

Carroll County Water Resource Coordination Council

Hampstead * Manchester * Mt. Airy * New Windsor
Carroll County Health Department



* Sykesville * Taneytown * Union Bridge * Westminster
Carroll County Government

WRCC Meeting Summary August 28, 2024

Attendees:

Municipalities:

- Kevin Hann, Chair, Hampstead
- Jim Wieprecht, Vice Chair, Taneytown
- Zac Amoss, Westminster
- Gary Dye, New Windsor
- Delbert Green, Manchester
- Mayor Perry Jones, Union Bridge
- Rodney Kuhns, Manchester
- Alex Perricone, Manchester
- Mike Rawlings, Westminster
- Jim Roark, Hampstead
- Kevin Rubenstein, Sykesville
- Kevin Smeak, Taneytown
- Steve Strawsburg, Westminster
- Vance Summerhill, Westminster
- Dick Swanson, Mount Airy

CC PLM:

- Daphne Daly
- Brenda Dinne
- Glenn Edwards
- Catarina Erbe
- Andrew Gray
- Chris Heyn, Director
- Claire Hirt
- Byron Madigan
- Kelly Martin
- Mitch Masser
- Denise Mathias
- Zach Neal
- Janet O'Meara
- Pat Varga

Health Department:

- Richard Brace
- Nicole Bowman

CCG Others:

- Andy Watcher, CC DPW
- Bryan Bokey, CC DPW
- Jason Green, CC CPW
- Jacob Dellinger, CC M&B
- Hanley Allen, CC M&B

Guest Speakers:

- Adam Eshleman, DNR
Freshwater Fisheries

1. Opening Statement

Chair – Kevin Hann

Mr. Hann opened the meeting at 2:31 PM.

Mr. Hann noted that this month is the end of his two-year term as Chair. He is willing to continue serving but also wants to give someone else an opportunity if someone else wants to serve as Chair. At next month's meeting, nominations will be taken and a Chair & Vice Chair elected or re-elected.

Vice Chair – Jim Wieprecht

Nothing additional.

2. Approval of Meeting Summary – July 24, 2024

Approval of the July meeting summary was discussed. No changes were made.

APPROVAL OF MINUTES: Motion was made by Alex Perricone and seconded by Dick Swanson to approve the July 24, 2024, meeting summary. Motion carried.

3. Pond Retrofits for Cold Water Releases – Adam Eshleman, DNR

- Adam Eshleman from Maryland Department of Natural Resources Freshwater Fisheries Program shared information about thermal impacts of small ponds on trout streams. The program completed an inventory of small ponds. The Freshwater Fisheries Program [storymap](#) relating information about the installation of subsurface withdrawal devices on small pond riser structures in the Upper Gunpowder Watershed includes a map showing the locations of the identified small ponds.
- Subsequently, two ponds in Carroll County were selected to install these retrofits that would result in the cooler, deeper water being released instead of the warmer water at the surface. One is at Manchester's Pine Valley Park. The other is on a property owned by River Valley Ranch.

Reference/Attachment:

- *PowerPoint (attached): Evaluating the Thermal Impact of Small Ponds in Maryland Trout Watersheds*
- *Webpage: [Maryland DNR Freshwater Fisheries Program StoryMap](#)*

4. Municipal Stormwater Projects Update – Janet O'Meara

- Janet O'Meara provided an update on the municipal stormwater restoration projects.

Reference/Attachment:

- *Municipal Project Status, July 2024*

5. PFAS Discussion

- Mr. Swanson inquired whether the water in any of the stormwater management ponds has been tested for PFAS in the event that stormwater could be a source of PFAS contamination. No such testing has been done, but it is possible for PFAS to be contained in stormwater runoff.

