



Astex Environmental Services, Inc.

123 Catalpa · San Antonio, TX 78209

Phone: (210) 828-9800 · Fax: (210) 829-4927

March 27, 2008

Mr. Lucas Oliva
Design Manager Real Estate Services
San Antonio Housing Authority
818 S. Flores
San Antonio, Texas 78204
Phone: (210) 477-6004
Email: lucas_oliva@saha.org

RE: Mold Clearance Sampling, 139 Villa Arboles, San Antonio, Texas
Astex Project #AES-08-J-4771

Dear Mr. Oliva,

Pursuant to your request, on March 25, 2008, Mr. Ron Greenberg of Astex Environmental Services, Inc. (AES), Texas Department of State Health Services (TDSHS) Mold Assessment Consultant MAC 0509 conducted a Mold Clearance Inspection within the residence located at 139 Villa Arboles, San Antonio, Texas to investigate the microbial conditions within the home after mold abatement activities.

Scope of Work

The scope of work for this mold clearance inspection included the collection of the following samples:

- Air samples (Allergenco brand cassettes) were collected in the following locations for the analysis of Total Bioaerosols:
 1. inside – containment bedroom - 1 sample
 2. inside – hallway outside containment - 1 sample
 3. outside - comparison/control samples - 2 sample

Note: These samples were delivered to the contract lab, Crisp Analytical Laboratories, 2081 Hutton Dr, Suite 301, Carrollton, Texas, for analyses in accordance with the American Industrial Hygiene Association (AIHA) Environmental Microbiology Laboratory Accreditation Program (EMLAP) as well as following the Food and Drug Administration (FDA) Good Laboratory Practice Guidelines.

Visual and Moisture Inspection Results

The containment area was observed to be visually clean and free of mold and/or evidence of new or additional water intrusion. Additionally there were no indications of moisture within the wall materials and windowsills were inspected and no signs of water staining were noted.

Temperature and Humidity Levels

Temperature readings within the house ranged from 72.6 to 75.7 degrees Fahrenheit and humidity was noted to be between 36.1 to 40.3 percent

Analytical Results

The Allergenco Air Samples were collected by Astex personnel on the morning of March 25, 2008 and were delivered to the contract lab for analysis of total bioaerosols with the results being made a part of this report. The data generated in this report is based on the samples and accompanying information provided and represents concentrations at a point in time under the conditions sampled. Keep in mind, sample values fluctuate widely and single point-in-time samples can be highly variable.

Currently, there are no regulations, federal or state, establishing action limits for mold spores and mold particulates in indoor air. Also, there are no species of molds identified to be hazards to public health. Current practice is to compare interior to exterior samples, noting the species present and the contrasting levels of spores and particle.

During this limited investigation, the following observations were noted:

Fungal Spores (Allergenco):

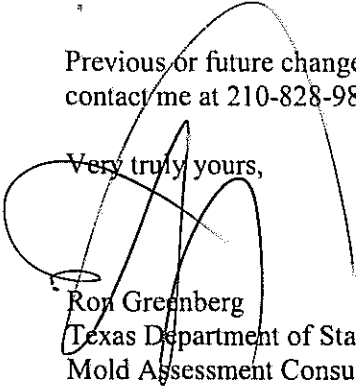
- Outdoor air had typical levels of total fungal spores, dominated by *Cladosporium* and low to moderate levels of *Aspergillus/Penicillium*-like spores.
- Indoor air in general had very low levels of total fungal spores (1968 to 2,544 count/M³) compared to outdoor air (4,080 to 5,424 count/M³) and the distribution of spores was typical of the outdoor air with *Cladosporium* being the dominant type. Additionally no *Aspergillus/Penicillium*-like spores or *Stachybotrys* spores were detected.

Conclusions/Recommendations

Since the total spore counts were well below the outside samples and the fact that no *Aspergillus/Penicillium*-like spores or *Stachybotrys* spores were detected, it was determined that the sampling event met the established clearance criteria and the space was deemed clean and safe for re-occupancy for occupants or tradesmen conducting renovation activities.

Previous or future changes in mold concentrations cannot be inferred from these sample results. Please contact me at 210-828-9800 with any questions.

Very truly yours,



Ron Greenberg
Texas Department of State Health Services (TDSHS)
Mold Assessment Consultant No. MAC 0509

Attachments: Chain of Custody
 Laboratory Results

Crisp Analytical Labs, L.L.C. / C.A. Labs, L.L.C. / Crisp Analytical Labs at Houston, L.L.C.

Client: Astex Inc. Allergenic Particle Report CA Lab Project #: CAL08032002 Date: 03/26/08
 Address: 123 Catalpa San Antonio, TX 7820 Analysis: Light Microscopy identification of pollen/fungal spore per CA Labs Air-o-cell method Project name: 139 Villa Arboles AES-08-J-4771 page #1
 Attn: Ron Greenberg Sample media : Air-o-cell / Cyclex D (airborne)

