

**MINUTES**  
**WATER SEWER ADVISORY COMMITTEE**  
**Thursday, August 7, 2008**  
**7:00 PM Town Hall Barn**

**Members Present:** Dan Barker, Stephen Beck, Ron Butler, Marshall Gray, Paul Kimple, Joe Phelps, Cheryl Thomas and James Watts

**Members Absent:** Marshall Gray

**Elected Officials:** Eric Hallman

**Staff:** Will Baker

**Visitor(s):** Ken Terlip and George "Buzz" Koenig

**ITEMS:**

**1.1 Call meeting to order**

Chair Mr. Barker called meeting to order at 7:01 pm.

**1.2 Consideration of additions to the agenda**

Discussion on septic tank companies dumping at the Town's WWTP was added to the agenda as item 3.6. The Lake Orange Update was changed from 3.1 to 2.0.

**1.3 Consideration and Discussion of past months minutes**

A **Motion** was made by Mr. Kimple and seconded by Mr. Butler to accept the 2008 June minutes as written. The motion passed unanimously.

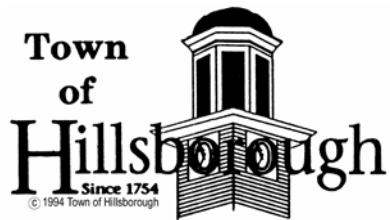
**2.0 Lake Orange Update**

Ken Terlep, a Lake Orange Resident and member of the Friends of Lake Orange, presented a power point presentation covering the current Eno River Voluntary Use Agreement (in graphical form), the safe yield and limitations of Lake Orange and West Fork of the Eno Reservoir volume and area analysis.

On the day of the meeting, Lake Orange was 23 inches below full and close to entering Stage 2 withdrawal restrictions (20% below full capacity).

*Eno River Voluntary Use Agreement:*

Graphs were displayed to show maximum and average withdrawals allowed. The information presented showed dependence on Lake Orange 4 times larger than the dependence on the West Fork. The graphs also showed the West Fork recharging much quicker in comparison to Lake Orange, dependant on the amount of rain received.



*Net Safe Yield of Lake Orange:*

It is an analysis based on the history of usage, which allows less than 5% failure of a body of water in any given year (this equals about 1 failure every 20 years). The total safe yield includes instream demands plus the users demands. The net safe yield is just the users demands. Mr. Terlep compiled a study, a copy of which was supplied to the Town Engineer, which used the same background information used for the 1993 West Fork study.

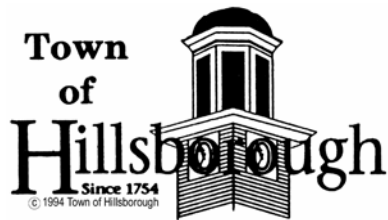
Barker asked whether Lake Orange was designed originally as a draw down design. Mr. Terlep held that Lake Orange was designed to be a reservoir, just as the West Fork. The presentation seems to show the current demands equal more than the actual ability of Lake Orange.

*West Fork of the Eno Reservoir Volume and Area Analysis:13:25*

Examined Wooten Study stated the West Fork would hold 375 million gallons of water on 205 acres. After the reservoir was built, Wooten wrote a letter with updated volume information on the West Fork. It stated that it actually held 386 million gallons on 204 acres at a 3-foot higher elevation. Mr. Terlep was confused by the results and conducted his own calculations using the elevation contours from the Orange County GIS department. Mr. Barker informed him that in some areas of Orange County there is a 5-ft error in the contours. His results were much higher than the original numbers provided by Wooten.

Mr. Barker asked Mr. Terlep what his wishes of the WSAC were. Mr. Terlep asked for recognition on the following items:

- ✓ There is not a limitless supply in Lake Orange and recognize the physical limitations of the lake.
- ✓ The Voluntary Users Agreement is not consistent with usable safe yields of the 2 reservoirs according to Mr. Terlep;
  - The West Fork safe yield of 1.8 MG is respected;
  - The Lake Orange safe yield of 1.0 MG is not respected.
- ✓ There may be additional volume of water in the West Fork, which will need to be studied.
- ✓ A new voluntary users agreement is needed based on Mr. Terlep's findings, the request from the Eno River Association to release unused allotted flow and the current hydrology plan that is being compiled by the State right now.
- ✓ Bottom line is their intention is to shift the primary water source from Lake Orange to the West Fork.



