



# Monthly Meeting #11

## Coordinated Water System Plan Eastern Region

Northeastern Connecticut Council of Governments, Dayville, Connecticut | April 12, 2017

# Agenda



1. Welcome & Roll Call (5 minutes)
2. Approval of March Meeting Minutes (5 minutes)
3. Formal Correspondence (5 minutes)
4. Public Comment Period (10 minutes)
5. Review of Public Comments on Preliminary ESA Document (30 minutes)
6. Consider and Approve Statement of Confirmation to be Submitted to ESA Holders for Signature (30 minutes)
7. Integrated Report Topics – Water Conservation (30 minutes)
8. Other Business (5 minutes)

1. Welcome and Roll Call

2. Approval of Meeting Minutes

3. Formal Correspondence

# Formal Correspondence



Date	From	To	Main Topic(s)
3/8/2017	WUCC Tri-Chairs	Eastern WUCC Members, Chief Municipal Officials, Local Health Officials, Regional Planning Organizations, DEEP, DPH, PURA, OPM, Interested Parties	Notification of availability of Eastern Preliminary ESA Document with request for comments by April 12, 2017
3/28/2017	WUCC Secretary	Existing and Future ESA Holders	Provided draft Statement of Confirmation and potential due date of June 2, 2017; Requested comment at April 12, 2017 meeting
4/7/2017	Patrick Bernardo, Tri-Chair	Eastern WUCC Officers	Resignation of Tri-Chair position

## 4. Public Comment

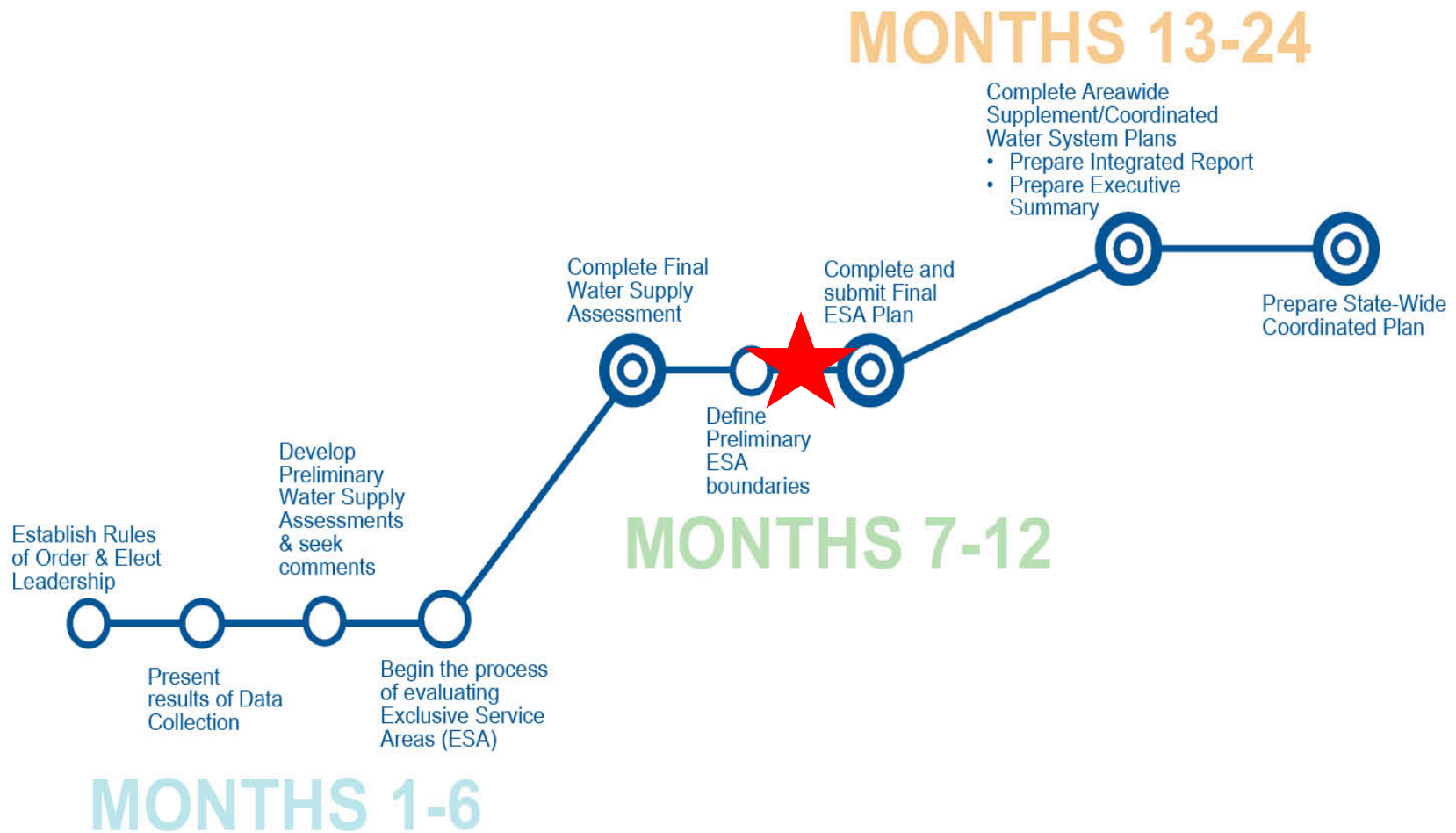
## 5. Review of Public Comments on the Preliminary ESA Document

