





January 22

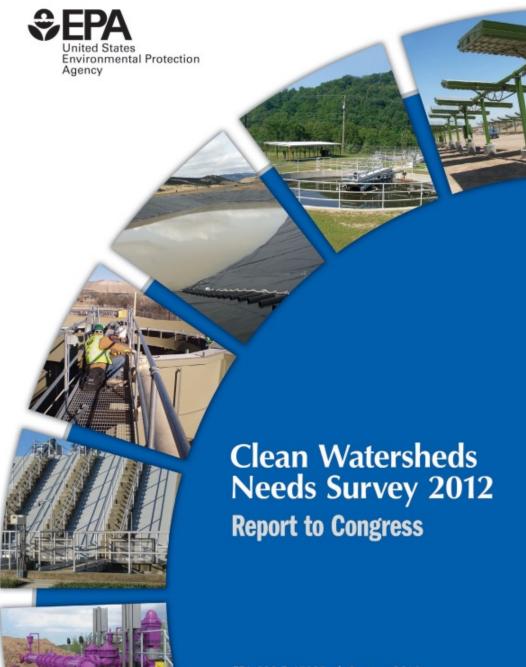
2023

A Tale of Two States

Clean Watershed Needs Survey Lessons Learned and How to Tackle the 2026 Survey

PRESENTED BY

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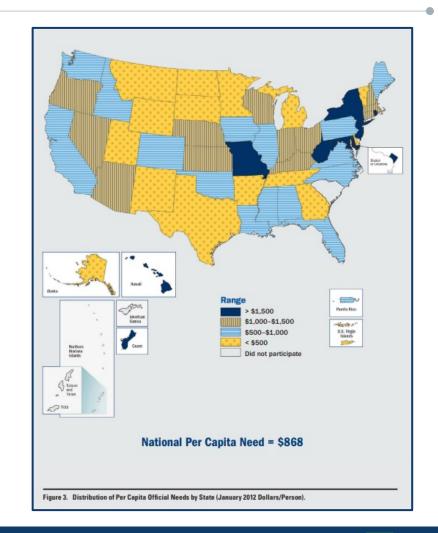
Presentation Outline

- →Overview of Clean Watershed Needs Survey (CWNS) Program and Requirements
- →Woodard & Curran/Massachusetts Findings
- →Rhode Island Findings
- → Lessons Learned and 2026 Next Steps

CWNS Overview

What is the Clean Watershed Needs Survey?

- →Comprehensive assessment of capital costs (or needs) to meet the water quality goals of the Clean Water Act
- → By the EPA, through the State Agencies
- → Report to Congress includes:
 - Estimates needs to address water quality or quantity public health concerns
 - Location and contact information for facilities and projects
 - Facility population served, flow, effluent, and unit process information
 - Nonpoint source pollution control best management practices





Eligible Projects, Needs, and Documents

- →Acceptable projects must be SRF eligible and have appropriate accepted documentation
- → Types of acceptable documents include the following:
 - CIP or Master Plan
 - Facility Plan or Preliminary Engineering Report
 - Final Engineer's Estimate or Low Bid
- →Other acceptable forms of needs support
 - Small Community Forms
 - PE Stamped Cost Estimates
 - State Specific Approaches (SSAs)



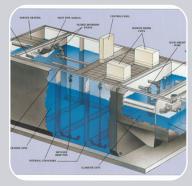












Wastewater Treatment

- Secondary Wastewater Treatment
- Advanced Wastewater Treatment

Collection Systems

- Infiltration and Inflow Correction
- Sewer Replacement or Rehabilitation
- New Sewers

Combined Sewer Overflows

 Combined Sewer Overflow Correction

Stormwater

- Grey Infrastructure
- Green Infrastructure
- General Stormwater Management

Nonpoint Source

- Agriculture
- Silviculture
- Ground Water Protection
- Marinas
- Brownfields
- Storage Tanks
- Sanitary Landfills
- Hydromodification

Decentralized Wastewater Treatment

Clustered Systems



Mass. Water Resources Authority

2012 Clean Watersheds Needs Survey

Description: The Massachusetts Water Resources Authority is

responsible for the operations of several wastewater treatment facilities, headworks, and other collection

system components.