Reference/Attachment:

- *N/A*

6. Water Resources Element (WRE 2024) Update – Brenda Dinne

a. Countywide Strategies Work Session

- During August, the WRE Technical Team staff completed a content review of the rough draft of the body of the plan text (background and conditions). Ms. Dinne will work on addressing those comments to create a complete initial draft of the first half of the plan document.
- Meetings are scheduled with several municipalities in September to review the rough draft of the individual, system-specific strategies sections. Ms. Dinne is updating the tables and any other information that was available from Hazen prior to the meetings. She will provide each municipality/system with their rough draft for review prior to that meeting. The purpose of the meetings is to review the background information and strategies to identify additional changes needed, actions already taken, and additional actions to be added. This information will be used to prepare a complete initial draft.
- The overall topics of PFAS and water reuse were discussed. These are topics that are, for the most part, new to the plan document. The discussion indicated that all systems will need to be open to new ideas, as more and more restrictions are continually being placed upon the systems. Certain ideas that seem out of reach may actually wind up being more efficient or cost effective in the long run. It was also suggested that the preservation and conservation of existing water supplies needs to be prioritized.
- Ms. Dinne asked everyone review the rough draft countywide strategies for specific suggestions and revisions to the existing document. They can be emailed to her or discussed

at the next meeting. In addition, all should feel free to email her with any specific new content ideas (strategies)/additions (action items) or revisions to the existing strategies and action items.

Reference/Attachment:

- N/A

7. Other

- September WRCC Meeting: The September meeting agenda will include a continuation of the WRE countywide strategies work session, in addition to the Chair/Vice Chair nominations/elections. A speaker has not yet been identified.
- Frank Schaeffer 5K Memorial Run: Ms. Dinne handed out flyers to the municipalities on behalf of Gary Dye. Mr. Dye requested that the flyers be shared to help promote the 5K run in Frank's memory.
- EPA Chesapeake Bay Milestone Evaluations: Mr. Heyn noted that the EPA recently released evaluations of each watershed state's progress toward meeting the 2025 goals for the Chesapeake Bay. Maryland is not on track to meet these goals. The report particularly calls out the agricultural and stormwater/urban sectors. The Maryland report seems to indicate that the EPA will be leaning harder on the state to put further requirements in place to achieve these goals, which could impact the NPDES MS4 permits. Ms. O'Meara added that Carroll County has been number 1 in the state for many years with BMP implementation. Funding is available, but the Soil Conservation District doesn't have the staff resources to assist with as much as could be done with the funds.
- Water & Sewer Master Plan Amendments: Mr. Gray pointed out that Freedom/Sykesville, Hampstead, Manchester, and Union Bridge will have amendments for the fall cycle. He will have more information at the next meeting.
- NPDES Annual Report: Mr. Massey noted that they have received half of the 8 completed jotforms from the municipalities needed for the Annual Report.

Reference/Attachment:

- *Webpage: [EPA Evaluation of 2022-2023 Milestone Progress and 2024-2025 Milestone Commitments](#)*

8. Water Resources Element (WRE 2024) Update – Brenda Dinne

- Plan Document:

Reference/Attachment:

- N/A

9. Adjournment

The meeting adjourned at 4:00 PM.

MEETING ADJOURNMENT: Motion was made by Dick Swanson and seconded by Alex Perricone to adjourn the August 28, 2024, meeting. Motion carried.

Upcoming Meetings:

- Regular Monthly Meeting – Wednesday, September 25, 2024*

MUNICIPAL STORMWATER PROJECT STATUS

August 28, 2024

FUTURE PROJECTS:

Michael's Property (Hampstead) – Project is on hold until Town has obtained approval from property owners to move forward.

Hampstead Valley 2/3 (Hampstead) – Hampstead Valley facilities 2 and 3 will be retrofit as a stream restoration project to decommission Sycamore Drive as a roadway embankment. The design will include a stream restoration beginning immediately downstream of the proposed Hampstead Valley 1 facility and continue to Sycamore Drive.

CONCEPT DESIGN:

Hampstead Valley 1 (Hampstead) – Retrofit of existing detention basin to a surface sand filter. Site is located just south of Lower Beckleysville Road near a production well. Comments were returned to CLSI, the County is currently looking into how this project would impact a project at Hampstead Valley 2/3.

