



## COLONIAL VILLAGE

### OXEN HILL, MARYLAND

In November 2009, a request was made by Water Management on behalf of Colonial Village apartments for Washington Gas to upgrade the existing gas meters on the property for their 27 garden style apartment buildings to handle an increased load. Since then 199k BTU gas fired hot water heaters were placed in the laundry rooms of each of the 27 buildings therefore reducing the water heating load on the two previous centralized water boilers located at 829 Marcy AVE and 916 Marcy AVE.

After decentralizing the hot water for the 27 buildings at Colonial Village Apartments it became clear that significant savings in gas were achieved. The savings were due to: 1) the increased efficiency of the new hot water heaters compared to the older boilers and ganged hot water heaters that were previously used. 2) Additional savings came from discontinuing the heat and energy loss due to the return loop system that ran under the property. The under ground pipes were poorly insulated and losing substantial amounts of heat year round.

For the South side buildings in the three month period of 10/14/2010 – 12/17/2010 there was a 33% reduction in the gas bill which equated to \$ 12,525.82 in savings in comparison to the same three month period in 2009. For the North side buildings in the three month period of 10/14/2010 – 12/17/2010 there was a 21% reduction in the gas bill which equated to \$ 12,590.65 in savings in comparison to the same three month period in 2009.

Gas Bill Analysis Summary	
Centralized Water Boiler Gas Bills	\$226,623.62
Decentralized Water Boilers Gas Bills	\$164,662.59
Savings Achieved	\$61,961.03
Reduction in Gas Bill From previous year	27.34%



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