## 2.1 **The August Engineering Status Report was presented by staff.**

- Both Plants are running well and in compliance. Still awaiting grant approval for the design study on the WWTP. The WWTP state inspection went well. The Collection System will be inspected next week on Friday.
- WFER is currently down 7 inches below the spillway and under no restrictions.
- TTHMs are in compliance. Currently flushing to prepare for this quarters testing in the next couple of weeks.
- Unaccounted for water is 11% unaccounted for water during FY08.
- Tuliptree Phase II will begin next week (Habitat for Humanity).
- Lakeshore Outfall is expected to be complete next week.
- Gold Park began this week. There is an old outfall that runs down the middle of it. Investigation is being performed as to whether the line will be abandoned.
- The GIS project is complete and meetings are being coordinated between the Town and Summit to train the appropriate personnel.
- Engineering and planning will be with the Lawrence Road/I-85 water line replacement shortly.
- Kenny and Eric are meeting with Rafetalis to finalize the Capital Facility Fee Study. They would like to meet with the WSAC during their meeting in September or October.
- Odor issues have been handled in the Wildwood Subdivision, while it seems to have returned to the Murdock/
- The Public Utilities is reorganizing some of the employees and

## 2.2 **Updates concerning Water/Sewer issues:**

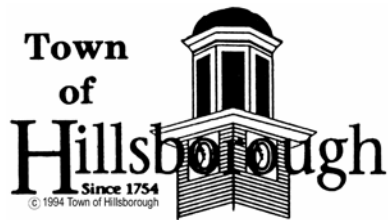
**2.2a Town Board Meeting (6/9/08)** – No water & sewer issues were discussed.

**Town Board Work Session (6/23/08)** – No water & sewer issues were discussed.

**Town Board Meeting (7/14/08)** – No water & sewer issues were discussed.

**Town Board Work Session (7/18/08)** – Meeting cancelled

**2.2b Planning Board Update** – No water & sewer issues were discussed.



**2.2c Interlocal Agreement Steering Committee** – A draft proposal should be available in September, with a map to be completed by January, 2009. Public Hearings will be held for public comment to review the document and the maps.

**3.1 Lake Orange Update**

Moved on the agenda to Item# 2.0.

**3.2 Fiscal Year Balanced Score Card**

Mr. Baker distributed and explained the Balanced Score Card which will be included in the Annual Budget Process from this point forward. Goals and Objectives are clearly stated and gives both staff and elected officials an idea of the breakdown of how money is being spent within the Utilities Department.

**3.3 GIS Mapping Update**

Summit Engineering has completed mapping our system and will be meeting with the Town staff to train them on its use on 8/19/08.

**3.4 Planned Upgrade of Equipment & Lines in next FY**

***Water Line Replacement:***

Lawrence Road water line replacement has been given a high priority.

***Collection System Acquisitions:***

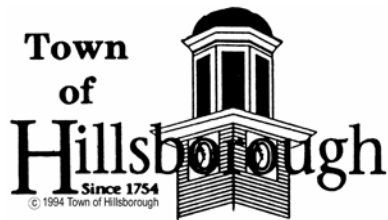
A new vacuum trailer, TV camera and the remaining generators for the remaining pump stations will also be added to our collection equipment. The purchase of this equipment depends on a loan approval. A new shed will be built to house the additional equipment. The Elizabeth Brady pump station is being upgraded using STAG funding. The design process will begin once the Lakeshore outfall is complete.

***WTP improvements:***

The walkways over the lagoons at the WTP were taken down and are being replaced by staff because of a safety issue. A new carbon filter feed at the raw water pump station is being installed to replace the existing out-dated system.

***WFER maintenance:***

The #3 valve is still broken and covered to prevent loss through the valve. Before the valve can be replaced platforms will have to be installed. Work on the platforms will begin when the reservoir is spilling and all the valves can be closed, creating a needed dry working environment.



**3.5 Tanks & Pressure Zones – Updates**

Monitors are being installed at all the tanks to perform chlorine analysis and do treatment in the distribution system when needed. The pressure zones are being improved by looping lines in vital areas to improve pressure and circulation

**3.6 Accepting Waste from Septic Tank companies at the WWTP**

According to Mr. Phelps, the town used to accept waste from septic tank companies, but due to unknown reasons, discontinued this practice. Due to rising fuel costs, the local haulers are inquiring on the possibility of the WWTP again accepting their waste. Currently they must do to Chapel Hill to empty their trucks and they may be willing to pay more, just for the convenience and save money on fuel. Staff will look into the inquiry and get back with the WSAC during their September meeting.

**4.1 Suggested future agenda items for upcoming months**

- Refer to Annual Recurring Agenda Item Schedule
- Water Sewer Assistance Fund Review
- Planned Upgrade of Line & Equipment in the next FY
- Accepting Waste from Septic Hauling companies at the WWTP
- Impact of Governor’s new emergency drought policies
- Update on Lake Orange – Friends of Lake Orange Activities (including the partial funding of the release gate from Lake Orange)
- Article on recreation at the WFER by public information officer

**4.2 Review Committee Assignments for coming month**

- |      |   |  |               |
|------|---|--|---------------|
| 4.2a | * | Town Board Meeting (9/8/2008)              | Kimble/Barker |
| 4.2b | * | Assembly of Governments (9/18/08 @ 7:30pm) |               |
| 4.2b | * | Town Board Work Session (9/24/08)          | Beck/Butler   |

**5.1 Adjourn**

A **Motion** was made Mr. Butler and seconded by Mr. Watts to adjourn the meeting and the motion passed unanimously. The meeting adjourned at 8:05 pm.

Respectfully submitted,  
Julie E. Vance, Secretary