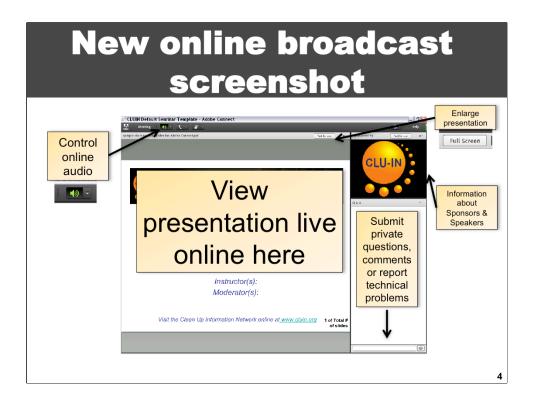


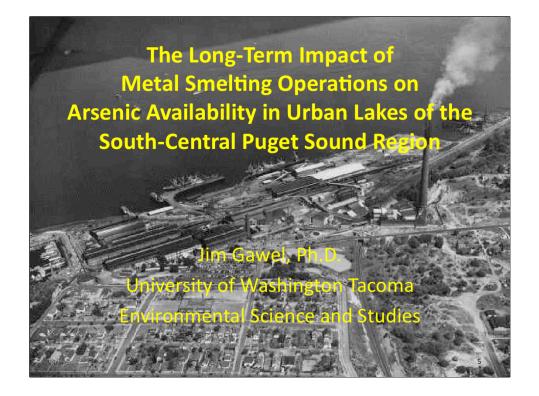
Although I'm sure that some of you have these rules memorized from previous CLU-IN events, let's run through them quickly for our new participants.

Please mute your phone lines during the seminar to minimize disruption and background noise. If you do not have a mute button, press *6 to mute #6 to unmute your lines at anytime. Also, please do NOT put this call on hold as this may bring delightful, but unwanted background music over the lines and interupt the seminar.

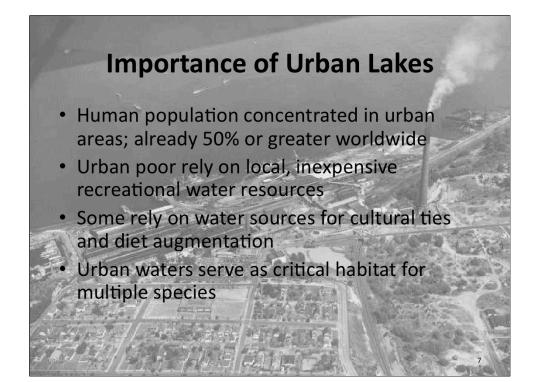
You should note that throughout the seminar, we will ask for your feedback. You do not need to wait for Q&A breaks to ask questions or provide comments. To submit comments/questions and report technical problems, please use the ? Icon at the top of your screen. You can move forward/backward in the slides by using the single arrow buttons (left moves back 1 slide, right moves advances 1 slide). The double arrowed buttons will take you to 1st and last slides respectively. You may also advance to any slide using the numbered links that appear on the left side of your screen. The button with a house icon will take you back to main seminar page which displays our agenda, speaker information, links to the slides and additional resources. Lastly, the button with a computer disc can be used to download and save today's presentation materials.

With that, please move to slide 3.









Urbanization & Arsenic Pollution

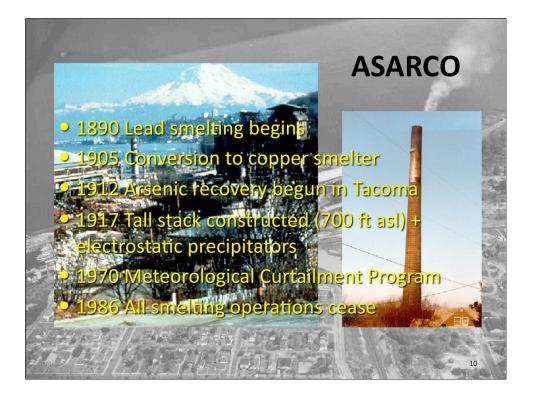
- Lake sediments act as As reservoirs after external source removal
- If remobilized periodically As may migrate to surface sediments

