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Southern Clinton County Municipal Utilities Authority

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With the wet weather, flows have been elevated above normal with a million more gallons per day in late April and early May. This increases the plugging of pumps as the increased flows can move heavier debris which can settle out in normal flows. Crews have stayed diligent in monitoring these plugs and vacuuming debris that collects in the stations.

SCCMUA has been dealing with ongoing communication issues with various stations. The moist atmosphere has found some weak links with connection points and cables. This is not uncommon but what is uncommon is the number of failures seen. We suspect that many of these station communication systems were put online in the same time frame, so the wear and failure rate is nearly the same time frame among the stations. Thanks to great staff, things have been getting repaired and handled quickly. Additionally, more stations are being separated onto a different frequency with digital radios, which will help with the timely transmission of information and help to eliminate bottlenecks.

Liftstation 501 has had long-standing odor complaints, most of which are the natural smells from the collected product

but they are not pleasant. One part of the issue is the condensed area the station is in which promotes little air movement. To help with this, a vent system was built to extend the collected air higher up to the top of the building to allow access to a more diverse air stream with the hope of getting the smells away from the residents close by. We will be monitoring this plan and adjusting it moving forward.

As flows start to hopefully calm down, staff will be moving quickly into the summer maintenance plan which involves station rehabs including new pumps and controls in three communities. Staff will not only be replacing items but also performing many preventative maintenance items with the pumps and electrical equipment. These efforts help save catastrophic failures and are tools for future planning.

In DeWitt Twp. station 107 on Turner Rd. had a forcemain failure which required an excavation near the station. This was an emergency dig and repair.

Administration

SCCMUA was able to participate in a couple of outreach programs with help from local school districts and Michigan Works. MI Career Quest was hosted at the Lansing Center where nearly 3,000 students in grades 7 thru 10 came to look at different career fields. Director Gurski participated with MWEA along with East Lansing

and the City of Grand Ledge to educate children on the need for water and wastewater treatment along with other municipal the career possibilities.

Staff also spoke to HS students at St. Johns High School about the wastewater process.

This year, two seasonal employees have been

hired to help with mowing and general upkeep of the stations and plant grounds. This is a great help to SCCMUA and gives young adults a chance to get into the workforce.

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

3671 W. Herbison Rd.
DeWitt, MI 48820
517-669-8311
www.sccmua.com
www.facebook.com/sccmua

Process—Making it Clean

All parameters of the NPDES permit were met.

The emergency transfer switch has been installed and tested. The installation and startup took four days to complete. Installation of the switch with temporary power went very smoothly. One issue was found during startup on the generator; the main operating board in the generator was found to be defective. Fortunately, we had a spare on hand. The board was replaced and is operating normally. The old board was sent in to be repaired and will be put on the shelf for future needs. The system will now operate all necessary components in the plant automatically including the second blower that previously had to be operated manually. This was done by integrating a timing sequence when restarting the blower upon a power failure.

Staff redid the mud well piping and main pump. This was done to install valves on the discharge side of the pumps. The original design caused the valve to become inoperable after a period of time. The discharge piping was redesigned which allowed for more room and the installation of the valves to isolate each pump without shutting down the entire system. Additionally, a new rotating assembly was installed in the main pump as it showed signs of extreme wear. The assembly will be rebuilt and put on the shelf until it is needed.

Annual service on the primary and secondary clarifiers has begun. This is an annual procedure but is often more frequent in the secondary clarifiers due to the need for increased attention where

the swing arm on the bottom of the clarifiers needs to be repaired.

The Spring biosolids application has been completed with the emptying of most of the storage capacity. The weather has not been very cooperative. This will be enough to get us into late summer, early fall.

Inspections—The Scoop on the Poop

Miss Dig:

151 marked tickets

582 total tickets

Inspections:

13 inspections

Projects:

DeWitt Twp.

Crowner Farms III: Work proceeds slowly due to weather. Manhole vacuum test is the last remaining test to be completed.

DeWitt Crossing South: Work has begun. Contractor submittals were reviewed and approved. Work proceeds slowly due to weather and unknown utility conflicts. TL Contracting is

working to resolve conflicts.

Bath Twp.

Chandler Lofts/NOCA: Work has begun. A portion of the new sanitary sewer main has been installed. Chandler Rd boring is to begin mid May.

City of DeWitt

Oaks IV: Revised drawings were recently submitted and are under review.

Wildflower Condos III: No change; contractor has completed punch list items. Still need to complete vacuum test on manholes and record drawings

Watertown Twp.

Lakeside: Phase 11- no change. Manhole vacuum testing is the last remaining test to be completed. Developer is planning work in the next phase. A portion of the pipe was installed sometime ago. Several defects were discovered during cctv inspection. Developer is working to make repairs on those defects.