



**California State Board of Equalization**  
450 N Street, Sacramento, California

**Monthly Air Monitoring Report**  
**August 2012**

*Project No. 2372.02-572*



**Prepared for:**

California Department of General Services  
707 Third Street, 3-305  
Sacramento, California 95605

**Prepared by:**

Chris Corpuz, MS, CIH, CAC  
Senior Manager  
LaCroix Davis LLC

**Report Date:**

September 19, 2012



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## 1.0 Introduction

On July 2, 2008, LaCroix Davis LLC (LCD) was contracted by the State of California, Department of General Services (DGS), Real Estate Services, Project Management Branch (RES, PMB) to provide building and environmental forensic services at the Board of Equalization (BOE) building located at 450 N Street, Sacramento, California. The BOE building was substantially completed in December 1992 and has experienced a variety of water-related events throughout its history.

On September 30, 2011, LCD's original contract was amended by Contract Amendment 3126150 Am. 7 to include the following Monthly Air Monitoring activity:

“Contractor shall provide monthly (once per month) air monitoring of the building during that portion of the day in which the building HVAC system is fully-operational. Eleven (11) floors will be monitored per month starting with the even-numbered floors on the first month that monthly air monitoring starts, and then switching to the odd-numbered floors on the following month. Switching between even and odd-numbered floors will continue during successive months; resulting in a total of 12 sampling events throughout a 12-month period: six (6) sampling events on even-numbered floors and six (6) sampling events on odd-numbered floors.”

The DGS and BOE industrial hygienists (IH) agreed on the following approach for the monthly air monitoring for each team:

- Collection of three (3) samples per tenant floor (33 total) and three (3) outdoor samples;
- Sample analysis by Polymerase Chain Reaction (PCR) for custom *Cladosporium* panel and PCR-23 important indoor molds using laboratory standard turn-around times unless directed to do otherwise by DGS.

The IHs proposed a re-occurring air sampling date and submitted it to BOE for approval; BOE has approved the last Friday of every month for the monthly air monitoring. BOE notified the Building Security that the IHs will require escorts onto secure floors in order to install sampling pumps.

The LCD field project team is staffed by personnel from various LCD offices under the project management of Mr. Chris Corpuz, Senior Manager.

## 2.0 Air Monitoring

On behalf of DGS, the LCD team performed air monitoring in accordance with the Monthly Air Monitoring Schedule and Revised Protocol (Attachment A) on August 31, 2012. During that time, the building HVAC system operated from 5:00 AM to 6:00 PM. Therefore, the sampling window was from 4:00 AM to 7:00 PM for sample set-up and three rounds of sampling on each floor. (The actual sampling window will be changed as seasonal adjustments are made to the HVAC system operating window.)

LCD collected three (3) air samples on each of the eleven (11) odd-numbered floors designated for the August monitoring. Each air sample was collected over approximately 3 hours. A target sample rate of seven (7) liters per minute (LPM) was used.

LCD also collected a total of three (3) exterior/outdoor samples; one (1) sample was taken per sampling period. In addition, one (1) field blank was submitted for analysis.

A total of 33 interior samples, three (3) exterior samples, and one (1) field blank were submitted under chain of custody to the laboratory and analyzed for PCR – Cladosporium (custom panel). The exterior samples, the field blank, and one (1) sample per floor were also analyzed for PCR-23 Important Indoor Molds. The analytical results are summarized in Table 1. The lab reports are included in Appendix B, Lab Reports.

The Mechanical Floor, the Penthouse Floor, and the core sampling ports on Floors 2 and 21 are not part of the monthly monitoring schedule. At the direction of the DGS management team, samples from these areas may be added to the regular schedule. However, no indoor air samples were added and collected from any of these locations during this monthly monitoring event in August 2012.

To demonstrate any seasonal changes within the HVAC duct interiors, surface microvac samples – not part of the regular sampling project schedule – may be added to the regular schedule. However, no microvac samples were collected during the monthly monitoring event in August 2012.

### **3.0 Findings**

In general, the indoor air samples indicated spore equivalents per cubic meter (SE/m<sup>3</sup>) below background concentrations detected in outdoor samples. However, one sample from the northwest quadrant of Floor 11 indicated the presence of *Aspergillus niger* at 44 SE/m<sup>3</sup>, whereas this species was detected in outdoor samples at 34 SE/m<sup>3</sup> or below.

Based on historical monitoring of Floor 11, the detection of *Aspergillus niger* at 44 SE/m<sup>3</sup> appears to be an isolated event and unremarkable, but will be checked against future samples collected in this area.

Based on the August 2012 monitoring results, molds detected in the HVAC ducts do not appear to have impacted the air quality of the office spaces.

#### 4.0 Limitations and Qualifications

The assessment performed by LCD does not include or cover the following matters: Matters that are subsequently discovered that could not have been reasonably foreseen or detected, using industry standards, during the performance of the assessment; matters that could not have been discovered by LCD because of barriers, lack of access or other matters affecting accessibility; matters that were not disclosed to LCD prior to, during, or after the performance of the assessment; any new deficiency that arose after the completion of the assessment by LCD.

To the extent that additional information becomes available to LCD, LCD reserves the right (without any obligation to do so) to modify its evaluation and/or this report at any time, based upon further review and analysis of any such additional information or data.

