

“Front End” CSM

Status and Path Forward

August 2005

“Front End” CSM

Definition

- CSM aspects up to and including MeHg inventory and production.
- Focus on sources of bio-available inorganic mercury.
- Focus on MeHg production locations.
- Focus on inventory vs. production aspects.
- Stops short of food chain.

Front End CSM Priority Questions

Through MeHg Production/Migration - Ex Foodchain

- What portions of MeHg down-river trend in SW are derived from current production vs inventory?
- Where is the MeHg factory(s)?
- Where does any factory(s) get its inorganic Hg feed?
- How bio-available is the inorganic Hg derived from soil extraction into water?
- Is shallow GW a source of THg/MeHg to SW?

Proposed FE Activities

September 2005

- “Concurrent sampling” , USGS-DEQ-Studio G for THg, MeHg
- “Bridge-Trib” SW sampling, adding shallow sediment composite for THg and MeHg. Grain size control?
- Floodplain soil cores for THg & MeHg. Scouting.
- Additional transects for near-bank/bottom sources.
- Scouting shallow GW methods - drive point, hand auger, etc. Waynesboro-Hopeman property?
- Floodplain/eroded bank samples for sequential extraction.
- Follow-up on McGeheysville dam sediments and SW
- 1-3 location storm tracking - full hydrograph.
 - Preparation - complete as opportunity presents

Note: Work plan for Sept to be submitted for final approval!