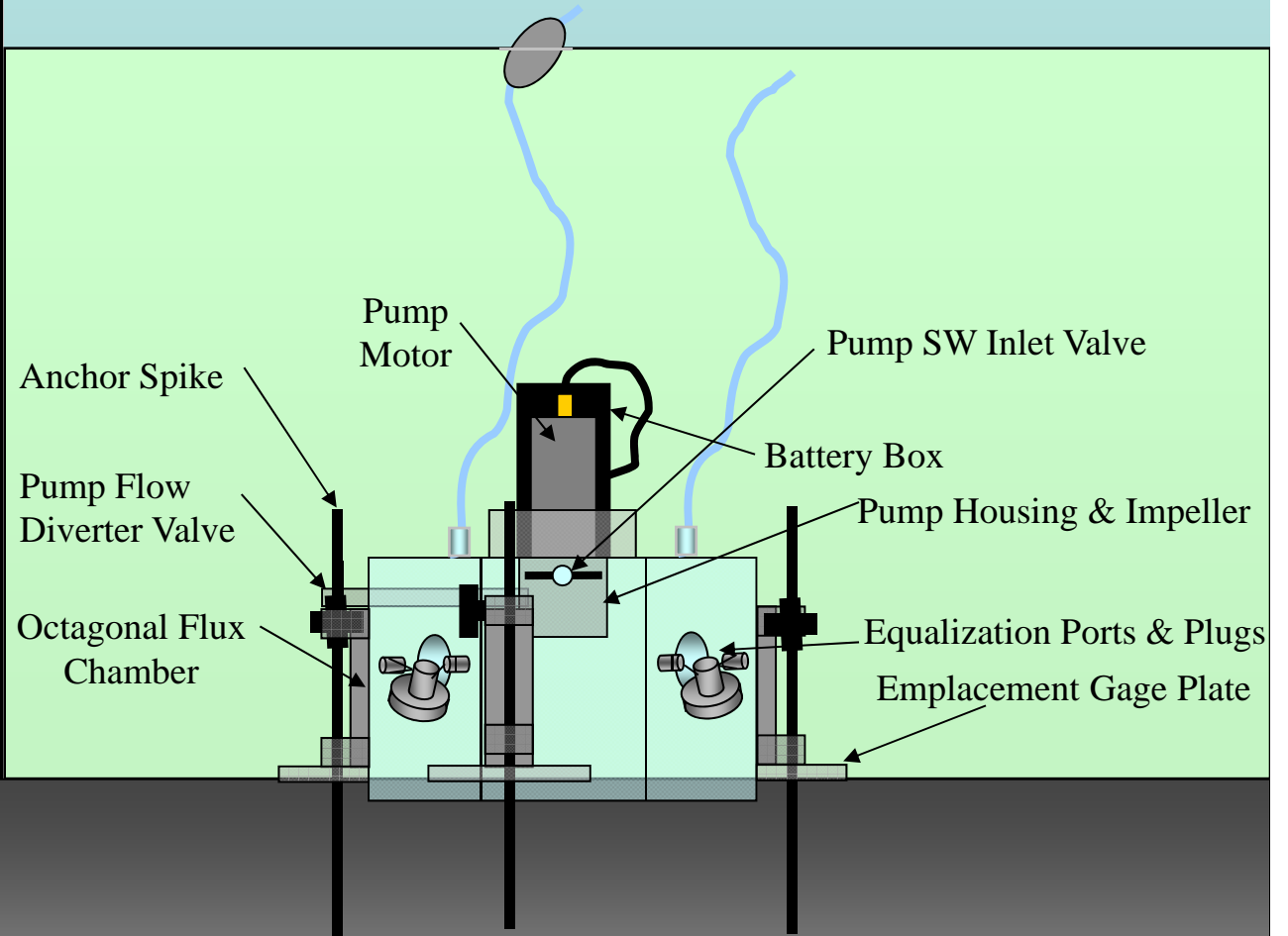




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