total	53

Location: 25852393: Classroom #10/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.3571 Critical value: 0.7714 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Epicoccum	7
Smuts, Periconia, Myxomycetes	7
Total	13

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Location: 25882288: Int. CR 11 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Smuts, Periconia, Myxomycetes	7
Total	7

Location: 25852271: Int. CR 14 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
None Detected	< 7

Location: 25852280: Int. CR 16 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.4286 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	13
Smuts, Periconia, Myxomycetes	7
Total	20

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852299: Int. CR 18 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	27
Smuts, Periconia, Myxomycetes	20
Total	47

Location: 25851067: Int. CR 19 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.5571 Critical value: 0.7714 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	27
Cladosporium	53
Oidium	13
Smuts, Periconia, Myxomycetes	7
Total	100

EMLab P&K
6000 Shoreline Ct, Ste 205, So. San Francisco, CA 94080
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852365: Int. CR 20 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: -0.5625 Critical value: 0.6786 Outside Similar: No	Score: 108 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Other brown	7
Penicillium/Aspergillus types	53
Smuts, Periconia, Myxomycetes	7
Total	67

Location: 25852386: Int. CR 21 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Smuts, Periconia, Myxomycetes	7
Total	7

Location: 25851037: Int. CR 22 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.9000 Critical value: 0.8000 Outside Similar: Yes	Score: 102 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	27
Cladosporium	80
Total	110

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852389: Int. CR 27 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	27
Smuts, Periconia, Myxomycetes	7
Total	33

Location: 25852283: Int. CR 28 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 7

Location: 25852308: Int. CR 30 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.8750 Critical value: 0.8000 Outside Similar: Yes	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	27
Cladosporium	27
Total	53

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25851209: Int. CR 31 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 7

Location: 25852312: Int. CR 33 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.2857 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Alternaria	7
Cladosporium	27
Total	33

Location: 25852383: Int. CR 34 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 9%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.7500 Critical value: 0.8000 Outside Similar: No	Score: 109 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	240
Total	240

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Date of Sampling: 05-05-2018
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Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852291: Int. CR 35 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 9%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.0268 Critical value: 0.6786 Outside Similar: No	Score: 118 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	80
Cladosporium	27
Other brown	13
Penicillium/Aspergillus types	110
Total	230

Location: 25851236: Int. CR 36 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 7%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.0000 Critical value: 0.7714 Outside Similar: No	Score: 118 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	80
Penicillium/Aspergillus types	110
Total	190

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 25852293: Ext. CR 32 and 37 south side

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Ascospores	1,200	13 - 230 - 6,400	77
Basidiospores	910	13 - 480 - 23,000	91
Cladosporium	110	27 - 510 - 9,400	90
Penicillium/Aspergillus types	590	13 - 190 - 2,600	67
Smuts, Periconia, Myxomycetes	7	7 - 53 - 1,100	65
Total	2,800		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 25851032: Classroom #K1/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.0982 Critical value: 0.6786 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Ascospores	27
Cladosporium	27
Rusts	7
Torula	7
Total	67

Location: 25852361: Classroom #K2/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Rusts	7
Total	7

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852329: Classroom #K3/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	27
Total	27

Location: 25851207: Classroom #3/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 5%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.2000 Critical value: 0.8000 Outside Similar: No	Score: 108 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	130
Cladosporium	27
Total	160

Location: 25851075: Classroom #4/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	27
Total	27

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Location: 25852277: Classroom #5/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Pithomyces	7
Total	7

Location: 25852301: Classroom #6/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Other brown	7
Total	7

Location: 25851193: Classroom #7/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: -0.2500 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Smuts, Periconia, Myxomycetes	7
Total	7

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852341: Classroom #8/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	53
Cladosporium	27
Other brown	7
Smuts, Periconia, Myxomycetes	7
Total	93

Location: 25851122: Classroom #9/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	53
Total	53

Location: 25852393: Classroom #10/ambient

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.5286 Critical value: 0.7714 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Epicoccum	7
Smuts, Periconia, Myxomycetes	7
Total	13

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25882288: Int. CR 11 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: -0.2500 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Smuts, Periconia, Myxomycetes	7
Total	7

Location: 25852271: Int. CR 14 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
None Detected	< 7

Location: 25852280: Int. CR 16 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.5714 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	13
Smuts, Periconia, Myxomycetes	7
Total	20

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Location: 25852299: Int. CR 18 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: -0.6000 Critical value: 0.8000 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	27
Smuts, Periconia, Myxomycetes	20
Total	47

Location: 25851067: Int. CR 19 north side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: -0.3000 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	27
Cladosporium	53
Oidium	13
Smuts, Periconia, Myxomycetes	7
Total	100

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Location: 25852365: Int. CR 20 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: -0.3857 Critical value: 0.7714 Outside Similar: No	Score: 106 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K
Other brown	7			
Penicillium/Aspergillus types	53			
Smuts, Periconia, Myxomycetes	7			
Total	67			

Location: 25852386: Int. CR 21 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: -0.2500 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K
Smuts, Periconia, Myxomycetes	7			
Total	7			

Location: 25851037: Int. CR 22 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K
Basidiospores	27			
Cladosporium	80			
Total	110			

EMLab P&K
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(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852389: Int. CR 27 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: -0.6000 Critical value: 0.8000 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	27
Smuts, Periconia, Myxomycetes	7
Total	33

Location: 25852283: Int. CR 28 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 7

Location: 25852308: Int. CR 30 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.1250 Critical value: 0.8000 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	27
Cladosporium	27
Total	53

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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25851209: Int. CR 31 east side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 7

Location: 25852312: Int. CR 33 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.3143 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Alternaria	7
Cladosporium	27
Total	33

Location: 25852383: Int. CR 34 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 8%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 115 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	240
Total	240

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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 25852291: Int. CR 35 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 8%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.1571 Critical value: 0.7714 Outside Similar: No	Score: 110 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	80
Cladosporium	27
Other brown	13
Penicillium/Aspergillus types	110
Total	230

Location: 25851236: Int. CR 36 west side

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 6%	dF: 26 Result: 8.8016 Critical value: 38.8851 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: -0.1000 Critical value: 0.8000 Outside Similar: No	Score: 111 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	80
Penicillium/Aspergillus types	110
Total	190

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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Client: HazMat Doc
C/O: Ms. Maheen B. Doctor
Re: 18-079; Dove Hills ES Mold Screening

Date of Sampling: 05-05-2018
Date of Receipt: 05-08-2018
Date of Report: 05-10-2018

MoldSTAT™: Supplementary Statistical Spore Trap Report

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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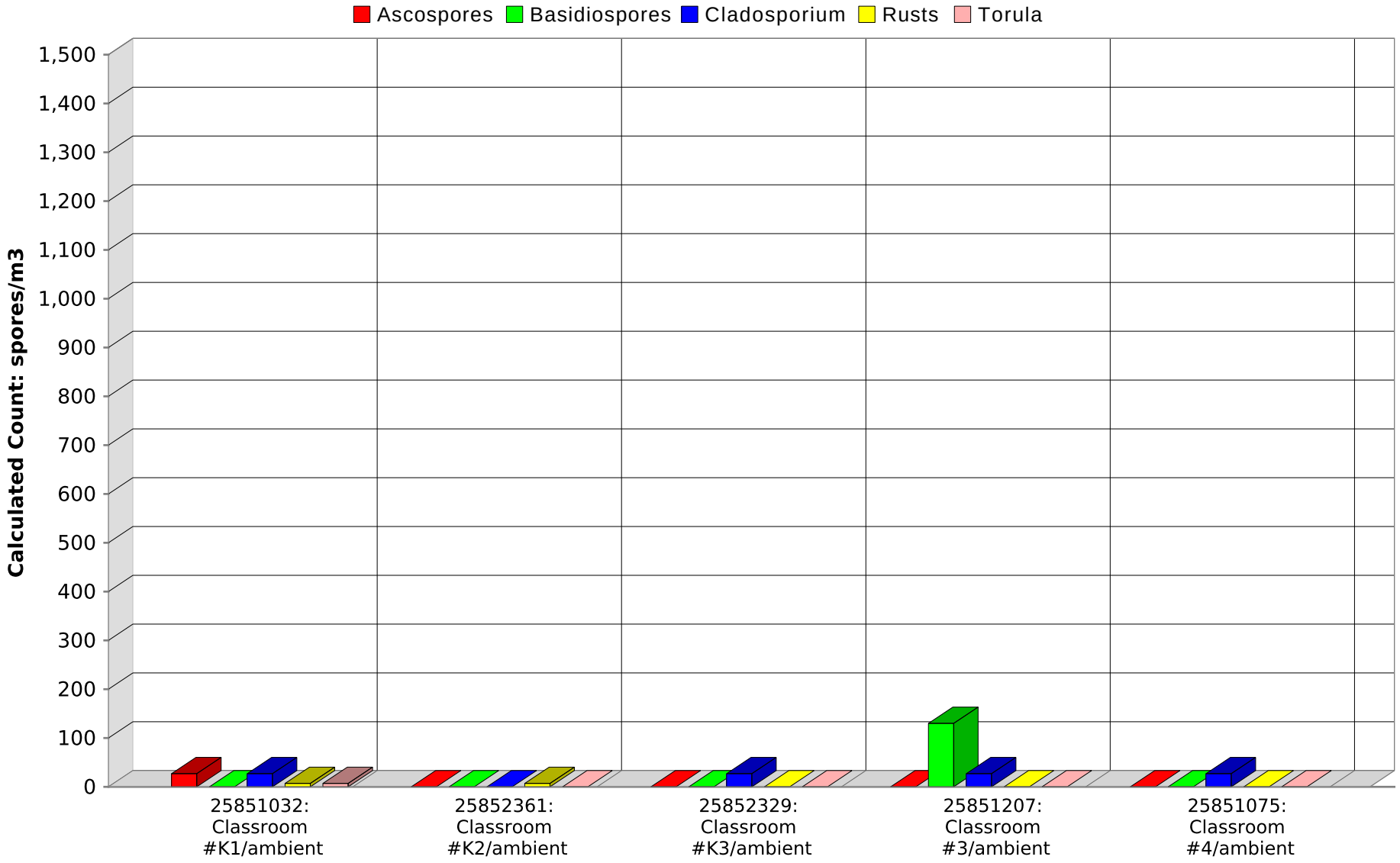
SPORE TRAP REPORT: NON-VIABLE METHODOLOGY



