



Aladdin Environmental LLC

321 W. Josephine * San Antonio, TX 78212 * 210-736-1826x218 * Fax 210-732-3667
John Spalten – Texas Mold Assessment Consultant MAC0383

March 6, 2008

San Antonio Housing Authority
Attn: Mr. Neville Blair
818 South Flores St.
San Antonio, TX 78204

Re: Common Areas, Blanco Apts., 906 W. Huisache, San Antonio, TX

Dear Neville:

1.0. Aladdin Environmental conducted an environmental evaluation of the referenced property on March 4th, 2008. John Spalten, Mold Assessment Consultant, Texas License Number 0383 conducted the evaluation. The objective of this limited survey was to locate and collect samples of air, submit the samples for laboratory analysis and provide a written report of findings and recommendations. We have observed the standard of care generally exercised by the profession under similar circumstances and conditions to complete this report. Based on observations there is evidence to suggest mold proliferation in the various apartments. The following comments and recommendations are based on the laboratory results and visual inspection of the apartments. This coupled with the comparison of the outdoor sample with the indoor samples serve as a basis for evaluating the general environmental conditions. The indoor air quality evaluation observations and testing results detailed in this report are for a single sampling episode. Any changes in ambient conditions may have an effect on future conditions. Moisture control is the key to controlling the growth of mold.

2.0. Conclusions and Recommendations:

2.0.1. GENERAL. The outside air sample is taken for comparison (sample A-1) with the inside samples (A-2 through A-12). The HVAC units inspected each considerable debris build-up. There were several ceiling tiles that had water staining in the common areas. The utility rooms on each floor did not show any signs of water damage or microbial growth. Recommend repairing and cleaning or replacing the air conditioning units for the common areas. It should be noted that the species *Stachybotrys* was not found in either the indoor or outdoor sample at the time the sample was taken. The species *Stachybotrys* was not found in the surface samples taken in the three HVAC units.

2.0.2 Main Lobby, Sample A-2.

Lab results show numerous spore types including *Chaetomium*, but at low levels. There does not appear to be a source of microbial growth in this area. HVAC issues should be addressed along with a general cleaning of this area.

2.0.3. Office, Sample A-3.

Lab results show numerous spore types including *Aspergillus/Penicillium* but at relatively low levels. There does not appear to be a source of microbial growth in this area. HVAC issues should be addressed along with a general cleaning of this area.

2.0.4. Community Room – Right side (south), Sample A-4

Lab results of the air sample show similar counts of spores found outside. There does not appear to be a source of microbial growth in this area. HVAC issues should be addressed along with a general cleaning of this area.

2.0.5. Community Room – Left side (north), Sample A-5

Lab results of the air sample show similar counts of spores found outside. There does not appear to be a source of microbial growth in this area. HVAC issues should be addressed along with a general cleaning of this area.

2.0.6. HVAC unit – closet next to Maintenance office, Sample A-6, S-1

Lab results of the air sample show highly elevated counts of *Aspergillus/Penicillium* along with elevated counts of *Cladosporium*. This suggests the HVAC system may be a source for promoting the growth of this species. Further observation showed the air conditioning unit was pulling return air from a maintenance closet with various items stored in it. The surface sample of the HVAC unit showed various spore types at "Low to Rare" count. This unit was completely frozen (a block of ice) at the time of the inspection.

2.0.7. 2nd Floor Utility – Sample A-7

Lab results of the air sample show similar counts of spores found outside along with elevated counts of *Aspergillus/Penicillium* and a very low count of *Chaetomium*. There does not appear to be a source of microbial growth in this area. Recommend a general cleaning of this area. The dryer exhaust vent should be relocated to exhaust outside.

2.0.8. 3rd Floor Utility – Sample A-8

Lab results of the air sample show similar counts of spores found outside along with elevated counts of *Aspergillus/Penicillium* and a very low count of *Chaetomium*. There does not appear to be a source of microbial growth in this area. Recommend a general cleaning of this area. The dryer exhaust vent should be relocated to exhaust outside.

2.0.9. 4th Floor Utility – Sample A-9

Lab results of the air sample show similar counts of spores found outside along with the presence of *Aspergillus/Penicillium*. There does not appear to be a source of microbial growth in this area. Recommend a general cleaning of this area. The dryer exhaust vent should be relocated to exhaust outside.

2.0.10. HVAC unit – closet next to Office, Sample A-10, S-2

Lab results of the air sample show elevated counts of *Aspergillus/Penicillium*. This suggests the HVAC system may be a source for promoting the growth of this species. Further observation showed the air conditioning unit was pulling return air from a maintenance closet with various items stored in it. The surface sample of the HVAC unit showed numerous spore types at "Low to Rare" count.

