









Presentation to

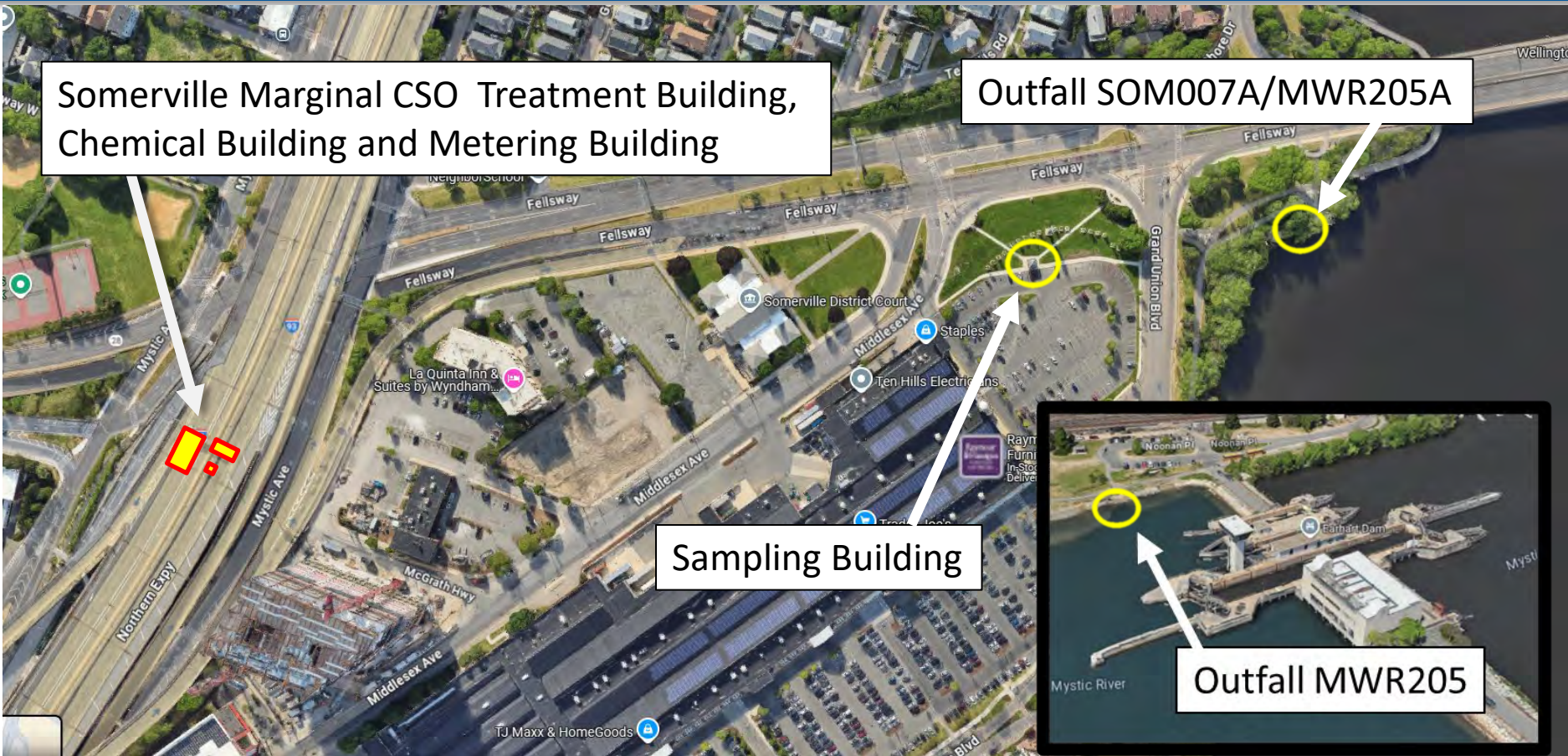
MWRA Board of Directors

***Somerville Marginal CSO Facility Rehabilitation Design,
ESDC, and REI Services
Professional Services Contract 7689***

March 18, 2026



Location of Somerville Marginal CSO Facility, Sampling Building, and Outfall 205A



Somerville Marginal CSO Treatment Building, Chemical Building and Metering Building

