



# Aladdin Environmental LLC

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

---

May 23, 2008

San Antonio Housing Authority  
Mirasol Task Force  
818 S. Flores  
San Antonio, TX 78204

Re: SAHA, Mirasol Task Force, 462 Precious, San Antonio, TX

Dear SAHA:

Aladdin Environmental LLC is pleased to submit this report for the Post Remediation Assessment for the above house on May 20<sup>th</sup>, 2008. This report applies to the Master Bath, Bedroom, Closet & Hallway as detailed in the Mold Remediation Protocol dated May 12<sup>th</sup>, 2008. We have observed the standard of care generally exercised by the profession under similar circumstances and conditions to complete this report.

Remediation activities in the house have been successful, based on the visual and analytical evaluation. The water-damaged materials have been removed. In addition, based on observations and sample results, no visual signs or other evidence to suggest possible mold proliferation were observed during the inspection.

Mold spores are common in indoor environments. It is not the presence of molds in indoor air that is cause for concern. However, the amplification and dissemination of fungal spores in elevated levels can decrease indoor air quality and lead to adverse health effects.

Test results indicate the mold levels in the house are similar to or lower, or within normal variances, when compared to the sample taken outdoors, with a few exceptions. This house is scheduled to have additional work done and an assessment should follow after that work is complete. This report is based on the source or sources of elevated moisture levels at the site have been identified and eliminated. In addition, visual signs or other evidence to suggest possible mold growth were not observed during the inspection. The moisture issues have been corrected based on removal of the Master vanity & toilet. The plumbing fixtures should be installed by a licensed plumber to verify no leaks are present.

The evaluation on the areas tested along with lab results and photos are on the following pages. We reserve the right to amend or modify our stated opinions and conclusion if additional discovery material is provided or otherwise obtained.

We appreciate the opportunity to perform this service for you. Please contact me if you have any further questions.

Sincerely,

John Spalten  
MAC0383 exp. 3/2/10

## Evaluation

### Analytical Results:

When evaluating airborne mold analytical test results, it is important to consider ambient air conditions in the area. This is accomplished by collecting and analyzing an outdoor air sample. The air samples were taken on May 20<sup>th</sup>, 2008.

### Air Samples

A1 – Outside: Air sample taken outdoors for comparison.

A2 – Master Bedroom: Air samples collected from this area indicate the presence of several types of mold spores at counts below, or within a reasonable variance, of the outside counts. The exceptions to this are the presence of *Aspergillus/Penicillium*, *Chaetomium* and *Stachybotrys*. While at low levels they are present. As a precaution, it is recommended that the room be HEPA vacuumed and wet-wiped prior to removal of the containment. Re-testing is not necessary based on additional testing after further work is done in the home. The overall count is much lower than the outside count.

A3 – Living: Air samples collected from this area indicate the presence of several types of mold spores at counts below, or within a reasonable variance, of the outside counts. The exception to this is the presence of *Aspergillus/Penicillium*. Additional work is scheduled in this area with follow up testing.

A4 – Kitchen: Air samples collected from this area indicate the presence of several types of mold spores at counts below, or within a reasonable variance, of the outside counts. The exceptions to this are the presence of *Aspergillus/Penicillium* and *Chaetomium*. Additional work is scheduled in this area with follow up testing.

### Swab Samples

S1 – Master Bath – baseplate: Lab results indicate "Rare" on the microscopic screen. This is within the guidelines set forth in the Mold Remediation Protocol. Based on the type of spores being *Chaetomium*, additional cleaning of the wood framing in the bathroom area is recommended. Re-testing is not necessary based on the count being "rare".

### Moisture Readings

Moisture Readings on exposed wood framing tested dry.

### Relative Humidity

Relative Humidity readings all tested below 60%.



**Master Bath**



**Master Bedroom**



# EMSL Analytical, Inc.

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

Phone: (713) 686-3635

Fax: (713) 686-3645

Email: [houstonlab@emsl.com](mailto:houstonlab@emsl.com)

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

EMSL Order: 150802701  
Customer ID: ALLA22  
Received: 5/21/08  
Analyzed: 5/21/08  
Report Date: 5/21/08

