



**US Army Corps  
of Engineers®**  
Engineer Research and  
Development Center

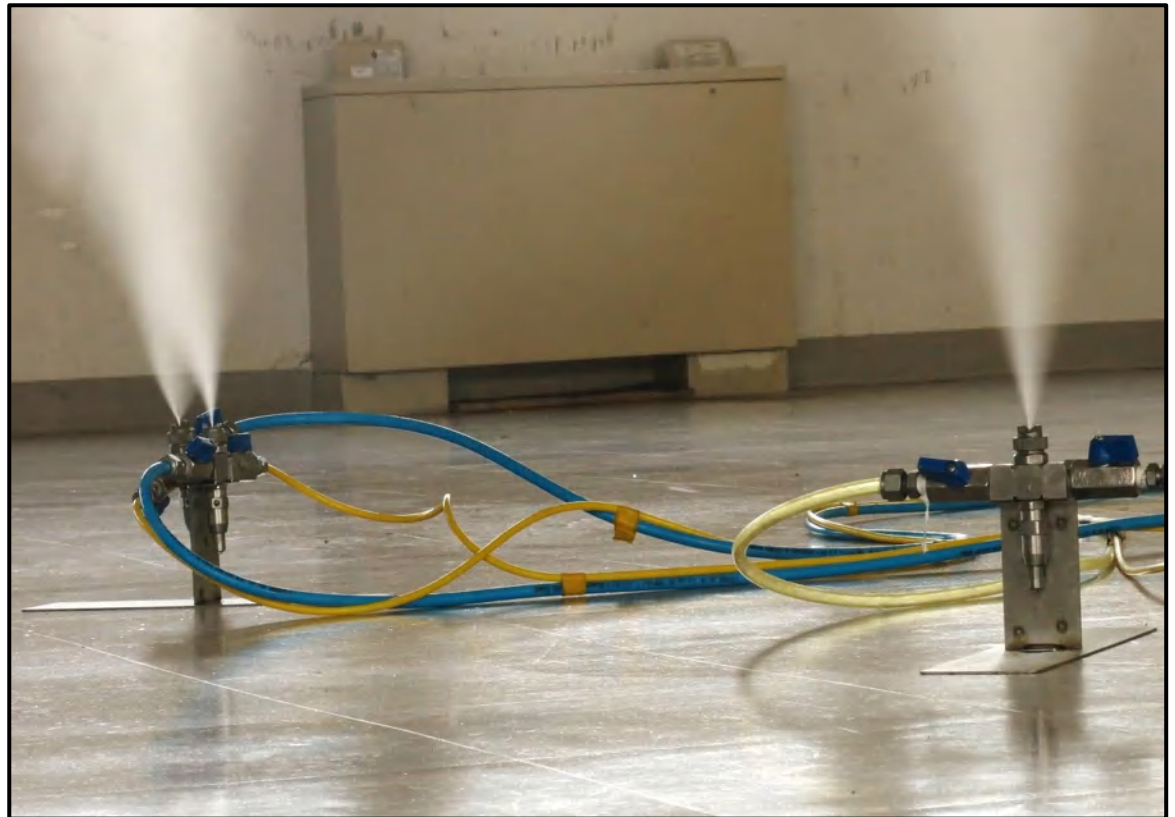
**ERDC**  
INNOVATIVE SOLUTIONS  
for a safer, better world

*FY-17 Installation Technology Transfer Program*

## **Performance Testing of a Novel Dry-Fog Mold Remediation and Prevention Process**

Shane D. Hirschi and Dale L. Herron

**DRAFT** - October 2017



# PURE MAINTENANCE DRY FOG PREVENTS FUTURE MOLD GROWTH

The Two-step novel dry fog process used exclusively by Pure Maintenance was applied in two buildings at Fort Campbell, KY Army Base in 2017.



Figure 2. Fort Campbell cantonment area showing demonstration locations.

Two air quality samples were taken at 5 different points in time, for a total of 10 air quality tests. The **blue bars** below represent the #of mold spores per cubic meter found from indoor air quality samples taken inside Building 2261. The **orange bars** represent the #of mold spores per cubic meter found in outdoor air quality samples that were taken immediately outside of Building 2261.

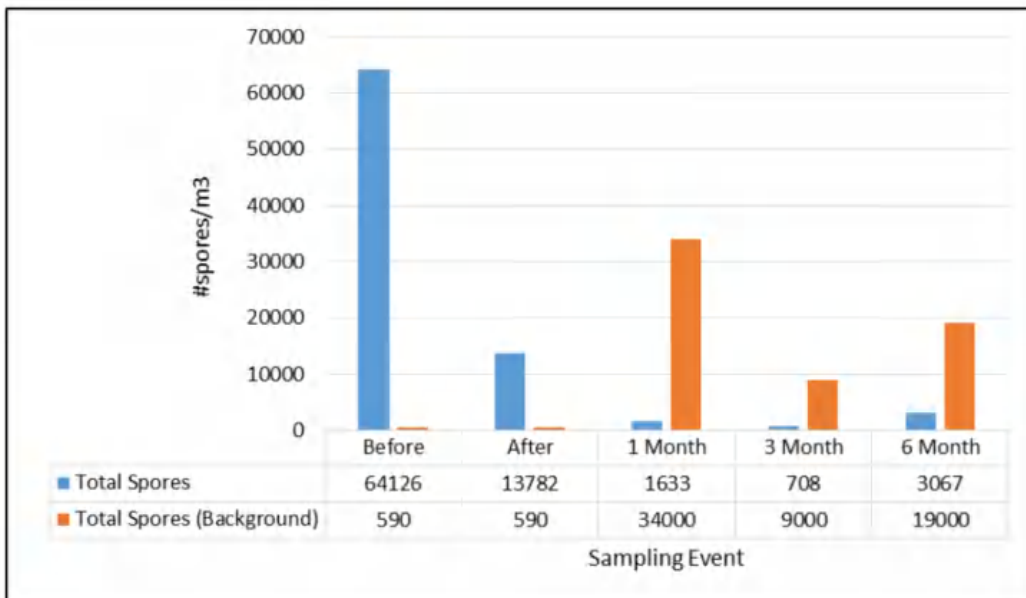


Figure 22. Bldg 2261 - Total Spores vs Total Spores (background)

## **CONCLUSION**

**Pure Maintenance's dry fog treatment provides ongoing protection and ongoing-kill for ~90 days after initial treatment.**

**The U.S. Army Engineer Research and Development Center (ERDC)** solves the nation's toughest engineering and environmental challenges. ERDC develops innovative solutions in civil and military engineering, geospatial sciences, water resources, and environmental sciences for the Army, the Department of Defense, civilian agencies, and our nation's public good. Find out more at [www.erdclibrary.usace.army.mil](http://www.erdclibrary.usace.army.mil).

To search for other technical reports published by ERDC, visit the ERDC online library at <http://acwc.sdp.sirsi.net/client/default>.

**We will provide the full 44-page report upon request**