



## McComb Water Reclamation Facility Fact Sheet

- Construction of the wastewater treatment facility was completed in 2020. This plant replaces the old wastewater plant that was constructed in 1966. The new plant was constructed to meet the current standards of the Ohio EPA discharge permit.
- The total project cost was \$7,933,000.
- Project was designed by Poggemeyer Design Group and constructed by Danis Construction (Plant) and Edward Kelly and Sons (Interceptor Sewer).
- The project was funded through the USDA Rural Development with a 2.375% interest, forty year loan and a grant of \$2,794,000 (36% of project costs).
- A significant part of the sanitary sewer collection system was constructed of concrete pipe and some dates back to the 1930's. The concrete has deteriorated and was in very poor condition when McComb merged with The District.
  - The District has implemented a stormwater separation and sanitary sewer rehabilitation program that will continue for several years. This is required by Ohio EPA to meet the effluent requirements of the NPDES Permit. To date, the District has expended over \$9,000,000 to mitigate this problem. That work continues in partnership with the Village of McComb. Some of the storm sewer system has been replaced and upgraded as a result.



## **Plant Operations**

The McComb Water Reclamation Plant (MWRP) receives sewage from the Village sanitary system. The sanitary system collects wastewater from residential, commercial, industrial, and institutional users in the village. Sewage that reaches the plant through the sanitary system is treated through a series of chemical, biological, and physical processes before being discharged to the watershed.

The treatment process removes harmful debris, bacteria, chemicals, organic material, and nutrients prior to discharge to the watershed. The treatment process consists of the following steps:

- **Preliminary Treatment**-- Screen mechanisms physically remove large solids and heavy particles from the liquid waste stream
- **Primary Treatment**--The sewage travels through the Oxidation Ditch where biological treatment begins. Chemicals may be added to enhance the process. The Ditch design allows it to handle high wet weather flows without untreated sewage overflows.
- **Secondary Treatment**--Wastewater is then sent to clarifiers where the microorganisms and remaining waste settle out. Sludge generated is returned to the ditch or wasted to sludge drying beds.
- **Final Step**--The effluent is aerated and sterilized using ultraviolet light before it is discharged into the stream.

## **Facts and Figures**

- Plant rated to treat 388,000 gallons per day.
- Normal dry weather flows are approximately 200,000 to 300,000 gallons per day.
- Plant has treated up to 3,000,000 gallons per day during wet weather.
- From 2016 to 2019, the Village had an average of 28 sanitary sewage overflows (SSO) due to wet weather.
- Since the plant was placed in service in 2020, there has been one SSO. This occurred over a three day period when over four inches of rain fell on McComb.
- The Village sanitary collection system includes approximately 49,000 feet of sewer pipe.
- To date, 5,400 feet have been lined with Cured In Place Pipelining (CIPP). 8,400 feet of sewer has been excavated and replaced. This is 28% of the system.
- Over 11,000 feet of sewer and service laterals have been smoke tested to identify system failures and leaks.