Proj: SAHA-462PRE

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

Lab Sample Number:	150802701-0001	150802701-0002	150802701-0003	150802701-0004	
Client Sample ID:	A1	A2	A3	A4	
Volume (L):	75	75	75	75	
Sample Location:	Outside	Master B/R	Living	Kitchen	
Spore Types	Count/m <sup>3</sup>	Count/m <sup>3</sup>	Count/m <sup>3</sup>	Count/m <sup>3</sup>	
Agrocybe/Coprinus	-	-	-	-	
Alternaria	168	-	84	-	
Ascospores	1220	126	42	252	
Aspergillus/Penicillium	-	84	336	126	
Basidiospores	84	-	-	-	
Bipolaris	-	-	84	84	
Chaetomium	42	210	126	294	
Cladosporium	7220	252	420	252	
Curvularia	-	-	-	42	
Epicoccum	-	-	42	-	
Fusarium	-	-	-	-	
Ganoderma	-	-	-	-	
Myxomycete	336	-	-	84	
Paecilomyces	-	-	-	-	
Rust	13*	-	-	-	
Scopulariopsis	-	-	-	-	
Stachybotrys	-	13*	-	-	
Torula	13*	-	42	-	
Ulocladium	-	-	-	-	
Unidentifiable Spores	42	42	-	-	
Zygomycetes	-	-	-	-	
Cercospora	126	-	-	42	
Nigrospora	42	-	-	-	
<b>Total Fungi</b>	<b>9310</b>	<b>727</b>	<b>1180</b>	<b>1180</b>	
Fibrous Particulate	-	-	-	-	
Hyphal Fragment	-	-	-	-	
Insect Fragment	42	-	42	168	
Pollen	-	-	-	-	
Analyt. Sensitivity 600x	42	42	42	42	
Analyt. Sensitivity 300x	13*	13*	13*	13*	
Skin Fragments (1-4)	1	1	1	1	
Background (1-5)	2	1	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 Resources section at [www.emsl.com](http://www.emsl.com)

*Melanie Beck*

*MB*



# EMSL Analytical, Inc.

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

Phone: (713) 686-3635

Fax: (713) 686-3645

Email: [houstonlab@emsl.com](mailto:houstonlab@emsl.com)

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

EMSL Order: 150802701  
Customer ID: ALLA22  
Received: 5/21/08  
Analyzed: 5/21/08  
Report Date: 5/21/08

Proj: SAHA-462PRE

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

Lab Sample Number:	150802701-0005				
Client Sample ID:	S1				
Sample Location:	M/Bath-Base				
<b>Spore Types</b>	<b>Category</b>				
Agrocybe/Coprinus	-				
Alternaria	-				
Ascospores	-				
Aspergillus/Penicillium	-				
Basidiospores	-				
Bipolaris	-				
Chaetomium	Low				
Cladosporium	-				
Curvularia	-				
Epicoccum	-				
Fusarium	-				
Ganoderma	-				
Myxomycete	-				
Paecilomyces	-				
Rust	-				
Scopulariopsis	-				
Stachybotrys	-				
Torula	-				
Ulocladium	-				
Unidentifiable Spores	-				
Zygomycetes	-				
Fibrous Particulate	-				
Hyphal Fragment	-				
Insect Fragment	-				
Pollen	-				

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

*Melanie Beck*

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-Ver1.7.8.7

For Information on the fungi listed in this report please visit the Resources section at [www.emsl.com](http://www.emsl.com)

*JES*

# 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.

15072101

<b>Company:</b>	Aladdin Environmental LLC	<b>Bill To:</b>	Aladdin Environmental LLC
<b>Address1:</b>	321 W. Josephine	<b>Address1:</b>	321 W. Josephine
<b>Address2:</b>		<b>Address2:</b>	
<b>City, State:</b>	San Antonio, TX	<b>City, State:</b>	San Antonio, TX
<b>Zip, Post Code:</b>	78212	<b>Zip, Post Code:</b>	78212
<b>Country:</b>		<b>Country:</b>	
<b>Contact Name:</b>	John Spalten	<b>Attn:</b>	John Spalten
<b>Phone:</b>	210-736-1826	<b>Phone:</b>	210-736-1826
<b>Fax:</b>	2107323667	<b>Fax:</b>	2107323667
<b>Email:</b>	johns@aladdincleans.com	<b>Email:</b>	johns@aladdincleans.com
<b>EMSL Rep:</b>		<b>P.O. Number:</b>	
<b>Project Name/Number:</b> SAHA-462PRE			

Project Name SAHA-462PRE Date Collected 5-20-08 Date Sent 5-20-08

Other Information:

<i>For EMSL use only</i>	
EMSL Order No. _____	
Sample(s) received in good condition? [Y][N]	
Discernable 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
A1	OUTSIDE	AIR	75L	111	24 HR	78% / 24%
A2	MARINA B/R					87% / 6%
A3	LIVING					86% / 58%
A4	KITCHEN					84% / 6%
SI	M/RAIN BASE	SWAB	1.50 cm	091	24 HR	

\*See attached schedule

Relinquished by: John Spalten Date: 5-20-08 Time: 2:30  
 Received by: [Signature] Date: 5/21/08 Time: 11:15  
 Page: 1 of 1

JS