

Elmwood Township - Timberlee Water System Improvements
Public Informational Meeting, September 25, 2023

Potential system improvements discussed:

1. Replacing the existing hydropneumatic tank with 2 small used hydropneumatic tanks
 1. Preliminary Estimate of Project Cost = \$600,000
 2. Lowest cost option
 3. Used tanks are ½ way through their 50 year design life but appear to be in very good condition
 4. Tanks would be inspected by a certified tank inspector prior to Twp purchasing them
 5. Two tanks adds redundancy to the system
 6. Tanks would be in a building to add protection from the elements

2. Replacing the existing hydropneumatic tank with 2 small new hydropneumatic tanks
 1. Preliminary Estimate of Project Cost = \$800,000
 2. Two tanks adds redundancy to the system
 3. Tanks would have full 50 year design life being installed new
 4. Tanks would be in a building to add protection from the elements

3. Replacing the existing hydropneumatic tank with a new same size hydropneumatic tank
 1. Preliminary Estimate of Project Cost = \$790,000
 2. Replacing the tank in kind would utilize same connection points and not require a new building
 3. Tank would still be exposed to the elements
 4. Single tank does not have redundancy for maintenance and repairs

4. Replacing the existing hydropneumatic tank with an above ground gravity storage tank for domestic use only
 1. Preliminary Estimate of Project Cost = \$1,630,000
 2. This requires placing a new above ground storage tank at a high point in the system
 3. Property purchase for the tank placement would be required
 4. Option would only provide domestic use; fire protection requires larger storage tank and replacing the water mains with larger diameter pipes to provide fire flows
 5. May require chlorination due to water age in tank during low use periods

Notes:

1. Above options are based on a preliminary design review of the system.
2. All costs noted above are based on the best data available at this time. This includes estimates of work anticipated for each design option with costs calculated using recent cost data from similar projects where available. Actual costs will be determined by final design and contractor bids.
3. The Timberlee water system does not currently have fire protection. None of the options above provide fire protection.