Sample # Location Volume	4771-01 Outside - Front 75			4771-02 Outside- Rear 75			4771-11 Inside - Contain 75			4771-12 Inside Hallway 75			Total Cnts.	Per- m3	Per- cent		
	Cnts./ m3	Per- cent	Total Cnts.	Cnts./ m3	Per- cent	Total Cnts.	Cnts./ m3	Per- cent	Total Cnts.	Cnts./ m3	Per- cent	Total Cnts.				Cnts./ m3	Per- cent
Alternaria	7	96	2.4	14	192	3.5						4	48	2.4			
Ascomycetes	7	96	2.4	29	384	7.1	11	144	5.7	4	48	4	48	2.4			
Basidiomycetes	14	192	4.7	14	192	3.5	4	48	1.9	4	48	4	48	2.4			
Botrytis																	
Chaetomium																	
Cladosporium	230	3,072	75.3	295	3,936	72.6	173	2,304	90.6	126	1,680	85.4					
Curvularia	4	48	1.2	7	96	1.8	4	48	1.9	4	48	2.4					
Dreschlera/Bipolaris																	
Epicoccum	4	48	1.2														
Oidium/Pero																	
Nigrospora	11	144	3.5	14	192	3.5						7	96	4.9			
Penicillium/Asp	29	384	9.4	25	336	6.2											
Periconia/Myx																	
Pithomyces																	
Pseudo/Cercospora																	
Rust																	
Smut																	
Stachybotrys																	
Pollen	4	48		11	144												
Hyphae	7	96		4	48		4	48				7	96				
Particulate	4	48		4	48		4	48				4	48				
	306	4,080		407	5,424		191	2,544		148	1,968						
Total	Cnts./ m3	Per- cent	Total Cnts.	Cnts./ m3	Per- cent	Total Cnts.	Cnts./ m3	Per- cent	Total Cnts.	Cnts./ m3	Per- cent	Total Cnts.	Cnts./ m3	Per- cent	Total Cnts.	Cnts./ m3	Per- cent

Crisp Analytical Labs, L.L.C. 2081 Hutton , Suite 301 Carrollton, TX 75006
 Dallas Baton Rouge Houston

Analyst - Chad Lytle
 General Manager - Leslie Crisp

**INDOOR AIR QUALITY
ALLERGENIC PARTICLE
LABORATORY ANALYSIS REPORT**

Astex Inc.
123 Catalpa
San Antonio, TX 78209
phone: 210-828-9800
fax: 210-829-4927
reference number: CAL08032002

PO #:
Turnaround Time: 24 Hours
Received: 03/26/08 8:15 am

LABORATORY ANALYSIS METHOD:

Summary of light microscopy analysis of allergenic particles in tape or air cassettes. Tape lift samples indicate presence or absence and identification of known allergenic particles. Air cassettes can be quantified in airborne concentrations (total counts/m³). Pollen and fungus type qualifications are based on keys and reference standards for known allergenic types. Sample analysis is performed by professionally trained individuals. This test report relates only to items tested. This report does not imply endorsement by any US Government agency. This report may not be reproduced except in full, without written permission from CA Labs. CA Labs - Dallas is accredited by AIHA for viable fungi analysis.

These results are submitted pursuant to CA Labs' current terms and condition of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. If there are concerns about health aspects of known allergens, consult a physician. Pollen and spore types identified are all naturally occurring and may grow anywhere in a natural environment where water is present. While it is normal for fungi to be present inside buildings from outside sources, growth occurs in humid conditions. Fungi cannot spread from building to building, as it is always present, but may not be growing. To control allergens in an area, drying and use of HEPA filters are recommended. Bias is present in all types of spore trap cassettes by particle size, capture, spread and counting procedure used. Quantification is susceptible to variance of 100% and standard deviation fo 200%. Unless notified in writing to return samples covered by this report, CA Labs will store the samples for thirty (30) days before discarding. A shipping and handling fee may be assessed for the return of any samples. This method is not covered by the scope of NVLAP or AIHA accreditation.

This report is intended for the recipient, only. Please notify us if you have received this document in error
(we will advise you to destroy or return this document.)

Analysis performed at Crisp Analytical Labs, L.L.C. 2081 Hutton Dr. Suite 301
Carrollton, TX 75006; phone (972)488-1414, fax (972)488-8006, after-hours
mobile (214)564-8366.

Biologic/Plain White Light Microscopy Report Allergen Analysis

Astex, Inc.
123 Catalpa
San Antonio, TX 78209
reference number: CAL08032019

LABORATORY ANALYSIS METHOD:

Summary of light microscopy analysis of biologic organisms in tape or air cassettes, as well as viable media. Tape lift samples indicate the presence or absence and identification of known biologic organisms. Air cassettes can be quantified in surface and airborne concentrations (total count/m³). Pollen and fungi identification are based on biologic keys and reference standards for known allergenic types. Greater than five percent of all samples are re-examined by a second analyst for intralaboratory quality control. Greater than five percent of all samples are re-examined by the same analyst for quality control. Monthly quality control data is calculated and evaluated. **CA Labs is accredited by AIHA for viable fungi analysis.** This test reports relates only to the items tested. This report does not imply endorsement by any government agency. This report may not be reproduced except in full without written permission from CA Labs.

Should there be health concerns resulting from any exposure; consult a physician. Pollen and spore types identified are naturally occurring and may grow anywhere with the presence of moisture. While it is normal for fungi to be present inside all building from outside sources, growth occurs in humid conditions. Bias is present in all types of spore trap cassettes by particle size, capture, spread and counting procedures.

These results are submitted pursuant to CA Labs' current terms and condition of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted.

Analysis performed at Crisp Analytical Labs, L.L.C. 2081 Hutton Dr. Suite 301 Carrollton, TX 75006. We can be reached after hours by cellular at (214) 564-8366.