



- **Project Management**
- **Air Monitoring**
- **Environmental Surveys**
- **Testing Laboratory**

Mr. Les Zang  
Maintenance Department  
Butler Area School District  
120 Campus Lane  
Butler, PA 16001

Re: 119630.BASD.IEQ  
Summit Township Elementary School

Dear Mr. Zang,

As a follow up to your request, AGX, Inc., represented by Ms. Amber Brancolini, Mr. Zach Means, and Mr. Scotty May performed a limited indoor mold assessment at the above referenced facility on August 19, 27, 30, 31, and September 5, 2019 located at 351 Brinker Road, Butler, PA 16002. The purpose of the assessment was to perform a visual inspection and conduct mold sampling to characterize existing airborne mold spore concentrations.

**Visual Inspection (8/19/2019):**

**Room 10:**

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, built-in cabinets, and throw rugs.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- No water or suspect mold staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 10.
  - Temperature was 82.7° F and relative humidity was 54.0%.

**Room 2:**

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.

- Suspect mold staining was noted under a table.



- No water staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 2.
  - Temperature was 82.0° F and relative humidity was 57.0%.

#### Room 4:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, built-in cabinets, and a throw rug.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- Suspect mold staining was noted on the flag and wooden legs on a toy ironing board.





- No water staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 4.
  - Temperature was 82.9° F and relative humidity was 55.6%.

#### Room 1:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- Water stained ceiling tiles were observed in the classroom.



- Suspect mold staining was noted under tables and on bookcases.



- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 1.
  - Temperature was 83.3° F and relative humidity was 54.8%.

#### Room 5:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, built-in cabinets, and throw rugs.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.



- Suspect mold staining was noted on plastic cubes.



- No water staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 5.
  - Temperature was 81.8° F and relative humidity was 55.8%.

#### Room 6:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, built-in cabinets, and a throw rug.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- Suspect mold staining was noted under tables.



- No water staining was observed.

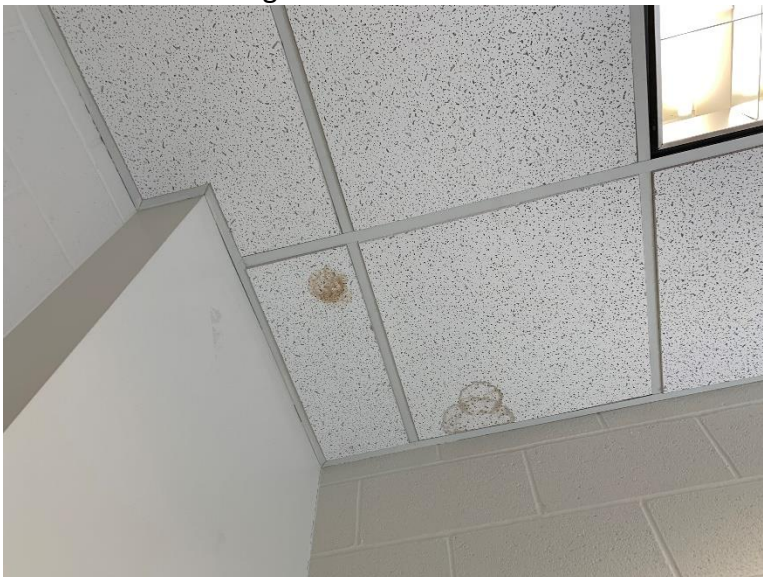
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 6.
  - Temperature was 82.4° F and relative humidity was 57.4%.

#### Room 7:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- Suspect mold staining was noted on an eraser.



- Water stained ceiling tiles were observed.



- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.

- Temperature and relative humidity readings were collected in Room 7.
  - Temperature was 83.4° F and relative humidity was 57.0%.

Room 13:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, built-in cabinets, and a throw rug.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- Suspect mold staining was noted under tables.





- Water stained ceiling tiles were observed.



- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 13.
  - Temperature was 82.9° F and relative humidity was 54.9%.

#### Room 16:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan and stand fan were observed in the classroom.
  - The fans were off at the time of sampling.



- Suspect mold staining was noted under tables.



- Water stained ceiling tiles were observed.



- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 16.
  - Temperature was 82.4° F and relative humidity was 53.8%.

#### Room 17:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.

- Suspect mold staining was noted under a wood stand.



- No water staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 17.
  - Temperature was 81.5° F and relative humidity was 57.6%.

#### Guidance Office:

- The office was comprised of drywall, 12" floor tile, and 2' x 2' suspended ceiling tiles.
- A ceiling diffuser was observed in the office.
  - The system had been switched from heat to air conditioning at the time of sampling.
- Suspect mold staining was noted under the table.



- No water staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.

- Temperature and relative humidity readings were collected in the Guidance Office.
  - Temperature was 75.9° F and relative humidity was 53.8%.

Principal's Office:

- The office was comprised of drywall, concrete block, 12" floor tile, and 2' x 2' suspended ceiling tiles.
- A ceiling diffuser was observed in the office.
  - The system had been switched from heat to air conditioning at the time of sampling.
- No water or suspect mold staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in the Principal's Office.
  - Temperature was 69.6° F and relative humidity was 42.5%.

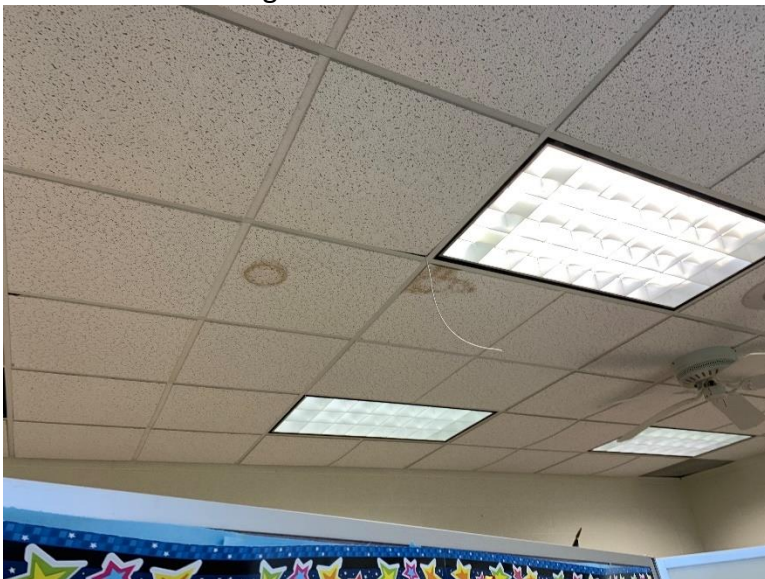
Outside:

- Temperature and relative humidity readings were collected Outside on August 19, 2019.
  - Temperature was 81.6° F and relative humidity was 55.7%.

## Visual Inspection (8/27/2019):

### Room 9:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- Water stained ceiling tiles were observed.



- No suspect mold staining was noted in the classroom.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 9.
  - Temperature was 74.8° F and relative humidity was 68.3%.

### Room 8:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- No water or suspect mold staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 8.
  - Temperature was 76.1° F and relative humidity was 63.3%.



#### Room 7:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- Water stained ceiling tiles were observed in the classroom.



- No suspect mold staining was noted.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 7.
  - Temperature was 73.9° F and relative humidity was 66.6%.

#### Room 6:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.

- Suspect mold staining was noted under tables.



- No water staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 6.
  - Temperature was 75.0° F and relative humidity was 68.0%.

#### Room 5:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- Suspect mold staining was noted under tables.



- No water staining was observed.

- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 5.
  - Temperature was 74.6° F and relative humidity was 61.3%.

#### Room 4:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- The flag had been removed in the classroom.
- No water or suspect mold staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 4.
  - Temperature was 74.8° F and relative humidity was 70.8%.

#### Room 3:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, built-in cabinets, and a throw rug.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- Suspect mold staining was noted behind 2 bookcases.
- No water staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 3.
  - Temperature was 73.7° F and relative humidity was 67.1%.

#### Room 2:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.

- Suspect mold staining was noted under a table.



- No water staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 2.
  - Temperature was 75.9° F and relative humidity was 67.5%.

#### Room 1:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- Water stained ceiling tiles were observed.



- No suspect mold staining was noted.



- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 1.
  - Temperature was 75.3° F and relative humidity was 67.5%.

Room 16:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan and stand fan were observed in the classroom.
  - The fans were off at the time of sampling.
- Water stained ceiling tiles were observed.



- Suspect mold staining was noted under a table.



- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.

- Temperature and relative humidity readings were collected in Room 16.
  - Temperature was 75.7° F and relative humidity was 65.0%.

#### Room 17:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
  - The walls were covered with decorative paper.



- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- A dehumidifier was observed in the classroom.



- Suspect mold staining was noted on a bookcase.



- No water staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 17.
  - Temperature was 74.1° F and relative humidity was 71.9%.

#### Room 14:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- Water stained ceiling tiles were observed.





- Suspect mold staining was noted under the Teacher's Desk.



- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 14.
  - Temperature was 74.6° F and relative humidity was 69.5%.

#### Room 15:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- Water stained ceiling tiles were observed.





- Suspect mold staining was noted under a table.



- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 15.
  - Temperature was 75.5° F and relative humidity was 68.0%.

#### Room 12:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- No water or suspect mold staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 12.
  - Temperature was 74.3° F and relative humidity was 73.7%.

#### Room 13:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.

- Water stained ceiling tiles were observed.



- Suspect mold staining was noted under a table and on the Teacher's Desk.





- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 13.
  - Temperature was 75.2° F and relative humidity was 70.3%.

#### Guidance Office:

- The office was comprised of drywall, 12" floor tile, and 2' x 2' suspended ceiling tiles.
- A ceiling diffuser was observed in the office.
- Suspect mold staining was noted under the table.



