

To: WPCA Members
From: John Casey, Town Engineer
Department: Engineering
Date: March 23, 2015
RE: WPCA meeting

1. Clarifier Improvements project- This project is complete.

2. Poly-Aluminum Chloride project- In addition to the clarifier improvements, the DEEP modified their Order to include a requirement to add chemicals to the water that will improve the settling characteristics of the suspended solids in the clarifiers. In other words, the better these small floating solids settle to the bottom of the tank with the aid of a chemical additive, the less possibility there is of them overflowing the weirs and discharging to the river. The engineer has estimated the cost of this project to be \$350,000 which includes all the engineering and construction cost, including a contingency, for the chemical storage tanks, sensors, piping, and safety equipment to provide automatic feeding of the chemicals to the wastewater stream. We have submitted the design to the DEEP for their input. We are looking for the WPCA to authorize the funding and we will proceed to bid the project.

3. Pump Station Rehabilitation project- The engineer has completed the draft study and recommendations for improvements to 6 sanitary sewer pump stations. The stations studied were ones that were not previously upgraded by the town in the recent past and include Ryders La, Pecks Mill, Ryans La, Benton St, Oak Bluff, and Short Beach. It is possible that funding of the project could be accomplished through the state's Clean Water Fund program typically in the form of a 20% grant, 80% low interest loan on a first come first serve basis. Overall the renovation program is estimated to cost up to \$10 million over a period of several years. However, the engineers are recommending a first phase of safety improvements that would total \$387,000 at these stations which should be implemented on a more aggressive timetable.

4. Inflow and Infiltration Study- We are preparing to re-solicit engineers to evaluate the capacity of the town's collection system, including a study of I/I. The study is proposed to be budgeted at \$200,000. There may be state funding available in the form of a 50% Clean Water Fund planning grant if the town is interested in applying. The WPCA has already authorized \$175,000 toward this project.

5. Barnum Ave Sewer- The sewer replacement is under final design along with the Barnum Ave streetscape project. The cost to replace the sewer was estimated to be \$1M. A combination of lining and relocation could be done which would cost approximately \$750,000. (The engineer recently estimated the cost of sliplining the sewer east of this project to Edgewood Ave to be approximately \$175,000- The WPCA authorized this funding 4-22-13, so a combined project would be \$925,000).

6. Sewer extension projects- Regarding extension on Harvest Ridge Rd, we are having the wetlands flagged to determine if there are Inland Wetland Impacts as requested by the Conservation Officer. The bids for Oronoque and Harvest Ridge will commence following the wetland determination.