



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 ³ | % | Raw ct. | AS | Spores/m ³ | % | Raw ct. | AS | Spores/m ³ | % |
| 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 ³ 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/m³); 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



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 Wexford, PA 15090 Date of Report: August 28, 2019

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 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 ³ | % | Raw ct. | AS | Spores/m ³ | % | Raw ct. | AS | Spores/m ³ | % |
| 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% | 241 | 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 ³ 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 | |

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:

Sharon Fanchalsky

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 Wexford, PA 15090 Date of Report: August 28, 2019

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 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 ³ | % | Raw ct. | AS | Spores/m ³ | % | Raw ct. | AS | Spores/m ³ | % |
| 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 ³ 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 | |

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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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 ³ | % | Raw ct. | AS | Spores/m ³ | % | Raw ct. | AS | Spores/m ³ | % |
| 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 ³ 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 | |

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 Project Name/Number: Summit Elementary School

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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 ³ | % | Raw ct. | AS | Spores/m ³ | % | Raw ct. | AS | Spores/m ³ | % |
| 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 ³ 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 | |

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Project Name/Number: Summit Elementary School

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 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 ³ | % | Raw ct. | AS | Spores/m ³ | % | Raw ct. | AS | Spores/m ³ | % |
| 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 ³ 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 | |

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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



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 ³ | % | Raw ct. | AS | Spores/m ³ | % | Raw ct. | AS | Spores/m ³ | % |
| 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 ³ 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 (spore/m³); Blank Lines = None Detected

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 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 ³ | % | Raw ct. | AS | Spores/m ³ | % | Raw ct. | AS | Spores/m ³ | % |
| 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 ³ 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.

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

SPORE TRAP INTERPRETATION TIPS

Currently there are no numeric standards for indoor airborne or surface microbial contamination. Suggested guidelines are constantly being reviewed and updated as more information is collected.

Some common denominators should be considered when interpreting results:

1. Comparison of indoor/outdoor concentration ratios.
2. Complaint vs. non-complaint areas or affected vs. non-affected areas.
3. Consider air exchange rates and activity levels in a building structure, weather, and season of the year.
4. Rank order assessment and concentration (e.g. Spores/m³ of air) of the fungi.
5. Predominant fungal genera: Are there water indicator microorganisms present, such as but not limited to: *Chaetomium*, *Stachybotrys*, *Rhodotorula*, *Trichoderma*, and *Scopulariopsis*.
6. Generally the fungal counts indoors should be lower than outdoor counts and the types of fungi found indoors should be similar to outdoors.
7. There is always a potential bias from infiltration of outdoor air, poor housekeeping, excessive indoor relative humidity, or potential contamination sources (e.g. water intrusion through a basement wall) that may negatively influence post remedial verification (PRV) or clearance levels.
8. The investigator should look for various patterns among the indoor types of molds detected:
 - a. Increased levels of primary (1st) colonizers in damp or moisture intrusion areas of homes or commercial buildings: ***Aspergillus/Penicillium*** or ***Cladosporium*** are usually noted.
 - b. ***Chaetomium*** or ***Stachybotrys*** are tertiary (3rd) colonizers of indoor materials and are usually associated with chronic long standing water/moisture issues in a building.
 - c. The presence of **hyphal fragments** or **fruiting structures** noted on spore trap samples usually indicates amplification (growth) of fungi on building substrates.
 - d. **Ascospores** and **basidiospores** noted on indoors spore trap samples most often represent the entrance of inadequately filtered outdoor air. During inclement weather, remember to note time, temperature, and season. Most indoor materials will not support the growth of these fungi.
9. When unidentified hyaline (clear) or dematiaceous (dark-pigmented) conidia are noted on a spore trap sample, it indicates that no particular fungus can be identified. These fungal conidia may represent such yeast-like fungi as *Aureobasidium*, *Sporidiobolus*, unidentifiable *Acremonium* species, Basidiomycetes (basidiospores), and Ascomycetes (ascospores).
10. Keep in mind when interpreting spore trap sample reports, that indoor levels may be higher than corresponding outdoor levels (winter time in the Northern U.S.) with a predominance of *Aspergillus/Penicillium* or *Cladosporium* conidia with no significant amplification of any molds.

SPORE TRAP GUIDELINES FOR INDOOR MICROBIAL CONTAMINATION

| DEBRIS RATING for SPORE TRAP ANALYSIS (using 600X magnification) (Air-O-Cell, Micro 5, Allergenco D, Cyclex d, VersaTrap, etc.) | | |
|--|---|--|
| DEBRIS RATING | CONDITIONS FOR REPORTING DEBRIS RATING | SIGNIFICANCE |
| 0 | A visible trace, including particulates and debris, is not observed. | Indicates the sample was a blank, the area is exceptionally clean, or improper sampling occurred. |
| 1 | Debris is present and <10% of the average viewing field is obscured. | Minimal amount of debris is observed. |
| 2 | Debris is present and 10% to <40% of the average viewing field is obscured. | Low amount of debris is observed, counts may be affected. |
| 3* | Debris is present and 40% to 75% of the average viewing field is obscured. | Moderate amount of debris is observed, counts of conidia/hyphal fragments may be underestimated. |
| 4* | Debris is present and >75% of the average viewing field is obscured. | High amount of debris is observed, counts are estimated. |
| 5* See Relative Abundance chart below | Excessive debris is present | Periphery of trace analyzed. Relative amounts of conidia/hyphal fragments noted. Suggest recollection. |
| 6 | Slide completely obscured by excessive debris. | Unable to analyze. Recollect sample. |

* A rating of 3 or greater indicates that the accuracy of the analysis is likely affected.

| RELATIVE ABUNDANCE of OBSERVED CONIDIA & HYPHAL FRAGMENTS | |
|---|---|
| RATING | Relative Amounts of Observed Fungal Structures per high power field (600X) |
| Rare | 0-1 |
| Few | 2 to 5 |
| Moderate | 6 to 10 |
| Many | 11 to 100 |
| Numerous | >100 |

| SKIN CELL ANALYSIS | |
|--------------------|--|
| SKIN CELL RATING | Relative Amounts of Observed Skin Cells per high power field (600X) |
| 0 | No skin cells present |
| 1 | 0-1 |
| 2 | 2 to 5 |
| 3 | 6 to 10 |
| 4 | 11 to 15 |
| 5 | ≥16 |

End of Report



U.S. Micro-Solutions, Inc.

