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An Exploratory Review of the Effects of Toxic Mold on Real Estate Values

CONSTRUCTION DEFECTS AND STIGMA

Published in

Mealey's Construction Defects

July, 2003

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Abstract

Properties suffering from construction defects exhibit a diminution in value resulting from b

the actual cost to cure as well as the residual stigma losses. In the unremediated state, the su

This article reports comes of ten litigated toxic mold cases; a tingent valuation (CV)

nalysis of toxic mold in

uth Carolina; and mold

Greenfiel Advisors

Economic Market and Valuation Analysts by Robert A. Simons, PhD, and Ron Throupe, PhD

John A. Kilpatrick, Douglas C. Brown, MAI, and Ronald C. Rogers, PhD

The Performance of Exterior **Insulation Finish Systems** and Property Value

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Chinese Drywall

A Greenfield Advisors White Paper

John A. Kilpatrick, Ph.D., MRICS and Christopher A. Miner, MAI June 5, 2009

The Chinese Drywall issue is rapidly unfolding, and Greenfield Advisors has been tracking the issues since they first came to light. The following is based on the best information available to date, which is believed to be

In 2005, a spike in housing construction appeared in the southeastern United States as a result of major hurricanes in the previous year

As homes from 2006 began to built with this Chinese dry manifest problems, notably ro smells and corroding copper p heat exchanger coils, and wiring. Scores of lawsuits have people noticed the pattern as conclusion that the Chines contaminated and defective.

nsulation finish systems, or synthetic stucco, is a siding material used arter of a million residences and several thousand commercial buildne United States, Canada, and Europe. EIFS use has been linked with

Bill Mundy, MAI, PhD

The Impact of Hazardous **Materials on Property Value**

Public opposition to the handling, storage, or disposal of hazardous materials in proximity to human or wildlife populations is high. How to safely deal with such hazardous materials is thus becoming a significant national issue. The impact of hazardous materials on property value is difficult to measure, however. While some models of real and perceived risk exist, to integrate them with actual market behavior is problematic. A theory of how contamination influences value that incorporates the damage related to lost income as well as the damages incurred by the lost opportunity to fully use a property is presented in this article. In addition, the lost opportunity to fully use a property is presented in this article. In addition, the effects of both the uncertainty concerning a particular hazard and the persistence of a perceived risk over time and distance are considered.

 ${f T}$ he issue of the safe handling, ${f T}$ his is especially true if a property storage, and disposal of hazardous

is in proximity to a generating



Economic, Market and Valuation Analysts

- What does the appraisal literature tell us about stigma?
- 2. What is the operative relationship between engineering/architecture work and appraisal?
- 3. What are the current valuation issues? What's on the horizon?



Why Appraisal?

- → Are engineering claims "trumped" by market value arguments?
- → Pre- and post-remediation stigma



Stigma? For example....

- Perceptions of risk
- Incurable aspects of the deterioration
- Market perceptions
- Increased monitoring/bonding costs
- Increased required rate of return (for commercial properties)



Dangers to unschooled appraisers –

Appraisers held liable to homeowners (American Law Review, 1983, 2002)

Appraisers required to indemnify lenders (University of Illinois Law Review, 1984)



Empirical Evidence -- residences

Pre-remediation – homes may be utterly unmarketable

Post-remediation – discounts ranging to 30% to 40% or even more



Empirical Evidence – commercial property

Rapid cost/benefit analysis
Increase in cap/discount rate



Is stigma compensable?

Alfert, et. al, (2005, Florida Bar Journal)

Mayer v. Sto

Loss in value caused by structural or geotechnical problems must take into account the cost to repair the damages and the residual loss in value after the repairs—

— Sanders, writing in the Appraisal Journal, 1996



and Valuation Analysts

Current/Future Trends

Green Buildings
Impact of the credit market melt-down



- Dr. John Kilpatrick is an economist and the Managing Partner of Greenfield Advisors, specializing in economic market and valuation analysis, principally in real estate matters, headquartered in Seattle.
- Dr. Kilpatrick holds a Ph.D. in Finance from the University of South Carolina, where he also taught Real Estate and Corporate Finance in the Moore School of Business. He served as the founding Administrator of the South Carolina Supercomputer Network and as the Secretary/Treasurer of the Academic Coalition for Intelligent Manufacturing Systems, based in Washington, DC.
- Dr. Kilpatrick is the author of four books and numerous journal articles. He is a frequent speaker before national groups, including the U.S. Senate Subcommittee on Science, Technology, and Space and the National Trust for Historic Preservation. His work in real estate finance has been the subject of recent articles in the New York Times, the Boston Globe, and the Wall Street Journal. He is the author of the forthcoming chapter on Brownfield Valuation in the Lexis-Nexis Matthew Bender's Brownfield Law and Practice. In 2001, the National Park Service honored Dr. Kilpatrick by producing a monograph summarizing his work in the valuation of historic neighborhoods.
- His recent clients include the U.S. General Services Administration, the Hearst Family, the Japan Real Estate Institute, and numerous private investors, corporations, university endowments, trusts, and law firms. Among his other honors, Dr. Kilpatrick is a member of the Faculty of Valuation of the Royal Institution of Chartered Surveyors (UK) and is featured in the 2006 edition of Who's Who in America.

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