- No water staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in the Guidance Office.
  - Temperature was 75.5° F and relative humidity was 70.3%.

#### Room 11:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan and stand fan were observed in the classroom.
  - The fans were off at the time of sampling.
- Dirt was observed under a folding table in the classroom.



- No water or suspect mold staining were observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 11.
  - Temperature was 73.7° F and relative humidity was 70.2%.

#### Room 10:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, built-in cabinets, and throw rugs.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- No water or suspect mold staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 10.
  - Temperature was 76.4° F and relative humidity was 66.7%.

#### Computer Lab:

- The lab was comprised of drywall, concrete block, 12" floor tile, and 2' x 2' suspended ceiling tiles.
- Ceiling diffusers were observed throughout the Computer Lab.



- Water stained ceiling tiles were observed.



- Suspect mold staining was noted under a table.



- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in the Computer Lab.
  - Temperature was 70.5° F and relative humidity was 73.1%.

#### Library:

- The Library was comprised of drywall, concrete block, carpet, 12" floor tile, and 2' x 2' suspended ceiling tiles.
- Unit ventilators were observed along the window wall.
  - The unit vents were on at the time of sampling.
- Ceiling diffusers were observed throughout the Library as well.
- Water stained ceiling tiles were observed.



- No suspect mold staining was noted.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.

- Temperature and relative humidity readings were collected in the Library.
  - Temperature was 74.3° F and relative humidity was 57.3%.

#### Nurse's Office:

- The office was comprised of drywall, concrete block, 12" floor tile, and 2' x 2' suspended ceiling tiles.
- Ceiling diffusers were observed throughout the Nurse's Office.
- Water stained ceiling tiles were observed.



- No suspect mold staining was noted.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in the Nurse's Office.
  - Temperature was 75.9° F and relative humidity was 66.8%.

#### Conference Room:

- The room was comprised of drywall, concrete block, 12" floor tile, and 2' x 2' suspended ceiling tiles.
- A ceiling diffuser was observed.

- Suspect mold staining was noted inside a cabinet.



- No water staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in the Conference Room.
  - Temperature was 71.7° F and relative humidity was 71.0%.

Outside:

- Temperature and relative humidity readings were collected Outside on August 27, 2019.
  - Temperature was 74.0° F and relative humidity was 76.0%.



## Visual Inspection (8/30/2019):

### Room 2:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- A dehumidifier was observed in the classroom.
  - The dehumidifier was on at the time of the inspection.
- No water or suspect mold staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 2.
  - Temperature was 76.4° F and relative humidity was 39.4%.

### Room 3:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, built-in cabinets, and a throw rug.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- A dehumidifier was observed in the classroom.
  - The dehumidifier was on at the time of the inspection.
- No water or suspect mold staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 3.
  - Temperature was 73.9° F and relative humidity was 44.1%.

### Room 4:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- A dehumidifier was observed in the classroom.
  - The dehumidifier was on at the time of the inspection.

- Suspect mold staining was noted under a table.



- No water staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 4.
  - Temperature was 72.8° F and relative humidity was 49.4%.

#### Room 8:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- A dehumidifier was observed in the classroom.
  - The dehumidifier was on at the time of the inspection.
- Suspect mold staining was noted under a computer desk.



- No water staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 8.
  - Temperature was 74.3° F and relative humidity was 42.4%.

#### Conference Room:

- The room was comprised of drywall, concrete block, 12" floor tile, and 2' x 2' suspended ceiling tiles.
- A ceiling diffuser was observed.
- A dehumidifier was observed in the room.
  - The bucket was full at the time of the inspection.
- Suspect mold staining was noted inside a cabinet.



- No water staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in the Conference Room.
  - Temperature was 73.2° F and relative humidity was 46.4%.

#### Guidance Office:

- The office was comprised of drywall, 12" floor tile, and 2' x 2' suspended ceiling tiles.
- A ceiling diffuser was observed in the office.
- A dehumidifier was observed in the office.
  - The bucket was full at the time of the inspection.

- Suspect mold staining was noted under the table.



- No water staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in the Guidance Office.
  - Temperature was 75.0° F and relative humidity was 48.0%.

#### Room 15:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- A dehumidifier was observed in the classroom.
  - The dehumidifier was on at the time of the inspection.
- Water stained ceiling tiles were observed.
- No suspect mold staining was noted.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 15.
  - Temperature was 75.7° F and relative humidity was 44.0%.

#### Room 10:

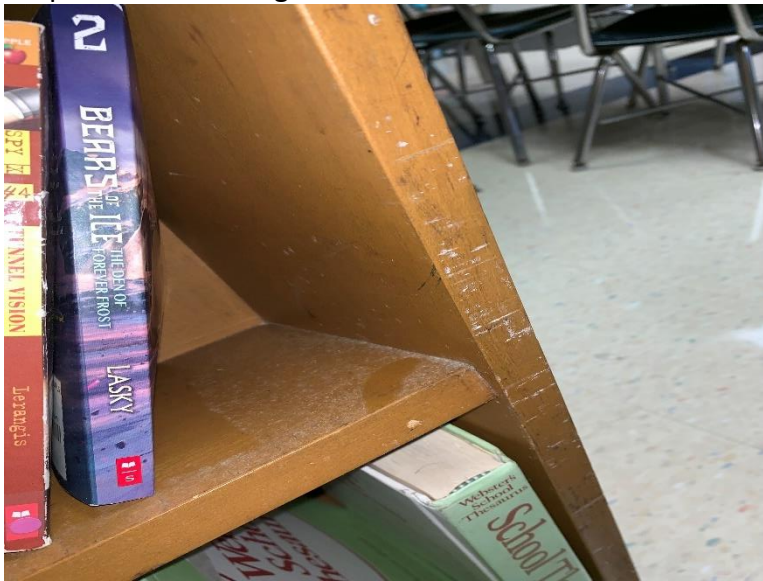
- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, built-in cabinets, and throw rugs.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- A dehumidifier was observed in the classroom.



- The dehumidifier was on at the time of the inspection.
- No water or suspect mold staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 10.
  - Temperature was 76.4° F and relative humidity was 39.6%.

#### Room 17:

- The classroom was comprised of drywall, concrete block, 12" floor tile, 2' x 2' suspended ceiling tiles, and built-in cabinets.
  - The walls were covered with decorative paper.
- A unit ventilator was observed along the window wall.
  - The unit vent was on at the time of the inspection.
- A ceiling fan was observed in the classroom.
  - The fan was off at the time of sampling.
- A dehumidifier was observed in the classroom.
  - The dehumidifier was on at the time of the inspection.
- Suspect mold staining was noted on a bookcase and inside a cabinet.





- No water staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in Room 17.
  - Temperature was 73.7° F and relative humidity was 48.2%.

Outside:

- Temperature and relative humidity readings were collected Outside on August 30, 2019.
  - Temperature was 69.2° F and relative humidity was 61.0%.

## **Visual Inspection (8/31/2019):**

On August 31, 2019, AGX Inc., represented by Ms. Amber Brancolini and Mr. Scott May, performed remediation efforts, fogging, in an attempt to lower mold spore concentrations in the following areas with elevated moisture “marker” mold types; Room 10, Guidance Office, Room 17, Conference Room, Room 4, and Room 3. Temperature and relative humidity readings were collected in order to document the conditions.

### **Room 10:**

- Temperature and relative humidity readings were collected in Room 10.
  - Temperature was 78.2° F and relative humidity was 44.7%.

### **Guidance Office:**

- Temperature and relative humidity readings were collected in the Guidance Office.
  - Temperature was 78.0° F and relative humidity was 44.5%.

### **Room 17:**

- Temperature and relative humidity readings were collected in Room 17.
  - Temperature was 77.9° F and relative humidity was 46.2%.

### **Conference Room:**

- Temperature and relative humidity readings were collected in the Conference Room.
  - Temperature was 72.1° F and relative humidity was 56.4%.

### **Room 4:**

- Temperature and relative humidity readings were collected in Room 4.
  - Temperature was 77.0° F and relative humidity was 47.3%.

### **Room 3:**

- Temperature and relative humidity readings were collected in Room 3.
  - Temperature was 78.6° F and relative humidity was 43.7%.

### **Outside:**

- Temperature and relative humidity readings were collected Outside on August 31, 2019.
  - Temperature was 62.2° F and relative humidity was 67.6%.



## **Visual Inspection (9/5/2019):**

### **Conference Room:**

- The room was comprised of drywall, concrete block, 12" floor tile, and 2' x 2' suspended ceiling tiles.
- A ceiling diffuser was observed.
- A dehumidifier was observed in the room.
  - The dehumidifier was on at the time of the inspection.
- The cabinet in the room had been removed, but boxes remained.
- No suspect or water staining was observed.
- Building materials were tested for moisture using a Flir MR176 moisture meter.
  - No elevated moisture readings were detected.
- Temperature and relative humidity readings were collected in the Conference Room.
  - Temperature was 74.6° F and relative humidity was 41.0%.

### **Outside:**

- Temperature and relative humidity readings were collected Outside on September 5, 2019.
  - Temperature was 59.7° F and relative humidity was 64.8%.

## Bioaerosol Total Mold Spores:

### Industry Guidelines for Bioaerosol

Ideally, total mold spore concentrations should be lower than the outdoor control sample and absent elevated levels of “marker” molds (i.e. *Aspergillus*/*Penicillium*, *Chaetomium*, *Cladosporium*, *Stachybotrys*) which are specifically related to indoor moisture issues. Based on variability of outdoor mold spore concentration and distribution, caution should be used when comparing indoor to outdoor mold concentrations. When interpreting indoor air quality, the following industry guidelines were used to provide parameters to evaluating the degree of potential indoor airborne mold amplification. The guidelines are based on a “Clean” building which is free from current or historical water intrusions or elevated moisture conditions and free from elevated biological, cellulose or synthetic fibers.