Comments:

Note: Graphical output may understate the importance of certain "marker" genera.

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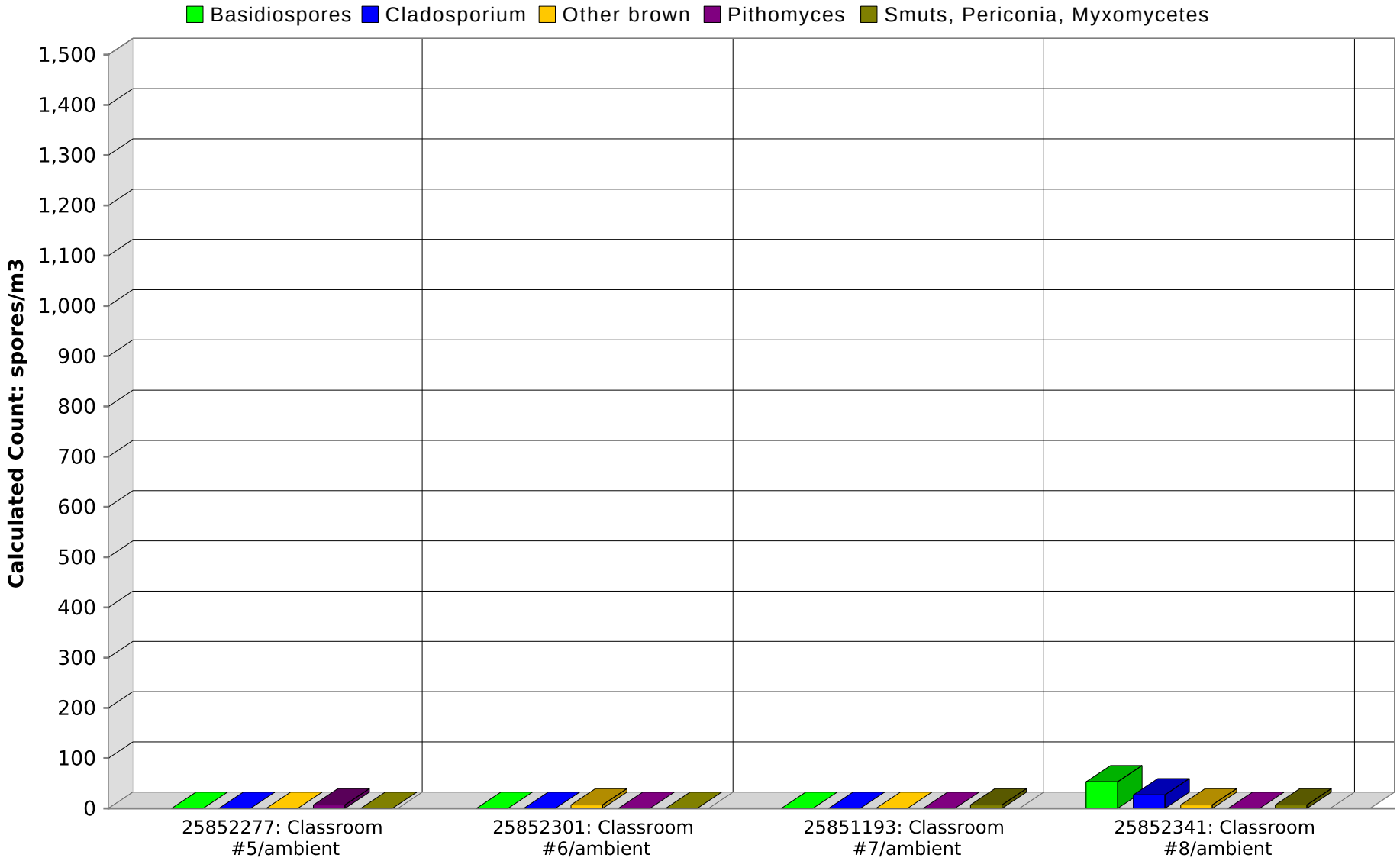
SPORE TRAP REPORT: NON-VIABLE METHODOLOGY



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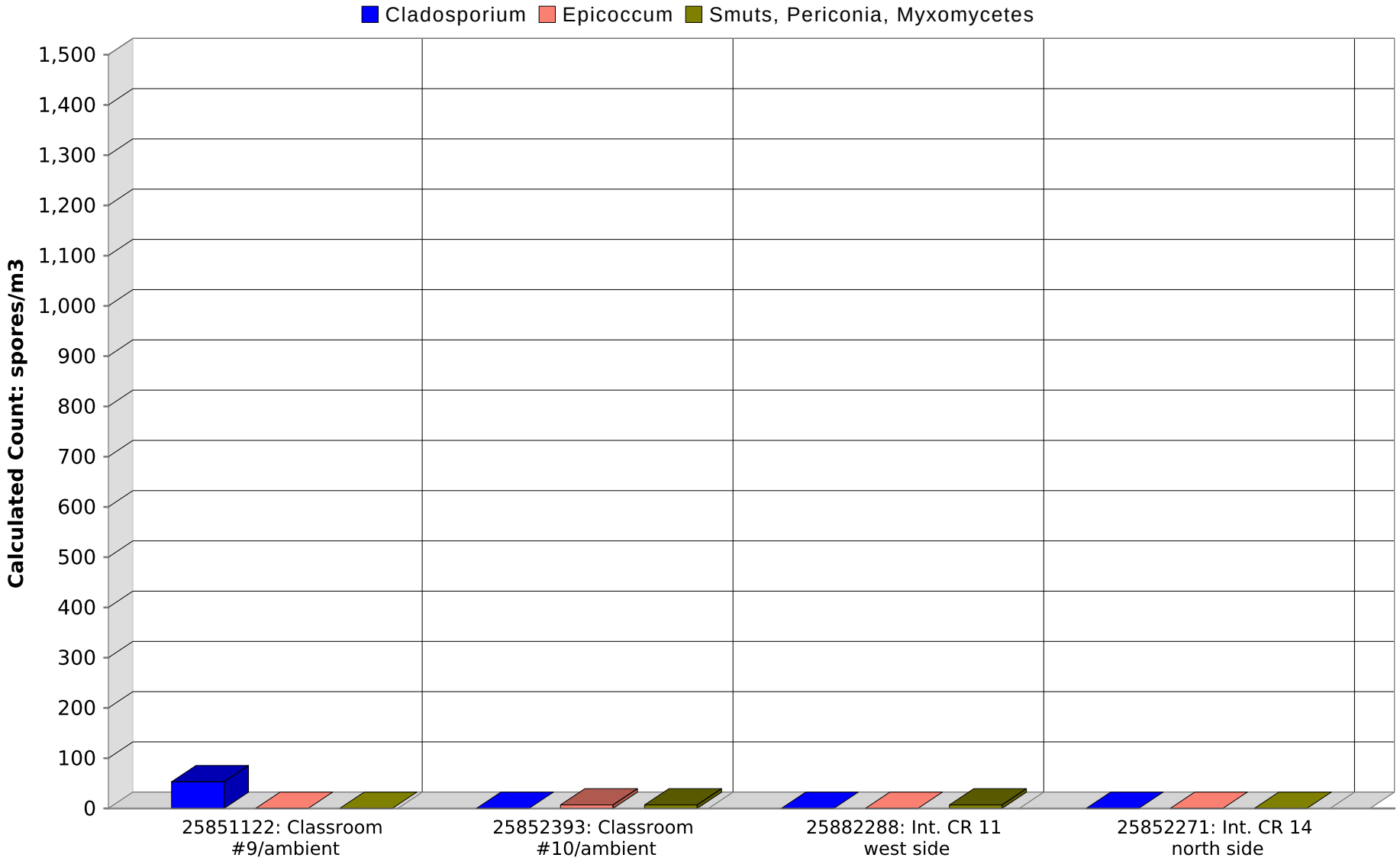

