

**Preliminary Comments from Members of the EPA Science Advisory Board  
(SAB) Panel for the Review of EPA's Hydraulic Fracturing Study Plan**

**As Of May 18, 2011**

**COMMENTS FROM DR. PHILLIP GSCHWEND**

**Comments to 4/28/11 Draft SAB Report on the Review of EPA's Draft Hydraulic  
Fracturing Study Plan**

From: Philip M Gschwend

To: Edward Hanlon

Date: 05/17/2011 05:38 PM

Subject: RE: Reminder re: followup regarding revised draft Report of SAB's Review of EPA's  
Draft Hydraulic Fracturing Study Plan and next week's teleconference

just a few comments:

p2/line 32-33 "... not generalize ... HF activity" seems too strong. I would expect some  
aspects may be generalizable; and I think text in main body expresses this better.

p2/line 42 "...impacts on a national level" do you mean to say "widespread impacts" as  
opposed to effects on the whole nation?

p3/line 1-3 "Gather currently available ... including proprietary information..." If available,  
then not proprietary! Suggest restating to indicate need for gathering BOTH currently available  
AND perhaps more importantly proprietary info...

p13/line 42-43 "formation chemicals...surfactants, biocides" these are not formation  
chemicals, but rather HF fluid additives.

p14/line37-38 "primary opportunity...surface waters" not sure I agree. Expect rural  
groundwater wells could be at risk where relatively shallow coal beds are HF'ed.

all for now.

Phil,