Certain items mentioned in the report were performed by others not involving the supervision of, or management by, LCD, but were relied upon by LCD in making its evaluation and assessment.

The assessment performed by LCD is not meant or intended to supplement, modify, or extinguish any warranty or representation made or given by third parties performing any of the recommended corrective work.

When consultation involves microbiological growth, or any assessment thereof, such microbiological growth may reoccur if the source of the growth is not remedied. All remediation of fungi in indoor environments can be inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site evaluation. Except as may be noted in the assessment performed by LCD, subsurface areas, latent defects, or non-accessible areas and conditions were not field investigated and may differ from the conditions implied by the surface observations. Additionally, the passage of time may result in a change in the environmental characteristics at the subject property and the surrounding properties. No investigation or assessment can absolutely rule out the existence of any microbiological growth at any given site. LCD does not remediate or remedy sources of microbiological growth.

This Report and the assessment/survey conducted by LCD is prepared, and was performed, solely for the use and benefit of the client identified at the beginning of this report. No other party may rely on this report for any other purpose.

Report prepared by,



Chris Corpuz, MS, CIH  
Senior Manager  
LaCroix Davis LLC

Report reviewed by,



for

Stephen C. Davis, MPH, CIH  
Principal  
LaCroix Davis LLC

# TABLES



**Table 1 - August 2012 Air Monitoring Results**  
Board of Equalization Building, Sacramento

LCD No. 2373.03-572  
DGS-BOE  
Monthly Air Monitoring

Location	Sample Number	PCR - Custom Panel Cladosporium						PCR - 23 Important Indoor Molds (Only species detected indoors this month are listed.)															
		<i>Cladosporium sphaerospermum</i>		<i>Cladosporium herbarum</i>		<i>Cladosporium cladosporioides II</i>		<i>Cladosporium cladosporioides I</i>		<i>Alternaria alternata</i>		<i>Aspergillus flavus</i>		<i>Aspergillus fumigatus</i>		<i>Aspergillus niger</i>		<i>Eurotium amstelodami</i>		<i>Paecilomyces variotii</i>		<i>Penicillium brevicompactum</i>	
		SE	SE/m <sup>3</sup>	SE	SE/m <sup>3</sup>	SE	SE/m <sup>3</sup>	SE	SE/m <sup>3</sup>	SE	SE/m <sup>3</sup>	SE	SE/m <sup>3</sup>	SE	SE/m <sup>3</sup>	SE	SE/m <sup>3</sup>	SE	SE/m <sup>3</sup>	SE	SE/m <sup>3</sup>	SE	SE/m <sup>3</sup>
Floor 23, core, hallway SW	2372-83112-P12	ND	<1	5	4	1	1	120	94														
Floor 23 S	2372-83112-P24	ND	<1	2	1	ND	<1	12	10	ND	<1	ND	<1	ND	<1	1	1	17	13	ND	<1	ND	<3
Floor 23 SE	2372-83112-P36	ND	<1	1	1	ND	<1	6	5														
Floor 21, core, elevator lobby	2372-83112-P11	1	1	1	1	1	1	7	6	ND	<1	ND	<1	ND	<1	1	1	ND	<1	1	1	10	8
Floor 21, core, Rm. 21B	2372-83112-P23	ND	<1	ND	<1	ND	<1	4	3														
Floor 21 NE	2372-83112-P35	ND	<1	ND	<1	1	1	ND	<1														
Floor 19, core, elevator lobby	2372-83112-P10	1	1	1	1	2	1	11	9														
Floor 19 E	2372-83112-P22	1	1	6	4	1	1	ND	<1														
Floor 19 N	2372-83112-P34	ND	<1	ND	<1	ND	<1	3	3	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<3
Floor 17, core, hallway SW	2372-83112-P09	ND	<1	2	1	1	1	ND	<1														
Floor 17 N	2372-83112-P21	1	1	ND	<1	ND	<1	13	10	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<3
Floor 17 W	2372-83112-P33	ND	<1	ND	<1	ND	<1	11	9														
Floor 15, core, elevator lobby	2372-83112-P08	ND	<1	2	2	ND	<1	37	30	1	1	ND	<1	2	1	1	1	ND	<1	ND	<1	8	7
Floor 15 S	2372-83112-P20	1	1	3	2	1	1	7	6														
Floor 15 W	2372-83112-P32	ND	<1	1	1	1	1	ND	<1														
Exterior, M Floor, N-OA	2372-83112-P25	ND	<1	160	120	130	96	2,000	1,500	2	1	5	3	27	21	26	20	160	120	2	1	49	37
Floor 11, core, elevator lobby	2372-83112-P07	ND	<1	7	6	2	2	92	74														
Floor 11 E	2372-83112-P19	ND	<1	1	1	1	1	12	10														
Floor 11 NW	2372-83112-P31	ND	<1	1	1	ND	<1	37	31	ND	<1	ND	<1	ND	<1	53	44	ND	<1	ND	<1	45	37
Floor 9, core, hallway SW	2372-83112-P06	1	1	1	1	ND	<1	29	22														
Floor 9 E	2372-83112-P18	ND	<1	1	1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<2
Floor 9 NW	2372-83112-P30	ND	<1	ND	<1	1	1	14	11														
Floor 7, core, hallway SW	2372-83112-P05	ND	<1	1	1	ND	<1	7	5	ND	<1	1	1	3	2	1	1	ND	<1	ND	<1	ND	<3
Floor 7 E	2372-83112-P17	ND	<1	1	1	1	1	3	2														
Floor 7 W	2372-83112-P29	ND	<1	1	1	ND	<1	7	6														
Floor 5, core, elevator lobby	2372-83112-P04	1	1	1	1	1	1	ND	<1														
Floor 5 NW	2372-83112-P16	ND	<1	2	2	1	1	16	12														
Floor 5 SE	2372-83112-P28	ND	<1	1	1	1	1	10	8	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<2
Floor 3, core, hallway NE	2372-83112-P03	ND	<1	1	1	ND	<1	11	9														
Floor 3 N	2372-83112-P15	ND	<1	1	1	1	1	4	3	3	3	1	1	ND	<1	1	1	ND	<1	ND	<1	ND	<2
Floor 3 S	2372-83112-P27	ND	<1	ND	<1	ND	<1	ND	<1														
Floor 1, lobby NE	2372-83112-P02	ND	<1	6	5	3	3	84	66	ND	<1	ND	<1	3	3	3	2	29	23	ND	<1	ND	<2
Floor 1, core, hallway SW	2372-83112-P14	1	1	10	8	12	10	400	320														
Floor 1 S	2372-83112-P26	ND	<1	1	1	ND	<1	11	9														
Exterior, ground SW	2372-83112-P13	5	4	170	130	120	95	2,800	2,100	13	10	10	8	19	15	44	34	280	220	1	1	66	51
Exterior, ground NE	2372-83112-P01	1	1	19	15	19	15	320	250	1	1	1	1	6	4	6	5	40	32	ND	<1	ND	<2
Field Blank	2372-83112-P37	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<3

