



Commonwealth of Massachusetts  
Executive Office of Energy & Environmental Affairs

## Department of Environmental Protection

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The Water Management Act Grant Program is designed to assist eligible public water suppliers and municipalities with Water Management Act permits by providing funds for planning assistance, demand management, and withdrawal impact mitigation projects in local communities. The focus of these grants is:

- 1) planning projects for specific watersheds or subwatersheds to identify implementation projects to improve ecological conditions;
- 2) demand management projects aimed to improve the efficiency of water use within a municipality or a watershed; and
- 3) mitigation projects in the following categories: improve or increase instream flow, wastewater projects that keep water local including reductions in inflow and infiltration, stormwater management projects that improve recharge, reduce impervious cover and/or improve water quality, water supply operational improvements, habitat improvement, and other projects that could mitigate the impacts of water withdrawals.

Eligible grant applicants are Massachusetts public water suppliers or municipalities with a valid Water Management Act permit. A 20 percent funding match is required. Cooperative proposals are encouraged. Particular consideration is given to proposed projects in highly impacted basins or subbasins.

The funds allocated for grants are distributed under a competitive procurement process. Approximately \$2.0 million dollars was available to distribute. The Department has also released a second RFR that would secure a contractor to conduct water audits on behalf of public water suppliers.

MassDEP received 15 proposals for this grant year totaling just under \$1.01 million dollars. The proposal review committee recommends funding 9 proposals this year. This total grant dollar amount of the recommended projects is \$646,489 which will also leverage an additional \$178,740 in project work, for a total of \$825,228.

The proposals recommended for funding by the review committee are below. Brief summaries for these projects are attached.

<b>Project</b>	<b>Title</b>	<b>Applicant</b>	<b>Project Total</b>	<b>Grant Money from State</b>	<b>Match</b>
1	Interconnections with Worcester and Drought Impacts	Auburn Water District	\$96,450	\$76,000	\$20,450
2	Data Collection and Planning	Danvers	\$129,925*	\$103,940	\$25,985
3	Dropcounter, Source Optimization, and Stormwater	Dedham Westwood Water District	\$121,020	\$96,610	\$24,410
5	Stormwater Utility Feasibility Analysis	Millis	\$55,926	\$44,742	\$11,185
7	Water Rate Study	Plainville	\$24,900	\$19,920	\$4,980
8	Leak Detection and AC Pipe Condition Assessment	Provincetown	\$94,500	\$75,600	\$18,900
9	First Herring Brook - Reservoir Dam Modifications	Scituate	\$154,880	\$115,250	\$39,630
10	Water Accounting	Shrewsbury	\$61,690	\$45,690	\$16,000
12	Bioretention System	Wrentham	\$85,937	\$68,737	\$17,200

\* Contingent on more detailed scope of work being provided in the contract, as well as a budget discussion.

