

Hardwick WPCF Superintendents Report March 12, 2018

Completed:

- #2 air compressor motor at Wheelwright Pump Station failed again, just replaced March 2017. Lagrant electric ordered new and installed 2/22/18.
- Rich disassembled #1 Sodium Hypochlorite pump at Gilbertville WWTP for preventative maintenance and broke a screw off within head; much time spent trying to remove broken stud to no avail. Ordered new replacement pump \$1400.
- 2/13/18 Installed new (spare) pump #2 in Gilbertville pump station with help of M. Dougan. All 3 pumps running/pumping good now. New spare pump \$6885, it may be more economical to send out old pump for rebuild; had Rich drop off pump at Associated Electro Mechanics in Springfield on his way home 2/16/18
- BEC Plumbing had piping made up to run Influent lines at Wheelwright WWTP inside instead of outdoors and installed same 3/1/18. This should alleviate the issues of these pipes freezing in extreme cold. This has been a major issue at the plant and causes poor plant operation, overtime, material expenses, and the risk of a total plant shutdown. BEC needs to return to install a couple hangers and a ½" spacer. Also asked them to order us a 3" cast/lined ell fitting to keep as spare as they have failed in the past.
- 3/8/2018 Complaint of sewer backup at 86 Highland Terrace by Dan Lapearl via Marty. Dug manhole cover out of snow w/ Roland to inspect and find lines at Rt.32 running fine. Reported back to homeowner that it appears problem is on a non-Town line and he stated the problem took care of itself. Continue to be amazed at the inaccuracy of maps done in 2009 for this area by Weston/Sampson.

Alarm log:

- 2/16/18 9pm High Level Alarm SBR#2 in Wheelwright. #2 SBR not decanting. Needlessly complex system difficult to troubleshoot so lowered level in #2 to get through night. Potter and Kusmierczak returned 8am 2/17/18 to diagnose underwater airline to decanter as likely problem and drained tank to find line had kinked and ruptured. Replaced 1" airline with new after much struggle; no provisions were made to lift out decanter or safely/easily enter tanks.
- 2/28/18 5:45 AM High Level Alarm Wheelwright Pump Station. Responded with Roland and cleaned float, monitored station while it pumped down.
- 3/5/18 7:30 AM High Level Alarm Wheelwright Pump Station. Responded with Roland and cleaned float, monitored station while it pumped down.
- 3/6/18 6pm High Level Alarm Wheelwright Pump Station. Responded with Roland and cleaned float, lubricated 3-way valve, tightened solenoid on same. Monitored station while it pumped down.
- 3/8/18 6:30am High Level Alarm Wheelwright Pump Station. Responded with Roland and cleaned float, monitored station while it pumped down. Float hung up with sticky grease again.
- 3/11/18 11am High level Wheelwright Pump Station, cleared itself by arrival at noon (responded w/ Matt). Cleaned float, greasy again. Lubed 3-way valve.
- 3/12/18 3am High Level Alarm Wheelwright Pump Station. Compressors not running on arrival; float stuck if down position? Cleaned float again, inside pot is a milky colored floating grease. Increased pot firing timer from 10 seconds to

14. Removed grease ball from manhole across street in sidewalk, dumped some powdered "floating lift station degreaser" into process in effort to rid pot of grease. Manually fired pot later in day in effort to purge grease.

Ongoing:

-Reminder to find exact location of 'missing' manhole roughly located by Fletcher in January after spring thaw.

- #1 SBR in Wheelwright Motor arrived 2/12/18 and will schedule install.

-Eagle Hill Pump #2 Seal failure came back in February after just having seal replaced; swapped relay with relay on #1 per service dept on 2/9/18 to insure problem stays with pump not relay, problem stayed with pump. Xylem in Woburn (who just replaced seal) recommends we bring it in again and they can likely fix "while we wait".

Proposals:

3 of the cooling systems on our 4 composite samplers will need replacement by warm weather. \$3100 for the 3, \$500 for installation, plus \$750 (!) shipping. New outdoor rated composite samplers are \$5200-\$7000 each depending on brand. Negotiated complete price of 3 cooling systems down to **\$3294.50** after a few attempts; recommend we proceed with this but it won't be too many years before we will need new units. **Readdress closer to spring 2018?? Effluent sampler at Wheelwright most critical; cannot hold temperature within prescribed range set by DEP.**

-Recommend we get spare Influent Pump for Wheelwright WWTP. If both these pumps were to fail, the entire WWTP would be inoperable. Price for a new pump \$4000 plus shipping from Maine.