

# Hardwick WPCF Superintendents Report      February 12, 2018

## Completed:

- 12/19/17 Ordered new KSB Influent pump for Wheelwright WWTP from Adams Equipment to have as spare or as replacement for #2 pump which has been acting up(\$4000+shipping). Arrived 1/15/18
- 12/19/17 Approved Holyoke Lock to replace all padlocks and rekey/repair all entry doors in all facilities per quote for \$1902. Work completed 1/11/18
- 1/3/18 Witch Equipment bored (2) 4.5" holes through 18" wall at Wheelwright WWTP to facilitate re-piping of SBR influent lines to inside building to prevent freezing issues associated with same. Verbal quote via phone \$750. BEC Plumbing to measure and order new piping to complete same. This has been a major issue at the plant during extreme cold events and causes poor plant operation, overtime and material expenses, and the risk of a total plant shutdown.
- 1/7/18 Jim Young noted during Sunday rounds that broken sewer main in back of Rose32 is overflowing into the storm runoff brook from a hole in the main. Temperature -16 degrees F and 12" sewer main is above grade. Contracted Fletcher Drain (\$350) to come out with camera and locator to determine if pipe is collapsed/plugged/frozen and located area of solid ice. Ware Water Department responded with Jetter, after repeated attempts and refusals from many other jetting contractors, and successfully bored a hole through ice restoring flow and stopping overflow. Contacted Skipper Whitt who came out the morning of 1/8/18 and temporarily patched hole in main line. This line is not pitched correctly, appears it may be sagging, is brittle, and patched together. The upstream manhole has never been located and is assumed by some to not exist. This serves a large part of Gilbertville and is a priority for replacement/ re-engineering.
- 1/10/18 Fletcher came back to robotic camera previously frozen line to insure it is free. Found a large root/rag ball 75 feet up line. Called Ware to jet this out, on arrival their jet would not operate. Fletcher also ran a camera from Rose 32 down in effort to locate manhole that has never been found. Located a manhole 100 feet downstream but cannot locate the cover at this time; it is possible it may be buried under the stone wall that acts as a hillside retainer near the railroad. We know the rough location and hopefully can find it at a later date now. We have a flashcard with video of both inspections. Fletcher \$1000 today. Ware was able to return at 4pm 1/10 to jet line again w/ Potter; removed very large masses of roots and stones from upstream and downstream of repaired area on main line.

## Alarm log:

- 1/26/18 9pm Eagle Hill High Level Alarm. Force Main plugged below Butlers Garage, Back online 1:30pm 1/28/18 after considerable effort and expense.
- 2/12/18 #2 SBR high level alarm in wheelwright; did not call out. Flooded process building with sludge. Cleaned mess, rebooted computer and restarted WIN911 alarm system. Pulled rags from #2 SBR decanter guide cables and opened up decanting pinch valve slightly after testing auto decant valve operation. Appears that SBR #2 was not decanting fast/far enough

## Ongoing:

- Jason Gerulaitis noted he would be attempting sewer connection for Kathleen Verratti on 24 Pine St. at some point.
- Gilbertville Pump Station pump #2 down on motor overtemp. Never called out an alarm. Contacted original controls builder R.E.Erickson to have a look at this and determine if faults/alarm system is wired correctly. Technician arrived 1/17/18 and reconfigured alarms systems. Tested all alarms and dialer: look good now. Had him check out controls for #2 pump also and determined pump should be pulled as it may be bound up or have bad motor. We have a new spare

pump on-hand however nothing was ever installed to facilitate pump removal by staff. Mike Dougan came to assist with pump removal 1/18/18 but pump would not pull up past the guide rail support; appears the support may have been installed after the pump was put in and not tested for functionality? Contacted original installer 1/18/2018 (Paul @ Pride Environmental) who was less than concerned or even cordial. Said they can set up an appointment to come out and assist for \$1200/day. Awaiting call. 1/6/18 after no response from Pride, contracted PVE to assist with modifying #2 pump bracket and pulling pump. Removed small amount of rags from pump and noted that pump is seized. **New spare pump \$6885.00 2/9/18; may be more economical to send out old pump for rebuild.** Lagrant electric wired new #2 pump and tested. Plan to install in wet well this week w/ assistance from M.Dougan.

-2/1/18 Assistant Chief Operator Young Informed Potter of shoulder surgery scheduled for 2/7/18.

-2/5/18 Young followed up and stated he will be out at least 3 months following surgery. Left calendar w/ Potter outlining what he would like to use for time off (first 2 weeks then 2 days per week), in addition to workers compensation, into May. Discovered that Young has been using 3 weeks vacation since fiscal 2015 and 3 personal days/year since start date when policy shows he only gets 2 weeks vacation and zero personal time? **Can someone clarify time off policies that Young is subject to and how much time an employee can use per week to 'pad' workers compensation?**

-2/9/18 ordered new motor for #1 SBR in Wheelwright to replace original that is screaming. ~\$1600. Motor for #2 SBR likely not far behind. Motor arrived 2/12/18 and will schedule install.

-12/20/17 Picked up repaired Eagle Hill pump #2 in Woburn. Scheduled K.Lagrant to reconnect wiring following morning. Staff reinstalled pump 12/21/17; would not start -presumed to be frozen and let sit in wet well to thaw overnight. Tested the following morning and it appeared to run/pump well; put back into Auto mode, alternating with pump #1. Seal failure came back in February; 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. Awaiting guidance from Xylem in Woburn who just replaced seal.

## Proposals:

-Try one more time to turn 3-way valve on first Eagle Hill line BPV inlet to enable us to put this BPV back into service? If this doesn't work, contract original installer to replace valve. Check downstream BPV for cleanliness and clean if needed, put back into service. Lately, the pump station has been running efficiently with valves in bypass.

11/15/17 NE3 repaired 2 of our 4 samplers per previous quote. Amount authorized was \$959, invoice ended up at \$784. In addition to these repairs, he states 3 of the cooling systems will all need replacement by warm weather and that the samplers are getting past their useful life. \$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??**

-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.

-My recommendation in regards to the proposed brewery. We should charge them based on actual usage and at a rate higher than residential (1.5X?), in lieu of requiring them to perform weekly or monthly testing as is required in many

communities. Because of the batch nature of a brewery (especially a small one), getting accurate composite samples would be very difficult.

-Hardwick needs to establish a grease trap program including annual inspections of all restaurants, etc., unless they are all grandfathered out of having one or not required for other reasons? Spoke to Justin at Board of Health; he plans to do some research on past practice and possible regulations; nothing in sewer regulations. Lois at BOH has contacted all food preparation establishments and inquired about the existence and upkeep of their grease traps and will follow up.