# Taking Stock



- ***What Have We Accomplished?***
  - ✓ The draft ESA document and boundaries was made available for public comment (comment period ends today)
  
- ***What Are We Doing Today?***
  - ✓ Considering public comments received to date
  - ✓ Considering and approving the Statement of Confirmation language to distribute to ESA Holders for signature
  
- ***What's Next?***
  - ✓ Continue to receive public comments on ESA Document
  - ✓ Prepare draft Final ESA Document
  - ✓ Start work on the Integrated Report

# WUCC Time Frame



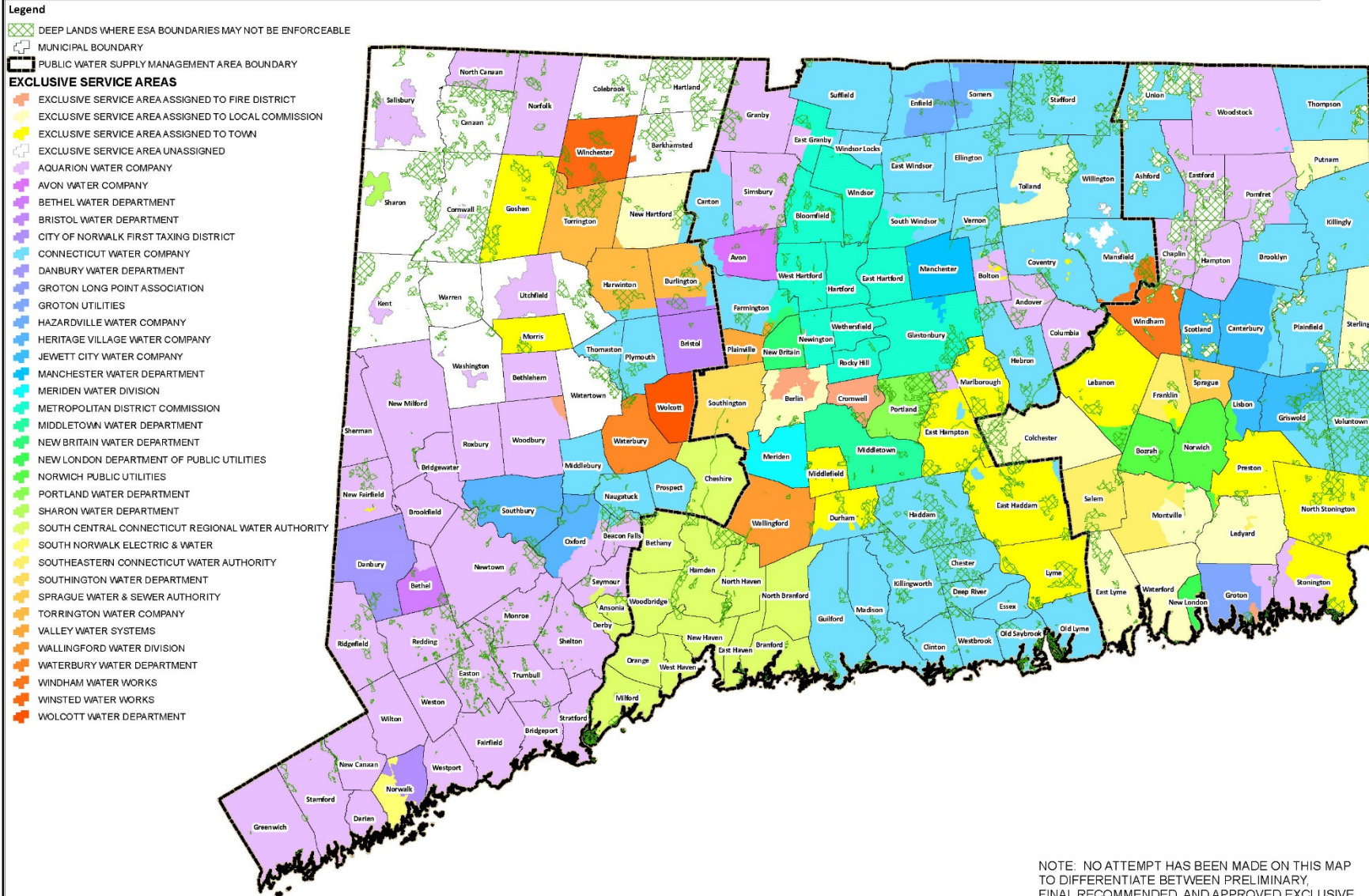


# ESA Process Schedule



Action	Timeline
30-Day Public Comment Period	March 8, 2017 through April 12, 2017
Review public comments received to date; Statements of Confirmation reviewed/approved; Statements of Confirmation issued for signature; Process mapping adjustments to preliminary ESAs if needed	April 12, 2017 Meeting
Additional ESA discussions; Review public comments; Review draft final ESA Document Process mapping adjustments to preliminary ESAs if needed	May 10, 2017 Meeting
Approval of ESA Document; Begin ESA Modifications	June 14, 2017 Meeting

# Statewide ESA Map to Date



**Map By:** SJR  
**MMMR:** 1017-05-04  
**MMDD:** 11/17/05/05/Map1\_Statewide\_Map.mxd  
**Last Version:** 05/28/2017  
**Revised:** 9/26/2017  
**Scale:** 1 in = 41,000 ft

**SOURCES:**  
 Town Boundaries - CT DEEP  
 Exclusive Service Areas - W, C, & E WUCCS

