



## EMLab P&K

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Report for:

**Joe Miller**  
**University of Delaware**  
222 S. Chapel St. Room 132  
Newark, DE 19716

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Regarding:      Project: Worriow Hall  
                         EML ID: 408209

Approved by:

Lab Director  
Dr. Douglas Toal

Dates of Analysis:  
Dust characterization: 04-10-2008

Project SOPs: Dust characterization (100239)

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This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements.

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank corrections of results is not a standard practice. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

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Document Number: 200091 - Revision Number: 5

Client: University of Delaware  
 C/O: Joe Miller  
 Re: WorriLOW Hall

Date of Submittal: 04-07-2008  
 Date of Receipt: 04-08-2008  
 Date of Report: 04-10-2008

**PARTICULATE CHARACTERIZATION - DIRECT MICROSCOPIC EXAMINATION REPORT**

Location:	08-96: WorriLOW-3rd floor Alt	08-97: WorriLOW-Dust off filter	08-98: WorriLOW-Filter 3rd Fl.
Comments (see below)	None	None	None
Lab ID-Version‡:	1793024-1	1793025-1	1793026-1
	Percentage (%)†	Percentage (%)†	Percentage (%)†
Algae			
Amorphous debris			
Animal hair			
Carbonaceous particles	12	12	12
Cellulose fibers	15	10	20
Crystalline particles			
Epithelial (skin) cells	15	5	15
Fern, moss, etc.			
Fungal spores	1	1	5
Glass fiber	5	5	3
Gypsum dust	5	5	3
Human hair			
Hyphal fragments			2
Insect parts		26	
Mineral particles	20	12	18
Miscellaneous	5	5	5
Mites			
Other (wood, trichome, etc.)			
Plant matter	5	5	5
Pollen	7	7	5
Soot-like particles			
Starch particles			3
Synthetic fibers	8	5	4
Wood chips	2	2	

**Comments:**

† The percentages reported are approximate values.  
 Interpretation is left to the company and/or persons who conducted the field work.  
 ‡ A "Version" greater than 1 indicates amended data.