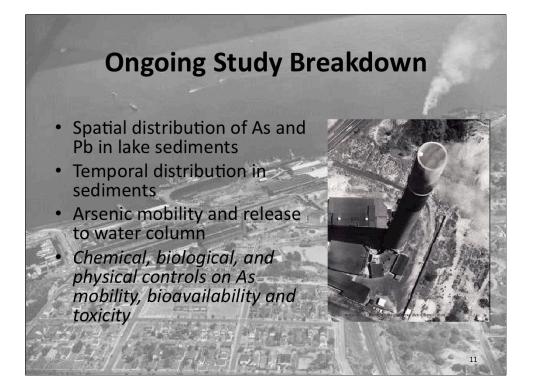
Cultural eutrophication can exacerbate As release from sediments

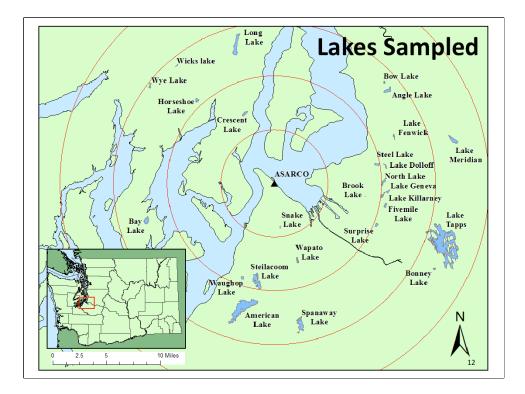
 Other anthropogenic inputs may affect As mobility (e.g. road salt, nitrate and phosphate)

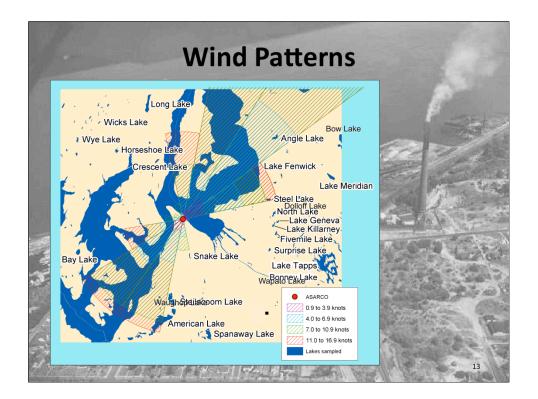
Major Sources of Arsenic in Lakes

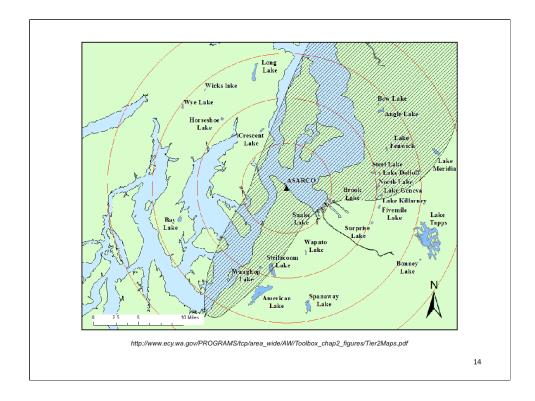
- Herbicide applications in lakes
- Fruit orchard insecticides
 [Paris Green 3Cu(AsO₂)₂:Cu(C₂H₃O₂)₂]
- Chemical manufacture
- Timber treatment [CCA]
- Mine tailings and drainage
- Smelting
 - Air emissions
 - Slag disposal