**STATEWIDE MAP OF ESA BOUNDARIES TO DATE**  
**EXCLUSIVE SERVICE AREA PROCESS**  
**CONNECTICUT**

**Figure 1**

NOTE: NO ATTEMPT HAS BEEN MADE ON THIS MAP TO DIFFERENTIATE BETWEEN PRELIMINARY, FINAL RECOMMENDED, AND APPROVED EXCLUSIVE SERVICE AREA (ESA) BOUNDARIES. REFER TO THE PRELIMINARY ESA DOCUMENTS FOR SUCH BREAKDOWN.

# Public Comments Received to Date



Date	From	To	Main Topic(s)
4/3/2017	DEEP	Western, Central, and Eastern WUCC Chairs	Encourages each WUCC to finalize the same designations for DEEP lands in the final ESA Documents
4/10/2017	Aquarion Water Company	WUCC Officers	Correction to Aquarion System area and label on Town of Stonington Map
4/11/2017	DPH	WUCC Officers	Acknowledgement that all components outlined in RCSA Section 25-33h-1(d)(B) have been included; requests that WUCC continue to work with local officials through the remainder of the planning process
4/11/2017	SCCOG	MMI	Typo on Page 1-1 (Central)

## 6. Consider and Approve Statement of Confirmation to be Submitted to ESA Holders for Signature



# Draft Statement of Confirmation



## STATEMENT OF CONFIRMATION OF EXCLUSIVE SERVICE AREA BOUNDARIES EASTERN PUBLIC WATER SUPPLY MANAGEMENT AREA

Whereas, in accordance with Section 25-33h of the Connecticut General Statutes, each potential Exclusive Service Area (ESA) holder in the Eastern Public Water Supply Management Area (PWSMA) is granted the right to request, through a declaration process, its future service area; and

