Water Infrastructure A briefing for new legislators



Don't let out of sight mean out of mind

Presented by: The Water Infrastructure Alliance

March 9, 2023

Who is the Water Infrastructure Alliance?



- Individual associations working collectively to promote the importance of investment in the Commonwealth's water infrastructure
- We worked with the Legislature to create the Water Infrastructure Finance Commission
- We worked on passage of Chapter 259 of the Acts of 2014 to begin to address our enormous water infrastructure needs
- This law created a Water Infrastructure Advisory Committee overseen by EEA
- Provided more favorable loan rates for water infrastructure projects meeting certain criteria
- Increased the cap on the Commonwealth's "Contract Assistance" line-item which bridges the gap for the Clean Water Trust to provide more favorable financing
- We've advocated for additional funding (ARPA/BIL) to close the significant infrastructure funding gap that has been identified

Water Infrastructure Alliance Members

495/MetroWest Partnership American Council of Engineering Companies of Massachusetts Associated Industries of Massachusetts **Because Water** Boston Society of Civil Engineers Section Cape Cod Chamber of Commerce **Charles River Watershed Association Construction Industries of Massachusetts Clean Water Action Conservation Law Foundation Charles River Watershed Association** Environmental Business Council of New England Environmental League of Massachusetts Massachusetts Association of Land Surveyors and Civil Engineers

Massachusetts Highway Association Massachusetts Rivers Alliance Massachusetts Coalition for Water Resources Stewardship Massachusetts Municipal Association Massachusetts Water Environment Association Massachusetts Water Resources Authority Advisory Board Massachusetts Water Works Association Metropolitan Area Planning Council NAIOP, the Commercial Real Estate Development Association New England Water Environment Association New England Water Works Association **Pioneer Valley Planning Commission** The Nature Conservancy Utility Contractors Association of New England Wastewater Advisory Committee to the MWRA Water Supply Citizens Advisory Committee to the MWRA

Aging infrastructure needs attention













Why is it important to support water infrastructure investment?

- Utilities play a key role in protecting public health by maintaining water quality from the source through the distribution system to the customer, and then through the sanitation process, returning clean water to the environment.
- Utilities, with the support of their engineers and their contractors, construct and maintain the infrastructure needed to collect, treat, store, and distribute the drinking water and treat the wastewater.
- Reliable infrastructure enhances the economy and supports the overall quality of life we enjoy in the Commonwealth.

Some Current Challenges

PFAS

- MA has standard for PFAS in drinking water (Maximum Contaminant Level) of 20 parts per trillion for any one or combination of six PFAS compounds
- PFAS is not naturally occurring it is a manufactured product introduced into the environment
- Drinking water treatment is possible, but expensive
- Water/wastewater utilities are facing significant costs for disposal of sludge and other states are starting to restrict the transport of sludge.



From MassDEP 2/14/23 169 Public Water Systems have detections over 20 ppt https://www.mass.gov/info-details/per-and-polyfluoroalkyl-substances-pfas#pfas-detected-indrinking-water-supplies-in-massachusetts-

Combined Sewer Overflows

- CSOs concentrated in urban cores
 - CSOs utilized by regional workforce, but cost burden falls on urban residents
 - Urban centers often are disadvantaged or environmental justice communities
- \$4 Billion estimated in New England (2012)
 - Utilities balancing CSO obligations with aging infrastructure, other needs
 - No Federal funding for CSO remediation from FY10
 until ARPA



From MassDEP Combined Sewer Outfalls https://masseoeea.maps.arcgis.com/apps/webappviewer/index.html?id=08c0019270254f0095a 0806b155abcde

How much money is needed?



investments over the next 20 years (in billions of dollars)

2012 – MA Water Infrastructure Finance Commission Estimates **\$21.4 Billion** Massachusetts 20-year Need Reported by Project Category (in January 2015 dollars)



Category	SM
I Secondary Wastewater Treatment	786
II Advanced Wastewater Treatment	1,989
III Conveyance System Repair	1,460
IV New Conveyance Systems	2,919
V Combined Sewer Overflow Correction	977
VI Stormwater Management Program	201
X Recycled Water Distribution	22
Total	8,353

2018 - EPA's 6th <u>Drinking Water</u> Infrastructure Needs Survey and Assessment

\$12.24 Billion

<u>https://www.epa.gov/dwsrf/epas-6th-drinking-</u> water-infrastructure-needs-survey-and-assessment

2012 - EPA's <u>Clean Watershed</u> Needs Survey

\$8.35 Billion

https://www.epa.gov/sites/default/files/20 15-10/documents/cwns_fs-ma.pdf

What about New Federal Funding Opportunities?

