



City of Pataskala Utility Department
Nathan W. Coey, Utility Director

➤ **Utility Department Updates**

- **Resolution 2018-034**
 - A resolution authorizing and directing the City Administrator to execute a contract with Mount Water Well Drilling for the purchase of a new pump and motor for Well #2 at Water Treatment Plant 2. Due to failure this pump and motor requires replacement. This unit has been in service since the plant start up in 2008.
- **Resolution 2018-035**
 - A resolution authorizing and directing the City Administrator to execute a contract with Buckeye Pumps Inc for the purchase of a new high service pump and motor for at Water Treatment Plant 1. Due to one of the two current pumps requiring removal for service, it is appropriate to purchase a new pump during the service work. The timing will work to pull the pump needed for service and install the new to eliminate an additional service trip. Once the current pump is rebuilt it will provide an additional pump for use and satisfy an OEPA recommendation.
- **Project Update**
 - The Creek Road Water Main Project is complete at the time of this report. The new main and services are in use with restoration complete.
 - There has been a 12 PSI positive increase (51 to 63 SM/ 35 to 47 HM) in the system with this pipe line in service. 14,000 pressure readings were collected over a 5 day period (including weekends) at the base of the Headleys Mill Tower and Sugar Mill Subdivision. This was compared to the data collected in 2017.
 - Headleys Mill Tower is being put back into service to gauge any additional PSI increases and system efficiencies.
 - We will continue to monitor and adapt accordingly.
 - The preliminary design portion of WRF Phosphorus Project is underway. I am currently reviewing phase options with budget considerations. Due to another failure on the current press, we are looking at options to expedite a pathway to new a new dewatering machine.
 - The project goals to meet the new effluent phosphorus limits, legislated state wide, are as follows:

- A new biosolids dewatering unit to improve capture rate and reduce soluble phosphorus in the system. This more than likely will include a current building expansion to house the future unit.
 - *The traditional belt filter press and the centrifuge performed optimally in the test trials. A screw press trial is being considered.*
 - Aeration improvements for the bioreactor. This includes an upgrade to the mixing system and more efficient controls for the system.
 - *Currently reviewing a potential solution to meet the aerations needs for biological phosphorus removal.*
 - Pumping systems to efficiently control and monitor waste streams for phosphorus removal.
 - A back up chemical phosphorus precipitation feed system if regulations require a phosphorus limit of .5 mg/l.
 - Options for laboratory facility improvements to begin conducting additional in house testing in lieu of contractual service.
- Treatment Facilities
 - Well #1 at WTP2 was removed for service as the motor and pump has failed. This unit (2008) is the same manufacturer (out of business) that resulted in the failure of Well #2 last year. The new unit with installation costs can be completed for \$14,000.
 - The WRF dewatering press has encountered another bearing failure. The staff is currently working on options for repair. If repairs cannot be expedited in the next week mobile press services and expense will be required.
 - High Service Pump #3 is removed from service due to abnormal vibrations. This unit needs to be pulled for proper service work. The purchase of a new high service pump and motor will allow for installation at the same time of current unit removal. The rebuilt pump will provide a backup pump per OEPA recommendation.
 - The WTP1 Well Cleaning Project is scheduled for the week of August 6th.
- Distribution and Collection System
 - The 2018 Water Main Valve Exercising Program is under way. This is an effort to ensure valves operate as designed and are ready in the event of a main line break. Four valves (aged <25 years) have been found faulty due to corroded valve bonnet bolts that were not stainless steel. During the exercise work leaks surface and repairs can usually be performed under pressure.
 - The Headleys Mill Tower is currently in the sanitizing stage prior to reinstating service.

- The new terminal blocks and junction box has been installed at the Creek Road Lift Station.
- Billing Department
 - The Billing Manager continues to review potential technology changes in the Utility Billing Department.
 - Continual work regarding customer ACH authorization update standards.

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