Mold (Spores/m <sup>3</sup> )	Mold Types	Description
<1,000	Penicillium, Aspergillus, Cladosporium	Indoor Source Unlikely
1,000 – 5,000	Penicillium, Aspergillus, Cladosporium	Possible Indoor Source
5,000 – 10,000	Penicillium, Aspergillus, Cladosporium	Indoor Source Likely
>10,000	Penicillium, Aspergillus, Cladosporium	Chronic Indoor Amplification
Indoor < Outdoor	Chaetomium, Stachybotrys	Indoor Source Unlikely
Indoor to Outdoor Difference ≤ 5 Spores	Chaetomium, Stachybotrys	Possible Indoor Source
Indoor to Outdoor Difference > 5 Spores	Chaetomium, Stachybotrys	Indoor Source Likely
<2,000	All Types	Indoor Source Unlikely

- Amplification of *Aspergillus*/*Penicillium* types: if the difference between the indoor and outdoor samples is <300 Spores/m<sup>3</sup> then indoor source is unlikely, 300-800 Spores/m<sup>3</sup> an indoor source is possible or >800 Spores/m<sup>3</sup> indoor source is likely.
- Amplification of *Cladosporium* types: if the difference between the indoor and outdoor samples is 1 to 1.4 times the outdoor concentration then an indoor source is unlikely, lower than or equal to 1.6 times the outdoor concentration then an indoor source is possible or more than twice the outdoor concentration then an indoor source is likely.

Standards or Threshold Limit Values (TLV's) for airborne concentrations of molds, or mold spores have not been set. Currently there are no EPA regulations or standards for airborne mold contaminants. The American Conference of Governmental Industrial Hygienist (ACGIH) recommended approach to assessing and controlling mold exposures relies on visual inspection, assessing occupant symptoms, evaluating building performance, monitoring potential environmental sources and application of professional judgement.

#### Bioaerosol Measured Results

A total of thirteen (13) air samples were collected, in Room 10, Room 2, Room 4, Room 1, Room 5, Room 6, Room 7, Room 13, Room 16, Room 17, the Guidance Office, the Principal's Office, and an Outside control sample (See Attached). The results of the samples collected, when compared to the outside control sample and industry guidelines, revealed acceptable levels in Room 2, Room 1, Room 6, Room 17, and the Principal's Office. An elevated amount of moisture "marker" mold; *Aspergillus/Penicillium* was identified in Room 10, Room 4, Room 5, Room 7, Room 13, Room 16, and the Guidance Office. Rooms 10, 4, and the Guidance Office identified a chronic indoor amplification of *Aspergillus/Penicillium*. Additional cleaning and air scrubbing were recommended.

Table 1. Bioaerosol air sampling results collected on August 19, 2019 at Summit Township Elementary School.

Sample Location	Sample Number	Results	
		Mold Spores/Hyphal Fragments	Predominant/Indicator Molds
Room 10	STE-10-01	21,080 spores/m <sup>3</sup> 52 Hyphal Fragments	<i>Aspergillus/Penicillium</i> (19,936) <i>Cladosporium</i> (832) Ascospores (221) Basidiospores (65)
Room 2	STE-2-02	1,586 spores/m <sup>3</sup> 26 Hyphal Fragments	<i>Cladosporium</i> (715) <i>Aspergillus/Penicillium</i> (403) Basidiospores (286) Ascospores (182)
Room 4	STE-4-03	39,635 spores/m <sup>3</sup> 26 Hyphal Fragments	<i>Aspergillus/Penicillium</i> (37,113) <i>Cladosporium</i> (2,210) Ascospores (182) Basidiospores (117)

Sample Location	Sample Number	Results	
		Mold Spores/Hyphal Fragments	Predominant/Indicator Molds
Room 1	STE-1-04	897 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (494) Basidiospores (182) Cladosporium (182) Ascospores (39)
Room 5	STE-5-05	5,096 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (4,771) Cladosporium (247) Ascospores (52) Basidiospores (26)
Room 6	STE-6-06	1,573 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (975) Cladosporium (481) Ascospores (91) Basidiospores (26)
Room 7	STE-7-07	7,553 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (6,240) Cladosporium (598) Basidiospores (377) Ascospores (338)
Room 13	STE-13-08	3,718 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (2,145) Cladosporium (923) Basidiospores (364) Ascospores (234)
Room 16	STE-16-09	2,912 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (1,443) Cladosporium (663) Basidiospores (468) Ascospores (338)
Room 17	STE-17-10	1,352 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (598) Basidiospores (507) Ascospores (169) Cladosporium (78)



Sample Location	Sample Number	Results	
		Mold Spores/Hyphal Fragments	Predominant/Indicator Molds
Guidance	STE-GD-11	26,018 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (25,810) Cladosporium (182) Ascospores (26)
Principal's Office	STE-PRIN-12	572 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (520) Basidiospores (39)
Outside	STE-OUT-13	6,292 spores/m <sup>3</sup> 13 Hyphal Fragments	Basidiospores (2,236) Cladosporium (1,885) Ascospores (1,664) Aspergillus/Penicillium (312)

A total of twenty-three (23) air samples were collected, in Room 9, Room 8, Room 7, Room 6, Room 5, Room 4, Room 3, Room 2, Room 1, Room 16, Room 17, Room 14, Room 15, Room 12, Room 13, the Guidance Office, Room 11, Room 10, the Computer Lab, the Library, the Nurse's Office, the Conference Room, and an Outside control sample (See Attached). The results of the samples collected, when compared to the outside control sample and industry guidelines, revealed acceptable levels in Rooms 9, 7, 6, 5, 1, 16, 14, 12, 13, 11, the Computer Lab, the Library, and the Nurse's Office. An elevated amount of moisture "marker" mold; *Aspergillus/Penicillium* was identified in Rooms 8, 4, 3, 2, 17, 15, 10, the Guidance Office, and the Conference Room. Rooms 2 and 3 identified a chronic indoor amplification of *Aspergillus/Penicillium*. Additional cleaning and air scrubbing were recommended.

Table 2. Bioaerosol air sampling results collected on August 27, 2019 at Summit Township Elementary School.

Sample Location	Sample Number	Results	
		Mold Spores/Hyphal Fragments	Predominant/Indicator Molds
Room 9	STE-9-14	377 spores/m <sup>3</sup> <13 Hyphal Fragments	<i>Aspergillus/Penicillium</i> (365) <i>Cladosporium</i> (13)
Room 8	STE-8-15	1,677 spores/m <sup>3</sup> <13 Hyphal Fragments	<i>Aspergillus/Penicillium</i> (1,638) <i>Cladosporium</i> (26)
Room 7	STE-7-16	871 spores/m <sup>3</sup> <13 Hyphal Fragments	<i>Aspergillus/Penicillium</i> (728) Basidiospores (143)
Room 6	STE-6-17	728 spores/m <sup>3</sup> <13 Hyphal Fragments	<i>Aspergillus/Penicillium</i> (364) Basidiospores (273) <i>Cladosporium</i> (52)
Room 5	STE-5-18	221 spores/m <sup>3</sup> <13 Hyphal Fragments	<i>Aspergillus/Penicillium</i> (91) Basidiospores (91) <i>Cladosporium</i> (26)

Sample Location	Sample Number	Results	
		Mold Spores/Hyphal Fragments	Predominant/Indicator Molds
Room 4	STE-4-19	3,341 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (3,133) Basidiospores (104) Cladosporium (91)
Room 3	STE-3-20	12,753 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (12,519) Basidiospores (130) Cladosporium (52)
Room 2	STE-2-21	28,034 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (27,501) Cladosporium (286) Smuts/Myxomycetes (91) Basidiospores (78)
Room 1	STE-1-22	1,079 spores/m <sup>3</sup> <13 Hyphal Fragments	Basidiospores (663) Aspergillus/Penicillium (377) Ascospores (26)
Room 16	STE-16-23	351 spores/m <sup>3</sup> <13 Hyphal Fragments	Basidiospores (208) Aspergillus/Penicillium (130)
Room 17	STE-17-24	2,509 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (2,015) Cladosporium (364) Basidiospores (117)
Room 14	STE-14-25	91 spores/m <sup>3</sup> <13 Hyphal Fragments	Basidiospores (91)

Sample Location	Sample Number	Results	
		Mold Spores/Hyphal Fragments	Predominant/Indicator Molds
Room 15	STE-15-26	2,860 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (2,249) Basidiospores (559) Cladosporium (39)
Room 12	STE-12-27	728 spores/m <sup>3</sup> <13 Hyphal Fragments	Basidiospores (468) Aspergillus/Penicillium (130) Ascospores (117)
Room 13	STE-13-28	1,378 spores/m <sup>3</sup> <13 Hyphal Fragments	Basidiospores (741) Aspergillus/Penicillium (520) Cladosporium (91) Ascospores (26)
Guidance Office	STE-GD-29	1,755 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (1,716) Basidiospores (39)
Room 11	STE-11-30	208 spores/m <sup>3</sup> <13 Hyphal Fragments	Basidiospores (130) Aspergillus/Penicillium (78)
Room 10	STE-10-31	2,106 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (1,976) Basidiospores (78) Cladosporium (39)
Computer Lab	STE-CR-32	182 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (104) Basidiospores (52)



Sample Location	Sample Number	Results	
		Mold Spores/Hyphal Fragments	Predominant/Indicator Molds
Library	STE-LIB-33	312 spores/m <sup>3</sup> 13 Hyphal Fragments	Aspergillus/Penicillium (169) Basidiospores (65) Smuts/Myxomycetes (39) Cladosporium (26)
Nurse's Office	STE-NUR-34	559 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (455) Basidiospores (78) Cladosporium (26)
Conference Room	STE-CON-35	17,154 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (17,024) Basidiospores (78)
Outside	STE-OUT-36	18,905 spores/m <sup>3</sup> <13 Hyphal Fragments	Basidiospores (17,423) Ascospores (1,300) Cladosporium (117) Aspergillus/Penicillium (26)

A total of ten (10) air samples were collected, in Room 2, Room 3, Room 4, Room 8, the Conference Room, the Guidance Office, Room 15, Room 10, Room 17, and an Outside control sample (See Attached). The results of the samples collected, when compared to the outside control sample and industry guidelines, revealed acceptable levels in Rooms 2, 8, and 15. An elevated amount of moisture “marker” mold; Aspergillus/Penicillium was identified in Rooms 3, 4, 10, 17, the Conference Room, and the Guidance Office. Room 10 identified a chronic indoor amplification of Aspergillus/Penicillium. Additional cleaning and air scrubbing were recommended.