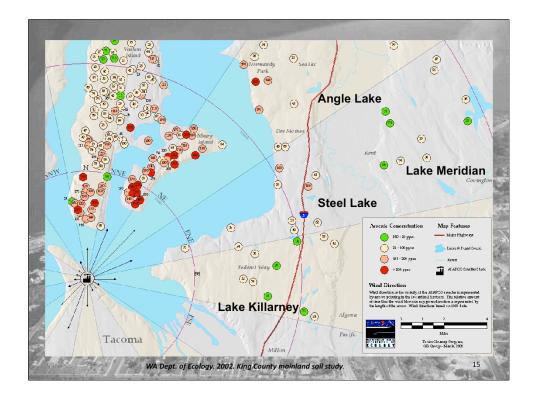


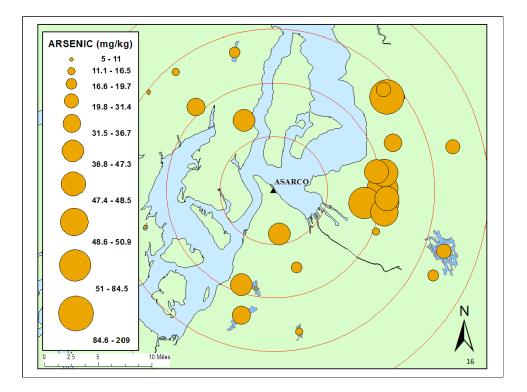


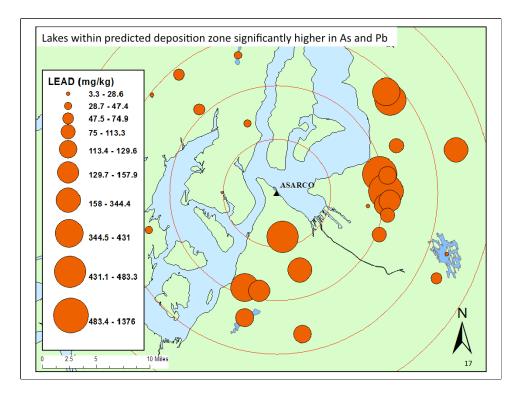


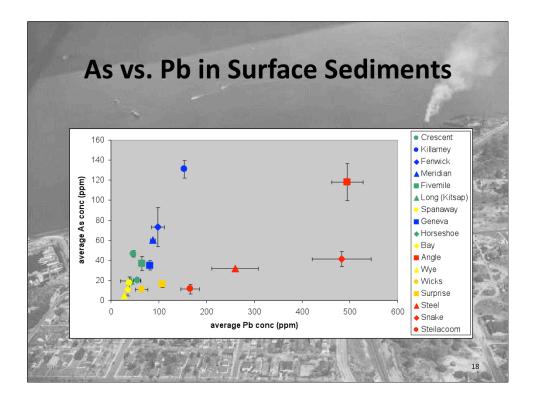


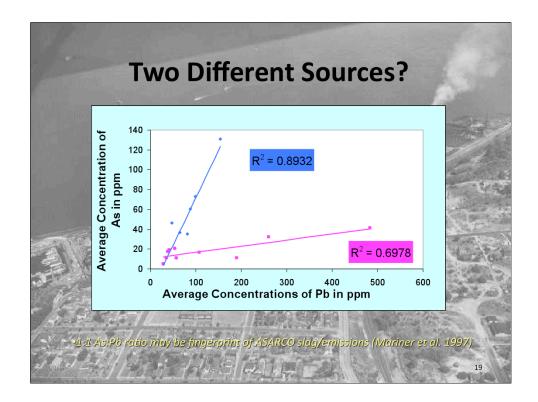




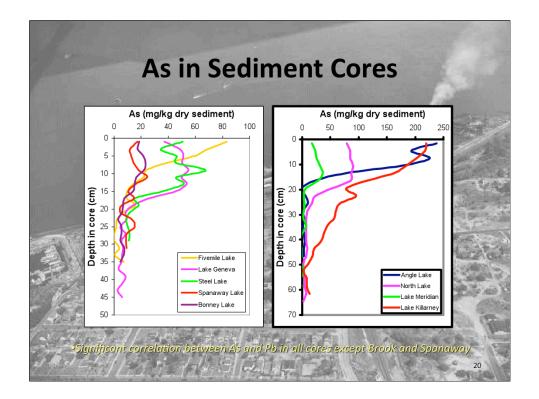