MWRA System Name:

Mass. Water Resources Authority Point of Contact:

617 788 4300

CWNS Number: 25000128001 MA0103284*

Suffolk (Primary) County:

Charles (Primary) Watershed(s):

Congressinal

Permit Number(s):

7th CONGRESSIONAL DISTRICT (Primary)

District:

Address: 190 TAFTS AVE, DEER ISLAND, BOSTON, MA,02152

Total Documented \$1,212,018,849

Needs**:



Facility Description

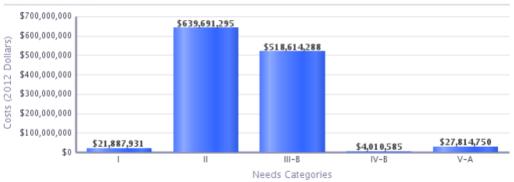
Туре	Present	Projected	Changes Needed	
Collection: Interceptor Sewer	N	Υ	New	
Collection: Pump Stations	Y	Y	Rehabilitation	
Treatment Plant	Y	Υ	Increase Capacity	



Mass. Water Resources Authority

2012 Clean Watersheds Needs Survey

Documented Needs



Needs Categories:

Secondary Treatment (I)

Advanced Treatment (II)

Replace/Rehab of Sewers (III-B)

New Interceptor Sewers (IV-B)

CSO - Traditional Infrastructure (V-A)

Note: In the CWNS 2012 Report to Congress, categories I-VI, X needs are reported as "Official Needs" and Category XII is reported as "Other Documented Needs".

Population Information

	Resident Population			Non-Resident Population		
	Present	Projected	Projected Year	Present	Projected	Projected Year
From upstream collection system(s)	1,693,288	1,862,568		15	15	
Total Receiving Treatment	1,693,288	1,862,568		15	15	

^{*} Denotes National Pollution Discharge Elimination System (NPDES) permit.

^{**} The Clean Watersheds Needs Survey (CWNS) provides a comprehensive assessment of the unfunded needs to meet the water quality and water-related public health goals of the Clean Water Act (CWA). The Survey is a "snapshot" of data and needs; needs are of January 1, 2012, and all the costs are in January 2012 dollars.

Timeline Overview

Spring 2022 CWNS Rolled out to States Summer 2022 – Spring 2023 Data Collection May 2023 EPA Data Reporting Deadline

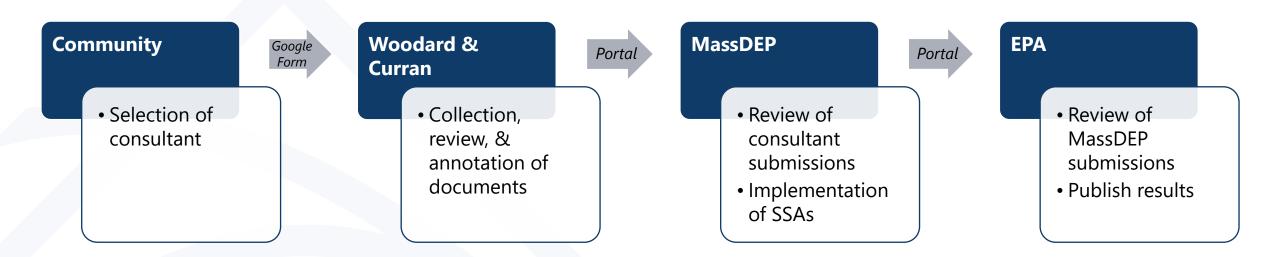
Summer 2024 EPA to Publish 2022 Survey Data