Table 3. Bioaerosol air sampling results collected on August 30, 2019 at Summit Township Elementary School.

Sample Location	Sample Number	Results	
		Mold Spores/Hyphal Fragments	Predominant/Indicator Molds
Room 2	STE-2-37	988 spores/m <sup>3</sup> 13 Hyphal Fragments	Basidiospores (481) Aspergillus/Penicillium (260) Cladosporium (221)
Room 3	STE-3-38	2,847 spores/m <sup>3</sup> 65 Hyphal Fragments	Aspergillus/Penicillium (2,210) Basidiospores (273) Cladosporium (208)
Room 4	STE-4-39	3,198 spores/m <sup>3</sup> 13 Hyphal Fragments	Aspergillus/Penicillium (1,690) Basidiospores (936) Cladosporium (507)
Room 8	STE-8-40	52 spores/m <sup>3</sup> <13 Hyphal Fragments	Basidiospores (39) Aspergillus/Penicillium (13)
Conference Room	STE-CON-41	3,016 spores/m <sup>3</sup> 13 Hyphal Fragments	Aspergillus/Penicillium (2,912) Basidiospores (39) Cladosporium (39)

Sample Location	Sample Number	Results	
		Mold Spores/Hyphal Fragments	Predominant/Indicator Molds
Guidance Office	STE-GD-42	1,521 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (1,092) Cladosporium (338) Basidiospores (78)
Room 15	STE-15-43	780 spores/m <sup>3</sup> <13 Hyphal Fragments	Basidiospores (351) Aspergillus/Penicillium (195) Cladosporium (195)
Room 10	STE-10-44	13,872 spores/m <sup>3</sup> 26 Hyphal Fragments	Aspergillus/Penicillium (13,300) Cladosporium (351) Basidiospores (182)
Room 17	STE-17-45	3,679 spores/m <sup>3</sup> 104 Hyphal Fragments	Aspergillus/Penicillium (1,898) Cladosporium (1,092) Basidiospores (572)
Outside	STE-OUT-46	22,485 spores/m <sup>3</sup> 26 Hyphal Fragments	Basidiospores (20,470) Cladosporium (1,300) Ascospores (286)

A total of seven (7) air samples were collected, in Room 10, the Guidance Office, Room 17, the Conference Room, Room 4, Room 3 and an Outside control sample (See Attached). The results of the samples collected, when compared to the outside control sample and industry guidelines, revealed acceptable levels in Rooms 10, 17, 4, 3, and the Guidance Office. An elevated amount of moisture “marker” mold; *Aspergillus/Penicillium* was identified in the Conference Room. Additional cleaning and air scrubbing were recommended.

Table 4. Bioaerosol air sampling results collected on August 31, 2019 at Summit Township Elementary School.

Sample Location	Sample Number	Results	
		Mold Spores/Hyphal Fragments	Predominant/Indicator Molds
Room 10	STE-10-47	195 spores/m <sup>3</sup> <13 Hyphal Fragments	<i>Aspergillus/Penicillium</i> (91) Basidiospores (91)
Guidance Office	STE-GD-48	26 spores/m <sup>3</sup> <13 Hyphal Fragments	Basidiospores (26)
Room 17	STE-17-49	650 spores/m <sup>3</sup> <13 Hyphal Fragments	Basidiospores (559) Ascospores (52) <i>Aspergillus/Penicillium</i> (26)
Conference Room	STE-CON-50	3,445 spores/m <sup>3</sup> <13 Hyphal Fragments	<i>Aspergillus/Penicillium</i> (3,250) Basidiospores (169)
Room 4	STE-4-51	507 spores/m <sup>3</sup> <13 Hyphal Fragments	<i>Aspergillus/Penicillium</i> (481) Basidiospores (26)



Sample Location	Sample Number	Results	
		Mold Spores/Hyphal Fragments	Predominant/Indicator Molds
Room 3	STE-3-52	676 spores/m <sup>3</sup> <13 Hyphal Fragments	Aspergillus/Penicillium (624) Basidiospores (39)
Outside	STE-OUT-53	28,013 spores/m <sup>3</sup> <13 Hyphal Fragments	Basidiospores (26,700) Cladosporium (663) Ascospores (598)

A total of two (2) air samples were collected, in the Conference Room and an Outside control sample (See Attached). The results of the samples collected, when compared to the outside control sample and industry guidelines, revealed total indoor mold spore concentrations less than the total outdoor mold spore concentrations and were absent of elevated moisture “marker” molds.

Table 5. Bioaerosol air sampling results collected on September 5, 2019 at Summit Township Elementary School.

Sample Location	Sample Number	Results	
		Mold Spores/Hyphal Fragments	Predominant/Indicator Molds
Conference Room	STE-CON-54	520 spores/m <sup>3</sup> <13 Hyphal Fragments	Basidiospores (260) Aspergillus/Penicillium (182) Cladosporium (52)
Outside	STE-OUT-55	31,605 spores/m <sup>3</sup> 26 Hyphal Fragments	Basidiospores (28,836) Ascospores (2,379) Cladosporium (351)

## Conclusion:

On August 19, 27, 30, 31, and September 5, 2019, AGX performed a limited mold assessment, to document air quality levels at Summit Township Elementary School, located at 351 Brinker Road, Butler, PA 16002. On August 19, 2019 thirteen (13) air samples were collected in Room 10, Room 2, Room 4, Room 1, Room 5, Room 6, Room 7, Room 13, Room 16, Room 17, the Guidance Office, the Principal's Office, and Outside. The results revealed acceptable levels in Room 2, Room 1, Room 6, Room 17, and the Principal's Office. An elevated amount of moisture "marker" mold; *Aspergillus/Penicillium* was identified in Room 10, Room 4, Room 5, Room 7, Room 13, Room 16, and the Guidance Office. Rooms 10, 4, and the Guidance Office identified a chronic indoor amplification of *Aspergillus/Penicillium*. Additional cleaning and air scrubbing were recommended. On August 27, 2019 twenty-three (23) air samples were collected in Room 9, Room 8, Room 7, Room 6, Room 5, Room 4, Room 3, Room 2, Room 1, Room 16, Room 17, Room 14, Room 15, Room 12, Room 13, the Guidance Office, Room 11, Room 10, the Computer Lab, the Library, the Nurse's Office, the Conference Room, and Outside. The results revealed acceptable levels in Rooms 9, 7, 6, 5, 1, 16, 14, 12, 13, 11, the Computer Lab, the Library, and the Nurse's Office. An elevated amount of moisture "marker" mold; *Aspergillus/Penicillium* was identified in Rooms 8, 4, 3, 2, 17, 15, 10, the Guidance Office, and the Conference Room. Rooms 2 and 3 identified a chronic indoor amplification of *Aspergillus/Penicillium*. Additional cleaning and air scrubbing were recommended. On August 30, 2019 ten (10) air samples were collected in Room 2, Room 3, Room 4, Room 8, the Conference Room, the Guidance Office, Room 15, Room 10, Room 17, and Outside. The results revealed acceptable levels in Rooms 2, 8, and 15. An elevated amount of moisture "marker" mold; *Aspergillus/Penicillium* was identified in Rooms 3, 4, 10, 17, the Conference Room, and the Guidance Office. Room 10 identified a chronic indoor amplification of *Aspergillus/Penicillium*. Additional cleaning and air scrubbing were recommended. On August 31, 2019, AGX Inc., represented by Ms. Amber Brancolini and Mr. Scott May, performed remediation efforts, fogging, in an attempt to lower mold spore concentrations in the following areas with elevated moisture "marker" mold types; Room 10, Guidance Office, Room 17, Conference Room, Room 4, and Room 3. The results revealed acceptable levels in Rooms 10, 17, 4, 3, and the Guidance Office. An elevated amount of moisture "marker" mold; *Aspergillus/Penicillium* was identified in the Conference Room. Additional cleaning and air scrubbing were recommended. On September 5, 2019 additional air sampling was collected in the Conference Room and Outside. The results of the samples collected, when compared to the outside control sample and industry guidelines, revealed total indoor mold spore concentrations less than the total outdoor mold spore concentrations and were absent of elevated moisture "marker" molds.

## Recommendations:

- It is recommended that the HVAC system be inspected by a qualified technician and the operational settings of the HVAC systems be reviewed to ensure adequate humidity control for conditioning for all seasons.
- Water stained ceiling tiles should be removed and replaced for precautionary, aesthetic, and maintenance purposes.
- Suspect mold staining observed on hard surfaces should be cleaned with a mold disinfectant cleaner.
  - Suspect mold staining observed on items that cannot be cleaned should be removed and discarded.
- Perform periodic inspections, and if water damage or mold growths are discovered, fix the moisture problem(s) as soon as possible. Thoroughly dry material after a water intrusion. If not dried within 48 hours, porous and semi-porous cellulose based materials may have to be discarded.
- To help restrict mold growth and minimize potential indoor air quality problems associated with mold in the future indoor relative humidity levels should maintained below 60%.