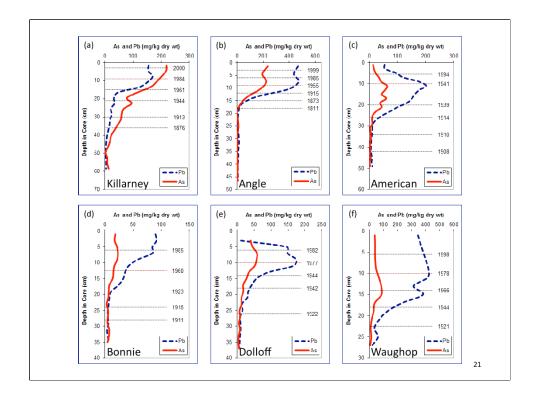


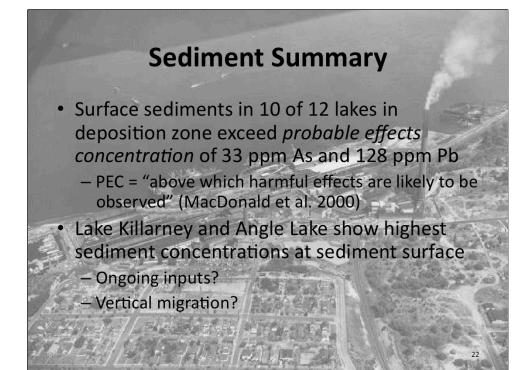


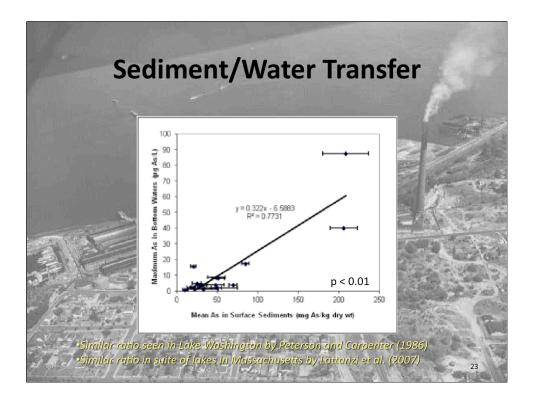


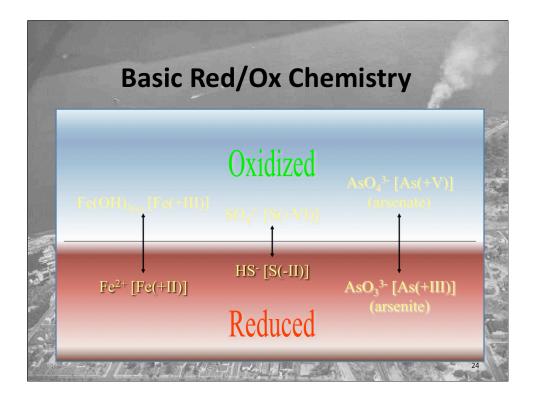
Slag deposition or atmospheric transport or road runoff influences?

