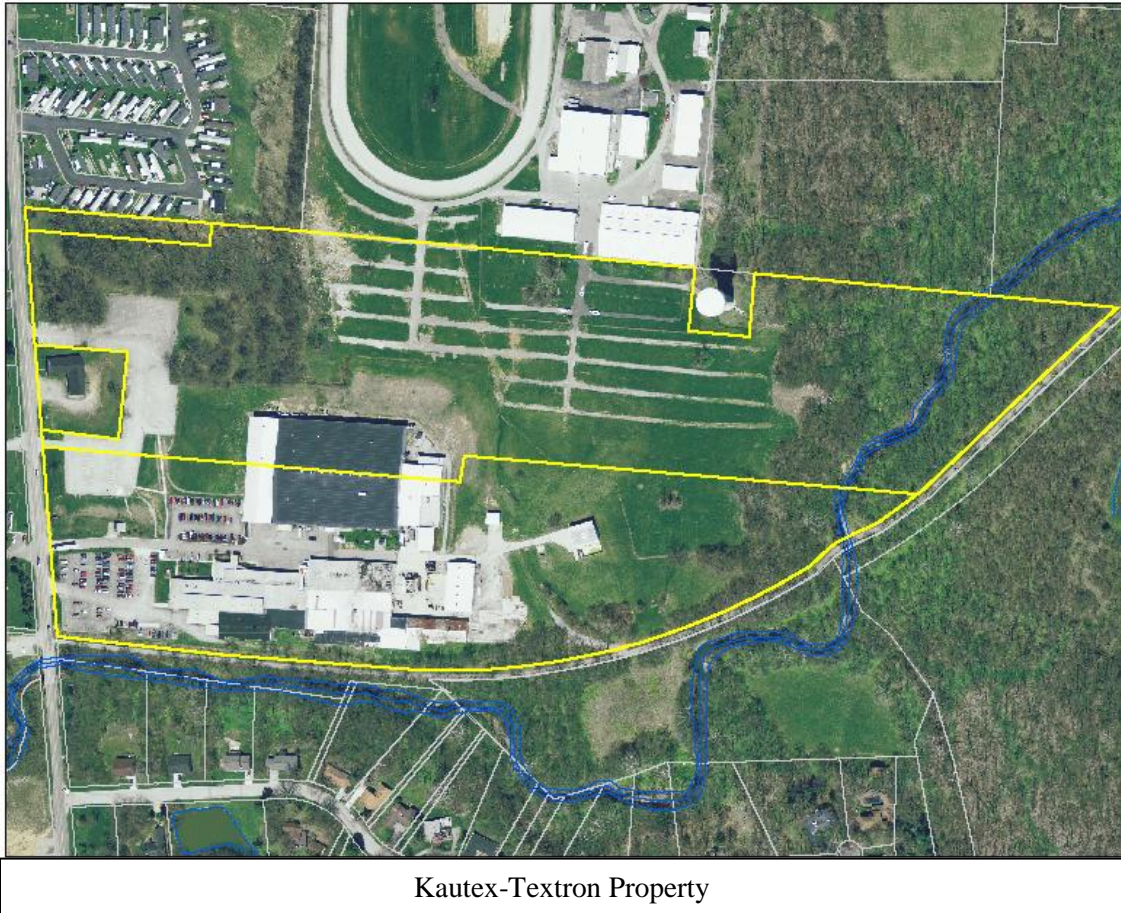


WASTEWATER DEPARTMENT

In the year 2010, the Wastewater Department purchased the Kautex/Textron property for future expansion of the wastewater facilities.



We treated 791 million gallons of residential, commercial and industrial wastewater with an average flow of 2.17 million gallons per day (MGD). Removal rates of 98.6 % for carbonaceous biochemical oxygen demand, 98.37 % for total suspended solids, and 99.0 % for ammonia have been achieved consistently through the treatment plant.

Between January 1 and December 31, 2010, there was 243.53 total dry tons of sludge removed from the Wastewater Treatment Plant. This is an average of 20.29 dry tons per month. This sludge was applied to farm ground as fertilizer.

Again this year we put a lot of effort and money into rehabilitating the sewers by doing point repairs, sewer lining, manhole repair, and manhole replacement. Through rehabilitation, we are removing inflow and infiltration (I/I), which can put a strain on our sewer system during wet weather.