Outfall SOM007A/MWR205A

Sampling Building

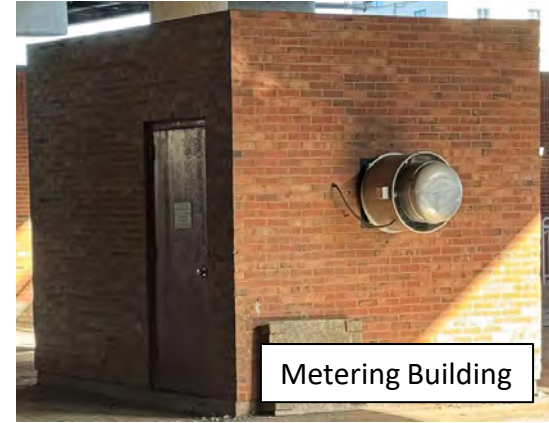
Outfall MWR205



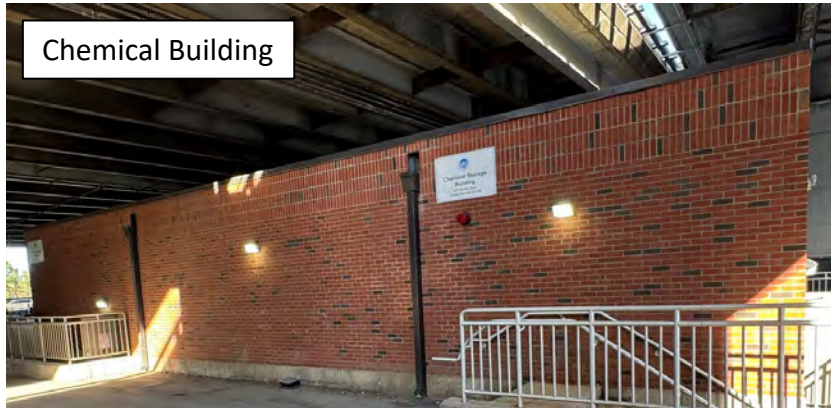
Somerville Marginal CSO Facility



Treatment Building



Metering Building



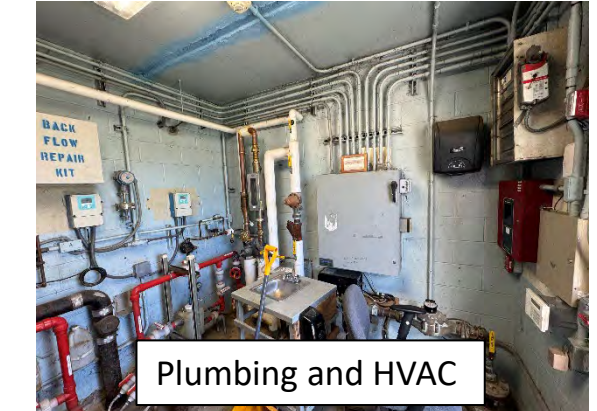
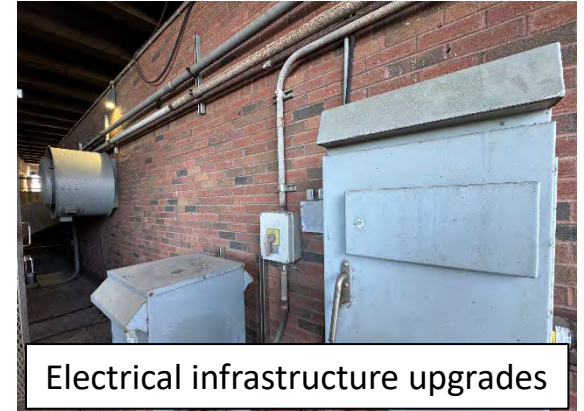
Chemical Building



Sampling Building



Key Improvements





PROPOSER	PROPOSED CONTRACT COST	LEVEL OF EFFORT (HOURS)	TOTAL POINTS	FINAL RANKING
HDR	\$9,795,358.16*	42,796	364.75	1
Arcadis	\$8,336,389.81**	35,439	358	2
Engineer's Estimate	\$6,404,496.55	32,454		
*Adjusted value to remove out of scope work and correct calculation of fee ** Adjusted to correct mathematical errors.				

