

## WATER DEPARTMENT



***Water Main Break on Wayne Avenue***

In 2014, the Wilmington Water Department treated an average daily flow of 1.760-MG (Million Gallons) and experienced a maximum day of 2.458-MG. The Water Department provided water to 4,999 customers.

The following water sources were used during the year:

Source	Beginning	Ending
Caesar Creek Lake	1/1/14	3/18/14
	4/23/14	6/24/14
	6/30/14	12/31/14
Burtonville Reservoirs	3/18/14	4/23/14
	6/24/14	6/30/14

The Burtonville Reservoirs held approximately 337.966-MG of water as of December 31, 2014. The Water Department had twelve water mains shut down for repairs and eleven boil advisories. There was one new line installed and approved.

The following Divisions have been busy during 2014. Here is an outline of the activities:

## **WATER PLANT AND LAB DIVISION**

- ◆ All required analysis of the city's drinking water was performed according to Ohio and U.S. EPA rules and regulations.
- ◆ We composed and posted on the city's website the Consumer Confidence Report as required by EPA. We hand-delivered 756 CCRs to apartment owners.
- ◆ As of December 31, 2014, a total of 445 bacteriological samples were tested in the Water Plant's laboratory. There were 184 weekly system samples, none of which tested total coliform positive. A total of eleven boil advisories caused by either broken mains or water main maintenance resulted in 44 samples to be tested. A total of one new line approvals caused two samples to be tested.
- ◆ The amount of treatment chemicals used as of December 31, 2014 were:
  - Pebbled Lime (softening) 368.2 tons
  - Alum (coagulant to remove solids) 149.4 tons
  - Carbon (taste and odor control) 11.7 tons
  - Potassium Permanganate (pretreatment) 0 tons
  - Carbon Dioxide (pH adjustment) 51.7 tons
  - Chlorine (disinfectant) 9.9 tons
  - Polyphosphate/orthophosphate (corrosion control) 5.9 tons
- ◆ Water Plant, Reservoir, Booster Station, and Tower maintenance performed:
  1. New VPN installed at Water Plant for the new cellular telemetry system
  2. New cell modems, PLC, and power supply panels installed at water plant, all towers, and pump stations, then brought on-line to replace old radio telemetry system.
  3. Rebuilt effluent valve and GA valve on #1B High Service Pump
  4. Removed and disassembled #2 sludge pump in Water Treatment Chemical Bldg. basement, then delivered to HD Water for rebuild, then picked it back up and re-installed.
  5. Replaced back-wash waste pump with new pump in the Filter Bldg.
  6. Replaced VFD on #2 and #3 Raw Water pumps located at Caesar Creek Pump Station.
  7. Cleaned and Inspected wet interior tanks at Air Park, Fairground and South 68 water towers.
  8. Replaced feed motor on PAC chemical feeder.
  9. Purchased and used two new automatic flushers to improve water quality in the distribution system and to make it possible for us to meet the new Stage 2 Disinfectant By-Product Rule.
  10. Repaired/Replaced rake chains and flights on 1B Sedimentation Basin.
  11. SCADA computer hard-drive failed and we had to replace hard-drive and reload programs to get back in service.

12. Water Plant Generator failed and we had to have transfer switch circuit board replaced and starter batteries replaced.
13. New roof fan installed on reservoir pump station.

## DISTRIBUTION DIVISION



***Main break at Dana Avenue and Regal Drive***

The Distribution Crew worked on the following.

Task	Quantity
Fire hydrants flushed	203
Fire hydrant repaired/replaced	6
Fire hydrants painted	0
Water main repairs	13
Service line leak repairs	2
Meter pit repairs	0
Old service lines abandoned	8
Yard restorations	10
Curb box repairs	15
Water line locations flagged	675
Main valves repaired/replaced	1
Valves exercised	161

Water taps made	5
Curb stops replaced	13
Road boxes repaired	0
Service lines replaced	8

More work performed not listed in table.

1. Installed a fire hydrant on Osborn Rd. water main dead end, to be used for flushing.
2. Installed auto-flushers on three hydrants and monitored for water quality.
3. Moved equipment and parts to Walnut St. garage
4. Performed a unidirectional flushing of hydrants at AirPark to remove sediment in the water mains to prepare for auto-flusher installation.

## **UTILITY BILLING OFFICE/CUSTOMER SERVICE**

- ◆ There were 541 disconnects for nonpayment and 439 reconnects.
- ◆ There were 1189 service transfers.
- ◆ There were a total of 3745 customer services completed in 2014.
- ◆ Customer Service changed approximately 150 meters with new ones.
- ◆ Customer Service installed eleven meters for new customers.

*Submitted by:*

Jerry Rowlands

Water Department Manager