



# SISC II

SELF-INSURED SCHOOLS OF CALIFORNIA

**PROPERTY & LIABILITY**

October 19, 2012

TO: District Superintendents  
Chief Business Officials  
Maintenance and Operations Directors

FROM: Robert J. Kretzmer  
Director, Property and Liability

SUBJECT: P&L Update - California Department of Public Health Mold Update

Mold can be an issue for school districts. Recently there have been some changes on how mold problems should be addressed according to the California Department of Public Health (CDPH). The attached statement from the CDPH addresses these issues on mold identification and health issues. To access information on mold growth prevention and remediation, go to the SISC Property and Liability website <http://sisc.kern.org/pl/> and click on P&L Updates.

Please contact your Safety and Loss Control Specialist at (661) 636-4604 if you have any questions.

RJK:sh  
Attachment



RONALD CHAPMAN, MD, MPH  
Director

State of California—Health and Human Services Agency  
California Department of Public Health



EDMUND G. BROWN JR.  
Governor

## Statement on Building Dampness, Mold, and Health

September 2011

**CDPH has concluded that the presence of *water damage, dampness, visible mold, or mold odor* in schools, workplaces, residences, and other indoor environments is unhealthy. We recommend against measuring indoor microorganisms or using the presence of specific microorganisms to determine the level of health hazard or the need for urgent remediation. Rather, we strongly recommend addressing water damage, dampness, visible mold, and mold odor by (a) identification and correction of the *source of water* that may allow microbial growth or contribute to other problems, (b) the rapid drying or removal of *damp materials*, and (c) the cleaning or removal of *mold and moldy materials*, as rapidly and safely as possible, to protect the health and well-being of building occupants, especially children.**

Indoor dampness and mold (fungal growth) are common problems in California and worldwide. To date, no clear state or federal policy has been issued on how to assess the health risks that dampness and mold pose to building occupants. In 2001, the Toxic Mold Protection Act (Senate Bill 732, Ortiz\*) mandated that the California Department of Health Services (currently the California Department of Public Health, CDPH) determine the feasibility of setting Permissible Exposure Limits (PELs) for mold in indoor environments. In its 2005 report to the Legislature, CDPH concluded that “sound, science-based PELs for indoor molds cannot be established at this time” and outlined the reasoning by which the department reached that conclusion.

While PELs remain elusive, mounting scientific evidence on dampness and mold, much of it published since 2005, supports an alternate, evidence-based approach to the assessment of health risks from indoor dampness and mold. Human health studies have led to a consensus among scientists and medical experts that the presence in buildings of (a) visible water damage, (b) damp materials, (c) visible mold, or (d) mold odor indicates an increased risk of respiratory disease for occupants. Known health risks include: the development of asthma, allergies, and respiratory infections; the triggering of asthma attacks; and increased wheeze, cough, difficulty breathing, and other symptoms. Available information suggests that children are more sensitive to dampness and mold than adults. In addition, evidence is accumulating, although not yet conclusive, that the more extensive, widespread, or severe the water damage, dampness, visible mold, or mold odor, the greater the health risks.

There also is consensus that the traditional methods used to identify increased mold exposure do not reliably predict increased health risks. Therefore, the current practices for the collection, analysis, and interpretation of environmental samples for mold cannot be used to quantify health risks posed by dampness and mold in buildings or to guide health-based actions.

Finally, current consensus does not justify the differentiation of some molds (such as *Stachybotrys* species) as “toxic molds” that are especially hazardous to healthy individuals. The presence of molds such as *Stachybotrys* that grow only on very wet materials might be interpreted as demonstrating damp conditions that could place occupants at increased risk. However, the only types of evidence that have been related consistently to adverse health effects are the presence of current or past water damage, damp materials, visible mold, and mold odor, *not* the number or type of mold spores nor the presence of other markers of mold in indoor air or dust.

Our goal in issuing this notice is to increase awareness of the hazards from indoor dampness and mold and to reduce exposures to these hazards. The following are recent publications that support our positions on the assessment of health risks and the remediation of dampness and mold:

- (1) Mendell MJ, Mirer AG, Cheung K, Tong M, Douwes J. Respiratory and allergic health effects of dampness, mold, and dampness-related agents: a review of the epidemiologic evidence. *Environmental Health Perspectives*, 2011, doi:10.1289/ehp.1002410; available at <http://ehp03.niehs.nih.gov/article/fetchArticle.action?articleURI=info%3Adoi%2F10.1289%2Fehp.1002410>.
- (2) World Health Organization. *WHO Guidelines for Indoor Air Quality: Dampness and Mould*. Copenhagen: WHO Europe, 2009 (see Chapter 4, Health effects associated with dampness and mould); available at [www.euro.who.int/\\_data/assets/pdf\\_file/0017/43325/E92645.pdf](http://www.euro.who.int/_data/assets/pdf_file/0017/43325/E92645.pdf).
- (3) Institute of Medicine. *Damp Indoor Spaces and Health*. Washington, D.C.: National Academies Press, 2004; available at [www.nap.edu/openbook.php?isbn=0309091934](http://www.nap.edu/openbook.php?isbn=0309091934).
- (4) Krieger J, Jacobs DE, Ashley PJ, et al. Housing interventions and control of asthma-related indoor biologic agents: A review of the evidence. *Journal of Public Health Management and Practice*, 2010, 16(5):S11–S20; available at [www.bu-eh.org/uploads/Main/Sandel\\_HousingInterventions.pdf](http://www.bu-eh.org/uploads/Main/Sandel_HousingInterventions.pdf).
- (5) U.S. Environmental Protection Agency. *Mold Remediation in Schools and Commercial Buildings*. Washington, D.C.: USEPA; available at [www.epa.gov/mold/mold\\_remediation.html](http://www.epa.gov/mold/mold_remediation.html).

**Background note:** *Building dampness degrades indoor environmental quality in many ways. Mold growth is perhaps the most common and noticeable result of excessive or chronic indoor dampness. Molds are fungi (as are mushrooms and yeasts). To grow and reproduce, molds need only moisture and nutrients. As nutrients are almost always available from organic material (e.g., leaves, wood, paper, and dirt), the presence or lack of moisture generally is what allows or limits mold growth. In addition to mold, indoor dampness can support bacterial growth and contribute to infestations of house dust mites, cockroaches, and rodents, which also pose health risks for building occupants. Moisture also may alter the chemistry of damp materials. Hence, while excessive or chronic dampness is not by itself a cause of ill health, it may indicate or increase other exposures that do have adverse health effects.*

\*Information on SB 732, the 2005 CDPH report to the legislature, and the 2008 update to the report are available at [www.cdph.ca.gov/programs/IAQ/Pages/IndoorMold.aspx](http://www.cdph.ca.gov/programs/IAQ/Pages/IndoorMold.aspx).