

## **Maintenance Monthly Activity Report for July 2025**

### **Overall**

The Ford F750 dump truck is complete and ready to be put into service. The logos and accessories have been installed. The tarp system will be installed in the week of 8/25. We experienced an issue with air loss in the brake system during operation. Morrow Brothers picked up the truck and replaced connectors in the air system under the dash. The truck has been returned, and no other issues have occurred.

The service body installation on the new Ford F550 4x4 is in progress. The truck is in the final stages of assembly and testing. We should receive the truck in September.

The Cushman 800G utility truck works well in the operations department. On future units, we will opt for the larger bed to give the trucks improved utility. The trucks have good visibility, good airflow during hot weather, and operate quietly.

We are currently reviewing PM schedules across all buildings and adjusting them where needed. As part of this process, we're uploading O&M (Operations & Maintenance) manuals, photographing all assets, and verifying that nameplate data is accurately reflected in Beehive. Completed JSA (Job Safety Analysis) forms are also being incorporated into routine tasks.

The transition to Beehive 2.0 has been delayed, and we're awaiting an updated timeline. In the meantime, we continue to build out the inventory module within the Beehive system.

We have Altorfer on site to repair multiple major hydraulic leaks on our 22 year old backhoe. Multiple cylinders will need to be rebuilt, and seals will be replaced. The backhoe will be out of service until the repairs have been completed.

Due to an accumulation of plastics around the mechanical seals, both Foul Sewer pumps at 7<sup>th</sup> Ward failed in July. The repair of the pumps will take a minimum of 6 weeks. We removed pump 1 from St. Louis Bridge and installed it at 7<sup>th</sup> Ward. It is now back up and running. Both repairs have been approved and are now in process.

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### **Information Systems and I&C Monthly Activity**

- Assisting Bodine Electric and Engineering with the Damon Ave power upgrades. Set up the transfer switch and verified SCADA indications.
- Working with Engineering and Contractors on the new Administrative Workforce Center.
- Established inventory to make sure we have the spare VFD's in stock for Forest Ave, Woodridge, Spring Creek, and Hickory Point pump stations.
- Working with the M.I.S. Coordinator on the new Microsoft Teams phone system. Phones will be rolled out in the coming weeks, allowing staff to become familiar with them before the full implementation.
- PM and Corrective Work Orders
- Setting up the controls and wiring for the new Nuhn lagoon pump at Wyckles.
- Rebuilding level controls and pump starters for the dewatering wells on the south end of the plant. Added new level controllers and level probes to PW-1, D-27, D-28, D-29, D-30, and D-31 wells. Staff is working with engineering to adjust start and stop points on the wells to optimize operation.
- The I&C team is addressing operational issues with the 7th Ward CSO gates. To improve reliability and eliminate electrical interference, the team will pull new wire to the gate actuators to ensure clean signal transmission and install noise filters on the actuator input lines to prevent unintended gate movements caused by electrical noise.
- Worked with maintenance on the rebuild of the RAS pumps. Replaced the associated conduit, pulled new wire, replaced seal water solenoids, and verified proper operation.
- Since the installation of the new Auma actuators at Lincoln Park, we've encountered unexpected gate operations occurring outside of intended control sequences. Working closely with Dorner and conducting extensive diagnostics, our Instrumentation & Controls (I&C) team identified the root cause: induced voltage on the control lines, which was inadvertently triggering actuator movement. To resolve this issue and prevent future occurrences, we will be installing electrical noise filters on all actuators. These filters will mitigate electrical interference and ensure reliable gate operation aligned with system commands.

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### **Mechanical Maintenance Monthly Activity**

The mechanical maintenance group has completed or is working on the following:

- Preventive Maintenance Work Orders
- Telescan will be onsite the week of 8/18 to perform an inspection of the underside of the lid on secondary digester #2 using our submarine camera. The inspection will help us identify our best path forward with the repairs to the lid.
- RAS pumps #1 and #5 have been fully rebuilt and are now in service. Maintenance staff will begin the rebuild on RAS Pump #8 this month.
- Outside maintenance staff poured and finished the new sidewalk at the Damon pump station. Both power feeds are now in service, and the transfer switch is operating normally.
- The Sewer Cleaning crew has been working with TeleScan to clear roots and identify manhole locations as part of the televising contract. They are raising manholes to grade and coordinating with Engineering to ensure all locations are accurately reflected in the GIS system.
- The Buildings & Grounds crew cleared an area that has eroded on the south end of Taylor Avenue (off Sunset). Engineering has contacted the City of Decatur, as it appears the extensive erosion is being caused by stormwater runoff.
- Preparation for the upcoming land application season continues this month. I&C and Maintenance finalized the setup of the new Nuhn lagoon pump that will be used in the east lagoon. The pump is in operation and is being utilized to top off the east lagoon. The pump is working well and should be less maintenance and labor-intensive than the dredge.



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### **M.I.S. Department Monthly Update**

- Network Administration, Helpdesk, Troubleshooting, and Repair
  - Ongoing network and user administration.
  - Received all the TEAMS VOIP equipment
    - Set up and locally test teams calling.
- Projects –
  - Creating Call Flow for the new phone system
    - Planning cutover date

### Email Statistics

Month-Year	Total Inbound Email	Rejections (includes viruses & spam)	Legit Inbound Email	% Rejections	Total Outbound Email	Total Internal Email
Aug - 2024	8,465	2,903	5,562	34.29 %	1,316	8,228
Sep - 2024	8,905	3,001	5,904	33.7 %	1,705	7,832
Oct - 2024	9,445	2,941	6,504	31.14 %	1,862	8,293
Nov - 2024	8,696	3,295	5,401	37.89 %	1,458	7,758
Dec - 2024	8,351	3,130	5,221	37.48 %	1,431	8,030
Jan - 2025	13,210	6,666	6,544	50.46 %	1,462	8,055
Feb - 2025	62,182	55,520	6,662	89.29 %	1,452	6,044
Mar - 2025	65,440	59,221	6,219	90.5 %	1,523	7,259
Apr - 2025	57,494	50,248	7,246	87.4 %	1,883	8,919
May - 2025	13,170	5,766	7,404	43.78 %	2,036	10,222
June - 2025	10,441	3,804	6,637	36.43 %	1,738	8,143
July - 2025	11,653	4,402	7,251	37.78 %	1,946	8,819
<b>Total</b>	<b>277,452</b>	<b>200,897</b>	<b>76,555</b>		<b>19,812</b>	<b>97,602</b>
<b>Mean</b>	<b>23,121</b>	<b>16,741.42</b>	<b>6,379.58</b>	<b>50.84 %</b>	<b>1,651</b>	<b>8,133.5</b>

If you have any questions or would like additional information about the maintenance department and our activities, feel free to contact me.

Thank you,

James Malone, CPMM

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