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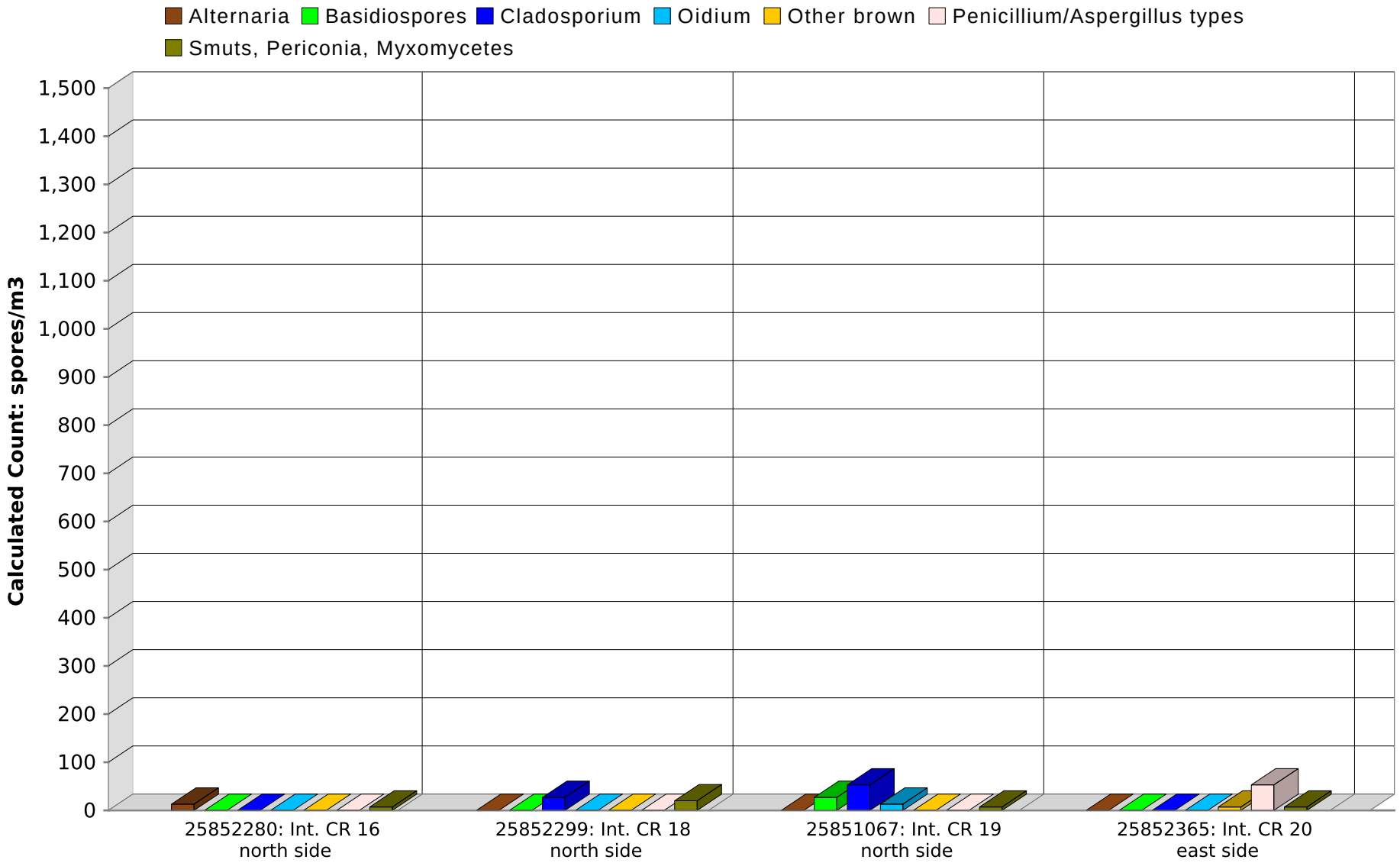

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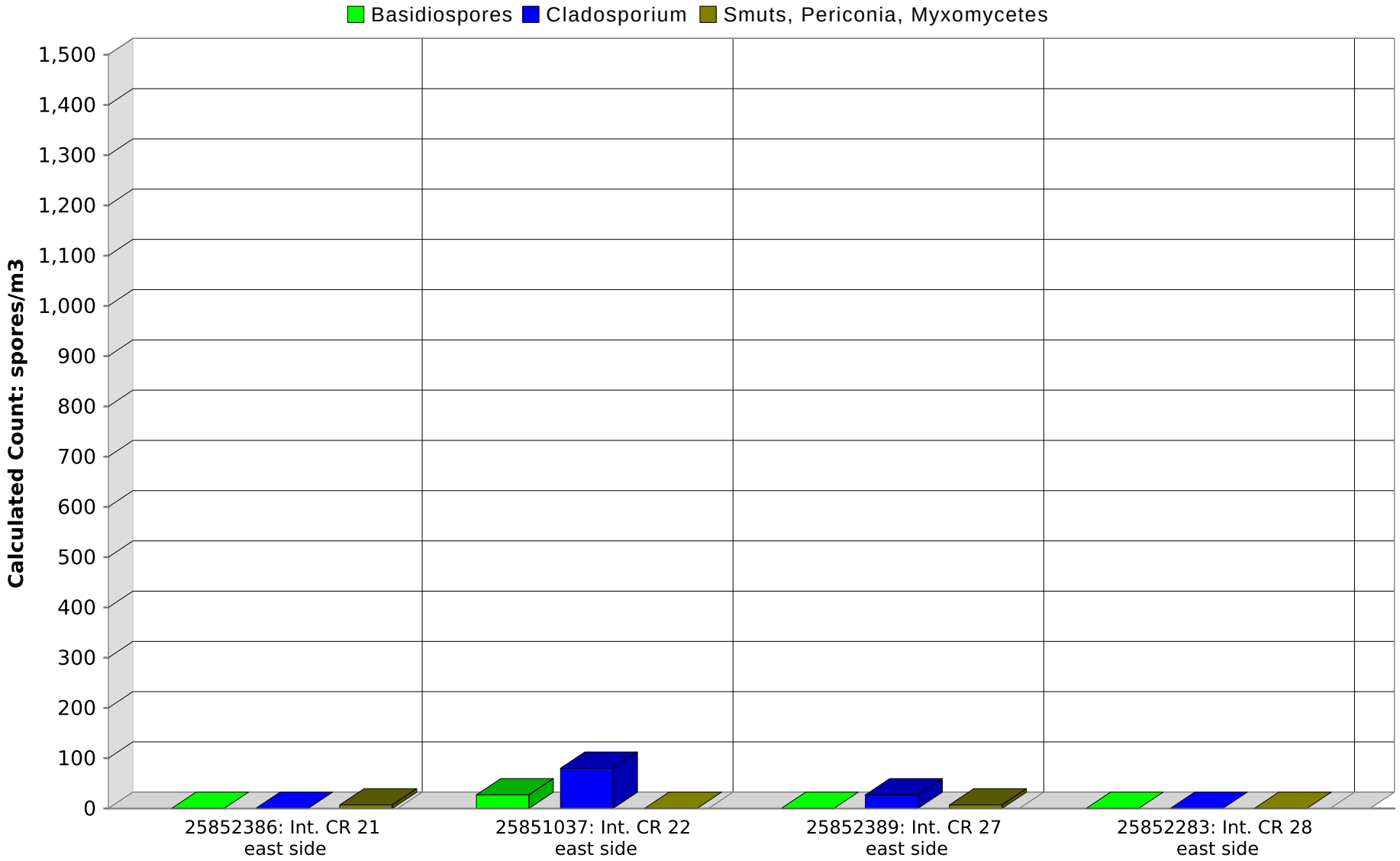

