

## WILMINGTON WATER DEPARTMENT



**New chains and rakes for sedimentation basin 1-A installed by Water Dept. employees.**

In 2015 the Wilmington Water Department treated an average daily flow of 1.752-MG (Million Gallons) and experienced a maximum day of 2.424-MG. The plant delivered to the distribution system a total of 545-MG of water in 2015 to 5004 customers.

The following water sources were used during the year.

<b>Source</b>	<b>Beginning</b>	<b>Ending</b>
Caesar Creek Lake	1/1/15	12/31/15
Burtonville Reservoirs	4/2/15	10/31/15

The Burtonville Reservoirs held approximately 336.483-MG of water as of December 31, 2015. The Water Department had 10 water mains shut down for repairs and 10 boil advisories. There were 3 new lines installed and approved.

The following Divisions have been busy during 2015. 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, 2015, a total of 376 bacteriological samples were tested in the Water Plant's laboratory. There were 150 monthly system samples, none of which tested total coliform positive. A total of 10 boil advisories caused by either broken mains or water main maintenance resulted in 34 samples to be tested. A total of 3 new line approvals caused 14 samples to be tested.
- ◆ The amount of treatment chemicals used as of December 31, 2015 were:

➤ Pebbled Lime (softening)	389 tons
➤ Alum (coagulant to remove solids)	149 tons
➤ Carbon (taste and odor control)	16 tons
➤ Potassium Permanganate (pretreatment)	0 tons
➤ Carbon Dioxide (pH adjustment)	56 tons
➤ Chlorine (disinfectant)	9 tons
➤ Polyphosphate/orthophosphate (corrosion control)	6 tons

- ◆ Water Plant, Reservoir, Booster Station, and Tower maintenance performed:

1. Installed new rakes and chain in 1A basin.
2. Repaired High Service pump 2A
3. GA valve solenoids and limit switch repaired on 2B High service pump.
4. Replaced meter head on water plant's raw water meter.
5. Pulled #2 Caesar Creek raw pump and had inspected and refurbished.
6. Replaced main cable leads to #2 raw water pump at Caesar Creek Lake pump station.
7. Pressure washed exteriors of Airpark and Fairground towers
8. Replaced VFD on #1 Raw Water pump located at Caesar Creek Pump Station.

9. Buckeye Engineering prepared inundation maps for Burtonville reservoirs.
10. Replaced seal on valve to 1A high service pump
11. Installed 4 new battery back-ups on SCADA and tower telemetry
12. Repaired rakes and chain in #2A basin
13. Replaced mixer blades in both lime slakers
14. Replaced sump pump in 68 tower pit
15. Installed new telemetry system and dehumidifier in raw water control box
16. Replaced chlorination flow meters to clear well.
17. Relocated Caesar creek generator batteries to pump station basement.

## Distribution Division



Air Park Tower before it was power-washed.

Air Park Tower after being power-washed

The Distribution Crew worked on the following.

<b>Task</b>	<b>Quantity</b>
Fire hydrants flushed	250
Fire hydrant repaired/replaced	7
Fire hydrants painted	0
Water main repairs	11
Service line leak repairs	2
Meter pit repairs	0
Old service lines abandoned	4
Yard restorations	11
Curb box repairs	20
Water line locations flagged	720

Main valves repaired/replaced	5
Valves exercised	450
Water taps made	3
Curb stops replaced	6
Road boxes repaired	6
Service lines replaced	24
Approximate water used by crews for flushing	34-MG

## Utility Billing Office/Customer Service

- ◆ There were 596 disconnects for nonpayment and 471 reconnects.
- ◆ There were 1181 service transfers.
- ◆ There were a total of 3856 customer services completed in 2015.
- ◆ Customer Service changed approximately 165 meters with new ones.
- ◆ Customer Service installed 7 meters for new customers.
- ◆ We sold 440-MG of water to customers.

*Submitted by:*

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