Should you require further information do not hesitate to contact me. Thank you for the opportunity to be of service to you on this project.

If you have any questions, please contact me at 724-934-4249 or [abrancolini@agxinc.com](mailto:abrancolini@agxinc.com).

Thank you,  
Sincerely,



Amber Brancolini  
Industrial Hygienist  
AGX, Inc.

## DISCLAIMER:

This AGX report is based on information supplied by the client and on conditions readily observable or measurable on the date or dates of this study. The results and recommendations presented herein should not be relied upon exclusively for the prevention of all possible illnesses, injuries, or losses and the extent of actual final site condition.





U.S. Micro-Solutions, Inc. \* 302 Unity Plaza \* Latrobe, PA 15650  
Phone: (724) 853-4047 Fax: (724) 853-4049 AIHA-LAP, LLC EMLAP # 103009  
[www.usmslab.com](http://www.usmslab.com)



**Customer Name:** AGX, Inc.  
**Customer Address:** 207 Pine Creek Road  
Wexford, PA 15090  
**Sample Date:** August 19, 2019  
**Date Received:** August 20, 2019  
**Date of Amended Report:** March 20, 2020

**Customer Phone:** (724) 934-4249  
**PO Number:**  
**Project Name/Number:** Summit Township Elementary  
**Fax:** (724) 934-5677  
**Attention:** Amber Brancolini

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88218-19

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75				75				75			
Sample Number	STE-10-01				STE-2-02				STE-4-03			
Location:	Room 10				Room 2				Room 4			
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria												
Ascospores	17	13	221	1%	14	13	182	11%	14	13	182	0%
Aspergillus/Penicillium-like	112	178	19,936	95%	31	13	403	25%	139	267	37,113	94%
Basidiospores	5	13	65	0%	22	13	286	18%	9	13	117	0%
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium	64	13	832	4%	55	13	715	45%	170	13	2,210	6%
Curvularia												
Epicoccum												
Helicomyces												
Nigrospora												
Oidium												
Pithomyces/Ulocladium	2	13	26	0%					1	13	13	0%
Polythrincium												
Rusts												
Smuts/ Myxomycetes												
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	200		21,080		122		1,586		333		39,635	
Pollen	0	13	< 13		0	13	< 13		0	13	< 13	
Hyphal Fragments	4	13	52		2	13	26		2	13	26	
Insect Fragments												
Plant Fragments												
Skin Cell Fragments			1				1				1	
Debris			2				1				1	
Analyst Initials			HC				HC				HC	
Date Analyzed			08/20/19				08/20/19				08/20/19	
Cassette Serial # / Exp Date:			2796548 09/2019				2796542 09/2019				2796562 09/2019	

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.

AS=Analytical Sensitivity (spore/m<sup>3</sup>); Blank Lines = None Detected

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Technical Manager: *Sharon Fanchalsky*  
Sharon Fanchalsky, AS, MLT (ASCP)



U.S. Micro-Solutions, Inc. \* 302 Unity Plaza \* Latrobe, PA 15650  
Phone: (724) 853-4047 Fax: (724) 853-4049 AIHA-LAP, LLC EMLAP # 103009  
[www.usmslab.com](http://www.usmslab.com)



Customer Name: AGX, Inc. Sample Date: August 19, 2019  
Customer Address: 207 Pine Creek Road Date Received: August 20, 2019  
Wexford, PA 15090 Date of Amended Report: March 20, 2020

Customer Phone: (724) 934-4249 Fax: (724) 934-5677  
PO Number: Attention: Amber Brancolini  
Project Name/Number: Summit Township Elementary

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88218-19

Airborne Spore Trap Analysis - AllergencoD

Analytical Method: USMS-M008

Total Volume (L)	75				75				75			
Sample Number	STE-1-04				STE-6-05				STE-6-06			
Location:	Room 1				Room 5				Room 6			
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria												
Ascospores	3	13	39	4%	4	13	52	1%	7	13	91	6%
Aspergillus/Penicillium-like	38	13	494	55%	367	13	4,771	94%	75	13	975	62%
Basidiospores	14	13	182	20%	2	13	26	1%	2	13	26	2%
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium	14	13	182	20%	19	13	247	5%	37	13	481	31%
Curvularia												
Epicoecum												
Helicomyces												
Nigrospora												
Oidium												
Pithomyces/Ulocladium												
Polythrincium												
Rusts												
Smuts/ Myxomycetes												
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	69		897		392		5,096		121		1,573	
Pollen	0	13	< 13		0	13	< 13		0	13	< 13	
Hyphal Fragments												
Insect Fragments												
Plant Fragments												
Skin Cell Fragments			1				1				1	
Debris			2				2				2	
Analyst Initials			LS				LS				LS	
Date Analyzed			08/20/19				08/20/19				08/20/19	
Cassette Serial # / Exp Date:			2796547 09/2019				2796552 09/2019				2796553 09/2019	

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Technical Manager: *Sharon Fanchalsky*  
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[www.usmslab.com](http://www.usmslab.com)



**Customer Name:** AGX, Inc. **Sample Date:** August 19, 2019  
**Customer Address:** 207 Pine Creek Road **Date Received:** August 20, 2019  
 Wexford, PA 15090 **Date of Amended Report:** March 20, 2020

**Customer Phone:** (724) 934-4249 **Fax:** (724) 934-5677  
**PO Number:** **Attention:** Amber Brancolini  
**Project Name/Number:** Summit Township Elementary

**Customer sample numbers below are uniquely identified by prefixing Laboratory # 88218-19**

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75				75				75			
Sample Number	STE-7-07				STE-13-08				STE-16-09			
Location:	Room 7				Room 13				Room 16			
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria												
Ascospores	26	13	338	4%	18	13	234	6%	26	13	338	12%
Aspergillus/Penicillium-like	480	13	6,240	83%	165	13	2,145	58%	111	13	1,443	50%
Basidiospores	29	13	377	5%	28	13	364	10%	36	13	468	16%
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium	46	13	598	8%	71	13	923	25%	51	13	663	23%
Curvularia												
Epicoccum					1	13	13	0%				
Helicomyces					1	13	13	0%				
Nigrospora												
Oidium												
Pithomyces/Ulocladium												
Polythrincium												
Rusts												
Smuts/ Myxomycetes					2	13	26	1%				
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	581		7,553		286		3,718		224		2,912	
Pollen	1	13	13		0	13	< 13		0	13	< 13	
Hyphal Fragments												
Insect Fragments	1	13	13		6	13	78		1	13	13	
Plant Fragments												
Skin Cell Fragments												
Debris												
Analyst Initials	BM				BM				BM			
Date Analyzed	08/20/19				08/20/19				08/20/19			
Cassette Serial # / Exp Date:	2796558 09/2019				2796567 09/2019				2796569 09/2019			

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Customer Name: AGX, Inc. Sample Date: August 19, 2019  
Customer Address: 207 Pine Creek Road Date Received: August 20, 2019  
Wexford, PA 15090 Date of Amended Report: March 20, 2020

Customer Phone: (724) 934-4249 Fax: (724) 934-5677  
PO Number: Attention: Amber Brancolini  
Project Name/Number: Summit Township Elementary

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88218-19

Airborne Spore Trap Analysis - AllergencoD  
Analytical Method: USMS-M008

Total Volume (L)					75				75				75			
Sample Number					STE-17-10				STE-Gd-11				STE-Prin-12			
Location:					Room 17				Guidance				Principals Office			
					Raw ct.	AS	Spores/m²	%	Raw ct.	AS	Spores/m²	%	Raw ct.	AS	Spores/m²	%
Particle ID																
Alternaria																
Ascospores					13	13	169	13%	2	13	26	0%				
Aspergillus/Penicillium-like					46	13	598	44%	145	178	25,810	99%	40	13	520	91%
Basidiospores					39	13	507	38%					3	13	39	7%
Bipolaris/Drechslera																
Cercospora																
Chaetomium																
Cladosporium					6	13	78	6%	14	13	182	1%	1	13	13	2%
Curvularia																
Epicoccum																
Helicomyces																
Nigrospora																
Oidium																
Pithomyces/Ulocladium																
Polythrincium																
Rusts																
Smuts/ Myxomycetes																
Stachybotrys																
Torula																
Trichoderma																
Unidentified dematiaceous conidia																
Unidentified hyaline conidia																
Total Mold (Spores/m³ of air)					104		1,352		161		26,018		44		572	
Pollen					0	13	< 13		0	13	< 13		0	13	< 13	
Hyphal Fragments																
Insect Fragments																
Plant Fragments																
Skin Cell Fragments							1				1				1	
Debris							2				2				2	
Analyst Initials							LS				LS				LS	
Date Analyzed							08/20/19				08/20/19				08/20/19	
Cassette Serial # / Exp Date:							2796581 09/2019				2796574 09/2019				2796576 09/2019	

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Technical Manager: *Sharon Fanchalsky*  
Sharon Fanchalsky, AS, MLT (ASCP)

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[www.usmslab.com](http://www.usmslab.com)



**Customer Name:** AGX, Inc. **Sample Date:** August 19, 2019  
**Customer Address:** 207 Pine Creek Road **Date Received:** August 20, 2019  
 Wexford, PA 15090 **Date of Amended Report:** March 20, 2020

**Customer Phone:** (724) 934-4249 **Fax:** (724) 934-5677  
**PO Number:** **Attention:** Amber Brancolini  
**Project Name/Number:** Summit Township Elementary

