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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

Standby emergency power continues to be a topic in this month's report. A weekly test of the Sandhill backup generator prompted operators to act quickly when the voltage regulator failed, which increased the voltage to 600 on a 480 system. The operator got it shut down quickly to minimize any damage caused by the voltage spike. A temporary generator was brought in while parts were located to make the necessary repairs. Luckily we were able to retrofit an updated regulator in the system and it is now operational.

Odor control work continues in Bath Township as we continue to reduce odors and the impact to the residents close to the discharge locations. A revised odor canister system that was tested at station 501 and has been relatively successful is being implemented at station 208. This system is inexpensive to build and maintain and will help get odors reduced and purge the air higher so odors can be better dispersed.

SCCMUA is working with a vendor to try radar-level sensing in some of our critical stations. Many innovations have been

made in level sensing, which has made them more reliable. Our current level sensing device is a submerged pressure transducer. Since it is submerged, they tend to get plugged with grease and be impacted by rags. Radar will be out of the elements and is reliable in fog and mist conditions typically found in wetwells.

SCCMUA crews have been replacing the submersible pump cooling jacket fluid. This is a necessary but time-consuming process as the pumps need to be pulled, drained, inspected, and topped off with fresh fluid. This fluid helps keep the pump motor cool during frequent starts and long run cycles.

At station 102 in DeWitt Township, an air relief was rebuilt; it was showing signs of failure. This station utilized a large T8 Gorman Rupp pump that uses a suction lift. This type of operation relies heavily on a properly functioning air relief valve and is one of the items regularly inspected.

Administration

As we anxiously await our meeting with EGLE on May 28, SCCMUA and the Moore and Bruggink team continue to confirm findings in the model with support from additional internal samples. Our justification will be based around a 6 MGD flow that is very conservative and achievable in most of the current plant structures.

SCCMUA was lucky enough to have one of our past seasonal help return for another season. This is highly beneficial as minimal training is required. Welcome back, Alex.

Staff met with the Design & Policy committee to review the long term CIP and the 5 year CIP. The budget will now

move on to the Budget & Finance Committee.



Thankfully, our operator who was mowing, saw these little cuties!

Process—Making it Clean

NPDES Permit: All permit requirements were met. Total precipitation for the month was 1.61".

The RBC project for the A-2 Train is complete; the finishing touches of this project consisted of bracing the baffles in between the RBC'S together hoping the baffles last longer without the possibility of damage. The staff did a great job maintaining pace and completing the project ahead of our end date goal.

The East Primary Clarifier has been emptied, cleaned, and serviced. Staff will service the Secondary Clarifiers next. The team has recently rebuilt a T-6 rotating assembly for one of our mudwell pumps, and a T-4 rebuild kit has been ordered for our other mudwell pump. These rebuilt rotating

assemblies will be placed on the shelf for future use. The staff has also swapped out our Secondary Sludge Pump rotating assembly with a recently rebuilt one. Rebuilding and replacing pump rotating assemblies increases the pumping capacity, making the pump more efficient.

In preparation for the meeting with EGLE regarding plant capacity, we have conducted BOD testing in between the RBC's of the C-1 train to input into the model for more advanced data and knowledge.

PFAS testing is a monthly requirement. We have been under the past water quality limit of 12 ng/L (ppt) for the past year. We sample all 28 compounds of PFAS and report the

data we receive to EGLE each month.

Early results of the gel-like tabs placed in the Watertown Sewer system to reduce BOD and Ammonia look like the tabs seem to be working. We started with ammonia levels of 122.4 mg/L and have steadily declined to as low as the mid-40s (mg/L). Testing is still in progress to ensure the results maintain consistency, but as of now, the gel tabs seem to be working. To maintain effectiveness, the gel tabs need to be changed out every 30 days.

Sludge haulers are expected to be out within a couple of weeks to empty both of our sludge storage tanks for the spring haul.

Inspections—The Scoop on the Poop

Miss Dig Totals:

Miss Dig Requests: 591

Miss Digs Marked: 90

Inspection Services: 9

Projects:

DeWitt Township

Thomas Farms: Located between Clark Rd & Solon Rd, will contain a mix of condominium and subdivision development to be completed over multiple phases. Tentative plans have been submitted and are under review.

Bath Township

Webster Rd Extension: Pipe has been installed. Testing has been completed and passed. KEBS is working on record drawings.

City Of DeWitt

Wildflower: Work has begun on the fourth and final phase of Wildflower Meadows Condominium. Sanitary installation has been completed. Testing will begin in May.

Watertown Township

Lakeside Phase 11: No change. Record drawings have been submitted and are under review.

Deer Creek III: Testing has been completed and passed. Waiting for record drawings.