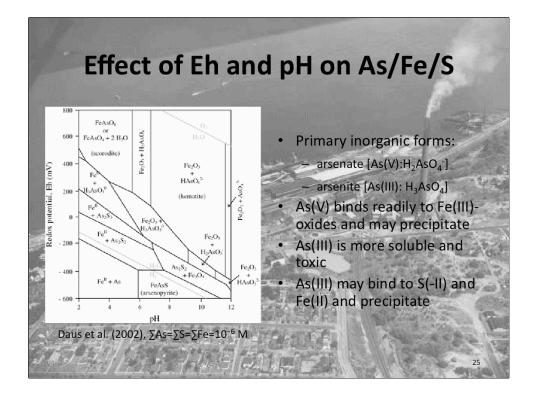


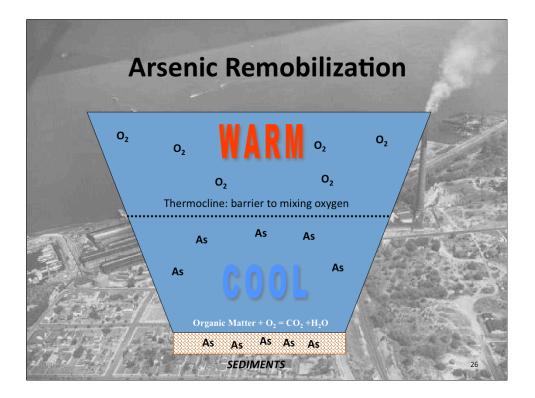


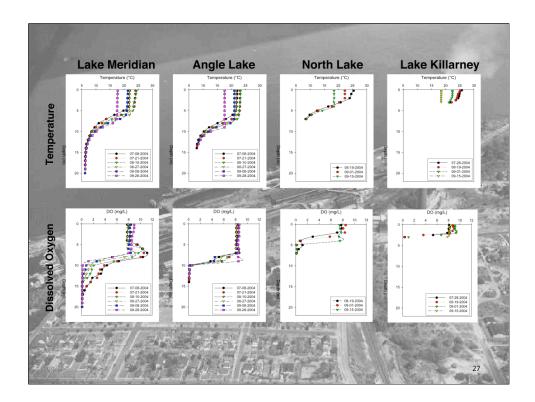


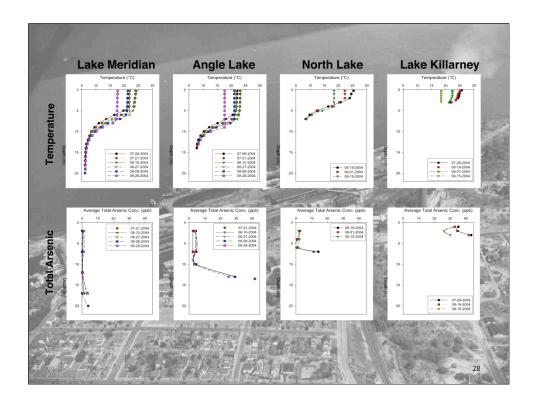


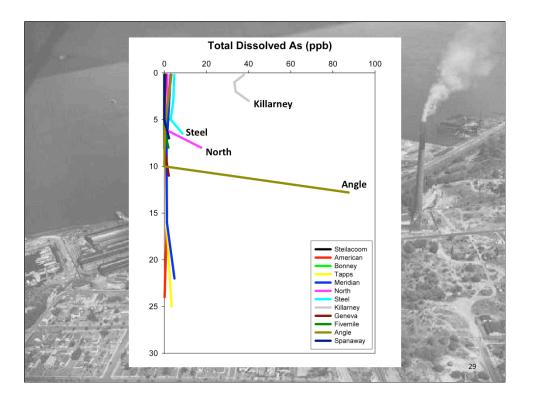


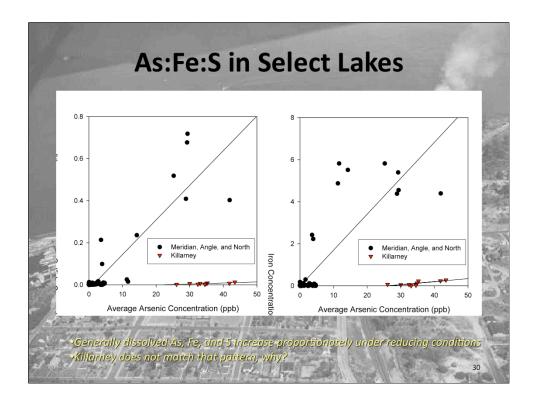


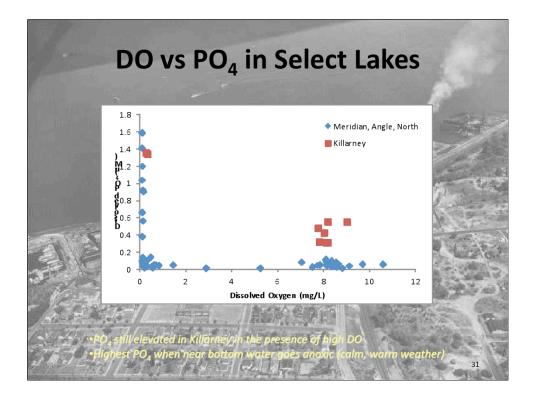


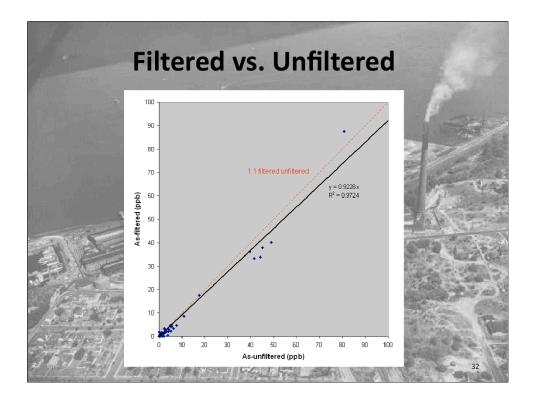


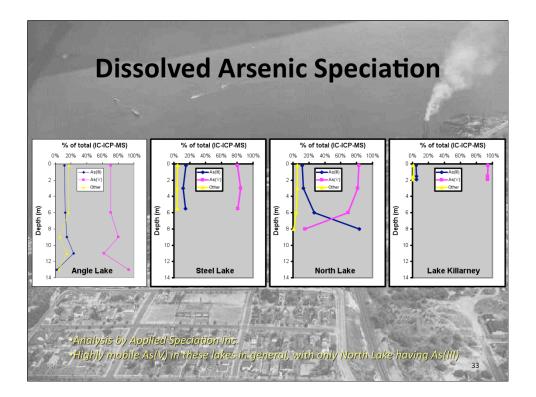


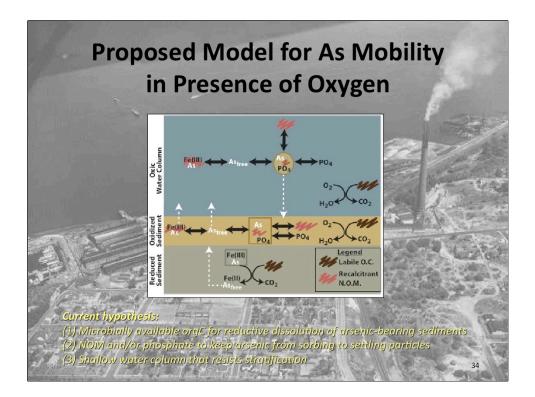


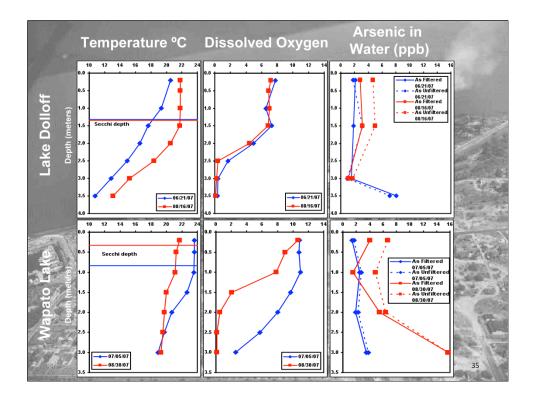


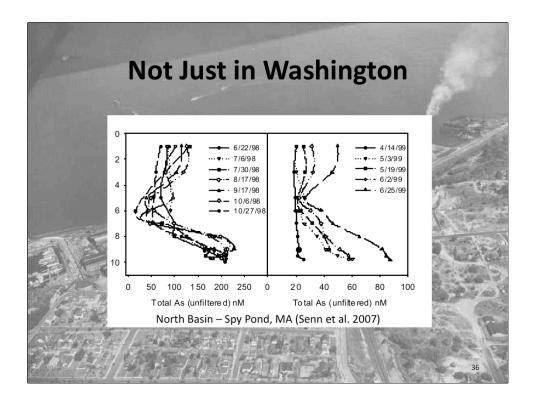










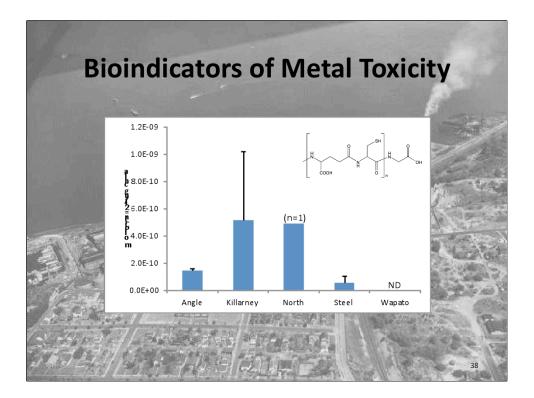


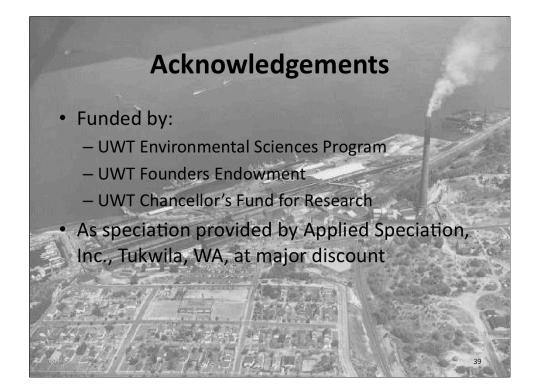