**Customer sample numbers below are uniquely identified by prefixing Laboratory # 88218-19**

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75											
Sample Number	STE-Out-13											
Location:	Outside											
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria	1	13	13	0%								
Ascospores	128	13	1,664	26%								
Aspergillus/Penicillium-like	24	13	312	5%								
Basidiospores	172	13	2,236	36%								
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium	145	13	1,885	30%								
Curvularia												
Epicoccum	1	13	13	0%								
Helicomyces	2	13	26	0%								
Nigrospora												
Oidium												
Pithomyces/Ulocladium	3	13	39	1%								
Polythrincium												
Rusts	2	13	26	0%								
Smuts/ Myxomycetes	6	13	78	1%								
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	484		6,292									
Pollen	1	13	13									
Hyphal Fragments	1	13	13									
Insect Fragments												
Plant Fragments												
Skin Cell Fragments												
Debris												
Analyst Initials	HC											
Date Analyzed	08/20/19											
Cassette Serial # / Exp Date:	2931337 03/2020											

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AS=Analytical Sensitivity (spores/m<sup>3</sup>); Blank Lines = None Detected

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Technical Manager: *Sharon Fanchalsky*  
 Sharon Fanchalsky, AS, MLT (ASCP)





U.S. Micro-Solutions, Inc. \* 302 Unity Plaza \* Latrobe, PA 15650  
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[www.usmslab.com](http://www.usmslab.com)



Customer Name: AGX Inc. Sample Date: August 27, 2019  
Customer Address: 207 Pine Creek Road Date Received: August 28, 2019  
Wexford, PA 15090 Date of Report: August 28, 2019  
Customer Phone: (724) 934-4249 Fax: (724) 934-5677  
PO Number: Attention: Amber Brancolini  
Project Name/Number: Summit Elementary School

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88485-19

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75				75				75			
Sample Number	STE-9-14				STE-8-15				STE-7-16			
Location:	Room 9				Room 8				Room 7			
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria												
Ascospores												
Aspergillus/Penicillium-like	28	13	364	97%	126	13	1,638	98%	56	13	728	84%
Basidiospores					1	13	13	1%	11	13	143	16%
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium	1	13	13	3%	2	13	26	2%				
Curvularia												
Epicoccum												
Helicomyces												
Nigrospora												
Oidium												
Pithomyces/Ulocladium												
Polythrincium												
Rusts												
Smuts/ Myxomycetes												
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	29		377		129		1,677		67		871	
Pollen	0	13	< 13		0	13	< 13		0	13	< 13	
Hyphal Fragments												
Insect Fragments												
Plant Fragments												
Skin Cell Fragments			1				1				1	
Debris			2				2				2	
Analyst Initials	LS				LS				LS			
Date Analyzed	08/28/19				08/28/19				08/28/19			
Cassette Serial # / Exp Date:	2796557 09/2019				2937579 03/2020				2937586 03/2020			

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.

AS=Analytical Sensitivity (spore/m<sup>3</sup>); Blank Lines = None Detected

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Technical Manager:

*Sharon Fanchalsky*  
Sharon Fanchalsky, AS, MLT (ASCP)

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U.S. Micro-Solutions, Inc. \* 302 Unity Plaza \* Latrobe, PA 15650  
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Customer Name: AGX Inc. Sample Date: August 27, 2019  
Customer Address: 207 Pine Creek Road Date Received: August 28, 2019  
Wexford, PA 15090 Date of Report: August 28, 2019  
Customer Phone: (724) 934-4249 Fax: (724) 934-5677  
PO Number: Attention: Amber Brancolini  
Project Name/Number: Summit Elementary School

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88485-19

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75				75				75			
Sample Number	STE-6-17				STE-5-18				STE-4-19			
Location:	Room 6				Room 5				Room 4			
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria												
Ascospores	1	13	13	2%	1	13	13	6%	1	13	13	0%
Aspergillus/Penicillium-like	28	13	364	50%	7	13	91	41%	24	13	3,133	94%
Basidiospores	21	13	273	38%	7	13	91	41%	8	13	104	3%
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium	4	13	52	7%	2	13	26	12%	7	13	91	3%
Curvularia												
Epicoccum	1	13	13	2%								
Helicomyces												
Nigrospora												
Oidium												
Pithomyces/Ulocladium	1	13	13	2%								
Polythrincium												
Rusts												
Smuts/ Myxomycetes												
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	56		728		17		221		257		3,341	
Pollen	0	13	< 13		0	13	< 13		0	13	< 13	
Hyphal Fragments												
Insect Fragments												
Plant Fragments												
Skin Cell Fragments			1				1				1	
Debris			2				2				2	
Analyst Initials	LS				LS				LS			
Date Analyzed	08/28/19				08/28/19				08/28/19			
Cassette Serial # / Exp Date:	2937576 03/2020				2937593 03/2020				2936940 03/2020			

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Customer Name: AGX Inc. Sample Date: August 27, 2019  
Customer Address: 207 Pine Creek Road Date Received: August 28, 2019  
Wexford, PA 15090 Date of Report: August 28, 2019  
Customer Phone: (724) 934-4249 Fax: (724) 934-5677  
PO Number: Attention: Amber Brancolini  
Project Name/Number: Summit Elementary School

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88485-19

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75				75				75			
Sample Number	STE-3-20				STE-2-21				STE-1-22			
Location:	Room 3				Room 2				Room 1			
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria												
Ascospores	1	13	13	0%	2	13	26	0%	2	13	26	2%
Aspergillus/Penicillium-like	117	107	12,519	98%	103	267	27,501	98%	29	13	377	35%
Basidiospores	10	13	130	1%	6	13	78	0%	51	13	663	61%
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium	4	13	52	0%	22	13	286	1%	1	13	13	1%
Curvularia												
Epicoccum												
Helicomyces												
Nigrospora												
Oidium												
Pithomyces/Ulocladium	1	13	13	0%	1	13	13	0%				
Polythrincium												
Rusts	1	13	13	0%								
Smuts/ Myxomycetes	1	13	13	0%	7	13	91	0%				
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia					3	13	39	0%				
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	135		12,753		144		28,034		83		1,079	
Pollen	0	13	< 13		0	13	< 13		0	13	< 13	
Hyphal Fragments												
Insect Fragments												
Plant Fragments												
Skin Cell Fragments			1				2				1	
Debris			1				1				1	
Analyst Initials			HC				HC				HC	
Date Analyzed			08/28/19				08/28/19				08/28/19	
Cassette Serial # / Exp Date:			2796543 09/2019				2937581 03/2020				2796545 09/2019	

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Customer Name: AGX Inc. Sample Date: August 27, 2019  
Customer Address: 207 Pine Creek Road Date Received: August 28, 2019  
Wexford, PA 15090 Date of Report: August 28, 2019  
Customer Phone: (724) 934-4249 Fax: (724) 934-5677  
PO Number: Attention: Amber Brancolini  
Project Name/Number: Summit Elementary School

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88485-19

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75				75				75			
Sample Number	STE-16-23				STE-17-24				STE-14-25			
Location:	Room 16				Room 17				Room 14			
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria												
Ascospores	1	13	13	4%	1	13	13	1%				
Aspergillus/Penicillium-like	10	13	130	37%	155	13	2,015	80%				
Basidiospores	16	13	208	59%	9	13	117	5%	7	13	91	100%
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium					28	13	364	15%				
Curvularia												
Epicoccum												
Helicomyces												
Nigrospora												
Oidium												
Pithomyces/Ulocladium												
Polythrincium												
Rusts												
Smuts/ Myxomycetes												
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	27		351		193		2,509		7		91	
Pollen	0	13	< 13		0	13	< 13		0	13	< 13	
Hyphal Fragments												
Insect Fragments												
Plant Fragments												
Skin Cell Fragments			1				1				1	
Debris			2				2				2	
Analyst Initials	LS				LS				LS			
Date Analyzed	08/28/19				08/28/19				08/28/19			
Cassette Serial # / Exp Date:	2937588 03/2020				2937599 03/2020				2936928 03/2020			

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.

AS=Analytical Sensitivity (spores/m<sup>3</sup>); Blank Lines = None Detected

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Technical Manager:

*Sharon Fanchalsky*  
Sharon Fanchalsky, AS, MLT (ASCP)



U.S. Micro-Solutions, Inc. \* 302 Unity Plaza \* Latrobe, PA 15650  
Phone: (724) 853-4047 Fax: (724) 853-4049 AIHA-LAP, LLC EMLAP # 103009  
[www.usmslab.com](http://www.usmslab.com)



Customer Name: AGX Inc. Sample Date: August 27, 2019  
Customer Address: 207 Pine Creek Road Date Received: August 28, 2019  
Wexford, PA 15090 Date of Report: August 28, 2019  
Customer Phone: (724) 934-4249 Fax: (724) 934-5677  
PO Number: Attention: Amber Brancolini  
Project Name/Number: Summit Elementary School

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88485-19

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75				75				75			
Sample Number	STE-15-26				STE-12-27				STE-13-28			
Location:	Room 15				Room 12				Room 13			
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria												
Ascospores					9	13	117	16%	2	13	26	2%
Aspergillus/Penicillium-like	173	13	2,249	79%	10	13	130	18%	40	13	520	38%
Basidiospores	43	13	559	20%	36	13	468	64%	57	13	741	54%
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium	3	13	39	1%					7	13	91	7%
Curvularia												
Epicoccum												
Helicomyces												
Nigrospora												
Oidium												
Pithomyces/Ulocladium												
Polythrincium												
Rusts					1	13	13	2%				
Smuts/ Myxomycetes	1	13	13	0%								
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	220		2,860		56		728		106		1,378	
Pollen	0	13	< 13		0	13	< 13		0	13	< 13	
Hyphal Fragments												
Insect Fragments												
Plant Fragments												
Skin Cell Fragments			1				1				1	
Debris			1				1				1	
Analyst Initials			HC				HC				HC	
Date Analyzed			08/28/19				08/28/19				08/28/19	
Cassette Serial # / Exp Date:			2937587 03/2020				2936943 03/2020				2796559 09/2019	

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.

