



# Department of Environmental Protection

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## Comprehensive Review of Revised Water Management Act Permit Requirements, July 1, 2017

### Description of WMA Grant Projects Referenced in Table 9.2 – Demand Management, Leak Detection

#### **2016-16 UAW Reduction**

##### **Wareham Fire District**

This project would focus on reducing UAW below 10% in the District; for the last two years it has been at 14% or greater. Components of the project include: conducting a water audit; developing a UAW Compliance Plan; conducting a leak detection survey; performing a billing data review and a leakage component analysis; providing low-flow plumbing fixture to residents; conducting a water rate survey; and providing outreach to the District on current conservation measures.

#### **2015-16 Targeted Leak Detection**

##### **Town of Medway**

Medway has completed water audits of both its own system and those of its largest water consumers. These audits have provided a specific set of prioritized recommendations, which the Town has already begun to implement. This year, Medway seeks funding to build upon prior efforts and develop a District Metering Program to help the Town target and prioritize specific areas of the system for more intensive leak detection based on water main age, break history, system pressure and other factors.

#### **2014-19 Sectional Flow Monitoring Program**

##### **Town of Holden**

The Town has conducted annual system wide leak detection over the past two years with successful results in that numerous leaks were found and repaired; however there has not been a significant reduction in UAW. In conjunction with the 2009 Water Audit, sectional flow monitoring has been determined to be a cost effective way of reducing the Town's UAW. The intent of this grant application is to fund a full scale, system wide, sectional flow monitoring program in order to reduce the Town's unaccounted for water. This program would include the following tasks: Master Meter Testing, Master Meter Calibration, Distribution System Analysis and System Model Updates, Creating System Isolation Areas, Sectional Flow Monitoring of Several Isolated Areas, Further Division and Flow Monitoring of High Flow Areas, Detailed Leak Detection Efforts within High Flow Areas, and Repair of Leaks.