

Technical Workshop on Case Studies to Assess Potential Impacts of Hydraulic Fracturing on Drinking Water Resources July 30, 2013

US EPA Research Triangle Park Campus
“C” Building Auditorium
Research Triangle Park, North Carolina

Final Agenda

8:00 am	Registration/Check-in	
8:30 am	Welcome and Introductions	<i>Ramona Trovato, US EPA Glenn Paulson, Science Advisor, US EPA</i>
8:40 am	Opening Remarks	<i>Ramona Trovato, US EPA</i>
8:45 am	Brief Overview of EPA’s Study of the Potential Impacts of Hydraulic Fracturing on Drinking Water Resources	<i>Jeanne Briskin, US EPA</i>
8:50 am	Purpose of Workshop	<i>Workshop Co-Chairs: Cynthia Sonich-Mullin, US EPA Timothy Fields, MDB, Inc.</i>
 Session 1: Background Assessment and Characterization		
9:00 am	Panel:	
	▪ Update on EPA’s Retrospective Case Studies	<i>Rick Wilkin, US EPA</i>
	▪ Baseline Water Quality Characterization At Four US EPA Restrospective Case Study Areas	<i>Tad Fox, Battelle Memorial Institute</i>
	▪ Evaluation of Water Quality Monitoring Programs and Statistical Analysis Tools to be Utilized in Shale Development	<i>Uni Blake, Hometown Energy Group</i>
	▪ Surface Water and Stray Gas Shallow Aquifer Contamination	<i>Avner Vengosh, Duke University</i>
	▪ Designing a Retrospective Hydraulic Fracturing Case Study	<i>George Lukert, Ecology and Environment, Inc.</i>
	Questions of Clarification	
	Break (10 minutes)	
	Facilitated discussion among workshop participants focusing on key questions:	
	– What are the relative strengths of different approaches to assess background conditions?	
	– What are practical approaches to overcoming the challenges in developing a representative background assessment and characterization for a case study?	
12:45 pm	Summary of Session 1	<i>Workshop Co-Chairs</i>
1:00 pm	Lunch	

Session 2: Prospective Case Studies

2:00 pm

Panel:

- **Update on EPA's Prospective Case Studies***Jeanne Briskin, US EPA*
- **Geophysical Characterization and Borehole Geophysical Logging Tools to Aid Monitoring Well Placement and Completion** *Ron Sloto, USGS*
- **Groundwater Monitoring for EPA Prospective Study Site***Daniel Soeder, NETL*

Questions of Clarification

Break (10 minutes)

Facilitated discussion among workshop participants focusing on key questions:

- What types of conditions, tests, monitoring, sampling, and analysis are needed to assess impacts from hydraulic fracturing processes on drinking water in a prospective case study, and why?

- What approaches can be used in situations where historic and/or ongoing industrial practices (e.g., mining, oil, gas, agriculture, etc.) may confound assessment of impacts of hydraulic fracturing processes on drinking water resources?

4:45 pm

Summary of Session 2.....*Workshop Co-Chairs*

4:50 pm

Closing Remarks..... *Ramona Trovato, US EPA*

5:00 pm

Adjourn