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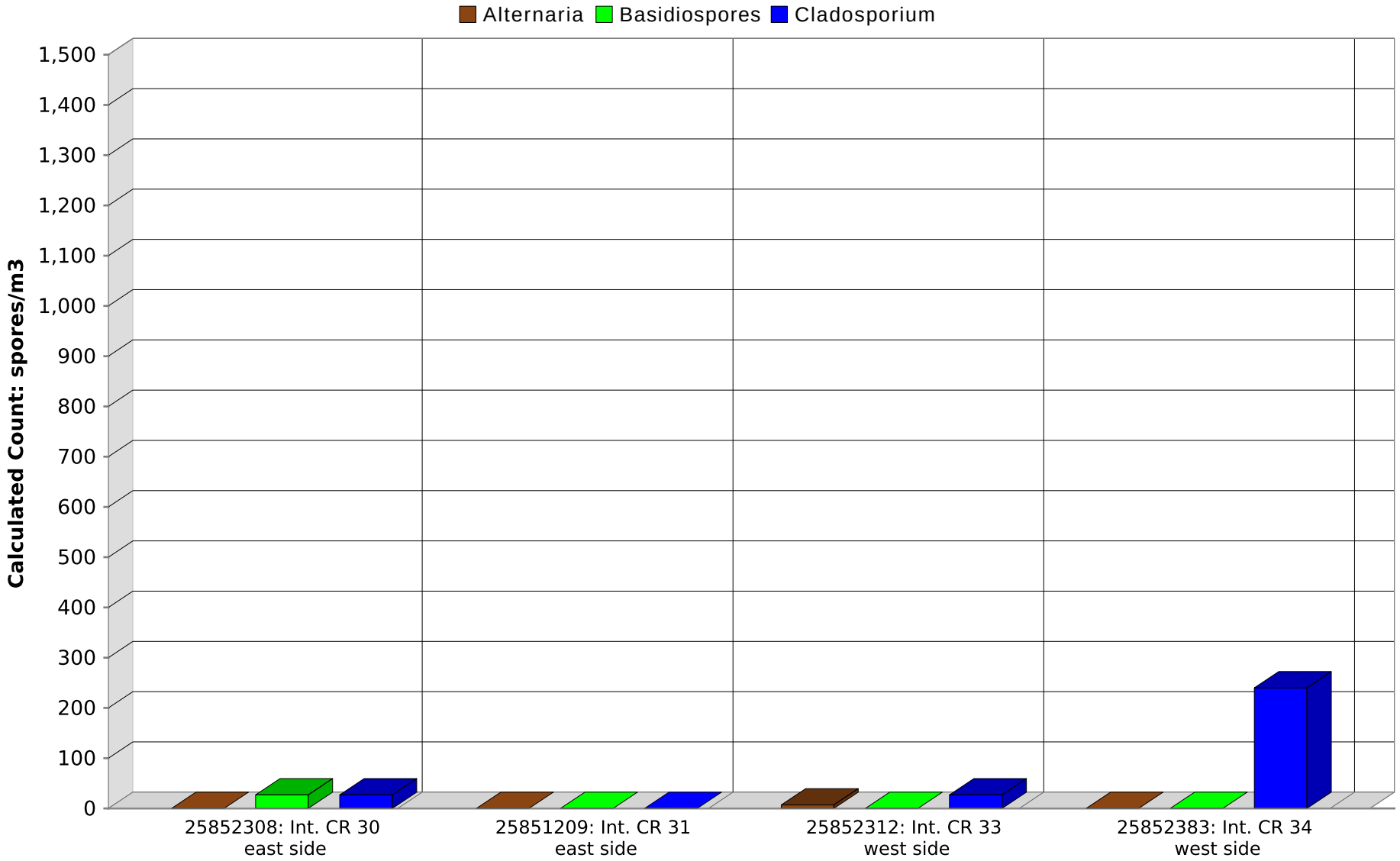

Comments:

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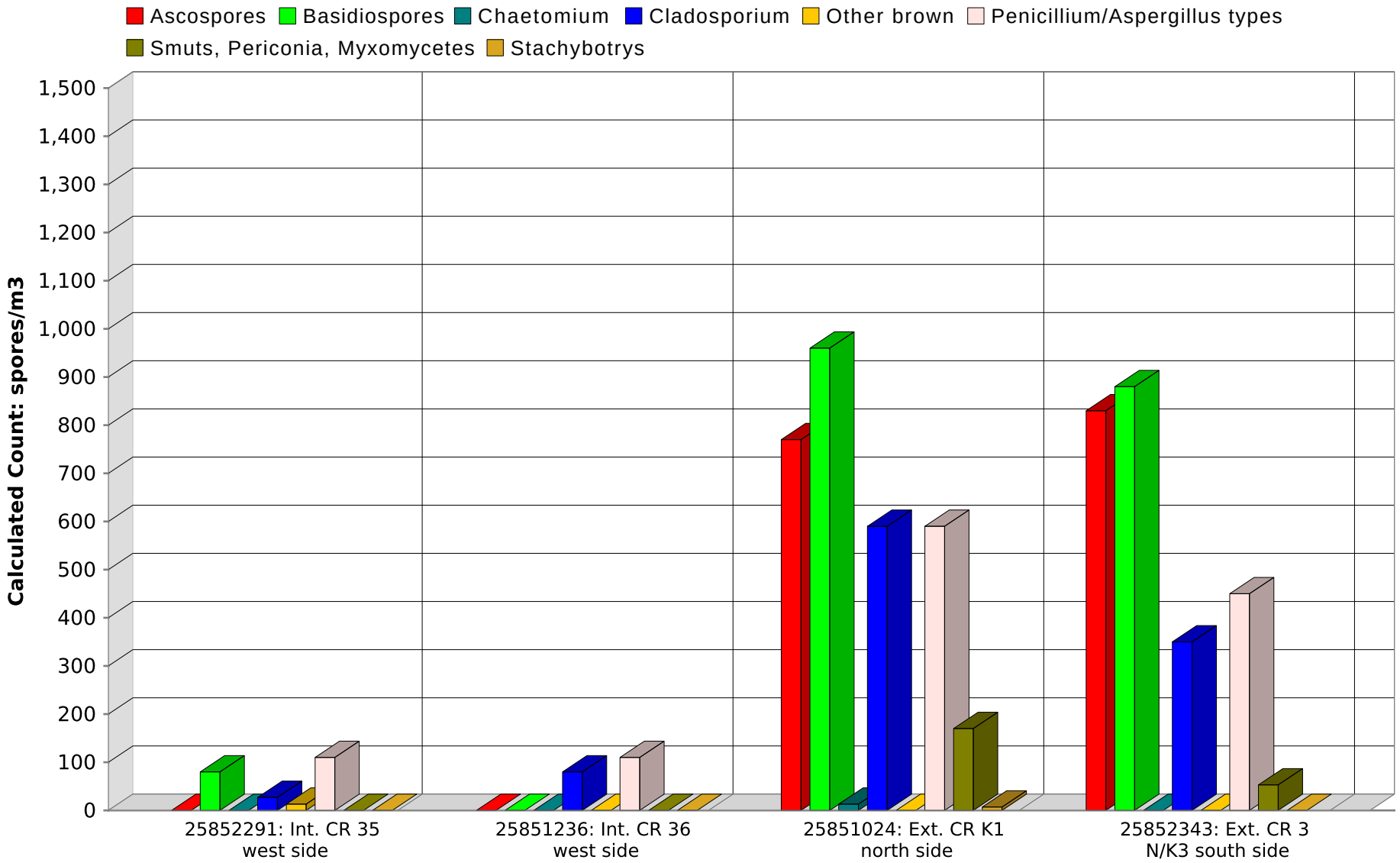
SPORE TRAP REPORT: NON-VIABLE METHODOLOGY



Comments:

