

WAYLAND WASTEWATER MANAGEMENT DISTRICT COMMISSION

MEETING OF October 19, 2011

MINUTES

In attendance: Fred Knight, David Schofield, Sam Potter, John Moynihan

Absent: Bill Prendergast

Guests: None

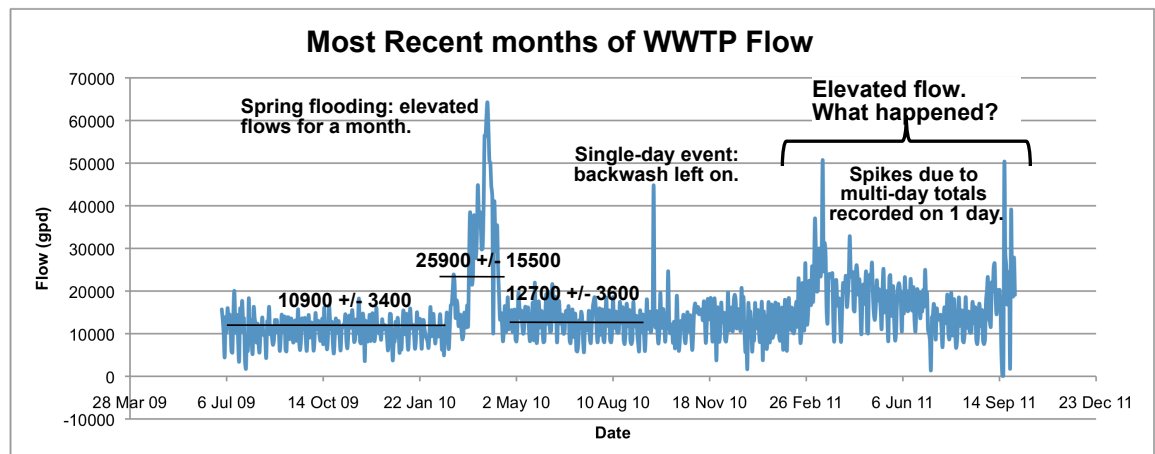
Meeting location: Wayland Town Building, Large Hearing Room

Chairman Fred Knight called the meeting to order at about 7:40 PM.

There was no public comment.

There were two topics for discussion at this special meeting of the WWMDC.

1. Evaluation of proposal and potential approval for hydro-geo study and permitting of leaching field at the Town Building to provide more capacity for effluent from the WWTP. This is to motivate the DEP to increase the allocation of capacity for the Town Center to 45,000 gpd using an alternative ground-water-discharge proposal. For background, see the White Paper in the documents section of the web site:
http://www.wayland.ma.us/Pages/WaylandMA_BComm/Wastewater/Documents/2011-08-DEPWaylandWWMDCWhitePaper.pdf. Note that the amount of proposed capacity is unknown at this time and will be determined after the hydro-geo study is complete.
2. Discussion of the situation of increased flow in the system over the past couple years as noted in the diagram. Up until the flooding of the Spring of 2010, daily



fluctuations were small. There was a slight increase (+1800 gpd average) in daily flow after the flooding. Then in February 2011 large increases started to occur. After February 2011, daily totals have been ranged up to 29,000 gpd. Of importance is the average flow over 3-12 months, depending on what period DEP

deems relevant to our operation with respect to increasing 20W's permitted capacity. There is a need to understand the origin of the significant increases since Feb 2011.

The Tighe & Bond proposal for the proposed leaching field at the Town Building has three tasks shown below.

TABLE 1
Fee Breakdown

Task	Labor Fee	Expenses	Total
1. Discharge Feasibility Evaluation	\$6,400	\$500	\$6,900
2. Hydrogeologic Evaluation	\$18,200	\$8,000	\$26,400
3. Groundwater Discharge Permit Application	\$2,600	--	\$2,600
TOTAL			\$35,900

Before discussing the details of the proposal from Tighe & Bond in item 1, discussion centered on finding an explanation of the increased flows over the past couple years, especially since February, 2011. John Moynihan explained that the increase was not due to the Public Safety Building, whose basement floor drain is actually connected to the wastewater pipe. John explained that water from the basement drain would only contribute if the basement floor was flooded, which has not occurred since April 2010. Thus, we should look elsewhere for an explanation of increased flows. The commissioners made suggestions for the cause(s) of the increases, but no cause could be definitely stated. John suggested that adding a flow meter to each user's outflow pipe was the only way to determine for certain the origin(s) of the extra flow. Flow meters are presumed to be costly (no estimates were available) and could be paid for using retained earnings or as an extra assessment.

The difficulty with this increased flow is that the addition of flow from 20W, assumed to be 50% of the 45,000 gpd capacity per Title V foundation, might put us over the 80% limit that DEP is going to apply to our new permit. Reasoning went like this. DEP might require that if our aggregate flow exceeds 80% of the current permit of 52,000 gpd average annualized flow, the new leaching field would have to be built at significant cost. There is no estimate yet, but the field's cost is assumed to be in the \$750k to \$1M range. Thus, in order to avoid the costly field construction, we need to stay below 41,600 gpd (80% of 52,000 gpd) averaged over 90-365 days, the averaging time range mentioned by DEP in initial conversation with them. With our previous flow (pre-2010 spring) of 11,000 gpd plus 22,500 gpd from 20W, the total would be 33,500 gpd, and we would still be under this limit. If the new level of ~20,000 gpd was added to the 22,500, the total might exceed 41,600 gpd and trigger the building of the leaching field. In summary, the WWMDC wants to proceed with the engineering design of the new leaching field in order to motivate DEP to grant the remainder of flow from 20W, but the WWMDC is wary that if flows remain at their current level, due to unknown causes, the leaching field will have to be built at significant cost to users.

In order to keep moving forward on the engineering design and, in parallel, consider how to deal with the mysterious increased flows, two decisions were made.

Motion by David Schofield, seconded by Sam Potter: Approve tasks 1 and 2 of the Tighe & Bond proposal but not the permitting of the new field with DEP (task 3). These are

1. Preliminary Site Evaluation: approved at a cost of \$6,900.
2. Hydrogeologic Evaluation: approved at a cost of \$26,400.
3. Groundwater Discharge Permit Application: not approved due to the WWMDC wanting to revisit the question of permitting before going to DEP.

Vote 3-0 in favor.

Motion by Sam Potter, seconded by David Schofield: Have Fred Knight and David Schofield investigate independently the purchase and installation of flow meters on all the WWMD users and report back to next WWMDC meeting (2011 Nov 9).

Vote 3-0 in favor.

Because of Bill Prendergast's absence, there were no minutes to approve.

The meeting adjourned at about 8:50 PM.

Respectfully submitted,

Fred Knight

Distribution:

Fred Knight

David Schofield

Sam Potter

Board of Selectmen