Manchester East (Manchester) – CLSI is working on the concept design of a new stormwater facility north of Manchester Valley High School, adjacent to the pump station. Comments were sent back to CLSI. Concept was reviewed by the property owner we are currently working to have an appraisal done of the parcels that will need to be acquired.

Meadow Ridge Basin 2 (Westminster) – Retrofit of existing facility to provide water quality through a surface sand filter. This site is adjacent to the pump station at the edge of the City limits. Century is currently working on a conceptual design. The County received proposals to complete geotechnical borings and is evaluating those and will be selecting a contractor.

New Windsor Wetland (New Windsor) - A new wetland facility is proposed adjacent to the Maryland Midland Railroad tracks and Dickenson Run. The proposed improvements include removing the existing inlet adjacent to the intersection of Water St and Church St, replacing it with a diversion structure that will route the 1-year storm discharges to the proposed wetland facility. A concept plan was submitted and review comments were sent back to BAI.

Public Safety Training Center (Westminster Well)- A retrofit for the Public Safety Training Center pond is in progress for the facility design and PFAS remediation. WRA is finalizing the concept plan for the surface sand filter. A team meeting was held July 17th to coordinate next steps.

PRELIMINARY DESIGN:

Hampstead Valley 4 (Hampstead) – A new surface sand filter and stream restoration project is proposed between Century Street and Downhill Trail. Culverts at Downhill Trail require realignment into the HOA parcel for dam breach approval. Soil borings were completed by KCI, the report was submitted to be reviewed by Stormwater Management. Final plans should be submitted the week of July 22nd.


Roberts Field Wet Facility (Hampstead) (DNR Grant Award- \$1,000,000)– Retrofit of wet pond to new hybrid wet pond/submerged gravel wetland. The recent concept submittal was approved with comments from the Town and Stormwater Management. Wallace Montgomery & Associates (WMA) is working on the preliminary plans. The Joint Permit Application has been submitted to MDE for review and comment. Final plans were reviewed and comments were returned to CLSI.

FINAL DESIGN:

CONSTRUCTION:

TREE PLANTING PROJECTS:

All the municipal plantings have completed their maintenance period and are now the responsibility of the municipalities. Please make sure that these areas are being mowed at least three (3) times per season.




Evaluating the Thermal Impact of Small Ponds in Maryland Trout Watersheds

Adam Eshleman, Mark Staley, Michael Kashiwagi


Maryland Department of Natural Resources
Fishing and Boating Service
Freshwater Fisheries Program

1




Thermal Impacts of Small, Headwater Ponds on Trout Species in Maryland

- Extensive research has been done on the impacts that impervious surface and LULC change has had on stream temperatures
- What are the cumulative effects of pond prevalence in coldwater watersheds?
 - Topwater pond discharges
 - Dam failures
 - Stormwater ponds and infiltration
- On average, Piedmont coldwater watersheds have about two times as many small ponds as the Appalachian Plateau
 - Already at higher risk of thermal impacts




2



Project Goals

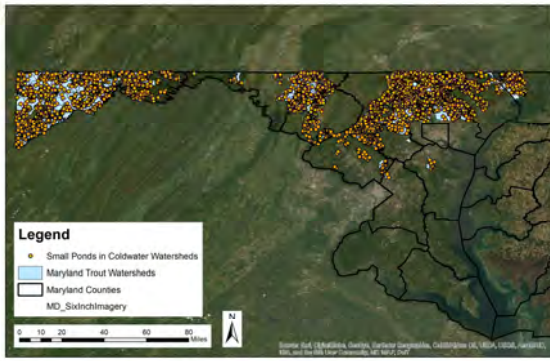
- Identify all ponds in all “coldwater” HUC12 watersheds across Maryland.
 - HUC12 watersheds where brook trout are present
 - HUC12 watersheds with naturally reproducing brown trout
 - Use Class III non-tidal coldwater watersheds
- No agency had a master list of ponds

3



Study Area

State of Maryland Sensitive Watershed Small Pond Inventory



- > 95% biological sampling coverage
- 11 counties with coldwater resources or use III waters