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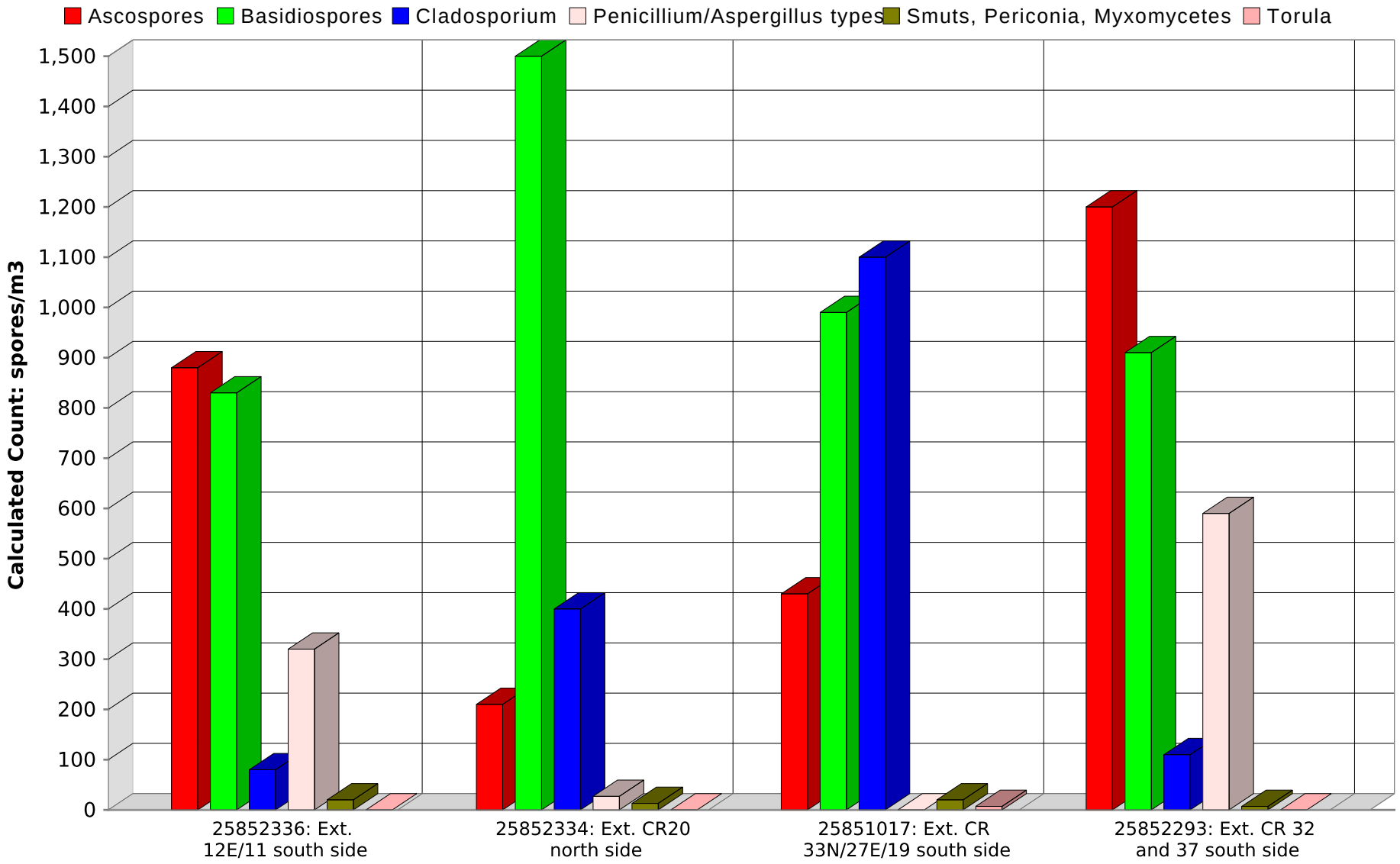

Comments:

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CHAIN OF CUSTODY

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Phoenix, AZ: 1501 West Knudsen drive, Phoenix, AZ 85027 * (800) 651-4802
San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-6653

P8 [illegible]

Weather	Fog	Rain	Snow	Wind	Clear
Level: None	☐	☐	☐	☐	☐
Light	☐	☐	☐	☐	
Moderate	☐	☐	☐	☐	
Heavy	☐	☐	☐	☐	

REQUESTED S[ERVICES] (Use checkbox[es])

001923996

CONTACT INFORMATION

Company:	HazMat Doc (6644)	Address: 3080 Olcott Street #135D, Santa Clara, CA 95054
Contact:	Maheen B. Doctor	Special instructions: email results to: zen@hazmatdoc.com
Phone:	408-748-0055	

PROJECT INFORMATION

Project ID:	18-079		
Project Description:	DOVE HILL ES MOLD SCREENING		
Project Zip Code:	95121	Sampling Date & Time:	5/5/18
PO Number:		Sampled By:	

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)

ND – Next Business Day

SD – Same Business Day Rush

WH – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
25851032	CLASSROOM # R1 / AMBIENT	ST	STD	150 L	
25852361	— " — R2 / — " —	ST	STD	150 L	
25852329	— " — R3 / — " —	ST	STD	150 L	
25851247	CLASSROOM #3 / AMBIENT	ST	STD	150 L	
25851075	— " — #4 / — " —	ST	STD	150 L	
25852277	— " — #5 / — " —	ST	STD	150 L	
25852301	— " — #6 / — " —	ST	STD	150 L	
25851195	— " — #7 / — " —	ST	STD	150 L	
25852341	— " — #8 / — " —	ST	STD	150 L	
25851122	— " — #9 / — " —	ST	STD	150 L	
25852393	— " — #10 / — " —	ST	STD	150 L	

Requested services (Non-Culturable: Spore Trap; Tape Swab Bulk — Culturable: BioCassette™, Andersen, Water, Bulk, Dust, Soil):

Sample ID	Fungi Spore Trap Analysis	Spore trap Analysis + Other particles	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + Asp. spp.)	2-Media Surface Fungi (Genus ID + Asp. spp.)	3-Media Surface Fungi (Genus ID + Asp. spp.)	Culturable Air Fungi (Genus ID + Asp. spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	Legionella culture	Total Coliform, E. coli (Presence/Absence)	Membrane Filtration (specify organism)	MPN Bacteria (specify organism)	QuantiTray – Sewage Screen	Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis – PLM (EPA method 600/R-93/116)	Other (specify test)	Mold Spore/Air [illegible]
25851032	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒
25852361	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒
25852329	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒
25851247	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒
25851075	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒
25852277	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒
25852301	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒
25851195	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒
25852341	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒
25851122	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒
25852393	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒

SAMPLE TYPE CODES

BC – BioCassette ™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
A1S – Andersen		SW – Swab	SO – Soil
SAS – Surface Air Sampler	P – Potable Water	B – Bulk	
CP – Contact Plate	NP – Non-Potable Water	O – Other	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
[signature]	5/5/18	[signature]	5/8/18 935

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at http://www.emlab.com/s/main/serviceterms.html

CHAIN OF CUSTODY

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Phoenix, AZ: 1501 West Knudsen drive, Phoenix, AZ 85027 * (800) 831-4362
San Bruno, CA: 1150 Bayhill Drive #100, San Bruno, CA 94066 * (866) 888-6853

Weather	Fog	Rain	Snow	Wind	Clear
Level: None	☐	☐	☐	☐	☑
Light	☐	☐	☐	☑	
Moderate	☐	☐	☐	☐	
Heavy	☐	☐	☐	☐	

CONTACT INFORMATION

Company:	HazMat Doc (6644)	Address: 3080 Olcott Street #135D, Santa Clara, CA 95054	
Contact:	Maheen B. Doctor	Special Instructions: email results to: zen@hazmatdoc.com	
Phone:	408-748-0055		

PROJECT INFORMATION

Project ID:	18-079		
Project Description:	DOVE HILL ES MOLD SCREENING		
Project Zip Code:	95121	Sampling Date & Time:	5/5/18
PO Number:		Sampled By:	LK / 1350

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush
WH – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

REQUESTED (Use checkbox)

Non-Culturable: Spore Trap | Tape Swab Bulk

Culturable: BioCassette™, Andersen, Water, Bulk, Dust, Soil

001923996

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)	Fungi – Spore Trap Analysis	Spore Trap Analysis – Other periodes	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + Asp. spp.)	2-Media Surface Fungi (Genus ID + Asp. spp.)	3-Media Surface Fungi (Genus ID + Asp. spp.)	Culturable Air Fungi (Genus ID + Asp. spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	Legionella culture	Total Coliform, E. coli (Pressence/Absence)	Membrane Filtration (specify organism):	HPC Bacteria (specify organism):	Quest Tray – Sewage Screen	Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis – PLM (EPA, revised 600/R-93-116)	PCR (specify test):	
25852238	INT CR 11 WEST SIDE	S1	STD	150 L	1350	☑	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
25852271	INT CR 14 NORTH SIDE	S1	STD			☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
25852280	INT CR 16 NORTH SIDE	S1	STD			☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
25852289	INT CR 18 NORTH SIDE	S1	STD			☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
25852067	INT CR 19 NORTH SIDE	S1	STD			☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
25852306	INT CR 20 EAST SIDE	S1	STD			☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
25852320	INT CR 21 EAST SIDE	S1	STD			☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
25852039	INT CR 23 EAST SIDE	S1	STD			☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
25852359	INT CR 27 EAST SIDE	S1	STD			☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
25852365	INT CR 28 EAST SIDE	S1	STD			☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
25852308	INT CR 30 EAST SIDE	S1	STD			☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

