



Chilson/Eagle Lake Water System: Other Options

Proposed Options: Utilize Gooseneck Water as a supplement to New Well System

- ▶ Year Analyzed: 2009-2014
- ▶ Advantages:
 - ▶ Additional source of water
- ▶ Disadvantages:
 - ▶ New well system does not require additional water
 - ▶ Gooseneck Pond water connected to any system must meet all regulations
- ▶ Conclusion
 - ▶ The Town determined that upgrading Gooseneck Pond was not cost effective and was not necessary to complete the new well system.

Proposed Options: Utilize Gooseneck Water with a Filter Plant

- ▶ Year Analyzed: 2009-2014
- ▶ Advantages:
 - ▶ Gravity fed
- ▶ Disadvantages:
 - ▶ No longer a gravity fed system, requires pumping
 - ▶ Cost
 - ▶ Land availability
 - ▶ Disposal of filter waste
- ▶ Conclusion
 - ▶ The Town determined that upgrading Gooseneck Pond was not cost effective.

Overall Conclusions

- ▶ Gooseneck Pond cannot be used as a drinking water source. This has already been agreed between the Town Board and EPA/DOJ
- ▶ Gooseneck Pond dam is in poor to failing condition
- ▶ Gooseneck Pond transmission main is in poor to failing condition. Changes to the water system will degrade this main further
- ▶ The water distribution mains are 90+ years old, leaving any is a liability for the future
 - ▶ As part of the design process the plan is to work to optimize which mains are replaced to target the ones in the worst condition or those mostly likely to be affected by any system changes
- ▶ Even if Gooseneck Pond were allowed to be used
 - ▶ UV alone is not sufficient to achieve disinfection requirements, chlorination is a requirement
 - ▶ Any approved system will require filtration along with disinfection
 - ▶ The dam would need to be replaced, which is not likely a “fundable project” and the water users must pay those costs
 - ▶ If the Town is providing water, it must provide water to meet all standards

Funding Considerations

- ▶ Town has been deemed eligible for \$3,000,000 & 0% loan with a 40-year payback
 - ▶ Minimum project cost is \$5,000,000 as grant is a 60% grant
 - ▶ Requires formation of water district
- ▶ With this grant secured the estimated user rate is \$1896 (\$1232 debt/\$232 O&M, \$432 cost of water)