

To: Charles Karno
Ledyard Town planner

January 14, 2011

From: Steve Banks
WPCA Supervisor

Re: Capital projects for WPCA

The following is a list of Capital items for the Highlands WWTF:

- **High Speed turbo air blower system \$100,000.00.** Units are running at maximum speed in summer months and are supplying insufficient dissolved oxygen for process requirements. These replacement units are much more efficient and the power company is offering rebates for the installation.
- **Automatic Dissolved Oxygen controllers \$15,000.00.** This is coupled with the new blower system. This will also save money as blowers will ramp up and down and supply the programmed set amount of D.O. for the process. Nitrogen removal will improve as well.
- **Replace Duff Norton Decanter actuators for sequencing batch reactors \$30,000.00.** This is a newer generation of decanter equipment. We have spent about \$20,000.00 on repairs and replacement parts for the existing system over the last ten years.
- **Influent flow meter \$6,500.00.** The existing meter is unable to be calibrated properly on the low end of the scale. This is a D.E.P. requirement. The unit has also been submerged several times over the last ten years.
- **Thickened solids mixer \$20,000.00.** This is to enhance the solids removal process for incineration. The original design for recirculation of the tank solids is inadequate. We have to manually thin out the solids with water in order to pump the solids to the tanker trucks. This increases the number of truck loads to be removed.
- **Demolition of old plant \$20,000.00.** This is an accident waiting to happen. The old equipment is falling apart and creates a safety hazard.
- **Washer/grinder unit to replace the existing reacher screen \$80,000.00.** This is a D.E.P. requirement for the collection, washing, and compacting of screenings entering the facility.
- **Facilities Plan \$125,000.00 (Maguire Group).** This is also a D.E.P. requirement. We have completed Phase I and are eligible for a grant rebate from the State for this project.
- **S.C.A.D.A. upgrade from Windows 95 \$12,500.00.** There are several issues with the existing system that require attention. This upgrade would improve monitoring and control of the facility.