

## **Bridgeton Nockamixon Tincum Groundwater Management Committee**

Tuesday December 12, 2023

In attendance: Todd Stone, Dr. Karl Young, Dr. Carrie Manfrino, Bill Ballantine, Dr. Art Baehr, Mary Lennon, Dr. Stephen Donovan, Dr. Riley Murphy

Call to order 7:30 PM, via Zoom

The next BNTGMC meeting scheduled for Tuesday January 9, 2024, 7:30 PM via Zoom will be our annual re-organization meeting.

1. Approval of November 14, 2023 meeting minutes.
2. Treasurer's Report: No new expenditures
3. Public Comment: No public comment
4. Old Business: Template Groundwater Withdrawal Ordinance: Supervisor Chair Gard Holby reports Bridgeton will be considering approval of ordinance in new year after completion of their Comprehensive Plan. Dr. Art Baehr prepared "Comparison of Groundwater Development Ordinances of Tincum Twp and Recently Adopted Nockamixon Twp Ordinance October 2023" which was submitted to Tincum BoS, at their request.

Water Quality Testing: Strategy for archiving and supporting water quality testing education into our program: Committee members individually to pursue water quality testing through Penn Extension lab as initial step to archive data. Request made to Penn State Extension, Bucks County Health Department, and H2O Base to share data on testing in our Townships. Penn State has shared testing data. Dr. Baehr is archiving data in our template with goal of creating interactive map of water quality testing results in three Townships. Todd Stone to make outreach to Palisades School district for their data. Dr. Donovan and Dr. Young continue to refine list of lab services for water testing.

Dr. Manfrino led presentation on BNTGMC 2023 annual report and our water quality testing initiative to Nockamixon Township Board of Supervisors November 16 meeting. The BoS expressed its support for the initiative.

### Continuous Monitoring Networks and Archiving Projects:

- Deployment of monitors: Mary Lennon reported on status of network.
- Seasonal variation readings shared to website.

- Mini Pump Testing: Stephen Donovan suggested that the next mini test be conducted with new monitor on the new deep Diabase well added to the monitoring program this spring.
- Data offsets: Dr. Baehr continues to adjust data offsets to correlate with historic sonic ping records. Mary periodically pings wells to check for offsets and identify discontinuities of data. Well monitor at Palisades HS has failed. Offsets between PHS and MV wells to be addressed.
- Continuous Monitoring Network Hi-Lo graphs: Dr. Baehr has prepared Hi-Lo graphics of monitoring network data that the Committee reviewed.
- Stream monitoring: Conductivity meter re-installed and operating on Rapp Creek. Readings taken bi-monthly.

Recent Studies: Dr. Baehr continues to update the water budget for Tohickon watershed with our new data as needed. He prepared a November 18 update to local drought monitor, a snapshot of local hydrological conditions, which was shared with the Townships. The Committee reviewed and supported a proposal by Dr. Baehr to include as an objective an examination of interaction between the Delaware River and neighboring riverside wells. A WW670 logger has been installed at well along the river on Cross Creek Lane, Tinicum.

BNTgroundwater.org: New readings posted by Dr. Murphy.

Eco-Bucks: Eco-Bucks is collaborating with BNTGMC in support for two adult education sessions on water quality testing and understanding and protecting our local aquifer, digital recordings of the sessions, and an upgrading of BNTGMC website to present videos and upgrade interface. Todd Stone to reach out to Palisades School District to find dates available for presentation at Audion.

Palisades School District: The BNTGMC has purchased and sponsored the installation of a solar powered weather station on the new science wing at PHS. Dr. Donovan is in contact with Palisades School District about BNTGMC partnering on scientific program with its data and providing mentoring opportunity to a student intern.

Boarhead Farm - Bridgeton / EPA: BNTGMC advising Bridgeton BoS to pursue water testing with modern instrumentation and the use of a modern semi-volatile organic chemical (s-VOC) GC/MS analysis to determine high concentrations of contaminants on site. Bridgeton has again asked EPA to share water testing data or allow Township to sample its own. Personnel shake-up at EPA has delayed its response.

Ottsville TCE plume: Nockamixon Township has shared an update presentation from DEP of its monitoring of the plume as presented to the Township.

Public Outreach: Creek and River Festival, Springtown AA, Durham Township 7/13/24

5. New Business: No new business.