



*"Water, Wastewater & Stormwater
Environmental Consulting"*

MERCERSBURG WATER AUTHORITY
"CHRONOLOGY OF WATER SYSTEM PROJECT"
January 19, 2023

- 1) January 2015 through August 2018 – Buck Run Reservoir issues
 - a. Unable to comply with mandatory conservation release requirements
 - b. Reservoir not capable of supplying system demand and conservation release
 - c. PADEP working with Authority to evaluate issue
- 2) August 18, 2018 – PADEP issues update to Chapter 109 Regulations
 - a. Significant updates to surface water filtration plants
 - i. Increased filter media depths
 - ii. Elevated backwash expansion rates
 - iii. Fully automatic shut-down of all operation equipment
 - b. Buck Run WTP not able to comply with new regulations
- 3) August 2018 through September 2019
 - a. Numerous PADEP inspections to review WTP status
 - b. Numerous PADEP meetings
- 4) September 2019
 - a. Authority approves Dennis E. Black Engineering, Inc. to complete an "Existing Facilities and Treatment Alternatives" study (feasibility study)
- 5) April 28, 2020
 - a. Feasibility study complete and provided to Authority
 - b. Recommended...
 - i. Remove reservoir from service
 - ii. Locate and drill new well source near Buck Run WTP
 - iii. Construct new WTP to be compliant with PADEP regulations
- 6) May 2020 through June 2020
 - a. Additional meetings with PADEP - require creation of Interim Operations Plan
- 7) June 1, 2020
 - a. PADEP approval of Interim Operations Plan
 - b. Plan establishes operational oversight and process enhancement steps until new WTP can be constructed
- 8) September 10, 2020
 - a. Authority enters into Consent Order & Agreement (CO&A) with PADEP
- 9) September 2020 through September 2021
 - a. Mountain well collapses (September 2020)
 - i. Authority locates and drills new well (Zimm Well)
 - ii. PADEP approves emergency permit for work & operations
 - b. Authority rehabilitates all filters at WTP
 - c. Authority implements additional "safeguards" as required by IOP

- d. Authority completes upgrades to existing PRV Station
 - i. February 2021 through August 2021
- e. Authority attempts to locate additional water sources
 - i. Drilled well (dry) and evaluated two others (not enough water)
 - ii. New source located on existing well #3 property (Park Street)
- 10) September 2021 through August 2022
 - a. Multiple meetings with PADEP to discuss status of new source
 - b. Authority approved Glace Associates to design new Buck Run WTP
 - c. New well drilled and tested on well #3 property
 - d. Authority approved Glace Associates to design new WTP on well #3 property
- 11) August 2022
 - a. CO&A updated to reflect new project details
 - i. Construct new PRV station to better control system pressure
 - ii. Construct new Buck Run WTP
 - iii. Construct new WTP on well #3 property
 - b. Project estimated at \$7,580,000
- 12) October 6, 2022
 - a. Permit package for Buck Run WTP submitted
- 13) November 14, 2022
 - a. Permit package for new PRV Station submitted
- 14) January 2023
 - a. Submit permit package for new WTP on well #3 property

Project funding has also been carefully considered and multiple avenues are being explored....

- 1) PA Small Water & Sewer Grant
 - a. Authority was awarded grant in 2020 and will use for the PRV Station project
- 2) Franklin County IMPACT Grant
 - a. Authority awarded \$199,000
- 3) The following grant applications have also been submitted....
 - a. Community Project Funding (\$2,500,000)
 - b. LSA Statewide Grant (\$335,700)
 - c. H2OPA Grant Program (\$7,580,000)
- 4) PennVEST will also be utilized as a project funding source
 - a. Submit funding application no later than April 2023

Tentative Project Timeline

- 1) PRV Station Project
 - a. Start April 2023 / Complete December 2023
- 2) Buck Run WTP
 - a. Start July 2023 / Complete November 2024
- 3) New WTP at well #3 property
 - a. Start July 2023 / Complete January 2025