SAMPLE TYPE CODES			
BC – BioCassette™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
AS – Andersen		SW – Swab	SO – Soil
SAS – Surface Air Sampler	P – Potable Water	B – Bulk	
CP – Contact Plate	NP – Non-Potable Water	O – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	5/5/18		5/8/18 935

pg 3 of 3

CHAIN OF CUSTODY
www.EMLabPK.com

EMLab P&K
A TestAmerica Company

New Jersey: 3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 * (866) 871-1984
Phoenix, AZ: 1501 West Knudsen Drive, Phoenix, AZ 85027 * (800) 651-4802
San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-6653

Weather	Fog	Rain	Snow	Wind	Clear
Level: None	☐	☐	☐	☐	
Light	☐	☐	☐	☒	☒
Moderate	☐	☐	☐	☐	
Heavy	☐	☐	☐	☐	

REQUESTED SER[VICES] (Use checkboxes)

001923996

CONTACT INFORMATION

Company:	HazMat Doc (6644)	Address: 3080 Olcott Street #135D, Santa Clara, CA 95054
Contact:	Maheen B. Doctor	Special Instructions: email results to: zen@hazmatdoc.com
Phone:	408-748-0055	

PROJECT INFORMATION

Project ID:	18-079		
Project Description:	DOVE HILL ES MOLD SCREENING		
Project Zip Code:	95121	Sampling Date & Time:	5/5/18
PO Number:		Sampled By:	LC/ZBD

TURN AROUND TIME CODES (TAT)

- STD – Standard (DEFAULT)
- ND – Next Business Day
- SD – Same Business Day Rush
- WH – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
2585 1709	INT CL 31 EAST SIDE	ST	STD	150 L	0800
2585 2312	INT CL 33 WEST SIDE	ST	STD		
2585 2383	INT CL 34 WEST SIDE	ST	STD		
2585 2291	INT CL 35 WEST SIDE	ST	STD		
2585 2230	INT CL 36 WEST SIDE	ST	STD		
2585 1024	EXT CR K1 NORTH SIDE	ST	STD		
2585 2383	EXT CR 3N/K3 SOUTH SIDE	ST	STD		
2585 2336	EXT CR 12E/11 SOUTH SIDE	ST	STD		
2585 2334	EXT CR 20 NORTH SIDE	ST	STD		
2585 1017	EXT CR 33N/27E/19 SOUTH SIDE	ST	STD		
2585 9293	EXT CR 32 & 57 SOUTH SIDE	ST	STD		

Requested services — Non-Culturable: Spore Trap; Tape Swab Bulk. Culturable: BioCassette™, Andersen, Water, Bulk, Dust, Soil, Contact Plates.

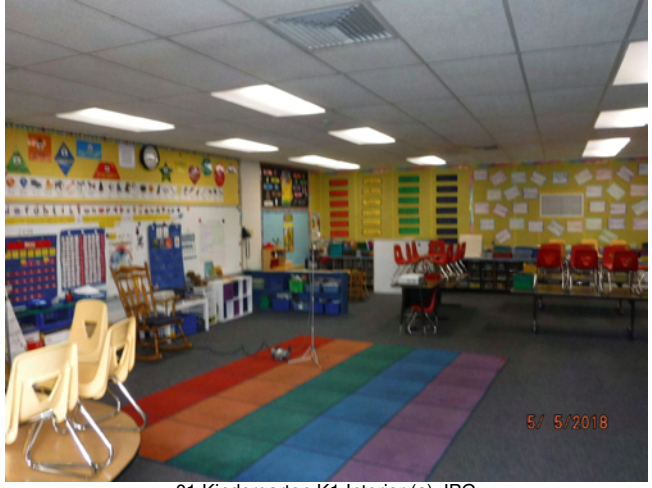
Sample ID	Fungi – Spore Trap Analysis	Spore Trap Analysis – Other particles	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + Asp. spp.)	2-Media Surface Fungi (Genus ID + Asp. spp.)	3-Media Surface Fungi (Genus ID + Asp. spp.)	Culturable Air Fungi (Genus ID + Asp. spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	Legionella culture	Total Coliforms, E. coli (Presence/Absence)	Membrane Filtration (specify organism)	MPN Bacteria (specify organism)	QuantiTray – Sewage Screen	Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis – PLM (EPA method 600/R-93-116)	PCR (specify task)	
2585 1709	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2585 2312	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2585 2383	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2585 2291	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2585 2230	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2585 1024	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2585 2383	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2585 2336	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2585 2334	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2585 1017	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2585 9293	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

SAMPLE TYPE CODES

BC – BioCassette™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
AIS – Andersen		SW – Swab	SO – Soil
SAS – Surface Air Sampler	P – Potable Water	B – Bulk	
CP – Contact Plate	NP – Non-Potable Water	O – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
[signature]	5/5/18	[signature]	5/8/18 935

PART – III



01 Kindergarten K1 Interior (a).JPG
05/05/2018

02 Kindergarten K1 Interior (b).JPG
05/05/2018

03 Kindergarten K2 Interior (a).JPG
05/05/2018

04 Kindergarten K2 Interior (b).JPG
05/05/2018

05 Kindergarten K3 Interior (a).JPG
05/05/2018

06 Kindergarten K3 Interior (b).JPG
05/05/2018

07 Classroom #3 Interior (a).JPG
05/05/2018

08 Classroom #3 Interior (b).JPG
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09 Classroom #4 Interior (a).JPG
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10 Classroom #4 Interior (b).JPG
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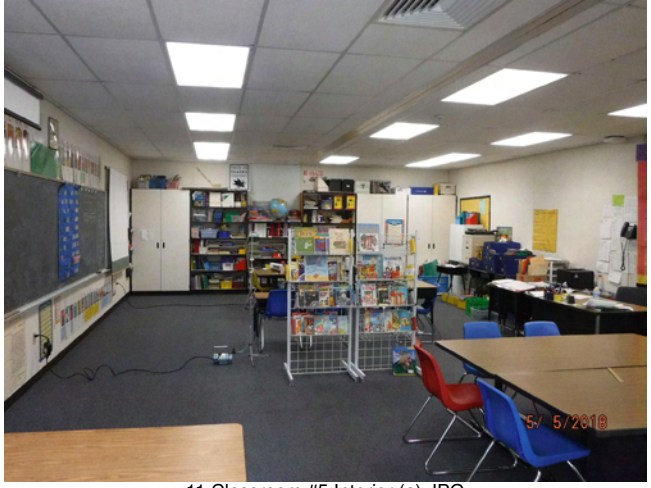

11 Classroom #5 Interior (a).JPG
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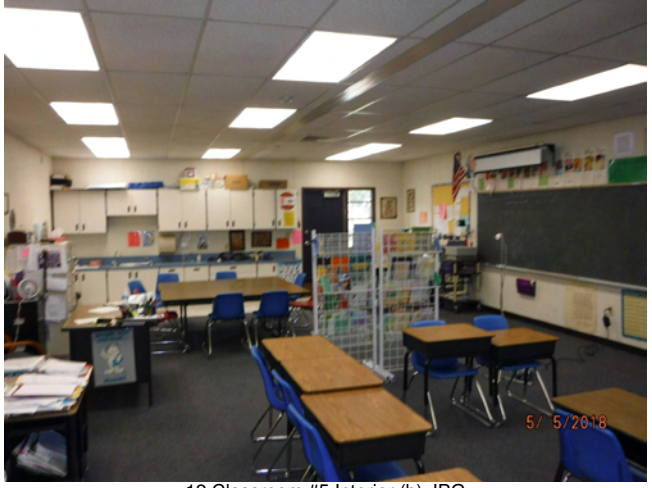
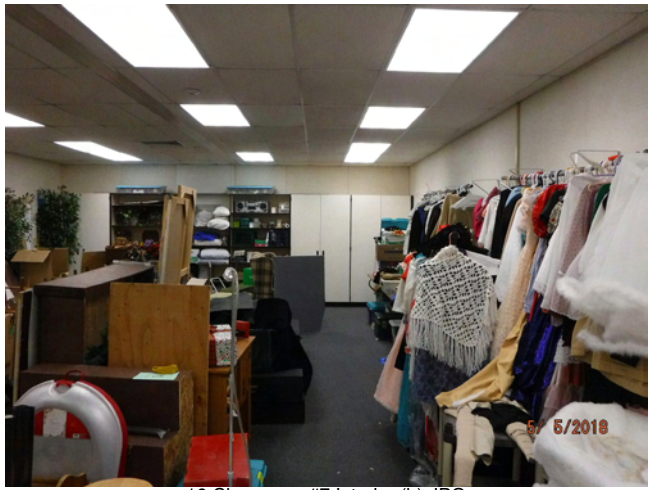


