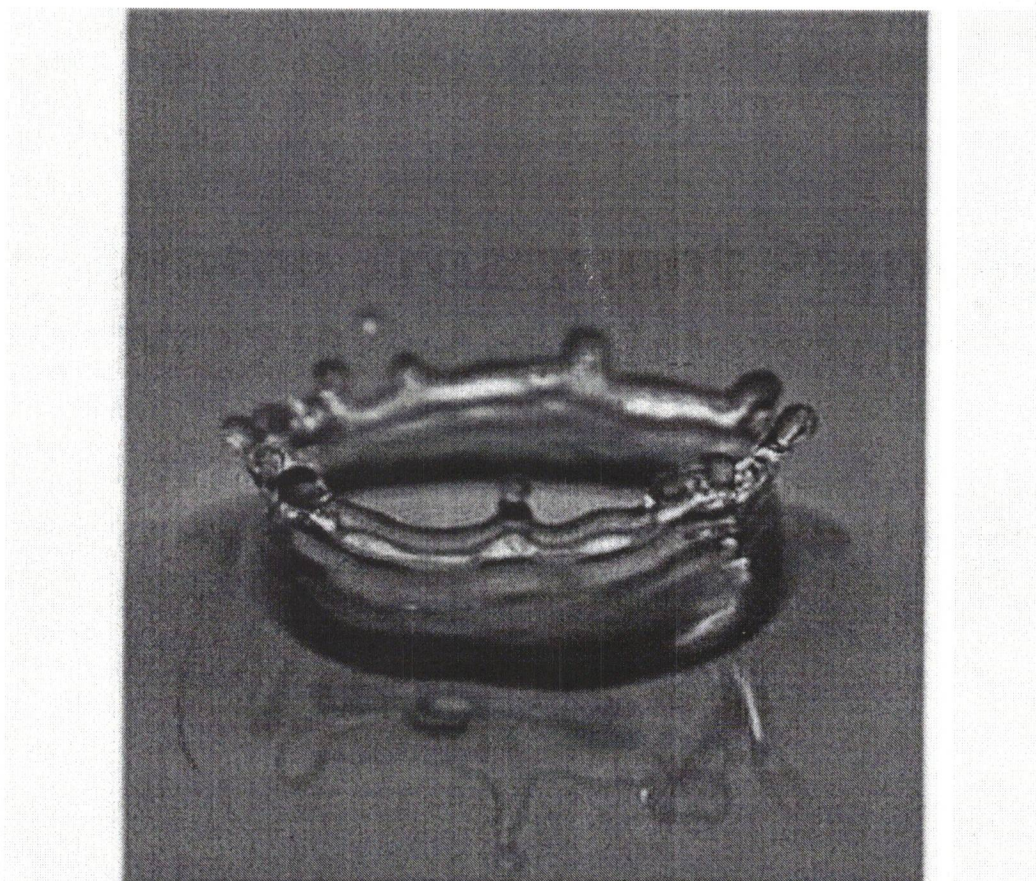


**Water Treatment Department**

210 Park Way • PO Box 1215  
Ravenna, OH 44266  
p 330.296.2741 • f 330.297.2164



# **Water Treatment Plant 2022 Accomplishments**



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During the 2022 calendar year the Plant had various upgrades such as valves, valve actuators, motors, and pump overhauling.

A continued area of concern for surface water treatment plants is the requirement to monitor for algae toxins; this took effect in June of 2016. We had a small amount of algae toxins detected in the month of October for 2022 calendar year. But the amount detected in the raw water was not detected in the Tap water, because it was removed by the treatment process.

### **Breakdown of plant maintenance / improvements for 2022 below:**

#### 1. Administration

- a. Harner plumbing relocated water meter for better access for Portage County.
- b. Harner Plumbing replaced building hot water heater.
- c. Rebuilt recirculating pumps for boilers.

#### 2. Raw Water

- a. General maintenance performed on all pumps.

#### 3. Rapid Mixers

- a. Both mixers were cleaned, and maintenance preformed.

#### 4. North and South Clarifiers

- a. Both clarifiers were cleaned in the spring and fall along with maintenance.
- b. Gear box and motor for rake arm on south clarifier was replaced.

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### 5. Gravity Sludge Thickener

- a. Cleaned out in the spring.

### 6. Chemical Feeds

- a. A new mechanical mixer and support beams were installed on top of liquid lime storage tank for better mixing.
- b. New mixer installed in the center of the filter influent channel for liquid lime feed.
- c. Rebuilt both sodium chlorite generators.

### 7. Filtration

- a. Filter sub-surface sweeps rebuilt on the filters.
- b. Replaced the sun-surface actuator on filter 5.

### 8. Reclaim Pumps

- a. Rebuilt reclaim pump #2 and motor.

### 9. High Service Pumps

- a. General maintenance performed on all pumps.

### 10. Feeder Canal

- a. Cleared debris from various locations in the canal caused by several storms and continued normal maintenance.
- b. The bridge decking was replaced on bridge over canal, 2nd bridge south of route 18.
- c. Purchased new backhoe to better maintain canal.



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- d. Repaired / replaced various access gates on canal.

### 11. Lake Hodgson

- a. Various areas of the fence line were replaced.
- b. Applied algicide throughout the summer season to help prevent harmful algae blooms and taste & odor problems in the drinking water.

### 12. Water Storage

- a. Study and funding started that will continue into 2023 for new water tank and best site location.

### 13. Maintenance Building

- a. Replaced garage bay door #1.
- b. Replaced air compressor air dryer.