**FY 2017 WMA GRANT PROGRAM  
FUNDING RECOMMENDATIONS**

<b>NUMBER</b>	<b>TITLE</b>	<b>PROJECT TOTAL</b>	<b>MATCH</b>
<b>APPLICANT</b>			
<b>01</b>	<b>Interconnections with Worcester and Drought Impacts Town of Auburn</b>	<b>\$96,450</b>	<b>\$20,450</b>
	This project would complete a preliminary evaluation and design of the proposed interconnection(s) between the Auburn Water District and the City of Worcester. The prospective purchase of water from Worcester has been identified as a potential alternative to the District's local groundwater withdrawal sources (existing and future) which experience water quality problems. The prior SWMI grant project demonstrated that it is hydraulically feasible for the District to supplement its local water supply in its Low Pressure Zone with water transferred from the City. Two potential interconnection locations would be evaluated, along with a rate evaluation and drought considerations.		
<b>02</b>	<b>Data Collection and Planning Town of Danvers</b>	<b>\$129,925</b>	<b>\$25,985</b>
	This project will involve stakeholders by holding meetings for permitted and registered sources in the Ipswich Basin, performing data collection, evaluating Optimization options and alternates supply sources, and exploring whether a Joint Powers Agreement between the Ipswich member communities would be useful.		
<b>03</b>	<b>Dropcounter, Source Optimization, and Stormwater Dedham Westwood Water District</b>	<b>\$121,020</b>	<b>\$24,410</b>
	This project brings together four communities, each of which faces challenges and opportunities under the SMWI permitting framework. The work to be done includes: A pilot implementation of the Dropcounter water conservation system in the DWWD area; continued refinement of source optimization scenarios for Stoughton, Canton, Dedham and Westwood based on work completed earlier this year under a prior WMA grant; and development of 30% design plans for six stormwater recharge BMPs in the communities of Stoughton, Westwood and Dedham.		
<b>05</b>	<b>Stormwater Utility Feasibility Analysis Town of Millis</b>	<b>\$55,926</b>	<b>\$11,185</b>
	This project will evaluate the feasibility and potential revenue associated with establishing a Stormwater Utility in the Town of Millis. Educational information will be presented at two public workshops.		
<b>07</b>	<b>Water Rate Study Town of Plainville</b>	<b>\$24,900</b>	<b>\$4,980</b>
	The proposed Cost of Service Water Rate Study will determine the actual monetary costs for current and projected future management and O&M costs associated with operation of the Plainville Water Department. The Water Rate Study will also assess the impact of customer service charges and fire suppression charges on the overall revenue streams. The report will review the adoption of a water enterprise fund, a review of irrigation meters and recommendations for a separate irrigation rate, recommendations to adopt and enforce a bylaw requiring moisture sensors or similar climate technology on automatic irrigation system.		

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	<b>APPLICANT</b>		
<b>08</b>	<b>Leak Detection and AC Pipe Condition Assessment</b> <b>Town of Provincetown</b>	<b>\$94,500</b>	<b>\$18,900</b>
	This project would evaluate approximately two miles of asbestos/concrete pipe for leaks using approximately 30 data loggers and correlators over a period of four months. The pipe to be assessed includes the main transmission pipe line. An acoustic assessment of the pipe will also occur. Data will be continually transmitted thru a radio repeater. The goal is to assist Provincetown in reducing their UAW below 10%.		
<b>09</b>	<b>First Herring Brook - Reservoir Dam Modifications</b> <b>Town of Scituate</b>	<b>\$154,880</b>	<b>\$39,630</b>
	This project builds on work conducted through 2012 and 2013 SWMI Grants to the Town of Scituate. The 2012 grant examined the feasibility of improving fish passage in First Herring Brook at the Reservoir through a combination of structural improvements to the fish ladders at Old Oaken Bucket Pond and Reservoir Dam, as well as maintaining Reservoir Dam at a higher level for a longer duration. The 2013 grant funded the Preliminary design of the recommended alterations (Executive Summaries, Attachments). In this project phase, the Town of Scituate proposes to complete 60% permit level design and initiate the permit process for implementation of spillway and fishway structure modifications to maintain a higher Reservoir Dam pond level.		
<b>10</b>	<b>Water Accounting</b> <b>Town of Shrewsbury</b>	<b>\$61,690</b>	<b>\$16,000</b>
	This project will develop a tool that can be utilized by other water utilities to assist in the correlation of source meter and customer metered usage to identify anomalies that can lead to a reduction of losses in the distribution systems. Specific tasks include: Redefining meter reading zones to be consistent with discrete pressure zones for comparison to booster pump meters; evaluating the current billing software for errors; developing a spreadsheet model to show usage in each zone and in subset areas where future zone isolation could be achieved to verify water consumption and compare it with water pumped into the distribution system and each pressure zone; developing of electronic forms for tracking non-revenue water; and developing a guidebook. There will be two free workshops, 1 providing a discussion of types of management software, methods for data export into easily manipulated excel spreadsheets and a discussion of the monitoring/management and reporting tools that can be developed for water utility operators and municipal managers.		
<b>12</b>	<b>Bioretention System</b> <b>Town of Wrentham</b>	<b>\$85,937</b>	<b>\$17,200</b>
	This project will install an infiltrating bioretention system at Sweatt Beach in Wrentham. Sweatt Beach is located on Woolford Road at the edge of Lake Pearl. This beach is highly popular with the residents of Wrentham and has a large number of users in the summer. The bioretention system will provide recharge to groundwater and augment streamflow, remove sediment and chemical pollutants from the stormwater runoff, and provide great educational opportunities to the public.		