Whereas, the Eastern Water Utility Coordinating Committee (WUCC) has formally requested such ESA declarations from potential providers and has received such declarations from interested parties within the Eastern PWSMA; and

Whereas, the Eastern WUCC has reviewed the declared ESA boundaries and confirms that all conflicts between potential ESA holders have been resolved through a process developed by the WUCC; and

Whereas, the Eastern WUCC will make recommendations to the Connecticut Department of Public Health (DPH) with regard to ESA awards;

Therefore, the undersigned accepts responsibility for the ESA as recommended by the Eastern WUCC and will abide by the following provisions:

1. **Service Area Boundaries:** The undersigned acknowledge that the attached physical map or maps, as identified below and as prepared from Geographic Information System (GIS) mapping, accurately identifies the ESA of the undersigned ESA holder as accepted by the Eastern WUCC on or prior to April 12, 2017. Copies of the approved maps and Statements of Confirmation will be kept on file at the Connecticut DPH offices and will be available for public review. Unofficial copies will be available electronically online on the Eastern WUCC website hosted by Connecticut DPH.
2. **Rights and Responsibilities:** As specified by the Regulations of Connecticut State Agencies 25-33h-1(k)(2), the undersigned acknowledges its right and responsibility for providing adequate service as requested by consumers and under terms otherwise provided by statute, regulation and ordinance within their ESA boundaries within a reasonable timeframe. Such rights and responsibilities are detailed in the ESA Document prepared by the Eastern WUCC. The undersigned acknowledges that it will adhere to any applicable changes to the statutes and regulations which may occur from time to time.
3. **Boundary Adjustments:** If at some time in the future it is in the best interest of the undersigned to make adjustments to an ESA boundary, such adjustments must be made in accordance with the ESA Modification Procedures in the Eastern WUCC Work Plan and be approved by the Connecticut DPH. Such adjustments must be reconfirmed by completion of a new Statement of Confirmation of ESA Boundaries and updates to the associated mapping.



# Draft Statement of Confirmation



## STATEMENT OF CONFIRMATION OF EXCLUSIVE SERVICE AREA BOUNDARIES EASTERN PUBLIC WATER SUPPLY MANAGEMENT AREA

The undersigned ESA holder has executed this Statement of Confirmation as of \_\_\_\_\_  
Date

\_\_\_\_\_  
ESA Holder

\_\_\_\_\_  
Representative (Signature)

\_\_\_\_\_  
Representative (Print)

\_\_\_\_\_  
Title (Print)

ESA Map Numbers Associated with this Statement of Confirmation: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Brief description of the ESA shown on the enclosed map(s) for which this Statement of Confirmation applies:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Statement of Confirmation

- Discussion
- Motion to *“Approve the Statement of Confirmation (as amended) to Be Distributed to ESA Holders for Signature”*



## 7. Integrated Report Topics – Water Conservation



# Integrated Report Topics



- WSA Section 7 Topics
- Regional Analysis of Population and Service Ratio, Consumption, and Safe Yield for 5-, 20-, and 50-year Planning Periods, by User Category
- Surplus Supply for Future Interconnections and Impact of Interconnections
- Joint Use of Facilities, Satellite Management
- Minimum Design Standards
- Water Conservation
- Potential Alternative Future Water Supplies, including Unassigned areas
- Potential Impact on Other Water Resource Needs (Water Quality, Recreation, Hydropower, Aquatic Habitat)
- Financial Considerations
- Compatibility of CWSP with local, regional, and state plans
- ***These will be discussed at a planning level, not site specific***

# Water Conservation



- Water conservation includes all the policies, strategies, and activities made to sustainably manage water
- Water utilities focus their conservation initiatives on ways to reduce customer use and unaccounted-for water loss (Supply and Demand Management)
- Water Conservation Plans are required under the Water Supply Plan Regulations (*CWWA recommends such information be public*)
- There are 18 utilities with Water Conservation Plans for systems in the Eastern PWSMA
- This discussion is focused on long-term conservation measures, not short-term conservation needs related to drought planning and response, or enforcement of mandatory conservation measures

