

**TOWN OF HILLSBOROUGH**  
**ENGINEERING STATUS REPORT**  
**SEPTEMBER 2009**

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PROJECT	BUDGET	STATUS
WWTP Discharge Compliance	-	We were compliant with our discharge permit limits in June & July. Our sludge management program is in good condition.
<b>WWTP Expansion Design &amp; Permitting</b>	\$ 1,000,000	Hazen & Sawyer is approximately half-way finished with the preliminary design memos, and will begin the phasing plan work within the next several weeks. Design and permitting will take all of 2009, with an aggressive schedule anticipating construction start in Summer 2010, completion by Summer 2012. This schedule is likely to be delayed, due to the delay in CWMTF grant availability, the local economic status, and/or other factors. We should have more info on the CWMTF grant availability after September 14th.
Sewer Spill Summary	-	The Town had no reportable sewage spill since my last report (see attached summary). There have been two spills so far in 2009.
<b>WWTP - 2009 NC Central Region O&amp;M Excellence Award by NCAWWA-WEA</b>	-	The Wastewater Treatment Plant will be awarded the 2009 NC Central Region Operations & Maintenance Excellence Award at the NCAWWA-WEA Annual Conference on November 16th. The committee that toured our plant stated that our application package was the best they had ever seen for this award. We also plan to prepare an application for the national Water Environment Association Award. This is a tremendous honor and credit to our operators and plant superintendent, and is an especially great achievement considering the age of our facility.
West Fork of the Eno Reservoir	-	The reservoir is 9 inches below full (as of 8/31), with approximately 293 days of supply remaining. One of the old valves has been replaced, and we are working on replacing the other two with coated valves that are more corrosion resistant than the originals. New stainless steel stems are being installed on all valves to reduce corrosion and improve valve operation.
WFER - Completion of Wetlands and related permit requirements	\$ 100,000	PBS&J (formerly EcoScience) has found approximately 10 acres of shoreline wetlands that may gain additional credit toward wetlands mitigation requirements of the WFER construction project. A large contract with the firm may be necessary as the next step in developing designs, administering construction, and completing the required follow-up testing for wetlands permit requirements, but the approval of the shoreline wetlands will mitigate the amount of work needed. Construction will be an additional amount that is yet to be determined. We had \$300K remaining in the project budget, which we are utilizing for this work. Additional funding MAY be required at a later date. My hope is that any work beyond our current funding level can be delayed until the construction of Phase 2 of the WFER.
<b>Total Trihalomethanes (TTHM) Compliance</b>	-	The 3rd Quarter 2009 testing was performed in mid-August. These results were our best for the 3rd Quarter in at least 6 years (since we went out-of-compliance in 2004), and reduced our official 3rd Quarter average to 87 parts per billion (26 ppb lower than 2008 third quarter), which in turn reduced current running annual average to 62 ppb (6 ppb drop, annual average limit is 80 ppb -- 3rd consecutive quarter with at least a 5 ppb drop in our annual average!). Therefore, the Town remains compliant with TTHM levels.
Water Restrictions	-	Stage 1 withdrawal restrictions are in effect for the Town (1.51 mgd withdrawal without WFER supplement), and no restrictions for Town customers. Lake Orange is 6 1/2 inches below full.
"Unaccounted for" Water	-	We are evaluating locations with large water meters, to determine candidates for replacement. We are also trying to get second-round Federal Stimulus funds to proceed with our meter replacement project.
Miscellaneous Water Projects	-	Colonial Park water services have all been installed. We had 5 water main breaks on Exchange Club Road and 2 on Orange Grove Road in the last several weeks, and are investigating the causes.
<b>Fall Water System Flushing</b>	-	The Fall water system flushing operations began on September 3rd, and will continue through mid-October.
GIS Development	\$ 50,000	The primary work is complete and the data has been turned over to the Town Engineer. The only remaining water and sewer features to be mapped are those currently under construction or just completed (which will always be the status when facilities are new). Work will continue in future FYs at a reduced funding level to keep the GIS up-to-date and tweak the data.
Sewer Rehabilitation & Repairs	\$ 30,000	Sewer easements are being mowed in September & October. We continue to use the vacuum trailer, jet wash machine, and sewer camera to maintain and evaluate existing sewers.
Sewer Main Re-lining	-	We did not receive any "Obama bucks" for this project. Since the project is not specifically in the current CIP, this project will be shelved until funding is available. We will likely break the project up into less expensive portions to be completed over a number of years.
<b>Elizabeth Brady PS Upgrade</b>	\$ 200,000	Current Town funds will be used for design of the project, without the use of STAG funding. Most of the STAG funds are planned to be used to replace the Orange Grove Road and Exchange Park Lane water lines instead. Due to costs and coordination issues, bidding and construction of E Brady PS Upgrade is now anticipated to be merged into the WWTP Upgrade project. We are hoping to relocate the PS approximately 200 feet south of the current site.
<b>Lawrence Rd/I-85 Water Line Replacement</b>	\$ 250,000	Bids were accepted on August 13th. Funds were budgeted in FY09 and encumbered for the project. The proposed water main size was increased to 12" (existing line is 6") to provide a better flow path for water in the South Zone, to aid in distribution to and from the proposed Forest Ridge Subdivision, and to accommodate additional future system changes when an elevated tank is installed at Waterstone. Approval of the low bidder is requested on the meeting agenda. The lowest 2 bids were within the project budget.