302 Unity Plaza
Latrobe, PA 15650
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supplies@usmslab.com



LABORATORY TEST REQUEST – CHAIN OF CUSTODY

| Customer Name: AGX Inc. | | Phone #: 724-934-4249 | | FAX #: 724-934-5677 | |
|--|--------------------|--|---------------|--|--|
| Address: 207 Pine Creek Road | | City: Wexford | | State: PA | Zip: 15090 |
| Attention To: Amber Brancolini | | E-Mail: abrancolini@agxinc.com | | | |
| Sample Obtained By: Amber Brancolini | | Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-Mail | | PO# | Proposal # |
| Project Name/Number: <u>Summit Elementary School</u> | | | | | |
| Turn-Around-Time: (Spore Trap & DME Only)* | | Standard (48-72 hr) <input type="checkbox"/> | | Next Day (24 hr, M-F) <input type="checkbox"/> | Same Day (6 hr, M-F) <input checked="" type="checkbox"/> |
| | | | | 3-Hour (M-F) <input type="checkbox"/> | Saturday <input type="checkbox"/> |
| Comments: | | | | | |
| Sample # | Sample Date / Time | Sample Code | Analysis Code | Sample Location & Description | Sample Volume/Area |
| STE-9-14 | 8-27-19 | ST | SPT | Room 9 | 75 L |
| STE-8-15 | | | | Room 8 | |
| STE-7-16 | | | | Room 7 | |
| STE-6-17 | | | | Room 6 | |
| STE-5-18 | | | | Room 5 | |
| STE-4-19 | | | | Room 4 | |
| STE-3-20 | | | | Room 3 | |
| STE-2-21 | | | | Room 2 | |
| STE-1-22 | ↓ | ↓ | ↓ | Room 1 | ↓ |
| Relinquished By (Customer MUST sign) <u>Amber Brancolini</u> | | | | Date & Time <u>8-27-19 / 4:30 pm</u> | |
| Received By – Lab Use Only <u>[Signature]</u> | | | | Date & Time <u>08/28/19 0830</u> | Lab # <u>88485-19</u> |

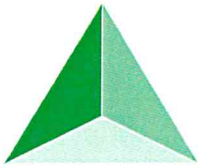
Rev. 12-14-17

| Sample Code | |
|-------------|------------|
| A | Air Plate |
| B | Bulk |
| ST | Spore Trap |
| S | Swab |
| W | Water |
| T | Tape |
| O | Other |

| Analysis Code | | | |
|---------------|---|-----|--|
| DME | Direct Microscopic Exam | HPC | Heterotrophic Plate Count |
| SPT | Spore Trap <u>AD</u> | MYC | Mycobacteria Culture |
| FUNG | Fungal Culture – Counts w/ ID of top 3 organisms | STA | Staphylococcus / MRSA Culture |
| BACT | Bacterial Culture – Counts w/ ID of top 3 organisms | DUO | Duodenoscope Culture |
| SSQT | Sewage Screen (quant) – Counts w/ Identification <i>E. coli, coliforms, enterococci (fecal streptococci)</i> | HCU | Heater/Cooler Water Culture <i>includes mycobacteria, HPC, coliforms, & P. aeruginosa</i> |
| SSQL | Sewage Screen (qualitative) – Identification of <i>E. coli, coliforms, enterococci (fecal streptococci)</i> | PSA | Pseudomonas aeruginosa Culture |
| COL | Colilert – Presence/absence of <i>E. coli, coliforms</i> | IDS | Species Identification by MALDI-TOF |

*All samples received after 1:00 p.m. Monday-Friday will be considered received the NEXT business day.

Same Day and Next Day samples received on Saturday will be reported on Monday and Tuesday, respectively.



U.S. Micro-Solutions, Inc.

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Latrobe, PA 15650
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LABORATORY TEST REQUEST – CHAIN OF CUSTODY Additional Samples

Customer Name: AGX

Project Name/Number: Summit Elementary

| Sample # | Sample Date / Time | Sample Code | Analysis Code | Sample Location & Description | Sample Volume/Area |
|------------|--------------------|-------------|---------------|-------------------------------|--------------------|
| STE-16-23 | 8-27-19 | ST | SPT | Room 16 | 75 L |
| STE-17-24 | | | | Room 17 | |
| STE-14-25 | | | | Room 14 | |
| STE-15-26 | | | | Room 15 | |
| STE-12-27 | | | | Room 12 | |
| STE-13-28 | | | | Room 13 | |
| STE-6D-29 | | | | Guidenance Office | |
| STE-11-30 | | | | Room 11 | |
| STE-10-31 | | | | Room 10 | |
| STE-CR-32 | | | | Computer Lab | |
| STE-Lib-33 | | | | Library | |
| STE-Nur-34 | | | | Nurse's Office | |
| STE-Con-35 | | | | Conference Room | |
| STE-OUT-36 | ↓ | ↓ | ↓ | Outside | ↓ |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |

Received By – Lab Use Only

Date & Time

Lab #

[Signature]

08/28/19 0830

88485-19