

**Minutes of the  
U.S. Environmental Protection Agency  
Hypoxia Advisory Panel  
Subgroup #3 (Scientific Basis for Goals and Management Options)  
Public Meeting  
October 30, 2006**

Committee Members: Dr. Cathy Kling  
Dr. Bill Crumpton  
Dr. Clifford Snyder  
Dr. James Opaluch  
Dr. Tom Simpson

Date and Time: October 30, 2006

Purpose: To discuss advisory work related to the scientific basis for goals and management options with respect to controlling hypoxia in the Gulf of Mexico.

SAB Staff: Dr. Holly Stallworth, Designated Federal Officer  
Dr. Thomas Armitage  
Dr. Anthony Maciorowski  
Dr. Tom Armitage  
Dr. Mary Belefski

Other EPA Staff: Mr. Ken Teague, Ms. Barb Walton

Other: Mr. David Wangsness, United States Geological Survey

**Meeting Summary**

The discussion followed the issues and general timing as presented in the meeting agenda. Dr. Stallworth convened the meeting and explained the Hypoxia Advisory Panel (HAP) will operate under the Federal Advisory Committee Act. Dr. Kling reviewed the purpose of the teleconference as well as the agenda.

Members discussed their expertise in relation to the Hypoxia Advisory Panel's charge questions posted at [http://www.epa.gov/sab/panels/hypoxia\\_adv\\_panel.htm](http://www.epa.gov/sab/panels/hypoxia_adv_panel.htm). One member spoke about a number of new technologies that could be helpful in reducing runoff into the Mississippi River Basin, e.g. remote sensing, chlorophyll meter measurements, basal stalk nitrogen tests, variable rate irrigation and fertigation. An issue was raised about whether Subgroup #3 should cover point source loadings in its advice and what information was available on industrial and municipal point sources. Dr.

Stallworth pledged to check into this with EPA's Office of Watersheds, Oceans and Wetlands.

Members spent considerable time discussing particular topics (e.g. tile drainage, effects on living resources) they planned to cover in their draft advice. Consideration was given to possible duplication or synergies in the areas chosen by each member. Dr. Kling urged members to submit an outline of their particular topics to be covered in draft advice by November 13, 2006. It was decided that once subgroup members could see each others' outlines, delegating responsibilities or encouraging members to pool their expertise in particular areas would be much easier.

On Behalf of the Panel,  
Respectfully Submitted,

Holly Stallworth, Ph.D.  
Designated Federal Officer

Certified as True:

Cathy Kling, Ph.D.  
Leader, Hypoxia Advisory Panel Subgroup #3