2.0.11. Basement – Sample A-11

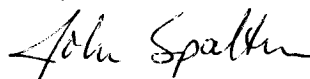
Lab results of the air sample show similar counts of spores found outside along with the presence of *Aspergillus/Penicillium*. There does not appear to be a source of microbial growth in this area. Recommend a general cleaning of this area.

2.0.12. HVAC unit – Basement, Sample A-12, S-3

Lab results of the air sample show very low levels of spores. The surface sample of the HVAC unit showed numerous spore types at "Low to Rare" count.

2.0.6. General information regarding the species *Aspergillus*. This species is a common type I & III allergen. They are frequently isolated from forest products, soils, grains, nuts, cotton, organic debris and water damaged building materials. Spores can also be found in moist ventilation systems and house dust. *Penicillium* sp. – (Aw 0.78). A wide number of organisms belong to this genus. Identification to species is difficult. Often found in aerosol samples. Commonly found in soil, food, cellulose, paint, grains and compost piles. It is commonly found in carpet, wallpaper and in interior fiberglass duct insulation. Although this fungus is less allergy-provoking than the other molds, *Penicillium* is reported to be allergenic (skin) and it may cause hypersensitivity pneumonitis and allergic alveolitis in susceptible individuals.

Sincerely,



John Spalten
MAC0383
Enc: Lab Report



EMSL Analytical, Inc.

2501 Central Parkway, Suite C-17 Houston, TX 77092

Phone: (713) 686-3635

Fax: (713) 686-3645

Email: info@emsl.com

Attn: John Spalten
Aladdin Environmental LLC
321 W. Josephine
San Antonio, TX 78212

EMSL Order: 150801286
Customer ID: ALLA22
Received: 3/5/08
Analyzed: 3/5/08
Report Date: 3/6/08

Proj: SAHA-Common

Air-O-Cell™ Cassette Analysis of Fungal Spores & Other Airborne Particulates by Optical Microscopy (EMSL Method M001)

| Lab Sample Number: | 150801286-0001 | 150801286-0002 | 150801286-0003 | 150801286-0004 | 150801286-0005 |
|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Client Sample ID: | A1 | A2 | A3 | A4 | A5 |
| Volume (L): | 75 | 75 | 75 | 75 | 75 |
| Sample Location: | Outside | Main Lobby | Office | Community Rm-Rt. | Community Rm-Lt. |
| Spore Types | Count/m ³ | Count/m ³ | Count/m ³ | Count/m ³ | Count/m ³ |
| Agrocybe/Coprinus | - | - | - | - | - |
| Alternaria | - | - | - | - | - |
| Ascospores | 13* | 42 | - | - | - |
| Aspergillus/Penicillium | - | 42 | 168 | - | - |
| Basidiospores | - | - | 84 | - | - |
| Bipolaris | - | - | - | - | - |
| Chaetomium | - | 13* | - | - | - |
| Cladosporium | 294 | 84 | 42 | 252 | 210 |
| Curvularia | - | 13* | - | - | - |
| Epicoccum | - | 13* | - | - | - |
| Fusarium | - | - | - | - | - |
| Ganoderma | - | - | - | - | - |
| Myxomycete | 42 | 13* | 126 | - | 42 |
| Paecilomyces | - | - | - | - | - |
| Rust | - | - | - | - | - |
| Scopulariopsis | - | - | - | - | - |
| Stachybotrys | - | - | - | - | - |
| Torula | - | 13* | 42 | - | 13* |
| Ulocladium | - | - | - | - | - |
| Unidentifiable Spores | 42 | - | 42 | 84 | - |
| Zygomycetes | - | - | - | - | - |
| Nigrospora | - | 26* | - | 42 | - |
| Pithomyces | 26* | - | - | - | - |
| Total Fungi | 417 | 259 | 504 | 378 | 265 |
| Fibrous Particulate | - | 210 | 126 | 84 | - |
| Hyphal Fragment | - | 84 | 126 | 168 | 84 |
| Insect Fragment | - | - | - | 42 | 13* |
| Pollen | - | 26* | 13* | - | - |
| Analyt. Sensitivity 600x | 42 | 42 | 42 | 42 | 42 |
| Analyt. Sensitivity 300x | 13* | 13* | 13* | 13* | 13* |
| Skin Fragments (1-4) | 1 | 1 | 2 | 1 | 1 |
| Background (1-5) | 1 | 3 | 2 | 2 | 1 |

No discernable field blank was submitted with this group of samples.
AIHA EMLAP Accreditation #102575