# Demand Management



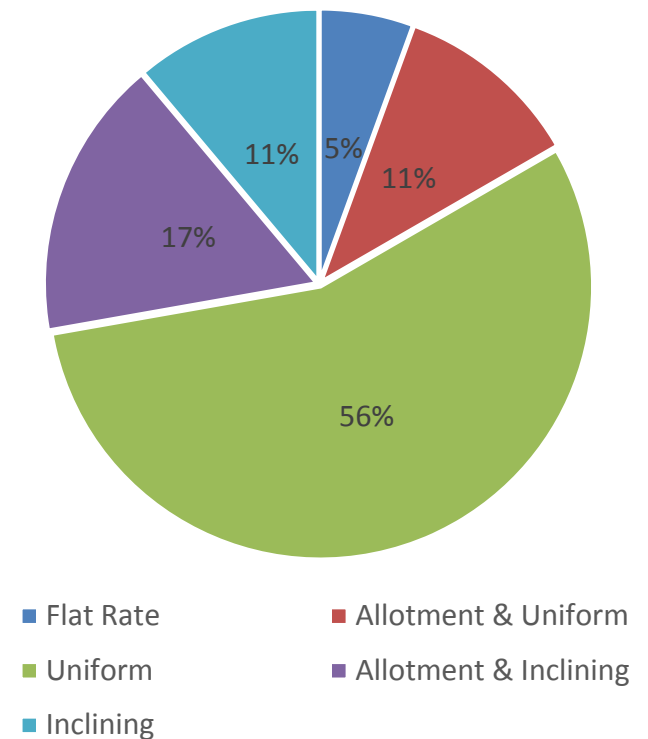
- Demand Management focuses on tracking customer usage, offering water audits and other assistance to major users, rate structures, universal customer metering, hydrant controls, and public education
- Nearly all systems either have a water audit/major user assistance program in place or were developing one
- Nearly all systems participated in 1990s retrofit program (estimated 5-10% reduction in demands); many still offer kits
- All systems have either close to 100%, or are 100% metered (except for Groton Long Point)
- All systems have some form of hydrant control (special keys, SCADA tracking) to prevent/mitigate unauthorized use

# Rate Structures



- Rate structures typically include a basic service charge and a charge for water actually used; only Groton Long Point uses a flat rate
- Some systems include an allotment of water in the basic service charge
- Usage charges can be:
  - Declining (poor conservation incentive);
  - Uniform; or
  - Inclining (best conservation incentive)
- SCWA also includes a water conservation surcharge on its uniform rate
- Groton Long Point has a higher summertime flat rate – most utilities have not yet considered such seasonal rates