PCR = Polymerase chain reaction    SE = Spore equivalents    ND = Not detected      Outdoor sample      Not analyzed      Above outdoor level

**Appendix A**  
**Monthly Air Monitoring Schedule and Protocol**



## Monthly Air Monitoring Schedule and Protocol

LCD No. 2372.02-572  
DGS BOE Technical Support

### Monthly Air Monitoring Schedule

Floor	2011	2012											
	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<b>Actual Date</b>	12/30/11	1/27/12	2/24/12	3/30/12	4/27/12	5/25/12	6/29/12	7/27/12	8/31/12				
<b>PH</b>													
<b>24</b>	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
<b>23</b>	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
<b>22</b>	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
<b>21</b>	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
<b>20</b>	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
<b>19</b>	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
<b>18</b>	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
<b>17</b>	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
<b>16</b>	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
<b>15</b>	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
<b>14</b>	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
<b>M</b>													
<b>11</b>	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
<b>10</b>	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
<b>9</b>	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
<b>8</b>	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
<b>7</b>	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
<b>6</b>	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
<b>5</b>	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
<b>4</b>	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
<b>3</b>	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
<b>2</b>	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
<b>1</b>	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD



## Monthly Air Monitoring Schedule and Protocol

LCD No. 2372.02-572  
DGS BOE Technical Support

### Revised Protocol for Monthly Air Monitoring

1. The IH sampling teams will select an air sampling date which will be submitted to BOE for approval. Currently BOE has approved the last Friday of every month for the monthly air monitoring. BOE should also notify Building Security that hygienists will require escorts onto secure floors in order to install sampling pumps.
2. Each IH team will be responsible for collecting a minimum of three (3) air samples on each of the eleven (11) floors. The building HVAC system operating window is currently 5:00 AM - 6:00 PM; therefore the proposed sampling window is from 4:00 AM - 7:00 PM; the actual sampling window will be adjusted as seasonal adjustments are made to the HVAC system operating window.
3. Each air sample will be drawn over approximately 2 to 3 hours using a digital countdown timer to initiate and terminate the sampling event; the first sampling event shall start 0500; the last (third) sampling event time ends by 1900. A target sample rate of 7 LPM; total sample volume of approximately 1200 liters; the above sampling time to be adjusted to meet the target volume.
4. Each IH team will collect one (1) exterior/outdoor sample per sampling period; for a total of three (3) exterior/outdoor samples per IH team per day.
5. Each sample will be collected, submitted under chain of custody, and analyzed for PCR-Cladosporium (Custom Panel) and one sample per floor analyzed for PCR-23, under standard turnaround time.
6. Air samples on Floor PH and M (which are not part of the regular sampling project schedule) may be added and collected at the direction of the DGS management team.
7. Air samples from Floors 2 and 21 core sampling ports (which are not part of the regular sampling project schedule) may be added and collected at the direction of the DGS management team. Type of samples TBD.
8. The combined IH teams will collect 66 interior + 6 exterior = 72 total air samples.
9. To demonstrate any seasonal changes within the HVAC duct interiors, surface microvac samples (which are not part of the regular sampling project schedule) may be added and collected at the direction of the DGS management team. Samples will be analyzed for *PCR-Cladosporium (Custom Panel) and for PCR-23*, under standard turnaround time.
10. Each month, within 7 working days of receiving the final laboratory analytical results, a written Summary Report (one electronic digital copy and four printed copies) shall be submitted to the DGS Project Manager.

# **Appendix B**

## **Lab Reports**



## PCR - Custom Panel

Prepared Exclusively For:

LaCroix Davis, LLC.  
3685 Mt Diablo Blvd, Suite 210  
Lafayette, CA 94549

**Project Name: DGS-BOE**

**Project ID Number: 965170**

**September 13, 2012**

This report has been prepared at the request of and for the exclusive use of the client named in this report. EMLabP&K will not release results or report to a third party without prior written consent.