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "" Denotes particles found at 300X. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. Results have not been adjusted for field or laboratory blank unless otherwise noted. Samples received in good condition unless otherwise noted.

spv2.7.7.8

For Information on the fungi listed in this report please visit the Resouces section at www.emsl.com

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Proj: SAHA-Common

Air-O-Cell™ Cassette Analysis of Fungal Spores & Other Airborne Particulates by Optical Microscopy (EMSL Method M001)

| Lab Sample Number: | 150801286-0006 | 150801286-0007 | 150801286-0008 | 150801286-0009 | 150801286-0010 |
|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Client Sample ID: | A6 | A7 | A8 | A9 | A10 |
| Volume (L): | 75 | 75 | 75 | 75 | 75 |
| Sample Location: | A/C unit@ Maint. | 2nd-Utility | 3rd-Utility | 4th-Utility | A/C Unit-Ofc |
| Spore Types | Count/m ³ | Count/m ³ | Count/m ³ | Count/m ³ | Count/m ³ |
| Agrocybe/Coprinus | 13* | - | - | - | - |
| Alternaria | 168 | 13* | - | - | - |
| Ascospores | - | - | - | - | - |
| Aspergillus/Penicillium | >164000 | 630 | 1600 | 42 | 714 |
| Basidiospores | - | - | 42 | 42 | - |
| Bipolaris | - | - | - | - | - |
| Chaetomium | - | 13* | 42 | - | - |
| Cladosporium | 3860 | 756 | 84 | 42 | 588 |
| Curvularia | 26* | 13* | - | - | - |
| Epicoccum | - | - | - | - | - |
| Fusarium | - | - | - | - | - |
| Ganoderma | - | - | - | - | - |
| Myxomycete | 84 | - | - | 104* | 42 |
| Paecilomyces | - | - | - | - | - |
| Rust | - | - | - | - | - |
| Scopulariopsis | - | - | - | - | - |
| Stachybotrys | - | - | - | - | - |
| Torula | - | - | - | - | - |
| Ulocladium | - | - | - | - | - |
| Unidentifiable Spores | - | 13* | 210 | 168 | - |
| Zygomycetes | - | - | - | - | - |
| Nigrospora | - | - | - | - | 42 |
| Pithomyces | - | - | - | - | - |
| Total Fungi | >168000 | 1440 | 1980 | 398 | 1390 |
| Fibrous Particulate | 1970 | 1050 | 294 | 1720 | 798 |
| Hyphal Fragment | 756 | 210 | 336 | 210 | 546 |
| Insect Fragment | 42 | - | - | - | - |
| Pollen | 84 | 42 | - | 42 | - |
| Analyt. Sensitivity 600x | 42 | 42 | 42 | 42 | 42 |
| Analyt. Sensitivity 300x | 13* | 13* | 13* | 13* | 13* |
| Skin Fragments (1-4) | 1 | 2 | 2 | 2 | 1 |
| Background (1-5) | 4 | 3 | 2 | 3 | 1 |

No discernable field blank was submitted with this group of samples.
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spv2.7.7.8

For Information on the fungi listed in this report please visit the Resources section at www.emsl.com

JS



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Attn: John Spalten
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321 W. Josephine
San Antonio, TX 78212

EMSL Order: 150801286
Customer ID: ALLA22
Received: 3/5/08
Analyzed: 3/5/08
Report Date: 3/6/08

Proj: SAHA-Common

Air-O-Cell™ Cassette Analysis of Fungal Spores & Other Airborne Particulates by Optical Microscopy (EMSL Method M001)

| Lab Sample Number: | 150801286-0011 | 150801286-0012 | | | |
|--------------------------|----------------------|----------------------|--|--|--|
| Client Sample ID: | A11 | A12 | | | |
| Volume (L): | 75 | 75 | | | |
| Sample Location: | Basement | A/C unit-Basement | | | |
| Spore Types | Count/m ³ | Count/m ³ | | | |
| Agrocybe/Coprinus | - | - | | | |
| Alternaria | - | - | | | |
| Ascospores | 42 | - | | | |
| Aspergillus/Penicillium | 210 | 13 | | | |
| Basidiospores | 126 | - | | | |
| Bipolaris | - | - | | | |
| Chaetomium | - | - | | | |
| Cladosporium | 252 | 26 | | | |
| Curvularia | 42 | - | | | |
| Epicoccum | - | - | | | |
| Fusarium | - | - | | | |
| Ganoderma | - | - | | | |
| Myxomycete | - | - | | | |
| Paecilomyces | - | - | | | |
| Rust | - | - | | | |
| Scopulariopsis | - | - | | | |
| Stachybotrys | - | - | | | |
| Torula | - | 13 | | | |
| Ulocladium | - | - | | | |
| Unidentifiable Spores | 42 | - | | | |
| Zygomycetes | - | - | | | |
| Nigrospora | 42 | - | | | |
| Pithomyces | 42 | 13 | | | |
| Total Fungi | 798 | 65 | | | |
| Fibrous Particulate | 462 | 156 | | | |
| Hyphal Fragment | 378 | 78 | | | |
| Insect Fragment | 84 | 39 | | | |
| Pollen | - | 13 | | | |
| Analyt. Sensitivity 600x | 42 | 13 | | | |
| Analyt. Sensitivity 300x | 13* | 13* | | | |
| Skin Fragments (1-4) | 1 | 1 | | | |
| Background (1-5) | 4 | 1 | | | |