American Rescue Plan Act (ARPA)

- Only six areas that ARPA can be used and Water Infrastructure is one of them
- The Commonwealth received \$5.3 Billion in discretionary funding
- 2021 the Legislature authorized \$100 million for water/sewer infrastructure from the State's ARPA funds (emphasis on addressing PFAS and CSOs)
 - \$12 million earmarked to specific projects
 - \$67 million distributed to projects <u>already</u>
 <u>funded</u> on 2021 IUP
 - \$20 million held for CSO projects 2022 IUP
- 2022 Economic Development/ARPA 2.0 authorized
 \$115 million to the Clean Water Trust
- The Commonwealth still has approximately \$1.75
 Billion at its disposal for future disbursement

Bipartisan Infrastructure Law (BIL)

- Drinking Water Bucket = \$714 million
 - General Projects, Lead Service Line, Emerging Contaminants
- Clean Water Bucket = \$469 million
 General Projects, Emerging Contaminants
- Total = \$1.183 billion distributed over 5 years
- Emphasis on loan forgiveness for "Disadvantaged Communities"
- <u>The only way to access BIL funding is to apply</u> <u>through the Clean Water Trust</u>

Funding Gap

2012 Funding Gap for MA Drinking Water & Wastewater Infrastructure





■ 2012 Funding Gap ■ BIL ■ ARPA

What has been the impact on ratepayers?

\$1,400



Annual Water and Sewer Retail Rate Survey

The Community Advisory Board to the Massachusetts Water Resources Authority

2022

Worcester

Chicopee



Combined Water and Sewer Rates 1990 through 2022

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https://www.mwraadvisoryboard.com/2022ratesurveypost/

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https://www.mwraadvisoryboard.com/2022ratesurveypost/

Framingham

Boston

How do infrastructure projects get addressed?

Clean Water Trust distributes the federal funding

Multi-step process to get projects ready

Communities must have needs identified, capital improvement plans	Projects must get local approval	Projects must be designed and put out to bid	Construction must be awarded

Could take a couple of years for a community to get through this entire process

Work with Water System operators / municipalities on planning studies	Environmental and other permitting
Work with regulatory agencies, both state and federal	Design Systems, prepare bid documents for project to be built by contractors

Role of Engineering Firms

Conduct needs assessments for future improvements

Where are the bottlenecks in the process?

- Most of the funding for the work done by engineering firms comes from the local system, not through the Clean Water Trust
- Workforce shortages
- Supply chain issues
- Increased Operations & Maintenance costs for systems
- ♦ Local approval
- Interpretations by regulatory agencies that create uncertainty for municipalities
- Buy America provisions in BIL that might not work with regulatory requirements



Role of Utility Contractors

Perform underground utility construction projects (water, sewer, electrical, gas, fiber optics, etc.)

Build above ground water and sewer pump and metering stations, treatment plants, and storage tanks and vaults

Infrastructure Investment Challenges





Infrastructure Investment Challenges

Lack of public awareness about the need to invest in water infrastructure

Winning Support For Your Local Water Infrastructure Project

A PR and Social Media Playbook

Spring 2022





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Don't let out of sight mean out of mind

Infrastructure Investment Opportunities



Protects Public Health



Increases Climate Resilience

4	

Improves the Environment

CREATES JOBS!!







Upgraded water infrastructure protects our rivers, ecosystems, & communities





in-massachusetts-rivers-

From June 2022 to February 2023: **1.55 billion gallons** of untreated or partially treated sewage entered Massachusetts waterways.



Stormwater remains the biggest threat to water quality.

Stormwater harms wildlife habitat, and is the primary reason why **more than half of our water bodies are considered "impaired.**"

EPA Region 1's map of impaired waterbodies

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M STUDIO

Impaired Waters and MS4 area in Massachusetts



Modern infrastructure enables a healthy environment - but municipalities need funding to make it happen!

What can you do to help?

- Only a shared partnership can address the challenges we face
- Use your platform to make your constituents aware of the need to support infrastructure investments locally
- Make the decision leaders in your district aware of the tools that have been developed to help communities "sell" these projects to the residents
- Help direct more state funds to water infrastructure projects
- Urge Congress to make water infrastructure funding a priority beyond the BIL funding years
- Don't let water infrastructure remain out of sight and out of mind any longer!





For Questions:

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#InvestInWaterMA

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