Spring 2026 CWNS Starts Again

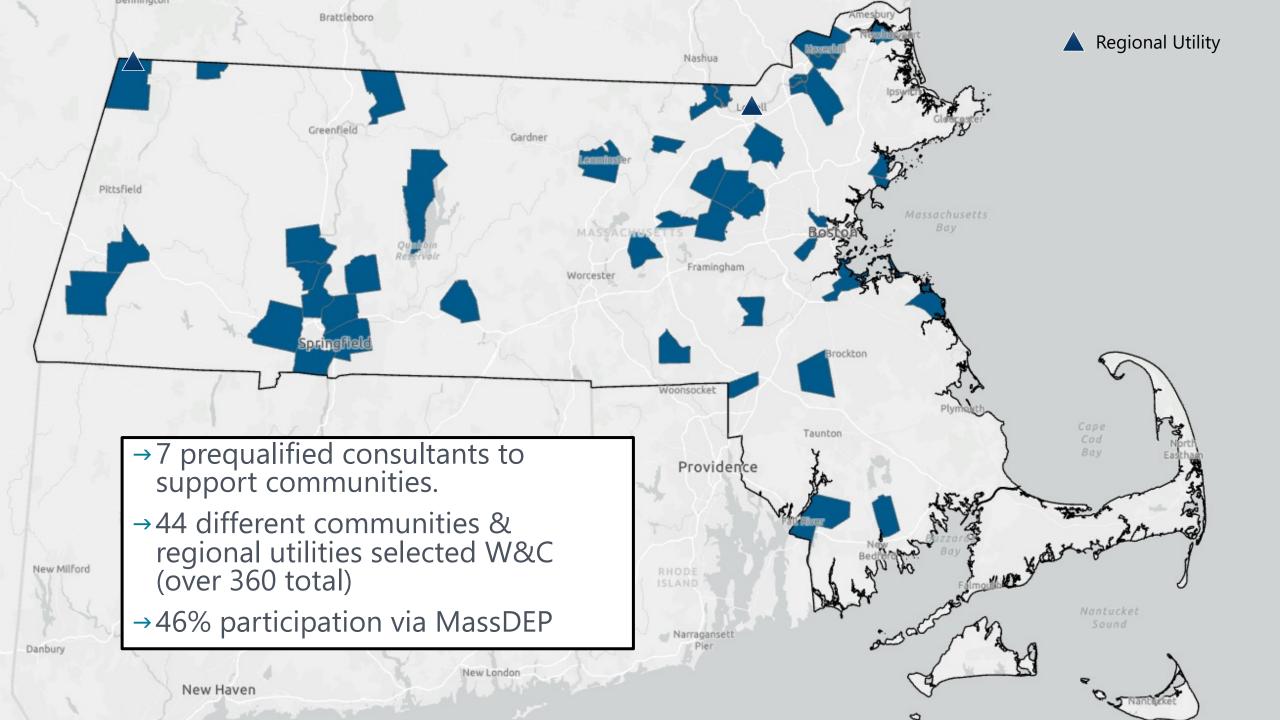


Woodard & Curran - Massachusetts

MassDEP Procedures & Process

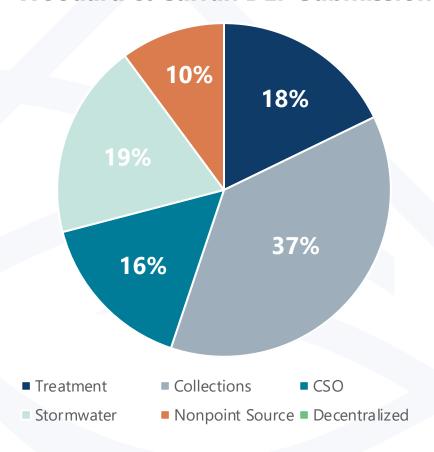


- → Preparedness from MassDEP
- → Active engagement from communities
- → Documentation & portal challenges
- → Documents versus SSAs



Documents Collected and Submitted – By the Numbers

Woodard & Curran DEP Submission



Category	Submission (\$)
Treatment	\$ 822,000,000
Collections	\$ 1,723,000,000
CSO	\$ 729,000,000
Stormwater	\$ 873,000,000
Nonpoint Source	\$ 468,000,000
Decentralized	\$ 0
TOTAL	\$ 4,616,000,000



Rhode Island

RIDEM Procedures & Process

- → Learning on the clock
- →Two main processes to learn:
 - Acquiring the needs
 - Using the CWNS portal to submit the needs
- →Order of implementation
 - State Specific Approaches
 - Cold Calling & Email Push
 - In-person presentations
 - Priority Project List
 - In-House Planning Documents
- → State procurement bringing on Limnotech and Woodard & Curran



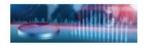
Clean Watersheds Needs Survey

nationwide for publicly-owned wastewater collection and treatment facilities to meet the water quality goals of the Clean Water Act. These capital investment needs are reported periodically to

About the CWNS



- CWNS Reports and Data



- 2004 CWNS

2012 CWNS Report and Data



- · Report to Congress
- 2012 Data and Mapping Tools



- Data dashboard Mapping tool

2022 CWNS Updates

- Key Dates:
- November 2021 December 2021: CWNS training webinars for
- December 1, 2021 May 31, 2022: State specific approach and state survey submittal period
- March 1, 2022; CWNS data collection begins
- Contact your CWNS State Coordinator for questions about your state.