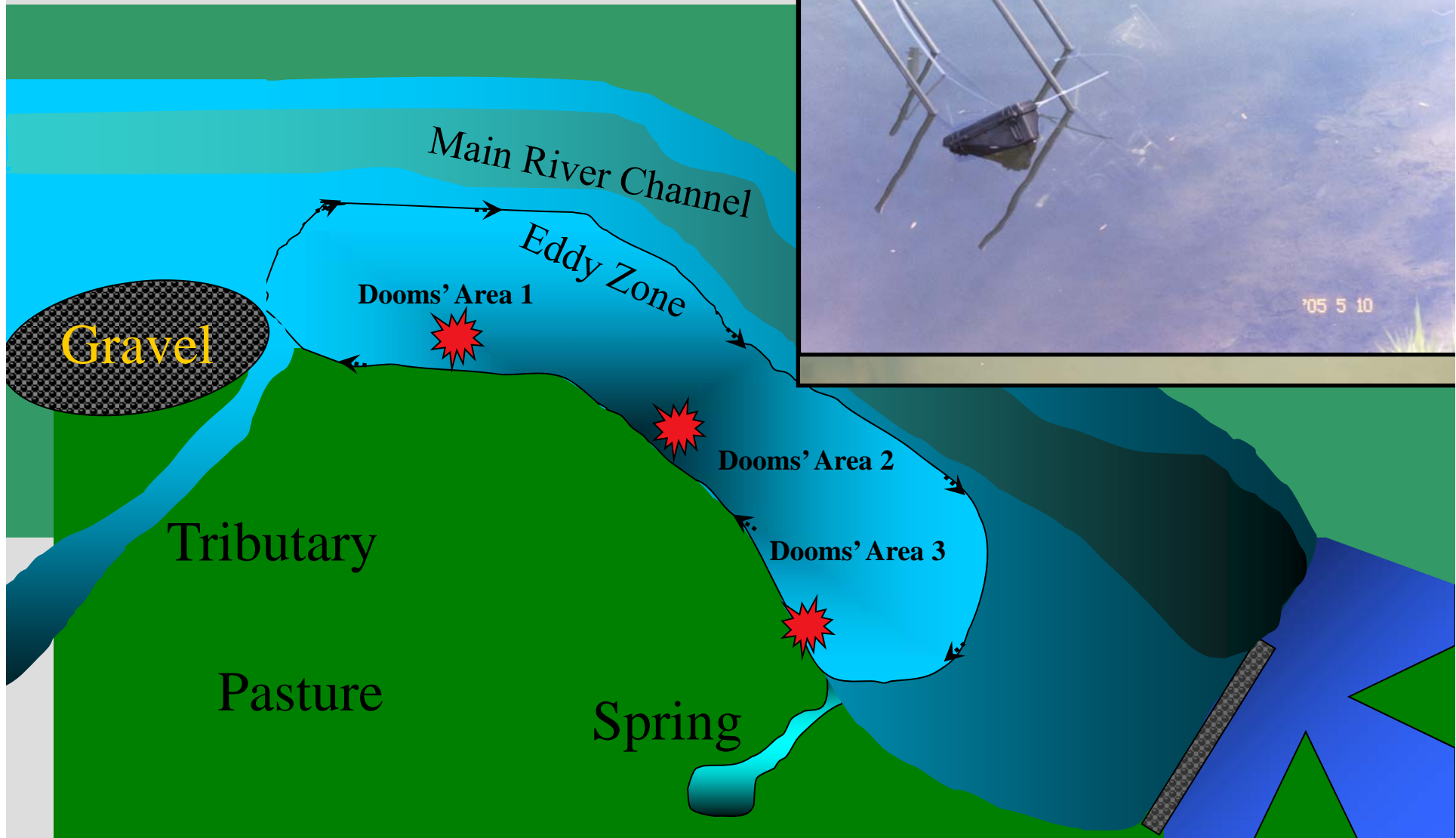
Benthic Flux Chamber