12 Classroom #5 Interior (b).JPG
05/05/2018

13 Classroom #6 Interior (a).JPG
05/05/2018

14 Classroom #6 Interior (b).JPG
05/05/2018

15 Classroom #7 Interior (a).JPG
05/05/2018



16 Classroom #7 Interior (b).JPG
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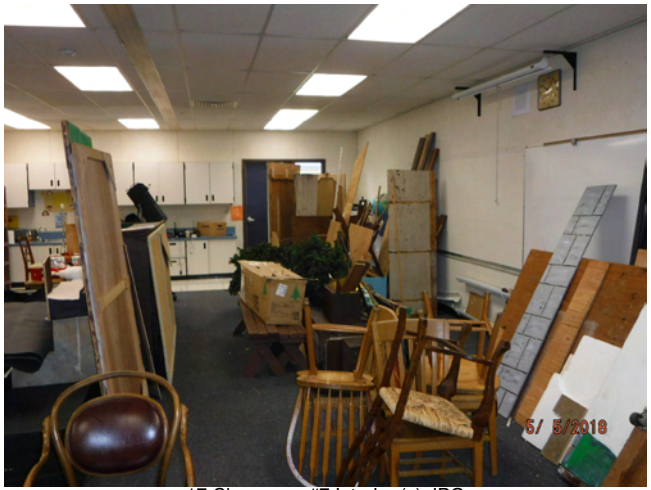

17 Classroom #7 Interior (c).JPG
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18 Classroom #7 Interior (d).JPG
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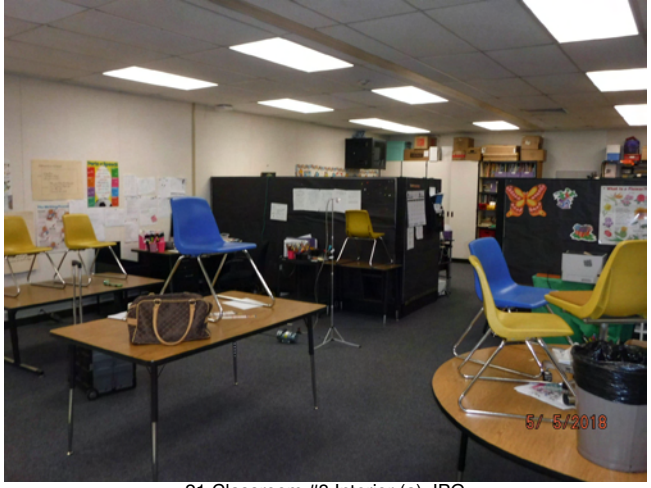
20 Classroom #7 Interior (e) Paint.JPG
05/05/2018



21 Classroom #8 Interior (a).JPG
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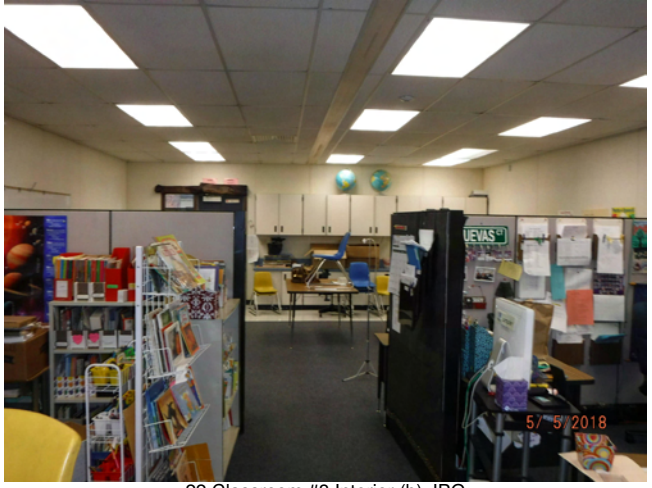

22 Classroom #8 Interior (b).JPG
05/05/2018

23 Classroom #8 Interior (c) Air Freshener.JPG
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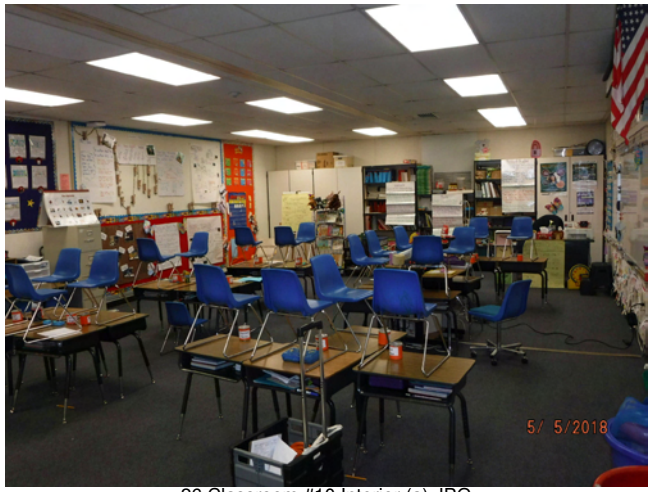
24 Classroom #9 Interior (a).JPG
05/05/2018

25 Classroom #9 Interior (b).JPG
05/05/2018



26 Classroom #10 Interior (a).JPG
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27 Classroom #10 Interior (b).JPG
05/05/2018

28 Exterior N Side of Kinder 1 (a).JPG
05/05/2018

29 Exterior N Side of Kinder 1 (b).JPG
05/05/2018

30 Exterior E Side of CR 3 (a).JPG
05/05/2018

31 Exterior E Side of CR 3 (b).JPG
05/05/2018

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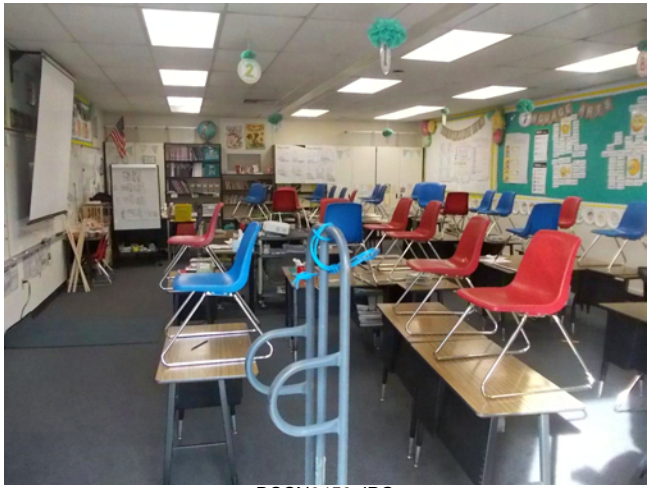
05/05/2018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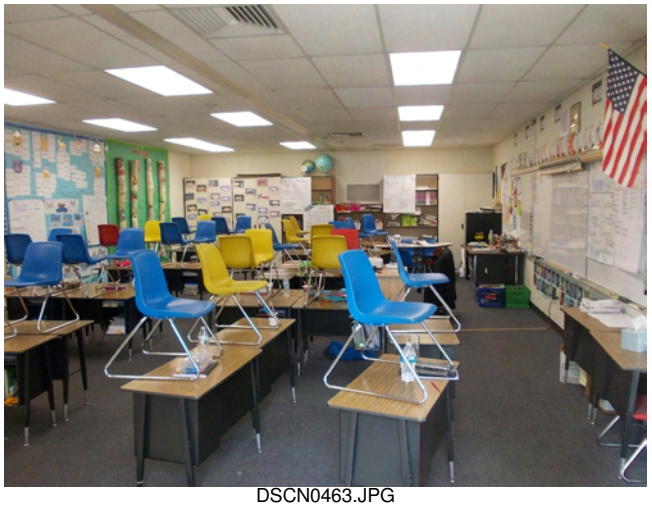
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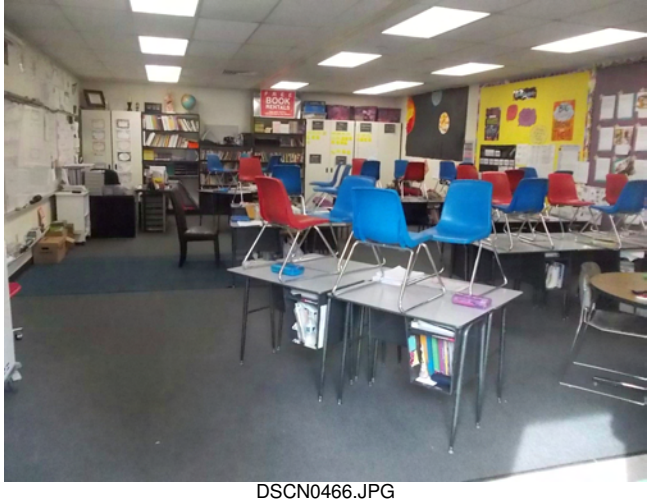