**Results:**

Sample ID	2372-83112-P03		2372-83112-P04		2372-83112-P06	
Air Volume [m <sup>3</sup> ]	1.269		1.242		1.287	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	11	9	ND	<1	29	22
<i>Cladosporium cladosporioides</i> (Type 2)	ND	<1	1	1	ND	<1
<i>Cladosporium herbarum</i>	1	1	1	1	1	1
<i>Cladosporium sphaerospermum</i>	ND	<1	1	1	1	1

Sample ID	2372-83112-P07		2372-83112-P09		2372-83112-P10	
Air Volume [m <sup>3</sup> ]	1.242		1.287		1.278	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	92	74	ND	<1	11	9
<i>Cladosporium cladosporioides</i> (Type 2)	2	2	1	1	2	1
<i>Cladosporium herbarum</i>	7	6	2	1	1	1
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	1	1

Sample ID	2372-83112-P12		2372-83112-P14		2372-83112-P16	
Air Volume [m <sup>3</sup> ]	1.269		1.278		1.260	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	120	94	400	320	16	12
<i>Cladosporium cladosporioides</i> (Type 2)	1	1	12	10	1	1
<i>Cladosporium herbarum</i>	5	4	10	8	2	2
<i>Cladosporium sphaerospermum</i>	ND	<1	1	1	ND	<1

Sample ID	2372-83112-P17		2372-83112-P19		2372-83112-P20	
Air Volume [m <sup>3</sup> ]	1.233		1.242		1.278	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	3	2	12	10	7	6
<i>Cladosporium cladosporioides</i> (Type 2)	1	1	1	1	1	1
<i>Cladosporium herbarum</i>	1	1	1	1	3	2
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	1	1

Sample ID	2372-83112-P22		2372-83112-P23		2372-83112-P26	
Air Volume [m <sup>3</sup> ]	1.260		1.296		1.260	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	ND	<1	4	3	11	9
<i>Cladosporium cladosporioides</i> (Type 2)	1	1	ND	<1	ND	<1
<i>Cladosporium herbarum</i>	6	4	ND	<1	1	1
<i>Cladosporium sphaerospermum</i>	1	1	ND	<1	ND	<1

Sample ID	2372-83112-P27		2372-83112-P29		2372-83112-P30	
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<b>Air Volume [m<sup>3</sup>]</b>	<b>1.296</b>		<b>1.323</b>		<b>1.305</b>	
<b>Fungal ID</b>	<b>SE*</b>	<b>SE/m3</b>	<b>SE*</b>	<b>SE/m3</b>	<b>SE*</b>	<b>SE/m3</b>
<i>Cladosporium cladosporioides (Type 1)</i>	ND	<1	7	6	14	11
<i>Cladosporium cladosporioides (Type 2)</i>	ND	<1	ND	<1	1	1
<i>Cladosporium herbarum</i>	ND	<1	1	1	ND	<1
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	ND	<1

<b>Sample ID</b>	<b>2372-83112-P32</b>		<b>2372-83112-P33</b>		<b>2372-83112-P35</b>	
<b>Air Volume [m<sup>3</sup>]</b>	<b>1.278</b>		<b>1.251</b>		<b>1.296</b>	
<b>Fungal ID</b>	<b>SE*</b>	<b>SE/m3</b>	<b>SE*</b>	<b>SE/m3</b>	<b>SE*</b>	<b>SE/m3</b>
<i>Cladosporium cladosporioides (Type 1)</i>	ND	<1	11	9	ND	<1
<i>Cladosporium cladosporioides (Type 2)</i>	1	1	ND	<1	1	1
<i>Cladosporium herbarum</i>	1	1	ND	<1	ND	<1
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	ND	<1

<b>Sample ID</b>	<b>2372-83112-P36</b>	
<b>Air Volume [m<sup>3</sup>]</b>	<b>1.278</b>	
<b>Fungal ID</b>	<b>SE*</b>	<b>SE/m3</b>
<i>Cladosporium cladosporioides (Type 1)</i>	6	5
<i>Cladosporium cladosporioides (Type 2)</i>	ND	<1
<i>Cladosporium herbarum</i>	1	1
<i>Cladosporium sphaerospermum</i>	ND	<1

\* SE = Spore Equivalents, ND = Not Detected

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## PCR - Custom Panel

Prepared Exclusively For:

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3685 Mt Diablo Blvd, Suite 210  
Lafayette, CA 94549

**Project Name: DGS-BOE**

**Project ID Number: 965170**

**September 13, 2012**

This report has been prepared at the request of and for the exclusive use of the client named in this report. EMLabP&K will not release results or report to a third party without prior written consent.

