



October 19, 2021

## Southern Clinton County Municipal Utilities Authority

Volume 14 Issue 10

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

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### Maintenance—Keeping Things Humming

Crews continued to work on stations in Bath Twp this month. Station 207 in Oak island had a loose base that was repaired. Staff made a plan, shut the station down, and made an entry to fix the issue and resecured the base to the floor. Additionally, a new lid and guide rail bracket was installed at station 204 on Park Lake in Bath. Additionally, a new access hatch was installed on the vortex manhole at Twinbrook where station 201 discharges Bath flows. When the vortex plugged, staff realized that the original design did not allow the insert to be cleaned effectively. Staff worked to identify the proper lid, allowing easy access for future preventive maintenance.

Annual clearwell maintenance has been completed. The clearwell stores water to be used in our backwash cycle, providing ample clean water to be pushed back through the filters releasing trapped sediment back to the head of the plant. This tank builds algae and other aquatic growth throughout the warm months that needs to be manually removed annually to prevent an issue with the backwash

### Administration

Interviews have been conducted to fill the position that will be vacant at the end of the month. The staff is currently working through the process to choose a candidate.

Director Gurski and Moore and Bruggink met with representatives from EGLE to discuss State Revolving Funds (SRF), which SCCMUA has expressed interest in.

SCCMUA participated in DeWitt Township's National Night Out and there was a lot of interest from the community about our process and our equipment. This was an excellent opportunity to talk with members of the community and share our stories.

pumps.

A few pumps have been ordered out of the budget account to replace some of the system's older or problematic pumps. Typically, SCCMUA begins to look very hard at pumps nearing 20 years old. These pumps are at the top of the list for replacement when financially feasible.

Generator annual maintenance has continued. This preventive maintenance measure helps identify issues before they become a failure. Batteries and coolant are tested to ensure proper strength for the coming cold months, which has the most significant potential for failure on these components.



## Process—Making it Clean

NPDES Permit: All permit requirements were met. Total precipitation for the month was 3.93".

The staff has created a baffle system mounted in our non-potable water tank, which was built to keep the water's surface as calm as possible. Before this idea was implemented, water would dump into the tank from above, agitating the water's surface. Due to the agitation, the tank's level indicator would not read correctly and sometimes caused the tank to overflow.

Staff recently replaced the thermal in the electrical bucket that powers our chlorine (CL2) aerator, which has not been run for some time. They also installed an inline timer for the aerator to run throughout the day; run-

ning the aerator continuously will help raise our dissolved oxygen (DO) content and keep the inner ring of the CL2 contact chamber clear of weeds and algae due to the agitation of water from the aerator.

We have been busy with PM work on equipment throughout the facility. Staff has recently pulled, inspected, and replaced an effluent pump that had been slowly declining. That pump will be rebuilt and put on the shelf as a backup. We have 3 pumps in the effluent bldg. Running one pump at a time, they are alternated every week but run 24/7 when in service. The effluent pumps supply water to CL2 for disinfection, our sulphur dioxide (S02) for

dichlorination, hydrants and hose bibs throughout the facility, and seal water lines for pumps.

Staff has pumped and cleaned the ferric day tank and moved to the east storage tank. Then they will clean the west tank. Cleaning out the ferric tanks is a tricky task; ferric is very corrosive and will eat away and rust out anything metal that it comes into contact with. Staff researched and came up with an all-plastic pump for sale on Amazon. We bought it, gave it a try, and it is working great!



## Inspections—The Scoop on the Poop

### **Miss Dig Totals:**

Miss Dig Requests: 580

Miss Digs Marked: 127

Inspection Services: 11

Plummer's Environmental is cleaning and televising sections of sewer in all four municipalities. They should be finished by the end of October. Once the videos are turned over to SCCMUA, staff will review and update repair plans as needed.

Plummer's Environmental is also installing spot patch repairs in DeWitt Township and the City of DeWitt. Numerous defects have been identified through the yearly maintenance program. Defects are prioritized by the severity of the defect and the overall impact on the system and municipal infrastructure. Spot repairs prolong the serviceable life of the reach and prevent costly replacement and disruption to the system and community.

### **DeWitt Township**

Thomas Farms: Work has begun on phase 1A. Phase 1A will consist of 34 single-family units in the Northeast corner of the property. After much discussion and review, the sanitary sewer for this phase will connect into the 12" sanitary sewer in Clark Road. Phase 1B, which will consist of 18 condominium units, will be located to the West of phase 1A. Phase 1B will also connect to the Clark Road sewer. Plans are being completed for phase 1B and construction should start yet this year.

Quarry Village: Waiting for the contractor to perform the last manhole test.

### **Bath Township**

Webster Rd Extension: Installation and testing has been completed and passed. KEBS is working on record drawings.

### **City Of DeWitt**

Wildflower: Testing is completed and testing passed. Waiting for final record drawings.