

Olga Water Users 2007 Engineering Report

- Treatment plant
- Storage
- Distribution, leaks
- Back up systems and contingency plans
- Computer upgrade
- Long range investigation and planning
- Upcoming survey

Treatment Plant

- Zero health issues
- Cleaned both sand filters
- Cleaned and inspected the clear wells, minor maintenance
- Upgraded the total meter to a highly accurate displacement meter for better chlorine control and computer monitoring
- Automatic chlorine monitor needs replacement or repair, but we have a manual meter as a back up.
- We are operating at below 50% capacity, even with leaks.

Storage

- We had a minor leak in main tank in the same location as before. It was patched again for the Nth time, and is scheduled for proper repair this fall.
- Chlorine contact method is going to be changed, increasing the useful storage volume by 40%, and should also allow us to reduce our chlorine dose.
- A professional inspection service, and the manufacturer report that with maintenance we should expect several decades of good service left from this tank
- The small backup tank was cleaned and prepared for service. Chlorine contact time is being addressed.
- **Storage capacity must be optimized, not maximized.**

Distribution and Leaks

- No line replacements were required or scheduled for 2007
- Minor leaks were located and repaired
- We have 2 known leaks that have been difficult to locate, but we have a plan and we are getting help.
- We have a wide range of age and quality of mains and private distribution that present a risk of leaks.
- Labling valves and updating maps is a priority this year.

Redundent Systems and Contingency Plans

- 2 – 3 days storage, longer if we activate the phone tree.
- Redundant filters
- The backup tank is cleaned and ready for emergency service today, and regular service this fall.
- Pipes and portable pumps available for emergency service if the raw water line fails.
- Spare pumps, chlorine injection, turbidimeter, and critical instruments.
- We exceed state requirements and engineering guidelines.
- We are improving intersystem sharing.

Computer Upgrade

- “Vintage” computer was replaced with new Linux based system
- Internet connectivity
- Remote monitoring of the tank level and pump activity is working. Low levels or rapid dropping can now be identified remotely
- Other operations will be monitored
- Nothing is controlled by the computer (safe.)

Long Range Investigation and Planning

- Real metered data and conservative estimates are being used to protect existing members.
- We count guest houses the same as a regular home, this is very conservative.
- Additional storage will be operational with little or no impact on existing service.
- Guided by member input, but constrained by bylaws and health regulations.
- The Dept of Health has been very supportive in suggesting cost effective improvements.
- 20 year plan will be updated again next year

Upcoming Survey

- Our 20 year plan will be updated again over the next year based on:
 - Feedback from the state Health Dept which could affect our capital needs for expansion.
 - Water right “activity.”
 - Survey results
- The survey will include:
 - Should the bylaws accommodate irrigation and allow high use, at a price?
 - Should we sell memberships at cost +, market value, or at a high price to discourage development?
 - Please contact us with additional questions.