**Results:**

Sample ID	2372-83112-P01		2372-83112-P02		2372-83112-P05	
Air Volume [m <sup>3</sup> ]	1.269		1.269		1.296	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Acremonium strictum</i>	ND	<1	ND	<1	ND	<1
<i>Alternaria alternata</i>	1	1	ND	<1	ND	<1
<i>Aspergillus flavus</i> <sup>a</sup>	1	1	ND	<1	1	1
<i>Aspergillus fumigatus</i> <sup>b</sup>	6	4	3	3	3	2
<i>Aspergillus niger</i> <sup>c</sup>	6	5	3	2	1	1
<i>Aspergillus ochraceus</i> <sup>d</sup>	ND	<1	ND	<1	ND	<1
<i>Aspergillus sydowii</i>	ND	<8	ND	<8	ND	<10
<i>Aspergillus ustus</i>	1	1	ND	<1	ND	<1
<i>Aspergillus versicolor</i>	ND	<1	ND	<1	ND	<2
<i>Chaetomium globosum</i>	ND	<1	ND	<1	ND	<1
<i>Cladosporium cladosporioides (Type 1)</i>	320	250	84	66	7	5
<i>Cladosporium cladosporioides (Type 2)</i>	19	15	3	3	ND	<1
<i>Cladosporium herbarum</i>	19	15	6	5	1	1
<i>Cladosporium sphaerospermum</i>	1	1	ND	<1	ND	<1
<i>Eurotium (Asp.) amstelodami</i> <sup>e</sup>	40	32	29	23	ND	<1
<i>Memnoniella echinata</i>	ND	<1	ND	<1	ND	<1
<i>Paecilomyces variotii</i>	ND	<1	ND	<1	ND	<1
<i>Penicillium aurantiogriseum</i> <sup>f</sup>	ND	<2	ND	<2	ND	<3
<i>Penicillium brevicompactum</i>	ND	<2	ND	<2	ND	<3
<i>Penicillium chrysogenum (Type 2)</i> <sup>g</sup>	5	4	ND	<1	ND	<1
<i>Penicillium purpurogenum</i>	ND	<1	ND	<1	ND	<2
<i>Penicillium variable</i>	ND	<4	ND	<5	ND	<6
<i>Scopulariopsis brevicaulis</i> <sup>h</sup>	ND	<1	ND	<1	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1	ND	<1	ND	<1
<i>Trichoderma viride</i> <sup>i</sup>	ND	<1	ND	<1	ND	<1
<i>Ulocladium botrytis</i>	ND	<1	ND	<1	ND	<1

\* SE = Spore Equivalents, ND = Not Detected

<sup>a</sup> Includes *A. flavus* and *A. oryzae*

<sup>b</sup> Includes *A. fumigatus* and *Neosartorya fischeri*

<sup>c</sup> Includes *A. niger*, *A. foetidus* and *A. phoenicis*

<sup>d</sup> Includes *A. ochraceus* and *A. ostianus*

<sup>e</sup> Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

<sup>f</sup> Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

<sup>g</sup> Includes dominant subgroup of species

<sup>h</sup> Includes *S. brevicaulis* and *S. fusca*

<sup>i</sup> Includes *T. viride*, *T. atroviride* and *T. koningii*

**Results:**

Sample ID	2372-83112-P08		2372-83112-P11		2372-83112-P13	
Air Volume [m <sup>3</sup> ]	1.233		1.242		1.287	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Acremonium strictum</i>	ND	<1	ND	<1	ND	<1
<i>Alternaria alternata</i>	1	1	ND	<1	13	10
<i>Aspergillus flavus</i> <sup>a</sup>	ND	<1	ND	<1	10	8
<i>Aspergillus fumigatus</i> <sup>b</sup>	2	1	ND	<1	19	15
<i>Aspergillus niger</i> <sup>c</sup>	1	1	1	1	44	34
<i>Aspergillus ochraceus</i> <sup>d</sup>	ND	<1	ND	<1	2	2
<i>Aspergillus sydowii</i>	ND	<10	ND	<10	ND	<8
<i>Aspergillus ustus</i>	ND	<1	ND	<1	1	1
<i>Aspergillus versicolor</i>	ND	<1	ND	<1	3	2
<i>Chaetomium globosum</i>	ND	<1	ND	<1	ND	<1
<i>Cladosporium cladosporioides (Type 1)</i>	37	30	7	6	2800	2100
<i>Cladosporium cladosporioides (Type 2)</i>	ND	<1	1	1	120	95
<i>Cladosporium herbarum</i>	2	2	1	1	170	130
<i>Cladosporium sphaerospermum</i>	ND	<1	1	1	5	4
<i>Eurotium (Asp.) amstelodami</i> <sup>e</sup>	ND	<1	ND	<1	280	220
<i>Memnoniella echinata</i>	ND	<1	ND	<1	ND	<1
<i>Paecilomyces variotii</i>	ND	<1	1	1	1	1
<i>Penicillium aurantiogriseum</i> <sup>f</sup>	ND	<3	ND	<3	ND	<2
<i>Penicillium brevicompactum</i>	8	7	10	8	66	51
<i>Penicillium chrysogenum (Type 2)</i> <sup>g</sup>	ND	<1	ND	<1	4	3
<i>Penicillium purpurogenum</i>	ND	<2	ND	<2	37	29
<i>Penicillium variabile</i>	ND	<6	ND	<6	ND	<5
<i>Scopulariopsis brevicaulis</i> <sup>h</sup>	ND	<1	ND	<1	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1	ND	<1	ND	<1
<i>Trichoderma viride</i> <sup>i</sup>	ND	<1	ND	<1	3	2
<i>Ulocladium botrytis</i>	ND	<1	ND	<1	ND	<1