No discernable field blank was submitted with this group of samples.
AIHA EMLAP Accreditation #102575

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "" Denotes particles found at 300X. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. Results have not been adjusted for field or laboratory blank unless otherwise noted. Samples received in good condition unless otherwise noted.

spv2.7.7.8

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JES



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Phone: (713) 686-3635

Fax: (713) 686-3645

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Attn: John Spalten
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San Antonio, TX 78212

EMSL Order: 150801286
Customer ID: ALLA22
Received: 3/5/08
Analyzed: 3/5/08
Report Date: 3/6/08

Proj: SAHA-Common

Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, and Other Particulates from Swab Samples (EMSL Method: M041)

| Lab Sample Number: | 150801286-0013 | 150801286-0014 | 150801286-0015 | | |
|-------------------------|------------------|----------------|---------------------|--|--|
| Client Sample ID: | S1 | S2 | S3 | | |
| Sample Location: | A/C Unit @ Maint | A/C Unit @ Ofc | A/C Unit @ Basement | | |
| Spore Types | Category | Category | Category | | |
| Agroclybe/Coprinus | - | - | - | | |
| Alternaria | - | Low | Rare | | |
| Ascospores | Rare | - | Rare | | |
| Aspergillus/Penicillium | - | - | - | | |
| Basidiospores | - | Rare | Rare | | |
| Bipolaris | - | Rare | Rare | | |
| Chaetomium | - | - | Rare | | |
| Cladosporium | - | Rare | - | | |
| Curvularia | - | Rare | - | | |
| Epicoccum | - | Rare | Rare | | |
| Fusarium | - | - | - | | |
| Ganoderma | - | - | - | | |
| Myxomycete | Low | Rare | Rare | | |
| Paecilomyces | - | - | - | | |
| Rust | - | - | - | | |
| Scopulariopsis | - | - | - | | |
| Stachybotrys | - | - | - | | |
| Torula | - | - | - | | |
| Ulocladium | - | - | - | | |
| Unidentifiable Spores | Low | - | Rare | | |
| Zygomycetes | - | - | - | | |
| Nigrospora | Rare | Low | Low | | |
| Pithomyces | Rare | - | Low | | |
| Fibrous Particulate | - | Rare | Rare | | |
| Hyphal Fragment | Low | Low | Rare | | |
| Insect Fragment | Rare | Rare | Rare | | |
| Pollen | Rare | Rare | Rare | | |

Category: Count/per area analyzed Rare: 1 to 10 Low: 11 to 100 Medium: 101 to 1000 High: >1000

No discernable field blank was submitted with this group of samples.

* Sample contains fruiting structures and/or hyphae associated

AIHA EMLAP Accreditation #102575

Samples were received in good condition unless otherwise noted on this report. EMSL Analytical maintains liability limited to cost of analysis. Interpretation of the data contained in this report is the responsibility of the client. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL Analytical. EMSL Analytical bears no responsibility for the sample collection activities or analytical method limitations.

Dir-Ver1.7.7.15

For information on the fungi listed in this report please visit the Resources section at www.emsl.com

Chain of Custody

Environmental Microbiology Lab Services

EMSL Analytical, Inc.
Suite C-17
2501 Central Parkway
Houston, TX 77092
Phone: (713) 686-3635
Fax: (713) 686-3645
http: www.emsl.com

Please print all information legibly.

