

# Hardwick WPCF Superintendents Report

August 14, 2017

## Completed:

7/13/17 Noted lower than normal flow for previous 24 hrs in Wheelwright. Kosla assisted Potter lifting manholes (suspecting a blockage) starting at pump station and working toward WWTP; noted no problems other than extreme grease buildup at lateral from 110 Barre Rd. Returned the following morning to shovel out this grease, line in back of blockage was surcharged and released slug of more grease/rags into system before we could catch it.

7/15/17 midnight and 7/16/17 6:30pm: Alarms at Wheelwright Pump Station. Both times level control float in ejector pot was cleaned, restoring operation. Another alarm 5:45 am 7/21/17 and 7/22/17, 7/23/17 changed solenoid for pneumatic 3-way valve. Discovered problem again 6am 7/24/17, changed level control float w/ new unit and ordered spares (\$115 for 2). System appears to be back to 'normal'.

7/19/17 The slight wobble in #3 aerator (Gilbertville WWTP) has gotten much worse; attempted to run on SLOW instead of FAST; won't run in slow. Shut down mixer and started pumping out tank; 3 of 4 blades on lower impeller are snapped off from erosion. Running 2 aerators instead of 3 results in lower than ideal oxygen levels in warm weather; attempted to run #4 aerator on HIGH to compensate but mixer starts wobbling, motor gets hot. Suspect problem with lower impeller here as well. Dissolved oxygen levels dangerously low 7/24/17, have to run both remaining mixers on high and take a chance.

7/31/17 Kosla and Potter inspected manholes up and downstream of Mill Rd. on Rt 32 as follow up to odor complaint from resident on corner of 32 and Mill. Noted toilet paper, etc., around E1 pump well cover on her property (this appears to be source of odor as well) and advised she contact the installer for inspection/repair.

8/3/17 Theresa overnighted completed NPDES permit applications for Gilbertville and Wheelwright WWTP's to the EPA. I am working on paperwork to accompany another copy of the applications to DEP.

## Ongoing:

7/17/17 Ordered Franklin Miller lower unit to retrofit to Wheelwright Channel Monster. Decided to go with 11 tooth cutters over original 7 tooth and previously quoted 17 tooth. 11 tooth should deal better with wipes more commonly found in modern sewage without surcharging the line as a 17 tooth could potentially do. Price was \$8200 for model TM8508 includes shipping to Wheelwright WWTP. Delivered last week and purchased new chain fall hoist to assist w/ installation; plan to install this week.

-Wright/Pierce will scan and reproduce ancient maps for Wheelwright sewer system so staff here can mark them up and update them. We will need to determine type, length, and size of lines and mark manholes as they exist now. There is no concise map that anyone can find! GIS plan for Wheelwright sewer system as well as camera inspection of all lines and manhole inspections will need to be done in the near future per DEP.

-Attempting to reach original builder (John Costa of Kaman Automation) of control panel at Eagle Hill Pump Station to troubleshoot poor operation and/or reprogram system to correct problems outlined above. He will be back from vacation 7/11/17. Reached out to him a couple times, no response after initial contact. Reached out again to builder of panel, Don Deems, who will try John again and get back to me. I stressed that we need to get this corrected before another backup.

-Hazard mitigation meeting 7/24/17

8/1/17 Tom Couture (T&B) stopped at Gilbertville WWTP to share ideas for repair of valves and maintenance of them moving forward and show proposed fittings and hoses for backpressure valve modifications. Was scheduled for install today but the Town cancelled in hopes of finding a better, lower maintenance, solution.

### **Proposals:**

- We are required to have 2 licensed Operators M-F full time; we are not meeting that requirement now as we have no back-up Operator to cover for time off or time away. Rolands emergency license has expired and he cannot get another. He does still come in reliably when we need an extra set of hands, and is extremely conscientious and helpful, but does not meet the states requirements for a licensed Operator. This is an immediate problem but we still need to hire additional Operator(s) to satisfy the staffing survey and provide flexibility and safety. Likely, we will need another vehicle also.