

Hardwick WPCF Superintendents Report May 14, 2018

Completed:

-4/13/18 Vent port from ejector pots at Wheelwright pump station rotted off, causing it to vent pressurized sewer gasses inside confined space area instead on within manhole. New fittings unavailable at Lowes or Co-op. Matt donated some fittings of correct size and repaired. Had the station experienced a backup while this was snapped off it could have been catastrophic.

-Had line from Rt.32 to Town hall camera'd 4/17/18 to find all clear, no major root intrusion at all. Plumbers agree that issue with previous backup was due to underfloor trap at Police Department. Only permanent solution would be to eliminate this trap (\$\$\$). They stopped using these in this type of application many decades ago for this reason: they are prone to clogging occasionally.

-4/17/18 Motor to #4 Aeration Tank at Gilbertville WWTP failed, tripping out breaker to same. Pulled motor from unused #3 Aerator and used same on #4. On start, sparks flew from electrical cabinet inside so shut down and called electrician. Obsolete motor starter and heaters are shot, stole those from #3 to get #4 running. This motor sounds bad also, contacted Lagrant electric to obtain new 2-speed motor per previous (2017) quote and attempt to find obsolete replacement motor starter/heaters (no spares on hand).

-4/20/18 K.Lagrant assisted in setting temperature sensor On #2 D.O. probe at Wheelwright WWTP back to factory calibration (needed adjustable resistor to do) and got D.O. probe operating and controlling air ejector valves and RAS pump speed again. Both D.O. probes are now working for the first time in many years, potentially saving electricity and pump/pipe wear especially in colder months.

-Entered Matt into alarm dialers at Gilbertville WWTP, Wheelwright Pump Station, Gilbertville Pump Station, Eagle Hill Pumping Station

-10" line on Pine street where ejector station discharges to was camera'd 4/17/18 to find bad root intrusions. Spoke to Marty about replacing 10-20 foot section of 10" pipe on the week of 4/23/18. 12 foot section of new line put in 4/24/18, eliminating several sections of old clay pipe that had very bad root intrusion.

-Flow to Wheelwright WWTP had diminished significantly over the long weekend of April 14-16: Pump station is operating and Pine street is not backed up at discharge of station (usual backup spot). Found backup further down Pine street as well as poor running line on School St., jetted both with small jet trailer and cleared both lines. Monitored WWTP while huge surge of flow came in.

-Mr. Rooter dug road to repair main sewer line just downstream from recent dig on Pine St in Wheelwright. They had lined customers lateral and pushed liner too far, penetrating and partially blocking our main line. They cut out cured liner and replaced connection with a Fernco "Y" saddle clamp.

-J.Young received doctor clearance to return to work in full capacity 5/3/18. As discussed, he will be reporting to Wheelwright WWTP daily from 7am to 3pm unless needed elsewhere.

Alarm/Call-In/Overtime log:

4/15/18 10:30am High level Wheelwright Pump Station. Cleaned float, monitored.

4/20/18 Wheelwright #2 Air Compressor motor not running. Troubleshooted and determined motor starter was issue; called in K.Lagrant who found loose wire on same and got running.

5/4/18 1pm Wheelwright Pump Station Alarm, high level. Young and Provencal responded and cleaned greasy float.

5/8/18 9:30 am Wheelwright Pump Station Alarm, high level. Potter and Provencal responded; cleaned greasy float, lowered duration of ejections slightly to maintain higher air pressure in system, adjusted #1 air compressor belt tension.

Ongoing:

-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:

-Jet hose to jetting trailer has delaminated to the point that it is dangerous and difficult to clean. Recommend we replace before using this jet again. \$500.

-The automatic cleaning barscreen at the Gilbertville Pump Station has worn to the point that the 8 cleaning assemblies are binding on the scraper bar ("debris blade"). Staff added low friction plastic to stainless scraper to get it running again but we should order spares in case a cleaning paddle gets damaged to the point it is not operable. Quote for 8 scraper assemblies and replacement debris blade: \$715.00 plus shipping

-We have been sharing a portable D.O. meter between both plants since the obsolete unit for Wheelwright failed a year ago. Especially now that we try to staff both facilities I recommend we purchase a new meter for Gilbertville and use the working unit we have at Wheelwright. \$826.50

-Purchase fittings and hose to allow pumping Wheelwright contact chamber sludge directly to waste sludge tank using #2 RAS pump. Roughly \$850.