| | | | |
|---|---------------------------|-----------------------|---------------------------|
| Company: | Aladdin Environmental LLC | Bill To: | Aladdin Environmental LLC |
| Address 1: | 321 W. Josephine | Address 1: | 321 W. Josephine |
| Address 2: | | Address 2: | |
| City/State: | San Antonio, TX | City/State: | San Antonio, TX |
| Zip/Post Code: | 78212 | Zip/Post Code: | 78212 |
| Country: | | Country: | |
| Contact Name: | John Spalten | Att: | John Spalten |
| Phone: | 210-736-1826 | Phone: | 210-736-1826 |
| Fax: | 210-732-3667 | Fax: | 210-732-3667 |
| Email: | johns@aladdinclean.com | Email: | johns@aladdinclean.com |
| EMSL Rep: | | P.O. Number: | |
| Project Name/Number: SAHY-Common | | | |

Project Name SAHY-Common Date Collected 7/1/07 Date Sent 7/1/07

Other Information:

| |
|--|
| <i>For EMSL use only</i> |
| EMSL Order No. _____ |
| Samples received in good condition? [Y][N] _____ |
| Discernible field blank submitted? [Y][N] _____ |

| Sample ID | Sample Location | Sample Type | Volume (liters), Area (sq. cm), or Weight (grams) | Analysis Code* | Turn-around Time* | Comments |
|-----------|-----------------|-------------|---|----------------|-------------------|----------|
| 113 | SAHY-17 | Water | 1.0L | 113 | 1/1/07 | 11/1/07 |
| 114 | SAHY-18 | Water | 1.0L | 114 | 1/1/07 | 11/1/07 |
| 115 | SAHY-19 | Water | 1.0L | 115 | 1/1/07 | 11/1/07 |
| 116 | SAHY-20 | Water | 1.0L | 116 | 1/1/07 | 11/1/07 |
| 117 | SAHY-21 | Water | 1.0L | 117 | 1/1/07 | 11/1/07 |
| 118 | SAHY-22 | Water | 1.0L | 118 | 1/1/07 | 11/1/07 |
| 119 | SAHY-23 | Water | 1.0L | 119 | 1/1/07 | 11/1/07 |
| 120 | SAHY-24 | Water | 1.0L | 120 | 1/1/07 | 11/1/07 |
| 121 | SAHY-25 | Water | 1.0L | 121 | 1/1/07 | 11/1/07 |

*See attached schedule

Relinquished by: [Signature]
Received by: _____

Date: 7/1/07 Time: 11:00
Date: 7/1/07 Time: 11:00
Page: 1 of 1

JEP

Chain of Custody

Environmental Microbiology Lab Services

EMSL Analytical, Inc.
Suite C-17
2501 Central Parkway
Houston, TX 77092
Phone: (713) 686-3635
Fax: (713) 686-3645
http: www.emsl.com

Please print all information legibly.

| | | | |
|---|---------------------------|-----------------------|---------------------------|
| Company: | Aladdin Environmental LLC | Bill To: | Aladdin Environmental LLC |
| Address1: | 321 W. Josephine | Address1: | 321 W. Josephine |
| Address2: | | Address2: | |
| City/State: | San Antonio, TX | City/State: | San Antonio, TX |
| Zip/Post Code: | 78212 | Zip/Post Code: | 78212 |
| Country: | | Country: | |
| Contact Name: | John Spalten | Att: | John Spalten |
| Phone: | 210-736-1826 | Phone: | 210-736-1826 |
| Fax: | 210-732-3667 | Fax: | 210-732-3667 |
| Email: | johns@aladdinecans.com | Email: | johns@aladdinecans.com |
| EMSL Rep: | | P.O. Number: | |
| Project Name/Number: SAHA-Common | | | |

Project Name SAHA-Common Date Collected 3-7-08 Date Sent 3-9-08

Other Information:

| |
|---|
| <i>For EMSL use only</i> |
| EMSL Order No. _____ |
| Samplers received in good condition? [Y][N] |
| Discernible field blank submitted? [Y][N] |

| Sample ID | Sample Location | Sample Type | Volume (liters), Area (sq. cm), or Weight (grams) | Analysis Code* | Turn-around Time* | Comments |
|-----------|----------------------|-------------|---|----------------|-------------------|----------|
| A10 | A/C unit area | A/C | 75cc | A-C-1 | 24 hrs | |
| A11 | bitsament | | | | | 15/Dec |
| A12 | A/C unit bitsament | | | | | |
| S1 | A/C unit & drain | sw/Att | 1 sq. cm | A-C-12 | 24 hrs | |
| S2 | A/C unit & drain | | | | | |
| S3 | A/C unit & bitsament | | | | | |
| | | | | | | |
| | | | | | | |

*See attached schedule

Relinquished by: John Spalten
Received by: _____

Date: 3-7-08 Time: 10:30
Date: 3-9-08 Time: _____
Page: 2 of 2

JES