



Town of Pittsboro, North Carolina

Engineering Department

Memorandum

To: Mayor Bill Terry and Town Board of Commissioner's

From: Fred Royal, PE, Town Engineer

Subject: Jordan Lake Round 4 Water Supply Allocation Application - Final

Date: November 10, 2014

Background

On April 14th, 2014 the Town Board received a memorandum concerning the Jordan Lake Round 4 Allocation Application (draft) and accompanying Resolution. Since this date, NCDENR has responded with comments. Please see Attachment 1. The supporting resolution and draft Round 4 Allocation Application was submitted to NCDENR on May 1, 2014.

On October 27th, 2014, the BOC received a presentation from Fountainworks, Inc. and the Triangle-J Council of Governments on the final Triangle Regional Water Supply Plan. These entities served as the Jordan Lake Partnership facilitator and technical advisor to all of the partners.

The Town of Pittsboro staff has responded to the draft application comments and has completed the Final Round 4 Jordan Lake Water Allocation Application for BOC review and approval. Please see Attachment 2.

The final application has been developed by staff and Hydrostructures, PA and has been peer reviewed by the Triangle-J Council of Governments to ensure general consistency with the other partnership applications.

The purpose of this Round 4 allocation application will be to diversify and provide adequate public water supply for the Town of Pittsboro at a future date when the Haw River "run of river" source will be providing near its maximum allowable of 6 MGD. This application is a first step in this diversification process.

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Discussion

The Haw River will continue to be the primary source of drinking water for years to come. This allocation request is intended to be used in phases or Levels. Level I would be up to 3 MGD. This initial phase would be a part of the partnership that is developed to plan, permit and construction a new water treatment plant on the western shore of Jordan Lake. Staff plans to present more information on this partnership at an up-coming BOC meeting.

The comments received from NCDENR were addressed in the final application. They generally included clarification of Haw River permits and of our annual Water Supply Plan. Another group of comments concerned Chatham Park and wastewater. The Town requested Chatham Park engineers to review the comments and develop a response as a part of the final application. They have presented a response and it is included in the application. Please see Attachment 3.

Due to the quantity, the references and Appendix' are not included with the application for BOC review. Staff can provide this in hard-copy upon request.

As discussed in previous discussions, the final application contains important language for a proposed *Water Conservation Plan Strategy*. Please see Section II of the application. With a holistic approach, the Town will minimize water demand increases to reduce waste and cost and to off-set or delay capital expansion projects at the treatment plant to the extent feasible.

General strategies for minimizing the projected increased water demands include:

- Develop ordinances, programs and policies regarding new development water uses, including but not limited to; public education, efficient plumbing fixtures, re-claimed water use for irrigation and for other uses such as construction and industry.
- Conduct annual AWWA Water Audits and programmatically work to reduce water losses in the system
- Develop and maintain an Asset Management Plan for the Town's public water system.
- Perform a financial analysis of the Enterprise Fund to assess and manage current and future expenses and revenues.

Recommendations

Review and approve the Final Round 4 Jordan Lake Allocation Application, due to NCDENR by November 14th, 2014.