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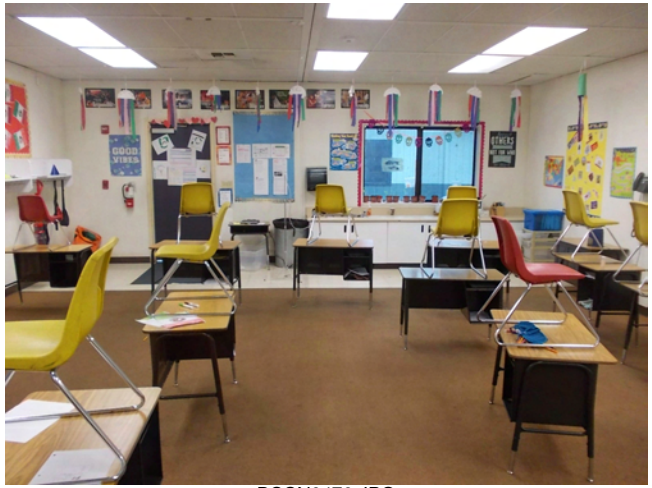

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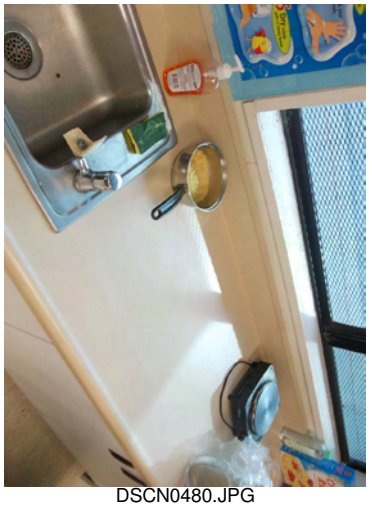

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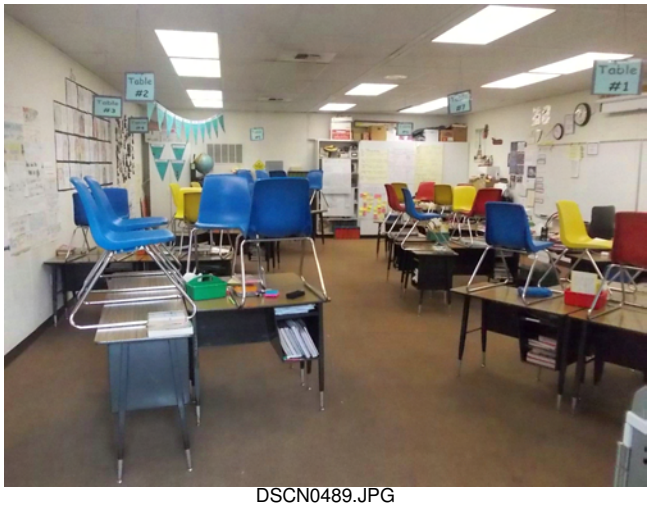

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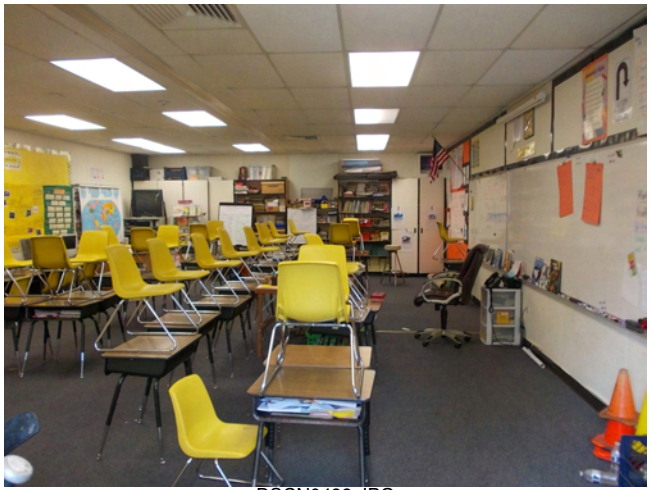

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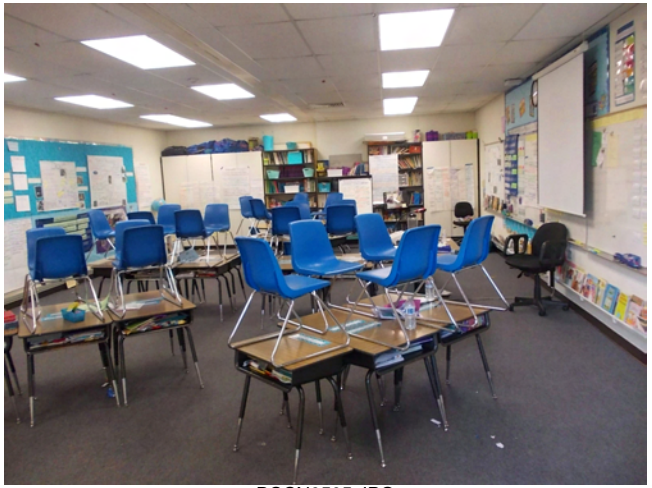

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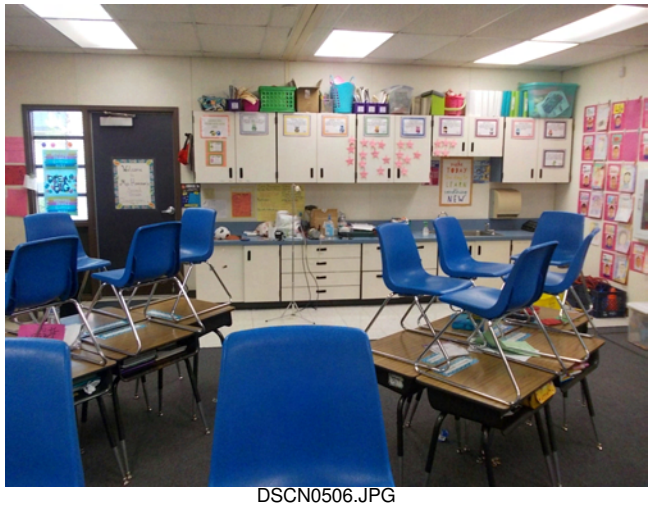

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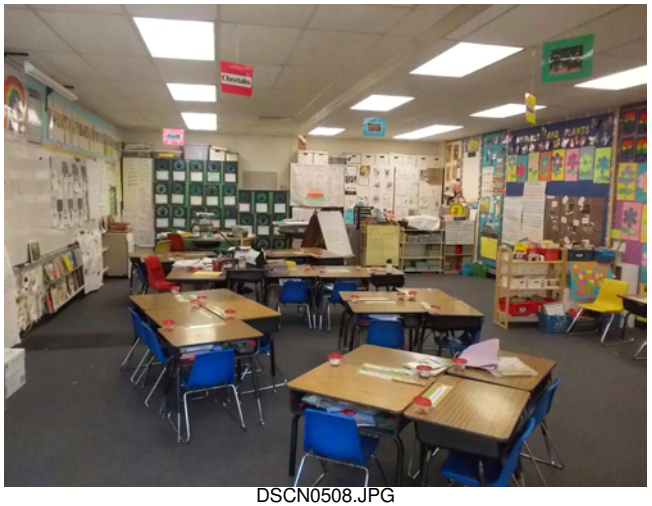

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