\* SE = Spore Equivalents, ND = Not Detected

<sup>a</sup> Includes *A. flavus* and *A. oryzae*

<sup>b</sup> Includes *A. fumigatus* and *Neosartorya fischeri*

<sup>c</sup> Includes *A. niger*, *A. foetidus* and *A. phoenicis*

<sup>d</sup> Includes *A. ochraceus* and *A. ostianus*

<sup>e</sup> Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

<sup>f</sup> Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

<sup>g</sup> Includes dominant subgroup of species

<sup>h</sup> Includes *S. brevicaulis* and *S. fusca*

<sup>i</sup> Includes *T. viride*, *T. atroviride* and *T. koningii*

**Results:**

Sample ID	2372-83112-P15		2372-83112-P18		2372-83112-P21	
Air Volume [m <sup>3</sup> ]	1.314		1.296		1.314	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Acremonium strictum</i>	ND	<1	ND	<1	ND	<1
<i>Alternaria alternata</i>	3	3	ND	<1	ND	<1
<i>Aspergillus flavus</i> <sup>a</sup>	1	1	ND	<1	ND	<1
<i>Aspergillus fumigatus</i> <sup>b</sup>	ND	<1	ND	<1	ND	<1
<i>Aspergillus niger</i> <sup>c</sup>	1	1	ND	<1	ND	<1
<i>Aspergillus ochraceus</i> <sup>d</sup>	ND	<1	ND	<1	ND	<1
<i>Aspergillus sydowii</i>	ND	<8	ND	<10	ND	<10
<i>Aspergillus ustus</i>	ND	<1	ND	<1	ND	<1
<i>Aspergillus versicolor</i>	ND	<1	ND	<1	ND	<1
<i>Chaetomium globosum</i>	ND	<1	ND	<1	ND	<1
<i>Cladosporium cladosporioides (Type 1)</i>	4	3	ND	<1	13	10
<i>Cladosporium cladosporioides (Type 2)</i>	1	1	ND	<1	ND	<1
<i>Cladosporium herbarum</i>	1	1	1	1	ND	<1
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	1	1
<i>Eurotium (Asp.) amstelodami</i> <sup>e</sup>	ND	<1	ND	<1	ND	<1
<i>Memnoniella echinata</i>	ND	<1	ND	<1	ND	<1
<i>Paecilomyces variotii</i>	ND	<1	ND	<1	ND	<1
<i>Penicillium aurantiogriseum</i> <sup>f</sup>	ND	<2	ND	<3	ND	<3
<i>Penicillium brevicompactum</i>	ND	<2	ND	<2	ND	<3
<i>Penicillium chrysogenum (Type 2)</i> <sup>g</sup>	ND	<1	ND	<1	ND	<1
<i>Penicillium purpurogenum</i>	ND	<1	ND	<2	ND	<2
<i>Penicillium variable</i>	ND	<4	ND	<6	ND	<6
<i>Scopulariopsis brevicaulis</i> <sup>h</sup>	ND	<1	ND	<1	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1	ND	<1	ND	<1
<i>Trichoderma viride</i> <sup>i</sup>	ND	<1	ND	<1	ND	<1
<i>Ulocladium botrytis</i>	ND	<1	ND	<1	ND	<1

\* SE = Spore Equivalents, ND = Not Detected

<sup>a</sup> Includes *A. flavus* and *A. oryzae*

<sup>b</sup> Includes *A. fumigatus* and *Neosartorya fischeri*

<sup>c</sup> Includes *A. niger*, *A. foetidus* and *A. phoenicis*

<sup>d</sup> Includes *A. ochraceus* and *A. ostianus*

<sup>e</sup> Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

<sup>f</sup> Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

<sup>g</sup> Includes dominant subgroup of species

<sup>h</sup> Includes *S. brevicaulis* and *S. fusca*

<sup>i</sup> Includes *T. viride*, *T. atroviride* and *T. koningii*

**Results:**

Sample ID	2372-83112-P24		2372-83112-P25		2372-83112-P28	
Air Volume [m <sup>3</sup> ]	1.278		1.314		1.287	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Acremonium strictum</i>	ND	<1	2	1	ND	<1
<i>Alternaria alternata</i>	ND	<1	2	1	ND	<1
<i>Aspergillus flavus</i> <sup>a</sup>	ND	<1	5	3	ND	<1
<i>Aspergillus fumigatus</i> <sup>b</sup>	ND	<1	27	21	ND	<1
<i>Aspergillus niger</i> <sup>c</sup>	1	1	26	20	ND	<1
<i>Aspergillus ochraceus</i> <sup>d</sup>	ND	<1	4	3	ND	<1
<i>Aspergillus sydowii</i>	ND	<10	ND	<12	ND	<9
<i>Aspergillus ustus</i>	ND	<1	ND	<1	ND	<1
<i>Aspergillus versicolor</i>	ND	<2	ND	<2	ND	<1
<i>Chaetomium globosum</i>	ND	<1	ND	<1	ND	<1
<i>Cladosporium cladosporioides (Type 1)</i>	12	10	2000	1500	10	8
<i>Cladosporium cladosporioides (Type 2)</i>	ND	<1	130	96	1	1
<i>Cladosporium herbarum</i>	2	1	160	120	1	1
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	ND	<1
<i>Eurotium (Asp.) amstelodami</i> <sup>e</sup>	17	13	160	120	ND	<1
<i>Memnoniella echinata</i>	ND	<1	ND	<1	ND	<1
<i>Paecilomyces variotii</i>	ND	<1	2	1	ND	<1
<i>Penicillium aurantiogriseum</i> <sup>f</sup>	ND	<3	ND	<3	ND	<2
<i>Penicillium brevicompactum</i>	ND	<3	49	37	ND	<2
<i>Penicillium chrysogenum (Type 2)</i> <sup>g</sup>	ND	<1	ND	<1	ND	<1
<i>Penicillium purpurogenum</i>	ND	<2	ND	<2	ND	<2
<i>Penicillium variabile</i>	ND	<6	89	67	ND	<5
<i>Scopulariopsis brevicaulis</i> <sup>h</sup>	ND	<1	10	8	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1	1	1	ND	<1
<i>Trichoderma viride</i> <sup>i</sup>	ND	<1	ND	<1	ND	<1
<i>Ulocladium botrytis</i>	ND	<1	ND	<1	ND	<1

