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Southern Clinton County Municipal Utilities Authority

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Inside this issue:

- Process—Making it Clean 2
- Inspections—The Scoop on the Poop 2

Maintenance—Keeping Things Humming

Annual pump maintenance has continued in all of the municipal collection systems. This is done to change oil and cooling fluids on a preventive maintenance schedule. It also provides an opportunity for inspection of other components at the station that are usually not seen.

SCCMUA staff has been looking at concrete pipe integrity as it is susceptible to H₂S. Many of the lines are larger and have force mains entering them, increasing the likelihood of H₂S being present. An example of this was the Ann Dr interceptor failure nearly four years ago in Bath Twp. Standard concrete pipe will need some lining in its lifetime to keep it viable for an extended amount of time in the sewer system. We work to monitor this and develop projects to protect the asset and users.

Air relief preventative maintenance work has started. Crews have worked to mark all the air reliefs in the system. These air reliefs are installed in high spots, allowing air out of the pipe, thus allowing the pipe to flow correctly. Without these, the pipe would act like a straw being put in a fluid

with your thumb over one end, not allowing fluid in our out, causing a hydro lock or airlock condition. These air reliefs can become plugged causing inefficient pumping, or worse, an SSO condition.

Thermal imaging is being completed on electrical equipment in the collection system to look for loose or failing parts in the system. Something as simple as a loose terminal lug has the potential to generate an arcing condition internally melting the connection and shorting or opening the circuit. The thermal imagine helps find these hot spots where our crews can make the necessary repairs to avoid catastrophic damage.

Soft starts were installed at LS 209 in Bath Twp to lower the incoming current and help prolong the life of the motors and pump components. These soft starts replaced the aging solid-state starters, which had been reused from the old station.

Administration

Committee meetings have been held for the 2022 budget which is now ready to go to the Board.

The most recent MERS Actuarial is finally showing some good news for a change. The Authority's liability is holding steady and showing signs of climbing back towards being fully funded. This has been driven by additional contributions and good returns in the market. SCCMUA is optimistic this trend will continue and costs will begin to decline.

The long road started with the facilities plan which progressed into a plant model and is nearing the end with talks with EGLE going well. SCCMUA was able to demonstrate the ability to effectively treat

more that our current basis of design indicated. At our July Board meeting, SCCMUA will have more to talk about as we consider our path forward and address improvements needed into the future.

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Process—Making it Clean

NPDES Permit: All permit requirements were met. Total precipitation for the month was 1.8".

Staff has serviced and put back online our west secondary clarifier and they are in the process of pumping down the east secondary clarifier to clean and service. This is done by a process that does not overwhelm any downstream treatment process. Staff take the clarifier out of service, flush it with effluent water for a few days, and then proceed to pump out the clarifier at a low flow rate. Once completely pumped out, staff enters the clarifier, grease all moving parts, and inspect and replace any possible wear items.

The staff has also replaced an oil cooler on one of our two Kaiser (main plant) air compressors. Staff noticed an oil leak during service and found the leak by using a leak detector kit that uses a dye to detect the leak. These main plant air compressors are crucial to our treatment processes and supply air to all of our sludge pumping valves, digester, and the aerated grit.

We are starting the process of rebuilding all of our Victaulic sludge valves. These valves were installed back in 2003 and the internals are due for replacement. Given the age of the valves, we

have found that some are leaking, causing some short-circuiting under certain pumping conditions. This will also make it easier to service and isolate individual valves when needed.

The biosolids spring haul is complete; Biotech Environmental hauled and applied to a 65-acre field in Eaton county. SCCMUA will be required to sample our Biosolids for PFAS once/year per new EGLE requirements from this point forward.



Inspections—The Scoop on the Poop

Miss Dig Totals:

Miss Dig Requests: 530

Miss Digs Marked: 64

Inspection Services: 11

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 comments were returned. The engineers for the developers are now working on construction plans.

Quarry Village: Pipe installation was completed last fall. The entire system passed the air test at that time. To allow construction to begin on the front buildings, testing was completed and passed on the front four reaches. The remaining three reaches have just been tested. One reach failed the mandrel test. An air test will be performed again to ensure the deformed section of pipe is not allowing infiltration. Quarry Village is a private system. As long as there is no infiltra-

tion, repairs to the deformed pipe will be up to the owner.

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 be completed mid June.

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.