AS=Analytical Sensitivity (spores/m<sup>3</sup>); Blank Lines = None Detected

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Technical Manager:

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Customer Name: AGX Inc. Sample Date: August 27, 2019  
Customer Address: 207 Pine Creek Road Date Received: August 28, 2019  
Wexford, PA 15090 Date of Report: August 28, 2019  
Customer Phone: (724) 934-4249 Fax: (724) 934-5677  
PO Number: Attention: Amber Brancolini  
Project Name/Number: Summit Elementary School

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88485-19

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75				75				75			
Sample Number	STE-GD-29				STE-11-30				STE-10-31			
Location:	Guidance Office				Room 11				Room 10			
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria												
Ascospores									1	13	13	1%
Aspergillus/Penicillium-like	132	13	1,716	98%	6	13	78	38%	152	13	1,976	94%
Basidiospores	3	13	39	2%	10	13	130	63%	6	13	78	4%
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium									3	13	39	2%
Curvularia												
Epicoccum												
Helicomyces												
Nigrospora												
Oidium												
Pithomyces/Ulocladium												
Polythrincium												
Rusts												
Smuts/ Myxomycetes												
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	135		1,755		16		208		162		2,106	
Pollen	0	13	< 13		0	13	< 13		0	13	< 13	
Hyphal Fragments												
Insect Fragments												
Plant Fragments												
Skin Cell Fragments			1				1				1	
Debris			2				2				2	
Analyst Initials	LS				LS				LS			
Date Analyzed	08/28/19				08/28/19				08/28/19			
Cassette Serial # / Exp Date:	2937577 03/2020				2937596 03/2020				2937585 03/2020			

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.

AS=Analytical Sensitivity (spores/m<sup>3</sup>); Blank Lines = None Detected

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Technical Manager:

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[www.usmslab.com](http://www.usmslab.com)



Customer Name: AGX Inc. Sample Date: August 27, 2019  
Customer Address: 207 Pine Creek Road Date Received: August 28, 2019  
Wexford, PA 15090 Date of Report: August 28, 2019  
Customer Phone: (724) 934-4249 Fax: (724) 934-5677  
PO Number: Attention: Amber Brancolini  
Project Name/Number: Summit Elementary School

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88485-19

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75				75				75			
Sample Number	STE-CR-32				STE-Lib-33				STE-Nur-34			
Location:	Computer Lab				Library				Nurse's Office			
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria												
Ascospores												
Aspergillus/Penicillium-like	8	13	104	57%	13	13	169	54%	35	13	455	81%
Basidiospores	4	13	52	29%	5	13	65	21%	6	13	78	14%
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium					2	13	26	8%	2	13	26	5%
Curvularia	1	13	13	7%								
Epicoccum												
Helicomyces												
Nigrospora												
Oidium												
Pithomyces/Ulocladium	1	13	13	7%	1	13	13	4%				
Polythrincium												
Rusts												
Smuts/ Myxomycetes					3	13	39	13%				
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	14		182		24		312		43		559	
Pollen	0	13	< 13		0	13	< 13		0	13	< 13	
Hyphal Fragments					1	13	13					
Insect Fragments												
Plant Fragments												
Skin Cell Fragments			1				1				1	
Debris			1				2				1	
Analyst Initials			HC				HC				HC	
Date Analyzed			08/28/19				08/28/19				08/28/19	
Cassette Serial # / Exp Date:			2937564 03/2020				2937595 03/2020				2937590 03/2020	

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.

AS=Analytical Sensitivity (spores/m<sup>3</sup>); Blank Lines = None Detected

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Technical Manager:

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U.S. Micro-Solutions, Inc. \* 302 Unity Plaza \* Latrobe, PA 15650  
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[www.usmslab.com](http://www.usmslab.com)



Customer Name: AGX Inc. Sample Date: August 27, 2019  
Customer Address: 207 Pine Creek Road Date Received: August 28, 2019  
Wexford, PA 15090 Date of Report: August 28, 2019  
Customer Phone: (724) 934-4249 Fax: (724) 934-5677  
PO Number: Attention: Amber Brancolini  
Project Name/Number: Summit Elementary School

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88485-19

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75				75							
Sample Number	STE-Con-35				STE-Out-36							
Location:	Conference Room				Outside							
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria					1	13	13	0%				
Ascospores	1	13	13	0%	100	13	1,300	7%				
Aspergillus/Penicillium-like	128	133	17,024	99%	2	13	26	0%				
Basidiospores	6	13	78	0%	131	133	17,423	92%				
Bipolaris/Drechslera												
Cercospora					1	13	13	0%				
Chaetomium												
Cladosporium	1	13	13	0%	9	13	117	1%				
Curvularia												
Epicoccum	1	13	13	0%								
Helicomyces					1	13	13	0%				
Nigrospora												
Oidium												
Pithomyces/Ulocladium												
Polythrincium												
Rusts												
Smuts/ Myxomycetes	1	13	13	0%								
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	138		17,154		245		18,905					
Pollen	1	13	13		14	13	182					
Hyphal Fragments												
Insect Fragments												
Plant Fragments												
Skin Cell Fragments			1				1					
Debris			2				1					
Analyst Initials	LS				LS							
Date Analyzed	08/28/19				08/28/19							
Cassette Serial # / Exp Date:	2937578 03/2020				2937584 03/2020							

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.

AS=Analytical Sensitivity (spore/m<sup>3</sup>); Blank Lines = None Detected

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Technical Manager:

*Sharon Fanchalsky*  
Sharon Fanchalsky, AS, MLT (ASCP)



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[www.usmslab.com](http://www.usmslab.com)



Customer Name: AGX, Inc. Sample Date: August 30, 2019  
Customer Address: 207 Pine Creek Road Date Received: August 30, 2019  
Wexford, PA 15090 Date of Report: August 30, 2019  
Customer Phone: (724) 934-4249 Fax: (724) 934-5677  
PO Number: Attention: Amber Brancolini  
Project Name/Number: Summit Elementary School

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88605-19

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75				75				75			
Sample Number	STE-2-37				STE-3-38				STE-4-39			
Location:	Room 2				Room 3				Room 4			
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria												
Ascospores	2	13	26	3%	2	13	26	1%	3	13	39	1%
Aspergillus/Penicillium-like	20	13	260	26%	170	13	2,210	78%	130	13	1,690	53%
Basidiospores	37	13	481	49%	21	13	273	10%	72	13	936	29%
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium	17	13	221	22%	16	13	208	7%	39	13	507	16%
Curvularia												
Epicoccum									1	13	13	0%
Helicomyces												
Nigrospora												
Oidium												
Pithomyces/Ulocladium					1	13	13	0%	1	13	13	0%
Polythrincium												
Rusts					2	13	26	1%				
Smuts/ Myxomycetes					6	13	78	3%				
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia					1	13	13	0%				
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	76		988		219		2,847		246		3,198	
Pollen	0	13	< 13		0	13	< 13		0	13	< 13	
Hyphal Fragments	1	13	13		5	13	65		1	13	13	
Insect Fragments												
Plant Fragments												
Skin Cell Fragments			1				1				1	
Debris			2				2				2	
Analyst Initials			HC				HC				HC	
Date Analyzed			08/30/19				08/30/19				08/30/19	
Cassette Serial # / Exp Date:			2937580 03/2020				2937560 03/2020				2937582 03/2020	

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.

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Technical Manager:

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Customer Name: AGX, Inc. Sample Date: August 30, 2019  
Customer Address: 207 Pine Creek Road Date Received: August 30, 2019  
Wexford, PA 15090 Date of Report: August 30, 2019  
Customer Phone: (724) 934-4249 Fax: (724) 934-5677  
PO Number: Attention: Amber Brancolini  
Project Name/Number: Summit Elementary School

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88605-19

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75				75				75			
Sample Number	STE-8-40				STE-Con-41				STE-GO-42			
Location:	Room 8				Conference Room				Guidance Office			
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria												
Ascospores					2	13	26	1%				
Aspergillus/Penicillium-like	1	13	13	25%	224	13	2,912	97%	84	13	1,092	72%
Basidiospores	3	13	39	75%	3	13	39	1%	6	13	78	5%
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium					3	13	39	1%	26	13	338	22%
Curvularia												
Epicoccum												
Helicomyces												
Nigrospora												
Oidium												
Pithomyces/Ulocladium									1	13	13	1%
Polythrincium												
Rusts												
Smuts/ Myxomycetes												
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	4		52		232		3,016		117		1,521	
Pollen	0	13	< 13		0	13	< 13		0	13	< 13	
Hyphal Fragments					1	13	13					
Insect Fragments												
Plant Fragments												
Penicillium fruiting structures					1	13	13					
Skin Cell Fragments			1				1				1	
Debris			2				2				2	
Analyst Initials	LS				LS				LS			
Date Analyzed	08/30/19				08/30/19				08/30/19			
Cassette Serial # / Exp Date:	2796561 09/2019				2937583 03/2020				2937572 03/2020			

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.

