



# Charter Township of Madison

## Department of Public works

### October 2025

#### Water and Sewer Usage

- Water usage for the month of was October 10.1 million gallons.
- Sewer usage for the month of was October 11.0 million gallons.
- Water usage for Fairfield Twp. for the month of October was 1.2 million gallons.

#### Operations

- Work orders for the month of October were (51).
- Miss Digs for the month of October was (98). All Miss Digs were reviewed and serviced as needed.
- Water meters were read, and all work orders were completed.
- All sewer reads for the month of October were submitted to the City of Adrian.
- Lift stations and generators were inspected for the month of October.
- Monthly operating report submitted to EGLE.
- Backwashing of iron filter as necessary.
- Monthly Drinking water sampling has been completed.
- Wastewater discharge sampling at water treatment plant.

#### Communications

- Hydrant and Watermain Flushing has been completed for both Madison and Fairfield Townships, all fire Hydrants have been winterized to prevent freezing during the winter months ahead.
- Work continues at the WTP, the new filter Units have been delivered and are on site. From the watermain to the new well has been installed along with some new fire hydrants; concrete works was recently completed the project is on schedule and going well.
- **-W. Beecher area infiltration/inflow cost of treatment-** Quoted from engineer “In late 2024, Tetra Tech completed a smoke testing report for Madison and Adrian that showed that the Beecher Street sanitary sewer has dozens of sources of infiltration/inflow (I/I). Most of the calculations performed were based on the ability for the sanitary sewer to have capacity for both this I/I and sanitary customers (present and future). You recently asked about the annual cost to treat this water. (Continued on page 2).



- The analysis revealed a total of 0.60 mgd of wet weather I/I as peak flow. The volume sent to treatment is tricky to estimate. Most storms will have much less I/I and this will only occur during and following storms.
- If we assume that the average storm is 50% of this peak and the I/I occurs over 300 hours per year, then the annual cost to treat is about \$7,000 assuming Adrian charges Madison \$1.38 per 100 cubic feet of sanitary sewage.
- The biggest impact of I/I is the cost of capacity during peak events. That is, if this I/I can be removed, then Madison Township would save millions of dollars over constructing larger pipes and pump station to convey the peak flow for future growth.

**Submitted by Tim Watterson  
Department of public works Superintendent**