We spent \$220,721 in rehabbing the sanitary sewer system by lining 3,358 ft. of sanitary sewer at a cost of \$121,569 and spent \$99,152 in point repairs.

We also spent over \$122,000 in rehabbing and replacing storm sewers, catch basins, and culverts.

The sewer crew, with the aid of a consultant, performed dye and hydrostatic testing in numerous locations. This report, along with previous reports, has identified numerous private (home owner) and public (City) problems. At the present time we are concentrating on solving the public problems.

We replaced two manholes, raised two manholes, installed storm sewers, catch basins, curbs and resurfaced 1,055 ft. on Nelson Avenue at a cost of \$1,587,262.

The sewer crew employees were busy maintaining the operation and management of the sanitary and storm water collection systems, which consist of more than 72 miles of sanitary and over 100 miles of storm sewers, over 2,000 manholes, over 2,400 catch basins, driveway approaches, sidewalks, and curb replacements. There were 102 sewer complaints reported and resolved. These problems included not only sewer backups and odor complaints, but also stopped up floor drains and a clogged kitchen sink drain.



Storm Water Project at Swindler's – 321 West Locust Street

The wastewater environmental laboratory's mission is to provide accurate and precise data for our wastewater facility, ensuring compliance with the National Pollutant Discharge Elimination System (NPDES) permit, the Clean Water Act and State of Ohio regulations.

Our lab is responsible for facility sampling and monitoring, supporting the industrial pretreatment program, conducting pollution investigations, and performing analyses for the biosolids program. We perform highly diverse and complex testing for a facility our size. The inherent advantage of an in-house laboratory is the ability to provide analytical results quickly and accurately.

Through a stringent Quality Control/Quality Assurance Program that is organized to incorporate a progression of steps, our lab produces analytical data that is of legally defensible quality. It is our goal to produce the most accurate data possible to protect our environment and the community's best interests.

As a result of our efforts, we have received the highest rating during the state regulatory authority's inspections for the past 20 years. Additionally, we have again passed each of the 18 in-house parameters in the annual United States EPA Federal Quality Assurance Study.

The operation of the pretreatment program continues to be successful, once again receiving a "Satisfactory" rating from the Ohio EPA. The occurrence of upset, interference or pass-through violations is almost nonexistent. In light of the current economy, the City is down to four Significant Industrial Users, as defined by Ohio EPA. As required by our NPDES Permit renewal, technical justification for "Local Limits" was submitted to OEPA in December.

The Wastewater Department continues to take the proactive approach to safety by conducting periodic safety meeting and enforcing the policies already in place. We believe the City's greatest assets are its employees and the citizens they serve and do not wish to jeopardize the health and well-being of either.

The Maintenance Department has been busy with the following:

- Televised 32,629 feet of sanitary and storm sewer
- Cleaned 108,000 feet of sewer
- Replaced over 1,200 feet of storm sewer
- Installed 700 feet of 4-in storm sewer downtown
- Installed 150 feet of 8-in storm sewer
- Installed new lateral at 239 N. Spring Street
- Repaired three laterals
- 682 utility locates
- Treated 6,741 feet of sanitary sewer for root control
- Mapping the storm sewer collection system
- Poured 12 feet of sidewalk
- Replaced one driveway approach
- Replaced 48 catch basins
- Poured 132 feet of concrete gutter
- Replaced one culvert
- Completely rebuilt 320 UV units (lamps, wiring, connectors, and O-rings)
- Installed new Teflon wear strips on guide rails, new wear shoes on flights of storm flow clarifiers #3 and #4
- Replaced gear box and motor on cross collector on storm flow clarifier #4
- Installed new chain rails, drag chains, shaft, and bearings on mechanical bar screen
- Rebuilt 5 HP Flygt submersible pump and installed at Warehouse lift station

- Replaced various wear items on pumps in the system including; impellers, wear plates, mechanical seals,
- Replaced suction cover and seal plate assembly on return activated sludge pump #2
- Addressed a total of 102 sewer complaints (water in basement, sewer backups, blocked laterals, odor complaints among others)

Submitted by: Harry J. McVey, Superintendent
Wastewater Department