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<sup>g</sup> Includes dominant subgroup of species

<sup>h</sup> Includes *S. brevicaulis* and *S. fusca*

<sup>i</sup> Includes *T. viride*, *T. atroviride* and *T. koningii*

**Results:**

Sample ID	2372-83112-P31		2372-83112-P34		2372-83112-P37	
Air Volume [m <sup>3</sup> ]	1.197		1.287		NA	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/sample
<i>Acremonium strictum</i>	ND	<1	ND	<1	ND	<1
<i>Alternaria alternata</i>	ND	<1	ND	<1	ND	<1
<i>Aspergillus flavus</i> <sup>a</sup>	ND	<1	ND	<1	ND	<1
<i>Aspergillus fumigatus</i> <sup>b</sup>	ND	<1	ND	<1	ND	<1
<i>Aspergillus niger</i> <sup>c</sup>	53	44	ND	<1	ND	<1
<i>Aspergillus ochraceus</i> <sup>d</sup>	ND	<1	ND	<1	ND	<1
<i>Aspergillus sydowii</i>	ND	<12	ND	<10	ND	<12
<i>Aspergillus ustus</i>	ND	<1	ND	<1	ND	<1
<i>Aspergillus versicolor</i>	ND	<2	ND	<1	ND	<2
<i>Chaetomium globosum</i>	ND	<1	ND	<1	ND	<1
<i>Cladosporium cladosporioides (Type 1)</i>	37	31	3	3	ND	<1
<i>Cladosporium cladosporioides (Type 2)</i>	ND	<1	ND	<1	ND	<1
<i>Cladosporium herbarum</i>	1	1	ND	<1	ND	<1
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	ND	<1
<i>Eurotium (Asp.) amstelodami</i> <sup>e</sup>	ND	<1	ND	<1	ND	<1
<i>Memnoniella echinata</i>	ND	<1	ND	<1	ND	<1
<i>Paecilomyces variotii</i>	ND	<1	ND	<1	ND	<1
<i>Penicillium aurantiogriseum</i> <sup>f</sup>	ND	<3	ND	<3	ND	<3
<i>Penicillium brevicompactum</i>	45	37	ND	<3	ND	<3
<i>Penicillium chrysogenum (Type 2)</i> <sup>g</sup>	ND	<1	ND	<1	ND	<1
<i>Penicillium purpurogenum</i>	ND	<2	ND	<2	ND	<2
<i>Penicillium variabile</i>	ND	<7	ND	<6	ND	<7
<i>Scopulariopsis brevicaulis</i> <sup>h</sup>	ND	<1	ND	<1	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1	ND	<1	ND	<1
<i>Trichoderma viride</i> <sup>i</sup>	ND	<1	ND	<1	ND	<1
<i>Ulocladium botrytis</i>	ND	<1	ND	<1	ND	<1

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<sup>a</sup> Includes *A. flavus* and *A. oryzae*

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 Phoenix, AZ: 1931 West Knudsen Drive, Phoenix, AZ 85027 \* (800) 551-4802  
 San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 \* (866) 888-6653

**CONTACT INFORMATION**  
 Company: **Lacroix Davis, LLC** Address: **3009 Mt. Diablo Blvd. Ste 210**  
 Contact: **Corpus, T. Ice, A. Ste...**  
 Phone: **925-299-1140**

**PROJECT INFORMATION**  
 Project ID: **DGS-BOE**  
 Project Description: **Monthly Air Monitoring - August 2012**  
 Project: **Sampling**  
 Zip Code: **94112**  
 PO Number: **2372.02-572**

Sample ID	Location	Sample Type	Volume (L)	Time (Day, Month, Year)
2372-83112-001	Exterior Ground NE	STD	12.69	5:00-8:00 AM 7.05
2372-83112-002	Floor 1 Lobby NE	STD	12.69	7:05-8:05 AM 7.05
2372-83112-003	Floor 3 Core Hallway NE	STD	12.69	5:11-8:11 AM 7.05
2372-83112-004	Floor 5 Core Hallway SE	STD	12.42	5:17-8:17 AM 7.05
2372-83112-005	Floor 7 Core Hallway SE	STD	12.96	5:21-8:21 AM 7.05
2372-83112-006	Floor 9 Core Hallway SE	STD	12.87	5:25-8:25 AM 7.05
2372-83112-007	Floor 11 Core Elevator Lobby	STD	12.42	5:33-8:33 AM 7.05
2372-83112-008	Floor 15 Core Elevator Lobby	STD	12.33	5:38-8:38 AM 7.05
2372-83112-009	Floor 17 Core Hallway SE	STD	12.87	5:45-8:45 AM 7.05
2372-83112-010	Floor 19 Core Elevator Lobby	STD	12.78	5:47-8:47 AM 7.05
2372-83112-011	Core Elevator Lobby (Floor 2)	STD	12.42	5:59-8:59 AM 7.05

