Pooled Monitoring Forum: Restoration Research to make Science and Regulatory Connections

June 16, 2022, from 9 AM to 3 PM

Zoom/tech leads are Whitney Vong and Lindsay Brubaker (wvong@cbtrust.org, 410-974-2941 xt 122 and lbrubaker@cbtrust.org, 410-974-2941 xt 112)
<table>
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<tr>
<td>9 to 9:15 am</td>
<td>Morning Session with opening remarks from <strong>Senator Sarah Elfreth</strong>, Maryland, Anne Arundel County District 30</td>
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<td><strong>Erich Hester</strong> (Virginia Polytechnic Institute and State University), <strong>Arthur Parola</strong> (University of Louisville Research Foundation, Inc.), <strong>Jon Butcher</strong>, Tetra Tech, Inc., and <strong>Theresa Thompson</strong> (Virginia Tech)</td>
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<td>PANEL - How are we using the Pooled Monitoring Initiative research? Senator Sarah Elfreth (Maryland, Anne Arundel County District 30), Jessica Martinsen (USEPA), Ari Engelberg (MD DNR), Amy Stevens (Montgomery County, MD), Mike Galvin (Maryland Stream Restoration Association), &amp; Sarah Koser (Chesapeake Bay Trust)</td>
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<td><strong>Claire Welty &amp; Andy Miller</strong> (University of Maryland Baltimore County), <strong>Sujay Kaushal</strong> (University of Maryland, College Park), <strong>Mark Southerland</strong> (Tetra Tech, Inc.), <strong>Keith Eshleman</strong> (University of Maryland Center for Environmental Science); upcoming research projects and call for sites/data &amp; closing remarks</td>
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Meeting Materials

• Agenda, attendance list, and presentations are at: https://drive.google.com/drive/folders/1dFGF8FPumWlzlJR9jhtBxa7IrG4y7AuON?usp=sharing

• This meeting is being recorded and both the recording and presentations will be posted on the Pooled Monitoring Initiative website after the meeting at: https://cbtrust.org/grants/restoration-research/
Morning Session

• Welcome, charge for the day, and Pooled Monitoring Program overview, Sadie Drescher Vice President of Restoration Programs, Chesapeake Bay Trust

• Senator Sarah Elfreth, Maryland, Anne Arundel County District 30, Welcome and opening remarks
Pooled Monitoring Program - Science answers key restoration questions

- Desire to support the best, most cost-effective practices at the most optimal sites, but differences of opinion sometimes exist, and questions about the performance and function of some of these practices persist
- Pool resources to answer restoration questions posed by regulatory community & practitioners
  - **Partnerships and collaborations** - we are all a part of this effort!
- Increase power, objectiveness, and ability to know what works
- Bring science back to those that can use the research/data

Kelsey Wood (UMD) measuring groundwater for “Tree Trade-Offs in Stream Restoration Projects: Impact on Riparian Groundwater Quality” project (PI is Sujay Kaushal)
Pooled Monitoring Initiative Provides Solutions

- Regulators prioritize their concerns with input from practitioners
- Funders “pool” resources
- Top restoration questions issued in the Restoration Research Request for Proposals (RFP) in FY15 administered by the Chesapeake Bay Trust
- Scientific teams research these questions and deliver answers back to the regulators
- RFP open to any organization – looking for best groups to answer your questions
- Results used in decisions, policy, practices, etc.

Claire Welty (UMBC) quantifying the cumulative effects of stream restoration and environmental site design on nitrate loads in nested urban watersheds using a high-frequency sensor network (Baltimore County, MD)
Restoration Research Award Program

- Supported 38 projects since FY 15 at >$7M
- Guided by the Pooled Monitoring Advisory Committee
- Uses scientific reviewers across the world to vet applications
- Runs all applications through a “management review”
- Projects are managed as contracts
- Questions are cycled off/on the RFP each year
- All awards, progress, and program products are online at: [https://cbtrust.org/grants/restoration-research/](https://cbtrust.org/grants/restoration-research/)

Keith Eshleman (UMCES) Plum Branch stormwater monitoring station (Ellicott City, Howard County, MD)
Morning Session

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