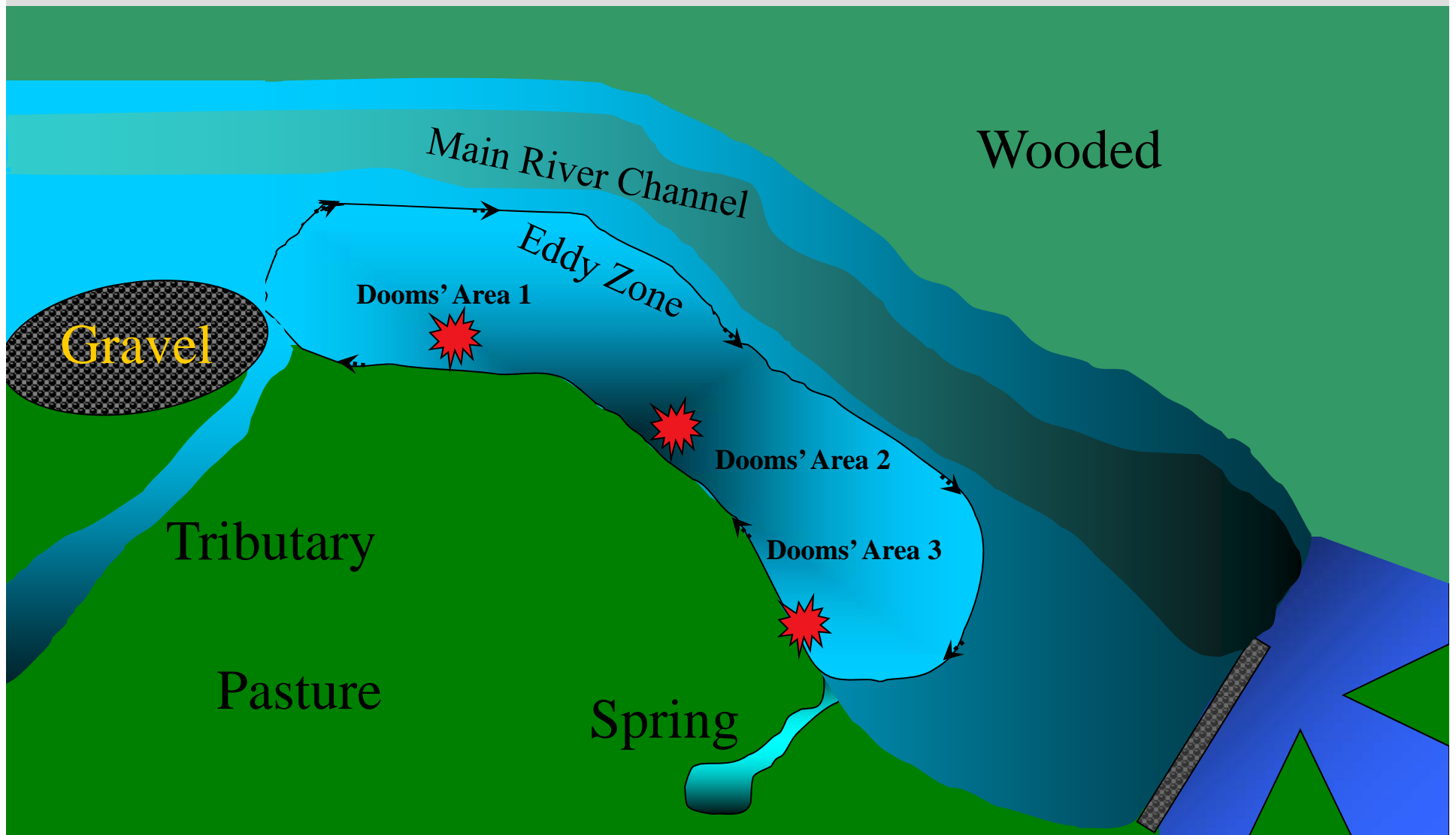
Rich Landis - DuPont

October 11, 2005

Dooms' Dam Pilot Test



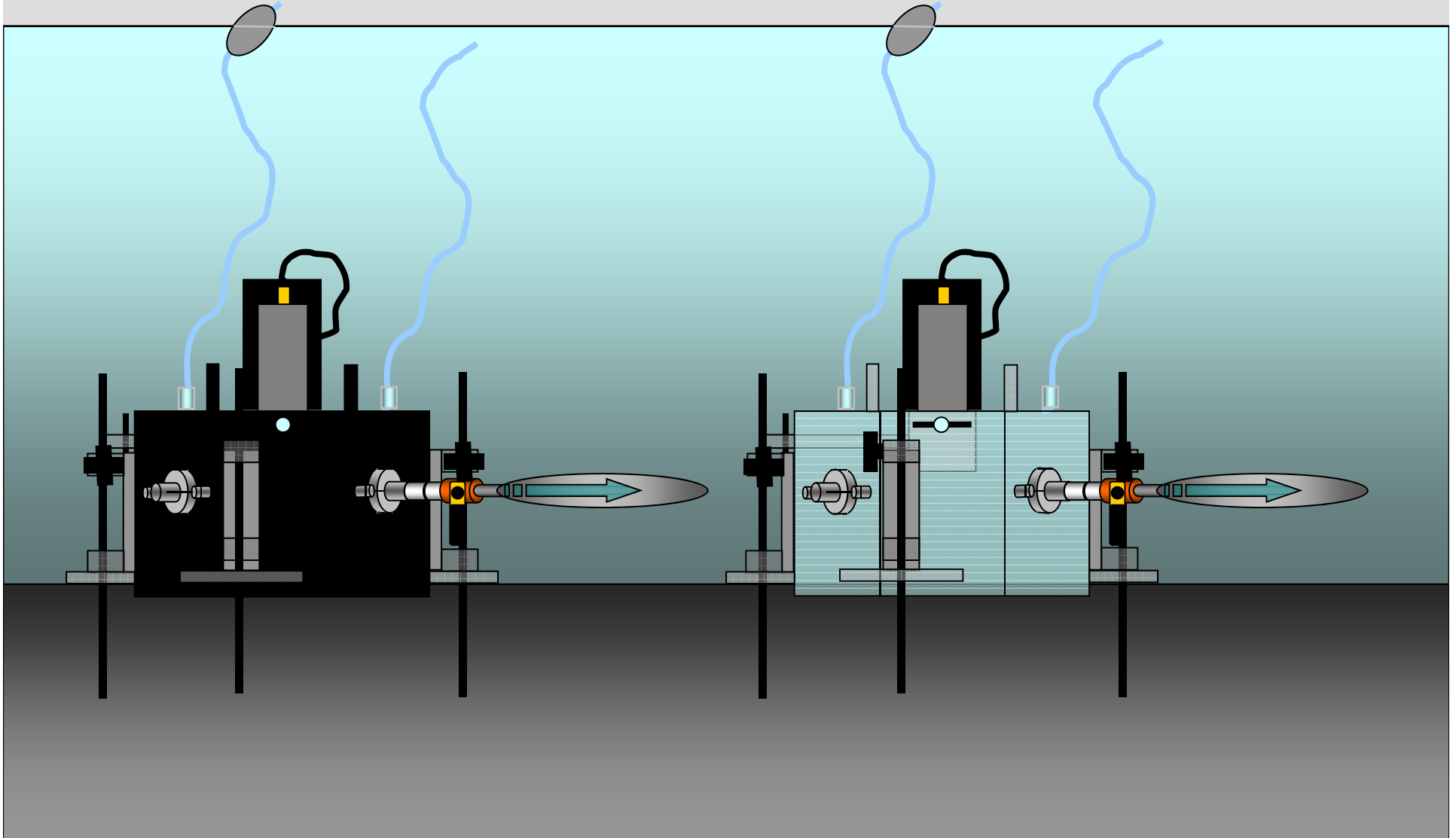
Dooms' Dam Pilot Test



Results

- Benthic flux chamber in Dooms' Area 1:
 - Filtered MMHg flux rate of roughly $19.5 \text{ ng m}^{-2} \text{ hr}^{-1}$ on average over 2 hours ($54 \text{ ng m}^{-2} \text{ hr}^{-1}$ filtered total Hg)
 - Filtered MMHg flux rate of roughly $64 \text{ ng m}^{-2} \text{ hr}^{-1}$ on average over 12.5 hours ($62 \text{ ng m}^{-2} \text{ hr}^{-1}$ filtered total Hg)
 - Filtered MMHg flux rate of roughly $58 \text{ ng ft}^{-2} \text{ hr}^{-1}$ on average over 14.5 hours ($61 \text{ ng m}^{-2} \text{ hr}^{-1}$ filtered total Hg)

Sediment Diurnal Flux Chamber Pilot Test Arrangement



“Next Steps”

- Deploy BFCs in the sediment deposits being identified by the geomorphology efforts with emphasis on the reaches from DuPont’s foot bridge down to Crimora
- Develop the capability to deploy BFCs in gravel stream beds
- Deploy the BFCs in transects across the South River in key locations



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