Contract Duration: 60 months from Notice-to-Proceed



Presentation to

MWRA Board of Directors

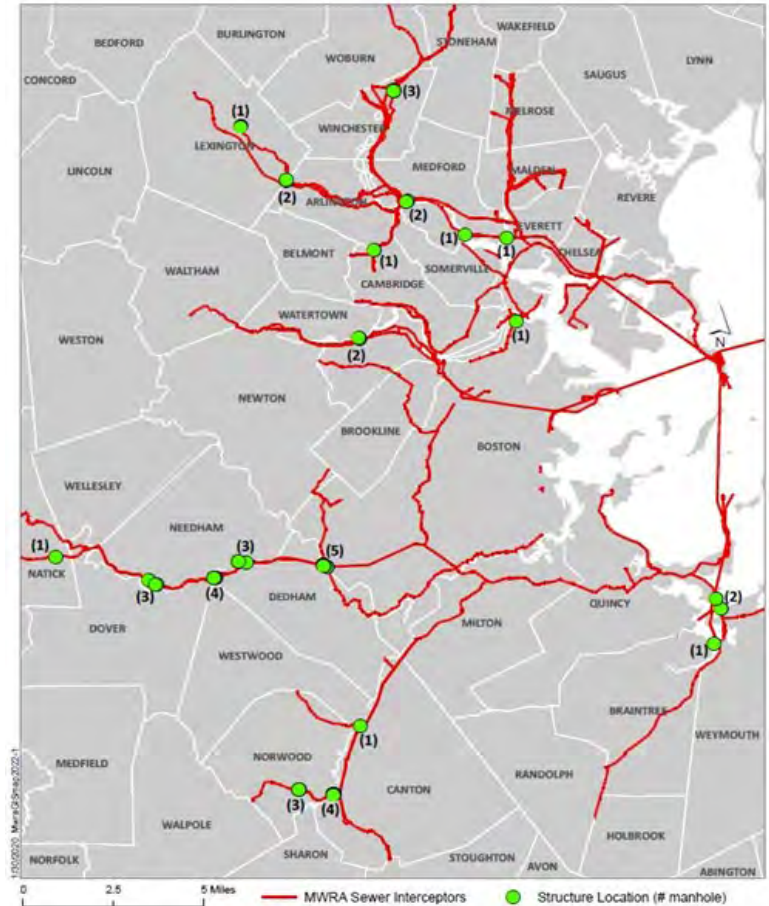
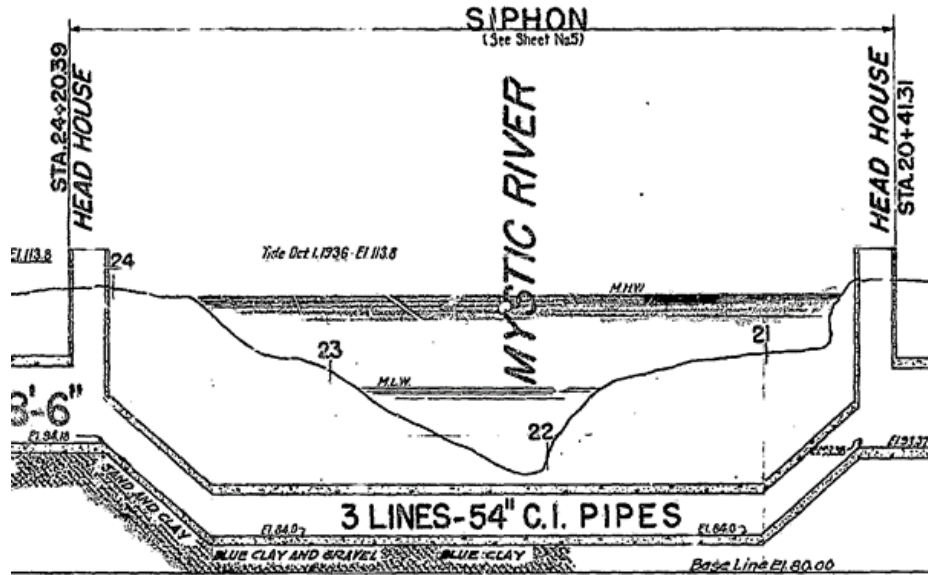
***Siphon and Junction Structure Rehabilitation
Contract 6225***