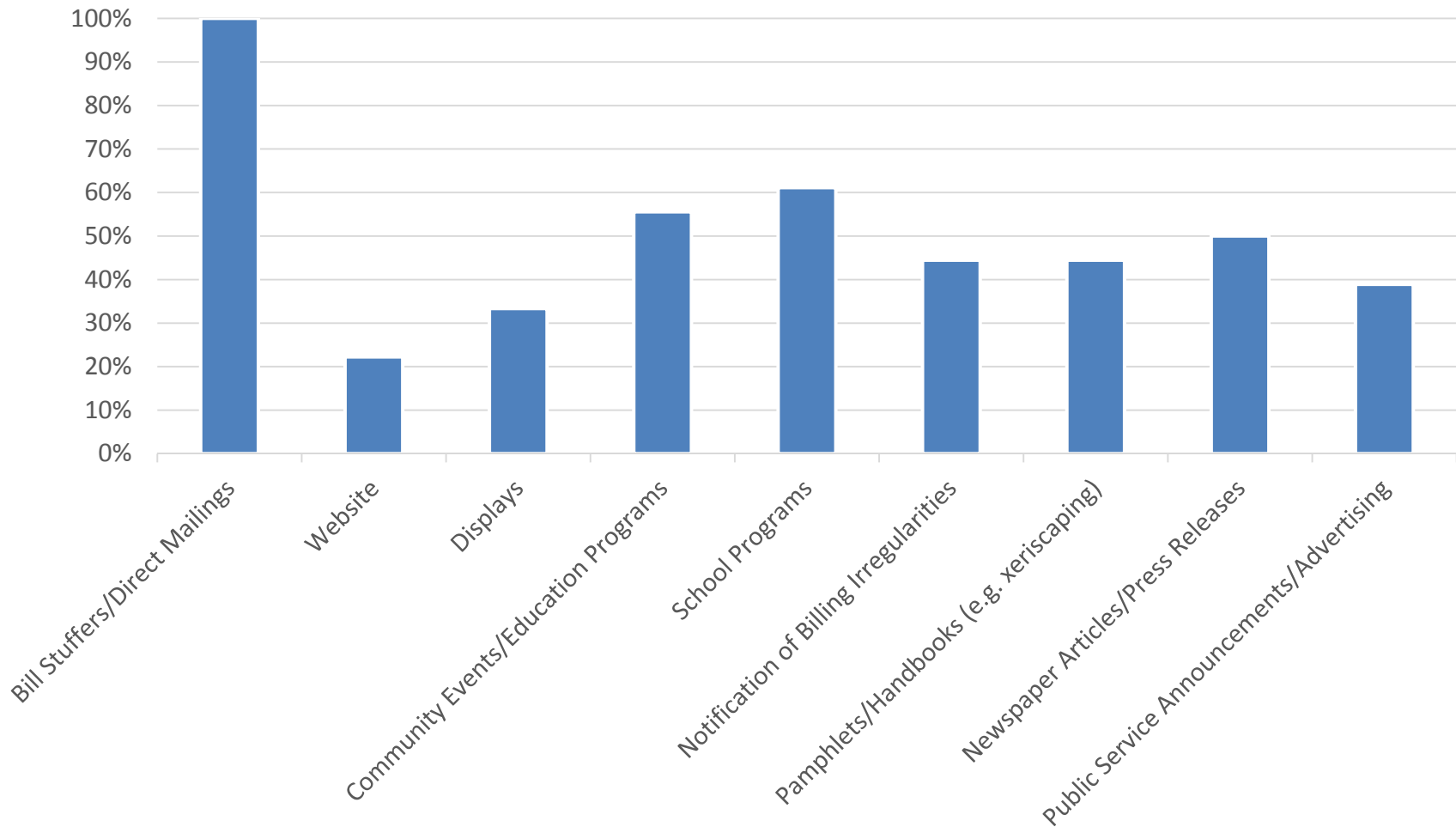
Rate Structures – Eastern PWSMA



# Public Education



## Public Education Programs - Eastern PWSMA



# Supply Management



- Supply Management focuses on source metering, annual evaluation of production and unaccounted-for water, leak detection, system pressure evaluations, and asset management
- All utilities conduct source metering and annual evaluations of water usage / calculation of unaccounted-for water
- All utilities conduct leak detection surveys – mandated by DEEP diversion permits every five years
- Many utilities commission a survey based on the percentage of non-revenue or unaccounted-for water usage
- All systems have an asset management plan for underground infrastructure – some are more robust than others

# State Policies and Planning



- Water Conservation touches nearly all aspects of water planning
- Water Supply Assessment cautions that for some systems, additional water conservation investments may have a limited return, and that additional public education is needed
- State Water Plan policies for water conservation include:
  1. Water conservation education and outreach
  2. Adopting water conservation incentives (to be used by utilities)
  3. Tracking passive conservation savings (state database)
  4. Support water management (auditing) activities for water providers
  5. Explore incentives for outdoor water conservation measures (e.g. tax-credit program)
  6. Support local water ordinances (drought response)
  7. Evaluation of barriers to green building and infrastructure
  8. Strengthening partnerships (between industry groups)
  9. Considering state-led conservation planning programs

## 8. Other Business



# Potential May 10<sup>th</sup> Meeting Agenda



1. Welcome & Roll Call
2. Approval of April Meeting Minutes
3. Formal Correspondence
4. Public Comment Period
5. Call for Nominations to Fill Open Tri-Chair Position
6. Review of Public Comments on Preliminary ESA Document *(if any come in by the end of the day)*
7. Review Draft Final ESA Document
8. Integrated Report Topics
9. Other Business