



# Another View from the Paradise on the Hilltop

Photos From The St. Clairsville Water Treatment Plant

July 2019

# The Water Treatment Plant was built in 1909

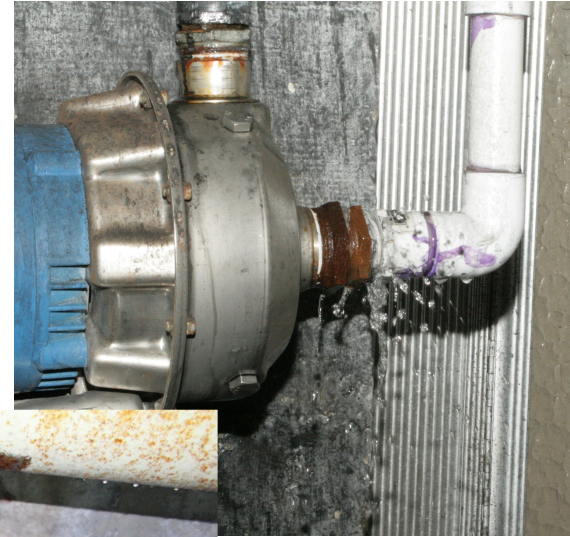
While it was expanded in 1984 to increase the amount of water it could treat daily, it has never been updated to modern standards.

- The treatment process is essentially the same as it was 90 years ago





# Leaks Abound as Pipes, Joints and Valves Crumble



# The stains behind this workbench are caused by an ongoing leak in the water tank on the other side of the wall

- The leaking tank holds thousands of gallons of water.
- The tank can't be repaired without taking the entire plant out of service





# The Needs are More than Cosmetic

- Modern water treatment systems:
  - Allow portions of plants to be isolated while allowing water treatment to continue along a parallel track;
  - Integrate continual electronic monitoring of water quality, pressures, volume and flow rates with alarms to alert workers of problems;
  - Are built with extra capacity to accommodate expected community growth and periods of high demand
- Our plant falls short on **all** of these qualities.

# Costs for System Improvements

- The cost to replace the water plant alone is estimated to be between \$10 and \$16 million.\*
- The water distribution system needs \$7 million just to replace water mains that are too small to provide modern standards for fire flows.
- Water storage and instrumentation needs total between \$1 and \$2 million.
- Total need for water system=\$18 to \$25 million.\*\*

\*The most recent cost estimates come from W. E. Quicksall and Associates, July 2019. Other estimates have been conducted several times since 1984.

\*\*This total does not include projects to improve the water distribution system beyond replacing undersized mains or any costs to reduce rainwater infiltration into the sewer collection system.