



EMLab P&K


Report for:

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

Regarding: Project: Worrilow
EML ID: 363988

Date of Analysis: 11-29-2007 to 11-30-2007

Approved by:


Lab Director
Dr. Douglas Toal

Project SOPs: Dust characterization (100239)

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 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.

Document Number: 200091 - Revision Number: 5

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

Date of Sampling: 11-16-2007
 Date of Receipt: 11-28-2007
 Date of Report: 11-30-2007

PARTICULATE CHARACTERIZATION - DIRECT MICROSCOPIC EXAMINATION REPORT

Location:	07-128: (101 WorriLOW)	07-130: (202 WorriLOW)	07-132: (311 WorriLOW)	07-134: (Outdoor Cont.)
Comments (see below)	None	None	None	None
Lab ID-Version‡:	1593106-1	1593107-1	1593108-1	1593109-1
	Percentage (%)†	Percentage (%)†	Percentage (%)†	Percentage (%)†
Algae				
Amorphous debris				
Animal hair				
Carbonaceous particles	7	5	6	7
Cellulose fibers	30	30	30	25
Crystalline particles				
Epithelial (skin) cells	30	35	35	30
Fern, moss, etc.				
Fungal spores	2	2	2	5
Glass fiber	1	2	1	2
Gypsum dust	1	1	1	1
Human hair				
Hyphal fragments				2
Insect parts				
Mineral particles	9	8	8	7
Miscellaneous	5	5	5	5
Mites				
Other (wood, trichome, etc.)				
Plant matter	5	5	3	7
Pollen	3	2	2	2
Soot-like particles				
Starch particles	3	1	3	1
Synthetic fibers	3	3	3	4
Wood chips	1	1	1	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.

Client: University of Delaware
 C/O: Joe Miller
 Re: Worrilow

Date of Sampling: 11-16-2007
 Date of Receipt: 11-28-2007
 Date of Report: 11-30-2007

PARTICULATE CHARACTERIZATION - DIRECT MICROSCOPIC EXAMINATION REPORT

Location:	07-129: (101 Worrilow)	07-131: (202 Worrilow)	07-133: (311 Worrilow)
Comments (see below)	None	None	None
Lab ID-Version‡:	1593122-1	1593123-1	1593124-1
	Percentage (%)†	Percentage (%)†	Percentage (%)†
Algae			
Amorphous debris			
Animal hair	2	5	1
Carbonaceous particles	7	9	7
Cellulose fibers	20	27	16
Crystalline particles			
Epithelial (skin) cells	20	20	18
Fern, moss, etc.			
Fungal spores	2	1	1
Glass fiber	2	3	3
Gypsum dust	3	2	3
Human hair		1	1
Hyphal fragments			
Insect parts		5	10
Mineral particles	8	7	8
Miscellaneous	3	5	3
Mites			
Other (wood, trichome, etc.)			
Plant matter	5	5	5
Pollen	20	3	18
Soot-like particles			
Starch particles	3	3	2
Synthetic fibers	3	3	3
Wood chips	2	1	1

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.