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Method	1-Media Surface Fungi (Genus ID + Asp. spp.)	2-Media Surface Fungi (Genus ID + Asp. spp.)	3-Media Surface Fungi (Genus ID + Asp. spp.)	Culturable Air Fungi (Genus ID + Asp. spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	Legionella culture	Total Coliform, E. coli (Presence/Absence)	Membrane Filtration (specify organism)	MPN Bacteria (specify organism)	QuantTray - Swiqa Screen	Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis - PLM (EPA method 6010-R-93-116)	PCR (specify test)	Specify Service
Spore Trap														
Non-Culturable														
Tap														
Swab														
Boik														
1-Media Surface Fungi (Genus ID + Asp. spp.)														
2-Media Surface Fungi (Genus ID + Asp. spp.)														
3-Media Surface Fungi (Genus ID + Asp. spp.)														
Culturable Air Fungi (Genus ID + Asp. spp.)														
Gram Stain & Counts (Culturable Air & Surface Bacteria)														
Legionella culture														
Total Coliform, E. coli (Presence/Absence)														
Membrane Filtration (specify organism)														
MPN Bacteria (specify organism)														
QuantTray - Swiqa Screen														
Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400)														
Asbestos Analysis - PLM (EPA method 6010-R-93-116)														
PCR (specify test)														
Specify Service														

**SAMPLE TYPE CODES:**  
 BC - BioCassette™  
 A15 - Anderson Allergenco, Burkard ...  
 SAS - Surface Air Sampler  
 CP - Contact Plate

**ST - Spore Trap: Zefon, Allergenco, Burkard ...**  
**P - Potable Water**  
**NP - Non-Potable Water**

**T - Tape**  
**SW - Swab**  
**B - Buik**  
**O - Other**

**D - Dust**  
**SO - Soil**

**REQUIREMENTS:** Theoniske  
 9/12 15:30  
 9/12 15:30  
 Drop Box W. Sec  
 9/12 15:30

**RECEIVED BY:** [Signature]  
**DATE & TIME:** 9/12 15:30





Cherry Hill, NJ: 1936 Olney Avenue, Cherry Hill, NJ 08003 \* (856) 874-1984  
 Phoenix, AZ: 1501 West Knudsen drive, Phoenix, AZ 85027 \* (602) 651-4802  
 San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 \* (650) 888-6653

**CONTACT INFORMATION**

Company: **LaCroix Davis, LLC**  
 Address: **7005 Mt. Diablo Blvd Ste 210**  
 Contact: **L. Corpuz; T. Lee; A. Steinfeld**  
 Special Instructions:

**PROJECT INFORMATION**

Project ID: **DA S - BOE**  
 Project Description: **Monthly Air Monitoring - August 2012**  
 Project Name: **Monthly Air Monitoring - August 2012**  
 Sampling Date & Time: **8/31/12**  
 PO Number: **2372.02-572**

**TURN AROUND TIME CODES (TAT)**

Standard (DEFAULT): **STD**  
 Next Business Day: **ND**  
 Same Business Day Rush: **SD**  
 Weekend / Holiday: **WH**

**WEEKEND / HOLIDAY**

11:50-17:50 7.15  
 14:59-17:59 7.2  
 15:07-18:07 7.1

**WETNESS**

Rushes received after 2 pm  
 or in wetness, will be  
 consolidated with the  
 next business day. Please  
 alert us in advance of  
 wetness in order to  
 weekend analysis needs.

**WETNESS**

Wetness (Yes/No)  
 Wetness (Yes/No)  
 Wetness (Yes/No)  
 Wetness (Yes/No)

**WETNESS**

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WICES (Flow)

Non-Cultures	Cultures	Other Reagents
Spore Trap	1-Media Surface Fungi (Genus ID + Asp. spp.)	Asbestos Analyte - PCM (EPA method 600/R-93-11B)
Spore Swab	2-Media Surface Fungi (Genus ID + Asp. spp.)	Asbestos Analyte - PCM (Alhame Fiber Count (NIOSH 7400))
Spore Bulk	3-Media Surface Fungi (Genus ID + Asp. spp.)	QuantTray - Sewage Screen
	Quantitative Spore Count Direct Exam	MPN Bacteria (specify organism)
	Direct Microscopic Exam (Qualitative)	Membrane Filtration (specify organism)
	Score Trap Analytes - Other particles	Total Coliform, E. coli (Presence/Absence)
	Fungal - Spore Trap Analytes	Gram Stain & Counts (Culturable Air & Surface Bacteria)
		Loponable culture
		Biocassette™, Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plates
		PCR (specify test): CUSTOM LABS/SPORUM ANALYTICAL
		Specify Service PCR 23: Important Indoor

RELINQUISHED BY: **Thomson** DATE & TIME: **9/1/12 19:40**

RECEIVED BY: **[Signature]** DATE & TIME: **9/12/12 5:10**

Drop Box W. Sec 9/12/12 5:10

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