March 18, 2026



6225 Siphon and Junction Structure Rehabilitation

Rehabilitation of 40 siphon and junction structures in 17 communities





6225 Siphon and Junction Structure Rehabilitation

Work includes:

- Site access improvements
- Structural repairs
- Flood protection upgrade





6225 Siphon and Junction Structure Rehabilitation

Bidder	Bid Amount
<i>Engineer's Estimate</i>	<i>\$7,839,941</i>
National Water Main	\$9,682,000
D'Allessandro Corp.	\$11,457,000
Barletta Heavy Division, Inc.	\$13,750,000

Duration of work is 640 days



Presentation to

MWRA Board of Directors

Contact S632

Deer Island Treatment Plant

Cryogenic Oxygen Facility Compressor Services

March 18, 2026



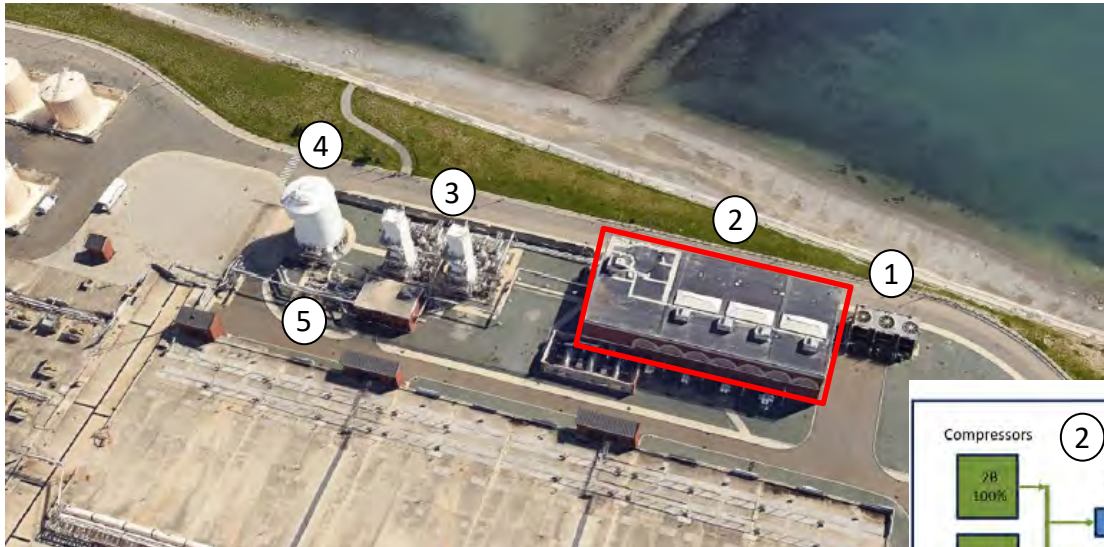
Cryogenic Compressor Building



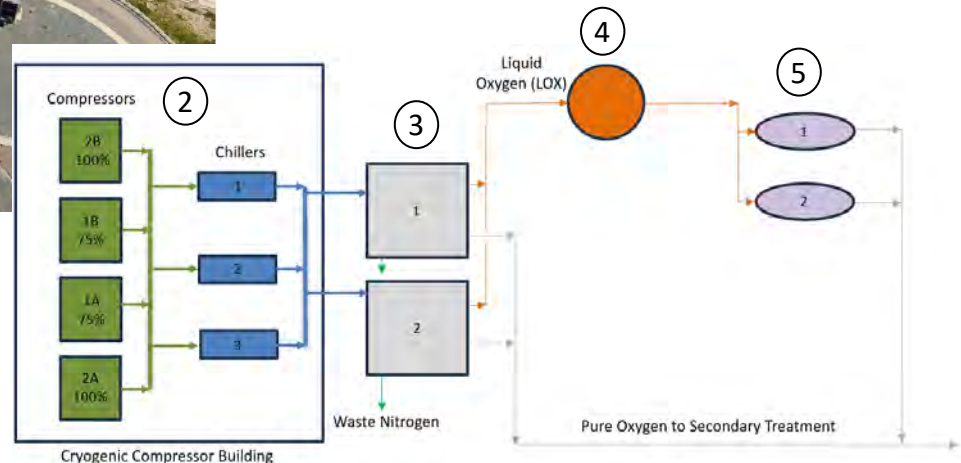


Cryogenic Oxygen Facility Compressor Services

Cryogenic Oxygen Generation Facility Overview and Process Flow Diagram



1. Cooling Towers
2. Cryogenic Compressor Building
3. Air Separation Units
4. LOX Storage Tank
5. Vaporizers





Cryogenic Oxygen Facility Compressor Services

Main Air Compressor (MAC) 2A (100% Unit)



Receiving “Level E” Service

- Main Compressor Sizing
 - Two (2) 2,500 HP, 3-Stage (100% Units)
 - Two (2) 2,000 HP, 2-Stage (75% Units)
- Manufactured by Atlas Copco



Contract Includes

- Compressor removal, reinstallation, and shipping
- Inspection at Contractor's Facility
- Overhaul Services
 - Level C (3-year Service)
 - Level E (10-year Service)
- Start-up, Testing, and Training
- Allowances:
 - Spare Parts:
 - Labor: (500 Hours)



Bidding Challenges

- WES's Bid VS Engineers Estimate
 - Temporary Facilities & Oversight
 - Atlas Copco Bid Price vs MWRA Quote
 - Lump Sum Cost For Disconnenction & Reconnection
- Specialized work
 - Identified three companies that meet the Qualified Compressor Servicers criteria which is required to perform the work
- Marketplace conditions & limited competition and impacted bid amount
 - High costs on material
 - Limitation of skilled labor required to perform



Bid Results

Engineer's Estimate	\$4,800,000
<i>RAM Industrial Services , LLC</i>	<i>\$5,191,204 *</i>
WES Construction Corp.	\$8,667,000

*The bid received from RAM Industrial Services, LLC was deemed unresponsive to the Authority's request for bids and was rejected as non-responsive.



