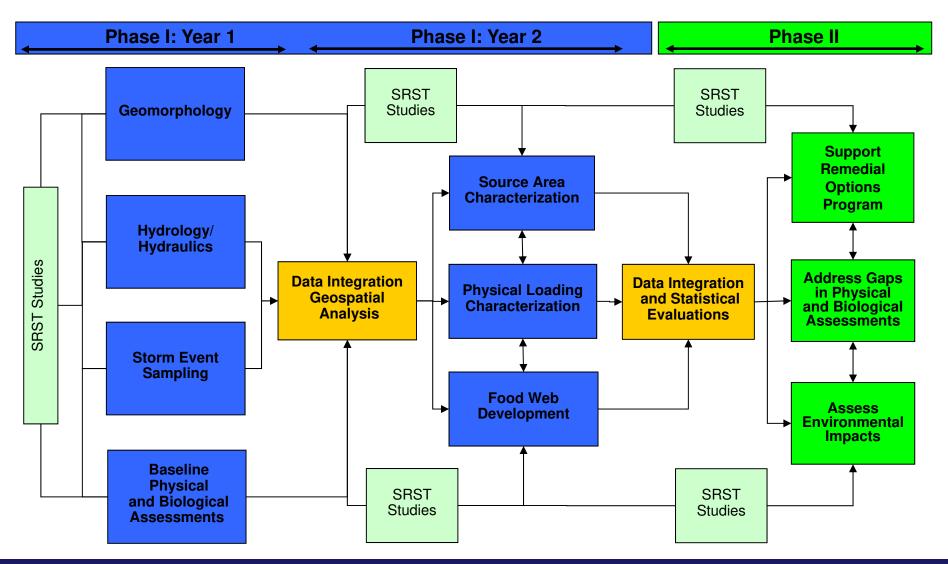


Ecological Study Phase II Progress Update Expert Panel Meeting: October 7, 2009





Overview: Ecological Study





Phase II Study Plan Elements Completed in 2009

- 1. Physical and Biological Loading Mechanisms
 - Pore water Physical Loading
 - Asian Clam Transplant Study
 - Aquatic Insect Metamorphosis and Mercury Transfer
- 2. Phase II Baseline Monitoring for Surface Water and Tissue
 - Baseline Surface Water Monitoring
 - Bass Tissue Monitoring



Pore Water Physical Loading

- Sample collection events in June and July for IHg and MeHg
- Sample collection in August for THg
- Data evaluations underway to combine data sets for additional analysis and perform mass balance calculations





Asian Clam Transplant Study

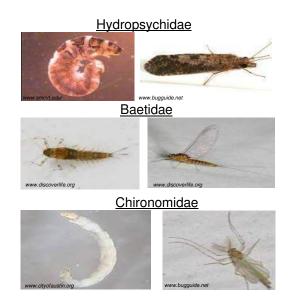
- Statistical evaluations for May data completed
- August study experienced significant transplant mortality at study and reference areas
- In August collected seeded clams from May study along with resident clams for evaluation





Aquatic Insect Metamorphosis and Mercury Transfer





- May data show differences in MeHg body burdens for larvae and adult insects
- August data collections were coordinated with VIMS to evaluate insects at two additional stations

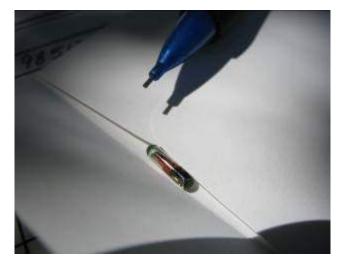


Bass Tissue Monitoring

Progress

- 146 bass sampled in May:
 - 36 at Constitution Park (RRM 0.1), 32 at Augusta Forestry Center (RRM 11.8), and 78 at Grottoes Town Park (RRM 19.5)
- 84 bass sampled in September
 - 29 at Constitution Park (RRM 0.1), 26 at Augusta Forestry Center (RRM 11.8), and 29 at Grottoes Town Park (RRM 19.5)
- Eight fish were re-captured in September (5.5% of May tagged fish) and were in good condition with complete healing of the tissue biopsy sampling location







Ecological Study Path Forward

- Continuing to evaluate physical and biological data
- Preparation for Sediment Effects Study (Triad) in 2010
- Next meeting with NRDC in December 2009

