

WATER SYSTEM COMMITTEE

MINUTES OF MAY 1, 2008

Town Hall Annex
5 Highland Street
Main Conference Room

Meeting Opened: 5:05 p.m.

Members Present: John Edgar, Keith Forrester, Carol Granfield, Bob Hill, Jonathan James, Miller Lovett, (Selectmen Representative), Chuck Lowth, Chuck Palm (Selectmen Alternate), Richard Roman, and David Thorpe.

Members Absent: None.

Approval of Minutes: The minutes of April 17, 2008 were unanimously approved as presented.

Richard advised that he spoke at the Selectmen meeting and wanted the committee to be aware of it. The committee thought it was appropriate as questions were asked.

There was discussion concerning the amount of water available now as a result of the approval of the Senior Housing project. The available water for new developments is now 9,000.

Richard provided the committee a history of the addition of several commercial and residential developments that now utilize water and have impact on the system.

John and Jonathan presented information pertaining to demand, noting different scenarios will be reviewed with options of one house, commercial, or a large development. The SEA report was reviewed and several questions require further discussion with Ray Korber. The current demand is being reviewed; there may be some capacity gained back that can be attributed to changes made and best practices implemented. Redevelopment is critical and future service areas could be larger or smaller. KV Partners did a build out analysis that should be reviewed and data updated. Dave asked the subcommittee to come back to the committee with a band of low and high on demand.

There was discussion pertaining to the dam at the Canal and the need for improvement. Carol advised that a meeting had been held a few weeks ago with Rusty McClear, and several Town staff, and the state was also to be contacted regarding some improvement options discussed.

Keith indicated we need to look at the history and extend it with regression analysis in order to better assist the work of the committee. Further, he noted alternate water

supply options include well supply replacement of existing surface water supply and well supply addition to augment existing surface water treatment system and potential redundancy for system storage tank at well production area.

Bob provided the committee with recent information on the averages of the water accounts and utilization, noting that leakage (unaccounted for breaks, blow offs) is now 12 - 14%. The new meters are more accurate and with using smaller meters, everything is now being picked up.

Chuck reported on supply, noting that the main thing he is looking at is a well system as an alternative supply and will work further with John. He stated it may be less expensive to build a well system. He further stated that, based on what he can determine now, he doesn't believe we are in any crisis situation at all.

Keith provided the committee with a written summary of his first review of the treatment system. He discussed the following solution options for existing surface water system improvements:

- Lake water intake velocity reduction by screen area expansion for entrainment reduction
- Intake redesign to include gradation filter beds to reduce intake particulates and turbidity
- Addition of coagulation series to flocculation system and modification of flocculent to improve primary treatment settling characteristics
- Modification of filter beds to dual media to increase production rate
- Addition of GAC polish units for reduction of BTXEB hydrocarbons, THM and acetic acid groups prior to existing chlorination
- Addition of polishing units if required by Stage 2 and Term 2 analysis
- Replacement of gravity beds with pressure filter vessels, laminar plate banks

Keith's proposed analyses of existing units and operations improvements to take three months and two months for analyses of Stage 2 and Level 2 Units and Operations. He noted that Stage 2 is most important and also discussed going to vendors with designs and utilizing them positively to gain the most we can from them.

Meeting Adjourned: 7:00 p.m.

Respectfully submitted,
Carol M. Granfield