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## Southern Clinton County Municipal Utilities Authority

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Southern Clinton County Municipal Utilities Authority  
"The Clean Water People"

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### Maintenance—Keeping Things Humming

The maintenance crew were busy during and after the storm that impacted so many in the region. Our western front received the brunt of the storm's impact, knocking power out for nearly five days. During this time, the team monitored generators and fueled the portable generators daily. One generator did have a significant failure, although it failed in a way that it would continue to run just not transfer back to line power. The team had to manually transfer power back to the utility side and diagnose the problem. Again, as we are well accustomed to, a board failure was the culprit and unfortunately, the model is no longer supported, so a new transfer switch is the most economical fix.

Our crews also assisted the City this month when heavy rains caused excessive stormwater to flood a small area. They were able to get a plugged line opened and video the line to provide information to the City on appropriate further actions, if needed.

A new pump was installed at station 210 in Bath Twp, while the pump removed will be brought back to the shop and gone

through to evaluate if it will be a viable backup. The pump remaining in the station was inspected for wear and adjusted to factory specs to ensure efficiency.

Radio upgrades have continued in DeWitt Twp. This started a few years ago. By utilizing an unused frequency, we divided the system to allow for less radio traffic and increased data collection. The process continues this month with three more stations switched over. We work closely with a contractor to assist in the programming of these; however, our staff can build and install all components to save money and allow for an increase in capabilities.

A new chemical feed pump was installed at station 209 in Bath Twp. This will feed very small dosages downstream providing biological treatment for H2S reduction. This is still in the testing phase, but we hope this is a more cost-effective and traditional treatment operation while keeping biological activity viable.



### Administration

A new operator started this month. Jesse Sotto comes to SCCMUA with a background in machine repair and tool and die work. Jesse has a young family and is looking for a lifelong career; we could not

be more excited to have him on our team.

Continued meetings working through project logistics and submittals have continued with no firm start date, but it will be soon.

The potential Bioworks partnership agreement is nearly ready to send to the D&P committee for review. Bioworks and SCCMUA have recently ramped up conversations to keep things moving forward.



PicMix

## **Process—Making it Clean**

NPDES Permit: All permit requirements were met except ammonia. Total precipitation for the month was 4.03".

SCCMUA violated the daily Ammonia limit due to a surge of high flows caused by a rain event. The event produced a lot of rain in a short amount of time. Therefore, this caused the detention time through the RBCs to be shortened, resulting in an effluent ammonia result of 2.27 mg/l with a daily effluent limit of 2.00 mg/l.

SCCMUA staff had all hands on deck while repairing a broken, non-potable line between the old digester bldg. and the chlorine contact chamber. The team used the new Vactor truck to hydro-excavate down to the break's depth and the truck's pump-off feature to remove

water from the repair site. The repair was made by capping the pipe and rerouting to fulfill process needs.

Biotech Environmental is in the process of hauling biosolids. They are emptying both the north and south sludge storage tanks. Land application is taking place on a 100-acre field off Cutler Rd in DeWitt Twp; this is the second haul of the year.

RBC shaft repair is underway and moving along nicely. An air header in the 1<sup>st</sup> stage of the C2 train of the RBCs broke while under operation. Staff sprang into action, pumping the tank down for a thorough inspection of the break, cleaning the broken area of the pipe, and repairing it with a glued-in coupler.

The tank is filled and back in operation.

Staff are keeping up with scheduled maintenance and any pop-up maintenance items that may arise. Most recently, both main plant air compressors have been gone through and serviced, including fresh oil changes and the installation of new air filters for each. A unique rotating assembly was installed on our #1 effluent pump, which was completed due to a bearing failure in the previous rotating assembly. Staff will rebuild the rotating assembly they pulled out and place it on the shelf for future installation. Staff noticed a leak and completed a repair on the supply line that feeds the eyewash station in the ferric chloride room. A new feed valve controller was installed in our sulfur dioxide room as it had failed due to a power glitch issue during a previous storm. A new transducer was installed in our supernatant decant chamber.

## **Inspections—The Scoop on the Poop**

### **Miss Dig Totals:**

Miss Dig Requests: 496

Miss Digs Marked: 95

Inspection Services: 7

### **Projects:**

Shadybrook phase III work continues. The contractor completed installation of the sanitary sewer. Air testing resulted in a section failure due to a defective gasket on a fitting in a lateral. The contractor was able to locate the defective fitting and replaced the fitting. The remainder of the testing will be completed in September.

Staff has completed drawdown tests at all the stations. Drawdown tests are another method to check the effectiveness of the pumps. Crews time how long it takes to fill and pump down a certain amount in the wet well, typically one foot. Each pump is tested three times and then averaged to get the best representation of the effectiveness of

the pump.

A new commercial building is under construction on Saginaw St in Bath Township. Public sewer was installed to the back of the lot for future buildings. All testing has been completed and passed. We are now waiting for record drawings to be completed.

Nottingham Fields development has finally moved ahead. After a long delay, the developer corrected all the deficiencies in the sanitary system. New homes should be breaking ground in the upcoming months.

The new mainline camera has arrived. Staff were able to remove all the old equipment from the camera van. The new camera is a great improvement over the old camera. The system takes up a quarter of the space of the old system. The camera is easier to lower and retrieve from a manhole and is easier to operate. The imagery is greatly improved. Staff looks forward to many years of service from the new system.