4

Identifying Ponds



- Multiple techniques and remote sensing datasets were explored
 - LANDSAT
 - NAIP and Chesapeake Conservancy 1m resolution 4 band imagery (leaf on)
 - Maryland 6 inch imagery (leaf off)
 - Flown in 2017 for western shore
 - Flown in 2019 for eastern shore

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Identifying Ponds



- A combination of NAIP and the 6 inch leaf off imagery was determined to be most effective method
 - Near infrared band differentiated between water and canopy in highly forested watersheds
 - NIR can penetrate top layer of canopy
- Up to 48 percent of ponds could be missed using LANDSAT imagery
 - Many ponds impacting these watersheds are less than a pixel (30m) in size

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HUC 12 Watershed Approach



- Why the watershed approach as opposed to a stream buffer approach?

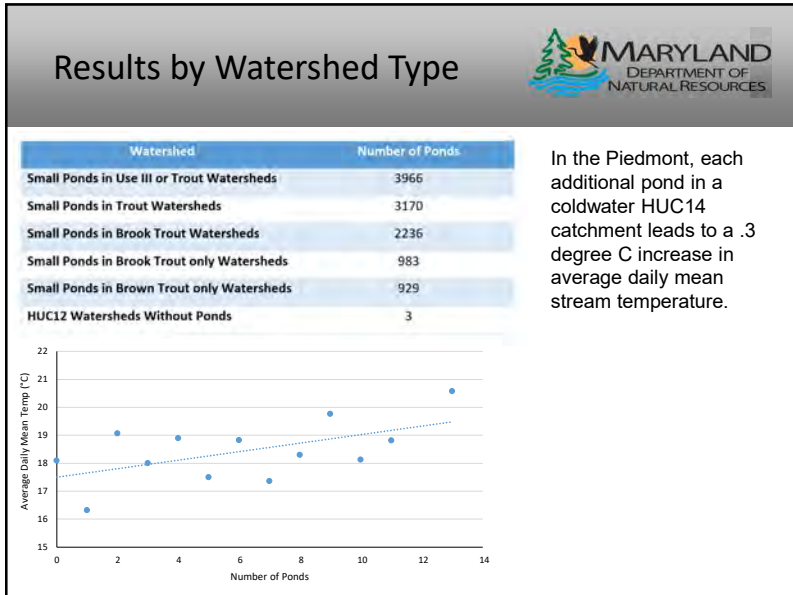
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HUC 12 Watershed Approach

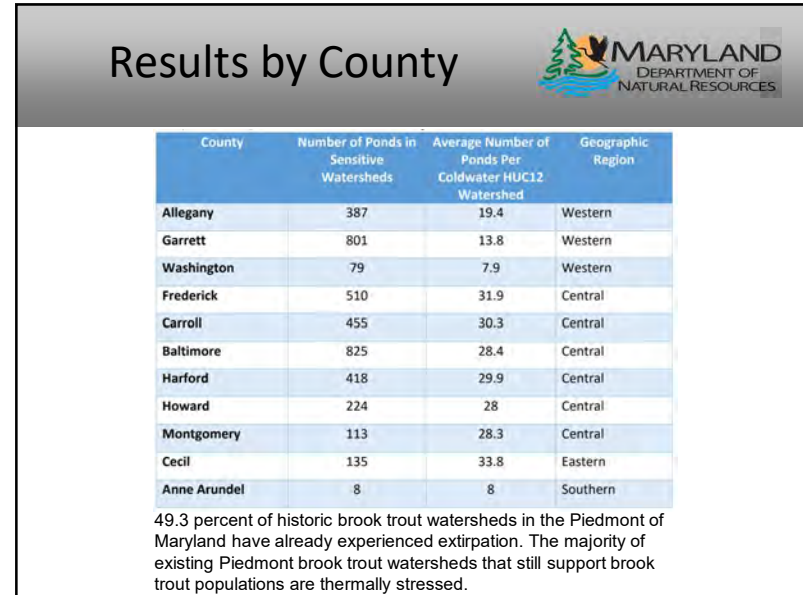


- 550m away from the NHD 1:24,000 layer
- “Zero Order” stream layer
- Demonstrates connectivity of these ponds to the watershed
- Storm flow discharge

