

# Technical Follow-up Discussion on Subsurface Modeling

June 3, 2013

US EPA Conference Center at One Potomac Yards

Arlington, VA

## June 3:

8:00 am Registration/Check-in

8:30 am **Welcome and Introductions** ..... *Ramona Trovato, US EPA*  
*Glenn Paulson, Science Advisor, US EPA*

8:40 am **Purpose of Discussion** ..... *Workshop Co-Chairs:*  
*Jennifer Orme-Zavaleta, US EPA*  
*Kris Nygaard, ExxonMobil Production Company*

8:50 am **Session 1: Subsurface Scenarios: What are we trying to model?** ..... *Stephen Kraemer, US EPA*  
*George Moridis, Lawrence Berkeley National Laboratory*

Presentation and discussion with participants:

- Review the subsurface scenarios under study
- How, why did EPA select the current set of modeling scenarios?
- What are the explicit and implicit scenario assumptions?
- What pros and cons of the scenarios do the participants see?
- What other, different scenarios would participants recommend we consider?
- What scenarios does industry typically model?

10:30 Break

10:45 am **Session 2: Modeling Subsurface Scenarios: How do we do this?** ..... *George Moridis,*  
*Lawrence Berkeley National Laboratory*

Presentation and discussion with participants:

- Review the TOUGH+ code: grid generation, force modeling
- Explicit and implicit modeling assumptions
- History, applications of code in other settings (Yucca, CO<sub>2</sub> sequestration, other)
- Linkages back to the scenarios under study
- Are there different models/approaches EPA should consider?
- How does industry conduct modeling to address subsurface scenarios?

12:00 pm Lunch

1:00 pm **Continue Session 2: Modeling Subsurface Scenarios: How do we do this?** ..... *George Moridis,*  
*Lawrence Berkeley National Laboratory*

Discussion with participants

3:00 pm Break

3:10 pm **Wrap-up and Summarize Main Discussion Points**

4:00 pm Adjourn