Questions to Address in Research

- What is the mix of water quality parameters to measure to predict As mobility in urban lakes?
- Does the presence of high levels of dissolved As in surface waters increase biotic uptake by phytoplankton, zooplankton, and fish?

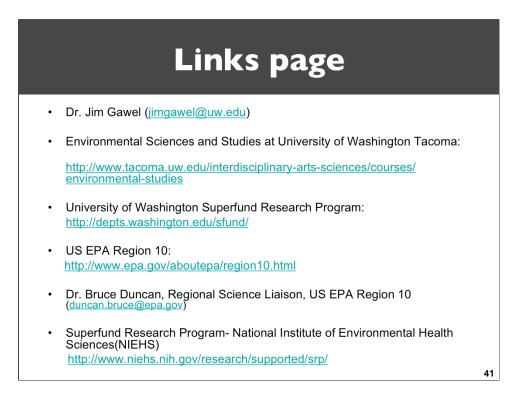
• Would fish bioaccumulation become an issue under these conditions?

• How might this be important to freshwater sediment criteria development?











Thank you for your time!	
Please click here to give the UW-SRP your feedback!	
Image: State Stat	7 1
Katie Frevert, University of Washington Superfund Research Program (UW-SRP) <u>kfrevert@u.washington.edu</u> Tel (206)685-5379 43	

Thank you again for your attention and comments. I want to remind each of you that we are looking for your specific responses to many of the issues discussed today in our feedback form following this session. Also, there are several resources and related documents included in the links to more resources on this page.

If you have any additional questions or comments, please feel free to contact myself or fill out a comment form on CLUIN.

Thank you and have a great afternoon.