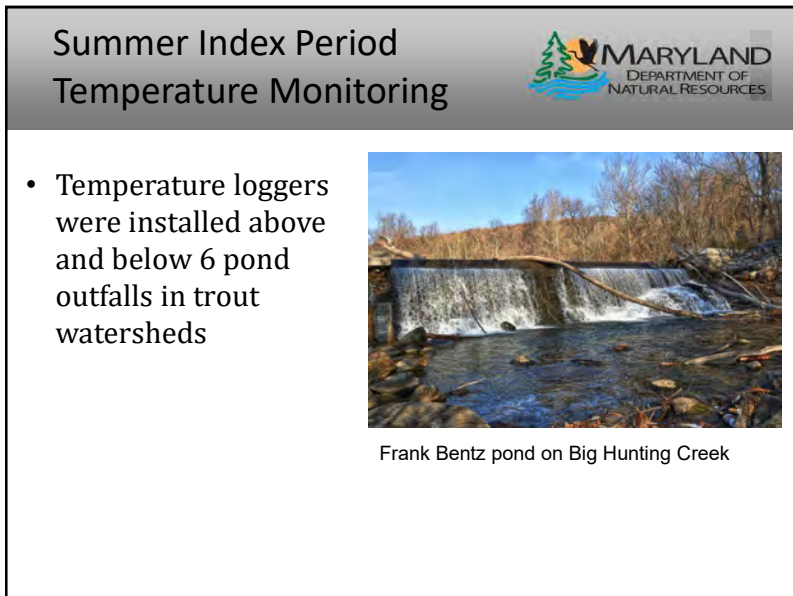
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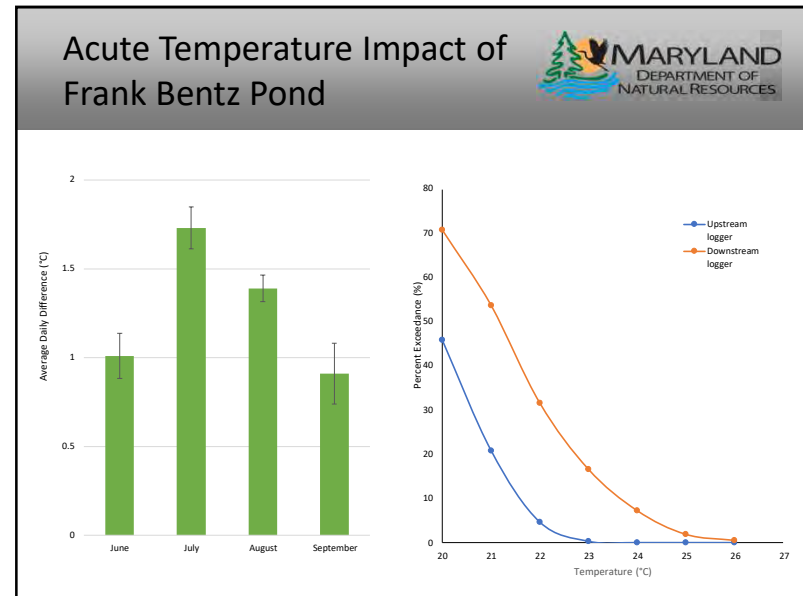
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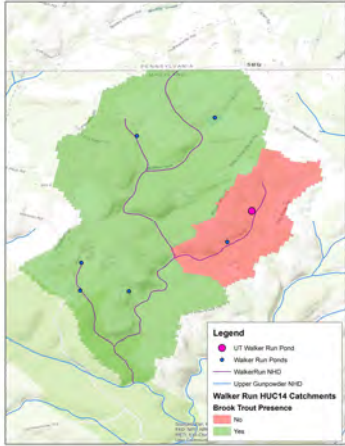


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Walker Run (Baltimore County)



Walker Run Pond Temperature Influence June 1 - August 31

