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Southern Clinton County Municipal Utilities Authority

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"The Clean Water People"

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Maintenance—Keeping Things Humming

Preparation for the 2023 maintenance program has begun with the procurement of supplies and equipment. The staff has worked together to plan and prioritize the needs of all the stations.

We are updating our maintenance area to increase safety and efficiency in the work area. This will also be the new parking area for the combination sewer cleaner. They have also set up an area to stock more commonly used items to save dollars vs grabbing what is needed at the time. This will allow for bulk buying power.

Staff is rebuilding one of the large Flygt mixers in the EQ system. This pump has not been used in almost a decade. SCCMUA will use this pump to mix the basin as it is intended to be a wetwell during the bypass portion of the wetwell work planned in the project this year. It will be essential to keep things mixed as the EQ tank is larger than the current wetwell, causing an increase in detention time and the possibility of solids falling out of suspension.

Administration

This month, the staff is working on year-end and closing of fiscal year 2022 ahead of the audit scheduled for the first week in February. This is always a busy time of year for admin staff.

With the project bid opening this month, staff has also been busy verifying items and dimensions and scheduling walk through for various contractors. The project funding is also coming to a close, finalizing the resolutions and needed documents to ensure a



Maintenance at can lift stations is ongoing; all of these stations have been standardized to the Gorman Rupp pump to allow for a common parts inventory, saving time and dollars. These pump styles have a slight increase in maintenance over a submersible; however, they are more easily repaired and less expensive to complete the repairs than submersibles.

Staff will begin to work on updated SCADA telemetry for DeWitt Township. This is an ongoing project that SCCMUA implemented a couple of years ago to split the radio traffic and update the commonly available equipment. This not only benefits DeWitt Twp, but all of the users on the system. It allows for more reliable alarms and data to be transmitted by decongesting the radio traffic from one system to two.

SCCMUA was happy to take delivery of the new combination sewer truck that will service the communities for many years to come with greater capacities in all aspects.



smooth closing for SRF funding. However, after opening the bids, they were far higher than planned. Staff is working with vendors and consultants to lower costs without sacrificing the overall goal or quality.

Process—Making it Clean

NPDES Permit: All permit requirements were met. Total precipitation for the month was .61".

SCCMUA staff have been keeping busy with multiple projects around the facility and the never-ending preventative maintenance work. The RBC project is moving nicely; the tank has been cleaned out, all brackets under the surface have been inspected, and all diffusers have been replaced, leaving the shaft ends to be reviewed and milled if needed, and replacing all bearings.

The staff has been troubleshooting the east digester boiler due to issues maintaining the sludge temperature. After investigating, the team found that the boiler had a faulty upper limit thermostat. After replacing the upper limit thermo-

stat, the sludge temp returned to normal. The staff has been doing more work and troubleshooting on our boilers, which has benefited the Authority.

The staff recently removed and cleaned part of our supernatant piping. As supernatant is pumped, over time, a hard crystallized material called struvite will form on the inner wall of the pipe, eventually plugging the entire pipe. We make it a point to clean out the section of pipe annually that we know Struvite builds the most. Water was recently introduced to the supernatant line to try to minimize the impacts from Struvite. At the same time, it still forms in the pipe; the introduction of water makes the Struvite more

manageable to clean out of the pipe due to it being less hardened.

We are currently in the process of connecting our Influent and Effluent samplers to the plant SCATA system. This will allow for alarms to be sent to our alarm system, alerting us of no flow through the sampler which will, in turn, let us know that something is going on with the sampler or the sample pumps. With Influent and Effluent being a requirement in our permit, this will help catch any issues early vs. possibly hours later.



Inspections—The Scoop on the Poop

Miss Dig:

Tickets received: 212

Tickets marked: 54

2022 total received: 3,565

2022 total marked: 618

Inspections: 6

Projects:

DeWitt Township and Bath Township master plan work continues. Staff has continued to gather the requested information for engineers. They has been working on feasibility studies for future system expansion.

Plummer's Environmental completed the 2022 annual cleaning and televising. All videos have been submitted. The review will take place during January and February. Data from the videos will be used to update capital improvements to the system.

The ongoing GIS and Lucity database improvements continue. This project will improve the accuracy of the GIS and Lucity systems. The majority of the work has been completed in DeWitt Township. Staff will continue to make improvements as time allows.

Nottingham Fields has hit a bump in the road. During the pre-construction meeting, the developer and contractor were told all manhole adjustment rings would need to meet current SCCMUA standards. Damaged rings would need to be replaced and external sealant added to the chimneys. The contractor did request an inspection of the manholes prior to base course asphalt installation. SCCMUA is working with Watertown Township. The contractor will be required to meet SCCMUA standards.