



CASE STUDY: CLAYTON COUNTY, GEORGIA, SAVES MORE THAN \$4,500 PER MONTH WITH HYDRO-GUARD®



THE SITUATION:

Clayton County Water Authority (CCWA) in Clayton County, Georgia, produces up to 39 million gallons per day of potable water to through a system of distribution mains 1,253 miles long. CCWA evaluated their distribution system chlorine residuals and determined that although CCWA was investing many man hours in flushing, they could not maintain residual levels. CCWA determined that they needed a way to both increase chlorine residuals and decrease labor hours invested.



THE SOLUTION:

Clayton County Water Authority installed eight Hydro-Guard® Direct Discharge automatic flushing Units. These Units perform automated Advanced Maintenance Flushing of water lines. Advanced Maintenance Flushing is accomplished through a regular periodic flushing of problem water lines to maintain disinfectant residuals. Through periodic discharge of water, the average residence time is reduced and chlorine residuals maintained.

THE RESULTS:

INCREASED RESIDUALS; REDUCED LABOR TIME; SIGNIFICANT WATER SAVINGS

Each location saw a substantial increase in chlorine residuals and a dramatic decrease in labor time invested as detailed in the following chart. Moreover, CCWA metered the flushing program. Before installing Hydro-Guard® Units, CCWA flushed 3,384,000 gallons per month manually. After installing Hydro-Guard® Units, the gallons flushed dropped to 933,300 gallons per month. Between the water savings and the labor savings, CCWA estimates their cost savings at more than \$4,500 *per month*. On a per-unit basis, that's a savings of more than \$562 per month; meaning that units "pay for themselves" in less than five months.

Location	Residual Before	Residual After	Labor Time Before	Labor Time After
One	Trace	0.8	1 hour / week	10 minutes / week
Two	Trace	0.4	2 hours / week	10 minutes / week
Three	Trace	0.4	3 hours / week	10 minutes / week
Four	Trace	0.6	1 hour / week	10 minutes / week
Five	Trace	0.6	1 hour / week	10 minutes / week
Six	Trace	0.4	2 hours / week	10 minutes / week
Seven	Trace	0.6	1 hour / week	10 minutes / week
Eight	Trace	0.4	4 hours / week	10 minutes / week

Labor Hours
per Week Before
Hydro-Guard®

15 hours

Labor Hours
per Week After
Hydro-Guard®

1.3

Gallons Flushed
per Month Before
Hydro-Guard®

3,384,000 gallons

Gallons Flushed
per Month After
Hydro-Guard®

933,300



For information about how Hydro-Guard® Units can increase quality and reduce costs for you, please call us at **1.888.277.4520** or visit us on the Web at www.Hydro-Guard.com.