WANT TO LEARN MORE? EPA.GOV/CWNS

State Specific Approaches



Stormwater

Green Infrastructure



Nonpoint Source

Alum Treatment



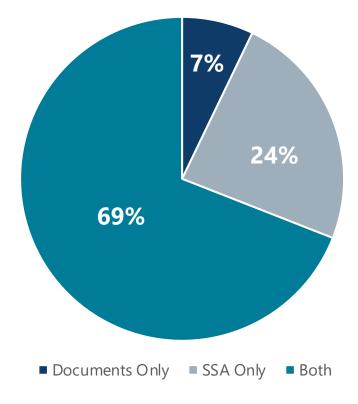
Decentralized

OWTS

Community Participation

- →42 total entities with 100% participation between SSAs and documentation
- →94% participation of wastewater systems through documentation
- →Less documented needs for stormwater and non-point source pollution
- →Utilized state-specific approaches to augment these categories

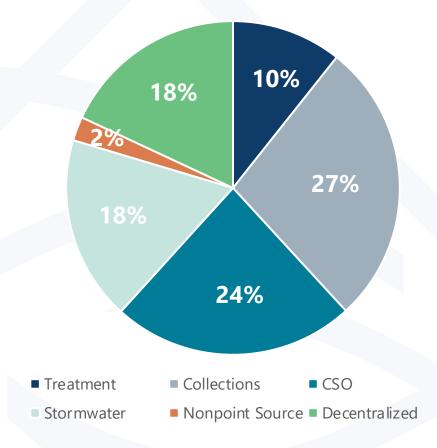
Community Participation





Documents Collected and Submitted – By the Numbers



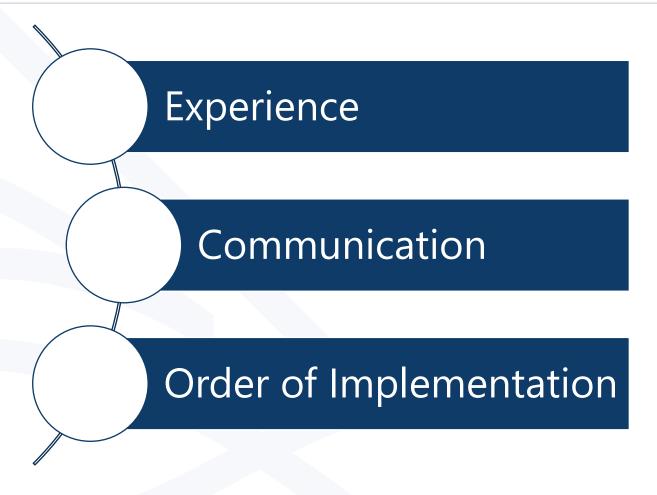


Category	Submission (\$)
Treatment	\$ 265,700,000
Collections	\$ 684,400,000
CSO	\$ 586,100,000
Stormwater	\$ 445,500,000
Nonpoint Source	\$ 57,940,000
Decentralized	\$ 449,200,000
TOTAL	\$ 2,488,840,000



Lessons Learned & 2026 Next Steps

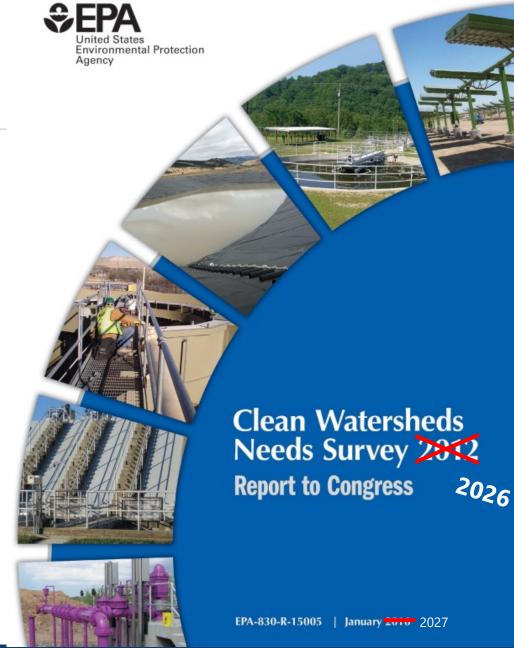
Lessons Learned





2026 Next Steps

- → Start the process early!
- →Inform communities and encourage them to update or develop planning documents
- →Create training procedures for staff and flyers for communities
- → Prepare SSA approaches











Thank You!

