
Hello,

We hope everyone is doing well. We wanted to provide you with an update on the Waterford Water Feasibility Study.

On Monday, Aug. 9th, Mike and Mark met virtually with Andrew Beatty, project engineer with Loudoun Water, Paul Longo, project manager for Dewberry & Davis and Scott Fincham with Loudoun County General Services for a project update.

Some highlights:

- * Over 80% of households participated in the mail in water survey.
- * Well level readings were taken on just over 60 wells in the community.
- * Longer term well monitoring of several wells is ongoing. More data will be collected through the end of August.
- * The Final Waterford Water Feasibility Study report is projected to be completed December 2021.
- * A Community meeting will be scheduled to present and answer questions about a month after the report is finished, targeting January 2022.

The Project Status Update notes are attached. We plan on providing a brief update at the next WCA meeting. If you have any questions, please contact any one of us listed below.

Thank you,

Sharyn & Mike

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Mark Sullivan

WCA Water Committee Chair

Stephanie Thompson

WFI Executive Director

Waterford Water information:

<https://www.waterfordcitizens.org/activities/water-needs/water-study-timeline/>

Project Status Update

Project Team

- Paul Longo, P.E. has taken over management of the project for Dewberry, beginning end of July. Paul has extensive experience with the Loudoun County Water and Wastewater Program, having led the Town of Hillsboro, The Marches, and the community of Paeonian Springs feasibility studies.

Feasibility Study

Information Review & Household Survey

- Review (desktop) and summary of existing records (Health Dept, Dept of Building and Development, GIS data, existing studies including 2006 Geotrans report) completed.
- Excellent response rate to household survey. Summary completed.

Groundwater Supply Development Potential Study

- Well level readings taken by Tetra Tech, and data analyzed and summarized. Recharge rates in several wells determined. Longer-term well monitoring in several wells ongoing – expected to be completed by end of August.
- Draft technical memorandum expected in third week of August (will exclude longer-term monitoring analysis). Final technical memorandum expected Sept/Oct (will include longer-term monitoring analysis).

Preliminary Community Research

- Meetings with various permitting agencies (local and State) conducted in April/May. Draft Permitting technical memorandum summarizing the impacts and regulatory requirements necessary to implement potential solutions submitted to Loudoun Water in early August.
- Review of draft tech memo ongoing.

Water Treatment & Conveyance System Evaluations

- Estimate of water demand requirements was evaluated. Several approaches were looked at to converge on an estimated well yield requirement to provide sufficient water for a community-wide solution. Evaluation summarized in a draft Flow Analysis technical memorandum, submitted to Loudoun Water in early August. Review of draft tech memo ongoing.
- Conceptual distribution system layout has been prepared. Each of the five alternative solutions are being advanced. Discussion with the Office of Drinking Water scheduled to ensure correct interpretation of regulations regarding shared use wells. Results from Groundwater Supply tech memo will inform potential infrastructure siting possibilities.
- Preliminary cost estimates will be prepared once conceptual layouts have been reviewed.



Project Schedule

- Early milestones in project got shifted but did not impact critical path. Project completion and Final Waterford Feasibility Study report currently still anticipated December 2021.