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Technical Manager:

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Customer Name: AGX, Inc. Sample Date: August 30, 2019  
Customer Address: 207 Pine Creek Road Date Received: August 30, 2019  
Wexford, PA 15090 Date of Report: August 30, 2019  
Customer Phone: (724) 934-4249 Fax: (724) 934-5677  
PO Number: Attention: Amber Brancolini  
Project Name/Number: Summit Elementary School

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88605-19

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75				75				75			
Sample Number	STE-15-43				STE-10-44				STE-17-45			
Location:	Room 15				Room 10				Room 17			
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria									1	13	13	0%
Ascospores	1	13	13	2%					1	13	13	0%
Aspergillus/Penicillium-like	15	13	195	25%	100	133	13,300	96%	146	13	1,898	52%
Basidiospores	27	13	351	45%	14	13	182	1%	44	13	572	16%
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium	15	13	195	25%	27	13	351	3%	84	13	1,092	30%
Curvularia					1	13	13	0%				
Epicoccum									2	13	26	1%
Helicomyces												
Nigrospora	1	13	13	2%								
Oidium												
Pithomyces/Ulocladium	1	13	13	2%	2	13	26	0%	2	13	26	1%
Polythrincium												
Rusts												
Smuts/ Myxomycetes									3	13	39	1%
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	60		780		144		13,872		283		3,679	
Pollen	0	13	< 13		0	13	< 13		0	13	< 13	
Hyphal Fragments					2	13	26		8	13	104	
Insect Fragments												
Plant Fragments												
Skin Cell Fragments			1				1				1	
Debris			1				2				2	
Analyst Initials			HC				HC				HC	
Date Analyzed			08/30/19				08/30/19				08/30/19	
Cassette Serial # / Exp Date:			2937565 03/2020				2937589 03/2020				2937575 03/2020	

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.

AS=Analytical Sensitivity (spores/m<sup>3</sup>); Blank Lines = None Detected

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Technical Manager:

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[www.usmslab.com](http://www.usmslab.com)



Customer Name: AGX, Inc. Sample Date: August 30, 2019  
Customer Address: 207 Pine Creek Road Date Received: August 30, 2019  
Wexford, PA 15090 Date of Report: August 30, 2019  
Customer Phone: (724) 934-4249 Fax: (724) 934-5677  
PO Number: Attention: Amber Brancolini  
Project Name/Number: Summit Elementary School

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88605-19

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75											
Sample Number	STE-Out-46											
Location:	Outside											
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria	4	13	52	0%								
Ascospores	22	13	286	1%								
Aspergillus/Penicillium-like												
Basidiospores	115	178	20,470	91%								
Bipolaris/Drechslera	1	13	13	0%								
Cercospora	2	13	26	0%								
Chaetomium												
Cladosporium	100	13	1,300	6%								
Curvularia	4	13	52	0%								
Epicoccum												
Helicomyces												
Nigrospora												
Oidium												
Pithomyces/Ulocladium	4	13	52	0%								
Polythrincium												
Rusts	6	13	78	0%								
Smuts/ Myxomycetes	12	13	156	1%								
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	270		22,485									
Pollen	16	13	208									
Hyphal Fragments	2	13	26									
Insect Fragments	2	13	26									
Plant Fragments												
Skin Cell Fragments			1									
Debris			1									
Analyst Initials			LS									
Date Analyzed			08/30/19									
Cassette Serial # / Exp Date:			2937598 03/2020									

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.

AS=Analytical Sensitivity (spore/m<sup>3</sup>); Blank Lines = None Detected

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Technical Manager:

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Customer Name: AGX, Inc. Sample Date: August 31, 2019  
Customer Address: 207 Pine Creek Road Date Received: August 31, 2019  
Wexford, PA 15090 Date of Report: August 31, 2019  
Customer Phone: (724) 934-4249 Fax: (724) 934-5677  
PO Number: Attention: Scott May  
Project Name/Number: Summit Elementary (Butler School District)

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88647-19

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75				75				75			
Sample Number	2936905				2936925				2936910			
Location:	Room 10				Guidance Office				Room 17			
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria												
Ascospores	1	13	13	7%					4	13	52	8%
Aspergillus/Penicillium-like	7	13	91	47%					2	13	26	4%
Basidiospores	7	13	91	47%	2	13	26	100%	43	13	559	86%
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium									1	13	13	2%
Curvularia												
Epicoccum												
Helicomyces												
Nigrospora												
Oidium												
Pithomyces/Ulocladium												
Polythrincium												
Rusts												
Smuts/ Myxomycetes												
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	15		195		2		26		50		650	
Pollen	0	13	< 13		0	13	< 13		0	13	< 13	
Hyphal Fragments												
Insect Fragments												
Plant Fragments												
Skin Cell Fragments			1				1				1	
Debris			2				2				1	
Analyst Initials			LS				LS				LS	
Date Analyzed			08/31/19				08/31/19				08/31/19	
Cassette Serial # / Exp Date:			2936905 03/2020				2936925 03/2020				2936910 03/2020	

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.

AS=Analytical Sensitivity (spore/m<sup>3</sup>); Blank Lines = None Detected

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Technical Manager:   
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**Customer Name:** AGX, Inc. **Sample Date:** August 31, 2019  
**Customer Address:** 207 Pine Creek Road **Date Received:** August 31, 2019  
Wexford, PA 15090 **Date of Report:** August 31, 2019  
**Customer Phone:** (724) 934-4249 **Fax:** (724) 934-5677  
**PO Number:** **Attention:** Scott May  
**Project Name/Number:** Summit Elementary (Butler School District)

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88647-19

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75				75				75			
Sample Number	2936906				2936926				2936901			
Location:	Conference Room				Room 4				Room 3			
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria												
Ascospores	1	13	13	0%								
Aspergillus/Penicillium-like	250	13	3,250	94%	37	13	481	96%	48	13	624	92%
Basidiospores	13	13	169	5%	2	13	26	5%	3	13	39	6%
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium	1	13	13	0%								
Curvularia												
Epicoccum												
Helicomyces												
Nigrospora												
Oidium												
Pithomyces/Ulocladium												
Polythrincium												
Rusts												
Smuts/ Myxomycetes									1	13	13	2%
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	265		3,445		39		507		52		676	
Pollen	0	13	< 13		0	13	< 13		0	13	< 13	
Hyphal Fragments												
Insect Fragments												
Plant Fragments												
Skin Cell Fragments			1				1				1	
Debris			2				2				2	
Analyst Initials	LS				LS				LS			
Date Analyzed	08/31/19				08/31/19				08/31/19			
Cassette Serial # / Exp Date:	2936906 03/2020				2936926 03/2020				2936901 03/2020			

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.

AS=Analytical Sensitivity (spores/m<sup>3</sup>); Blank Lines = None Detected

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Technical Manager:

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**Customer Name:** AGX, Inc.  
**Customer Address:** 207 Pine Creek Road  
Wexford, PA 15090  
**Sample Date:** August 31, 2019  
**Date Received:** August 31, 2019  
**Date of Report:** August 31, 2019  
**Customer Phone:** (724) 934-4249  
**Fax:** (724) 934-5677  
**PO Number:**  
**Attention:** Scott May  
**Project Name/Number:** Summit Elementary (Butler School District)

Customer sample numbers below are uniquely identified by prefixing Laboratory # 88647-19

Airborne Spore Trap Analysis - AllergencoD											
Analytical Method: USMS-M008											
Total Volume (L)	75										
Sample Number	2936911										
Location:	Exterior of Structure										
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>
Alternaria	4	13	52	0%							
Ascospores	46	13	598	2%							
Aspergillus/Penicillium-like											
Basidiospores	100	267	26,700	95%							
Bipolaris/Drechslera											
Cercospora											
Chaetomium											
Cladosporium	51	13	663	2%							
Curvularia											
Epicoccum											
Helicomyces											
Nigrospora											
Oidium											
Pithomyces/Ulocladium											
Polythrincium											
Rusts											
Smuts/ Myxomycetes											
Stachybotrys											
Torula											
Trichoderma											
Unidentified dematiaceous conidia											
Unidentified hyaline conidia											
Total Mold (Spores/m <sup>3</sup> of air)	201		28,013								
Pollen	3	13	39								
Hyphal Fragments											
Insect Fragments											
Plant Fragments											
Skin Cell Fragments			1								
Debris			1								
Analyst Initials			LS								
Date Analyzed			08/31/19								
Cassette Serial # / Exp Date:			2936911 03/2020								

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.  
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Technical Manager:

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Customer Name: AGX, Inc. Sample Date: September 5, 2019  
Customer Address: 207 Pine Creek Road Date Received: September 5, 2019  
Wexford, PA 15090 Date of Report: September 6, 2019  
Customer Phone: (724) 934-4249 Fax:  
PO Number: Attention: Amber Brancolini  
Project Name/Number: Summit Township Elementary

Customer sample numbers below are uniquely identified by prefixing Laboratory # 98774-19

Airborne Spore Trap Analysis - AllergencoD												
Analytical Method: USMS-M008												
Total Volume (L)	75				75							
Sample Number	STE-CON-54				STE-OUT-55							
Location:	Conference Room				Outside							
Particle ID	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria												
Ascospores	2	13	26	5%	183	13	2,379	8%				
Aspergillus/Penicillium-like	14	13	182	35%								
Basidiospores	20	13	260	50%	108	267	28,836	91%				
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium	4	13	52	10%	27	13	351	1%				
Curvularia												
Epicoccum												
Helicomyces												
Nigrospora												
Oidium												
Pithomyces/Ulocladium												
Polythrincium												
Rusts												
Smuts/ Myxomycetes					3	13	39	0%				
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m <sup>3</sup> of air)	40		520		321		31,605					
Pollen	0	13	< 13		0	13	< 13					
Hyphal Fragments					2	13	26					
Insect Fragments												
Plant Fragments												
Skin Cell Fragments			0				1					
Debris			1				1					
Analyst Initials			HC				HC					
Date Analyzed			09/05/19				09/05/19					
Cassette Serial # / Exp Date:			2937552 03/2020				2937567 03/2020					

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.

AS=Analytical Sensitivity (spores/m<sup>3</sup>); Blank Lines = None Detected

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Technical Manager:

*Sharon Fanchalsky*  
Sharon Fanchalsky, AS, MLT (ASCP)