Presentation to

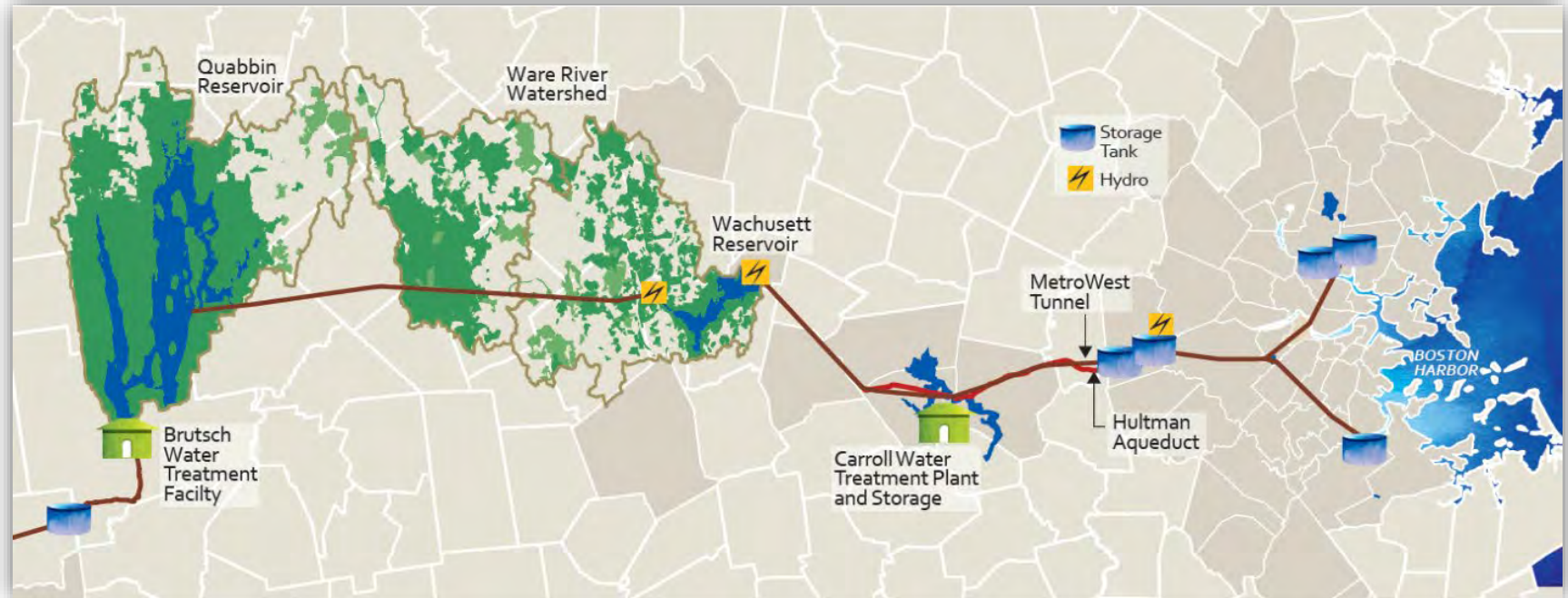
MWRA Board of Directors

***Report on 2025 Water Use Trends and
Reservoir Status***

March 18, 2026



MWRA Source – Quabbin + Ware + Wachusett

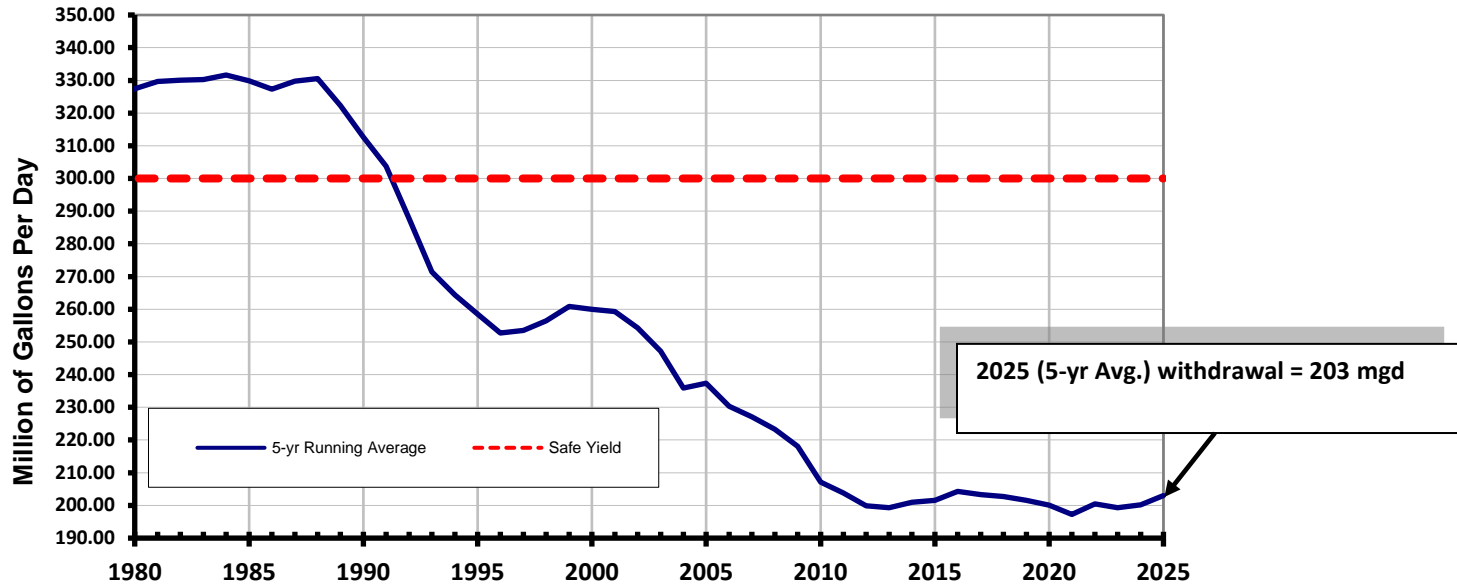




- Safe Yield – Quantity of water that can be reliably supplied over a period that includes a critical drought
- For MWRA -- the multi-year drought of the 1960's
- The combined safe yield of all three sources = 300 mgd

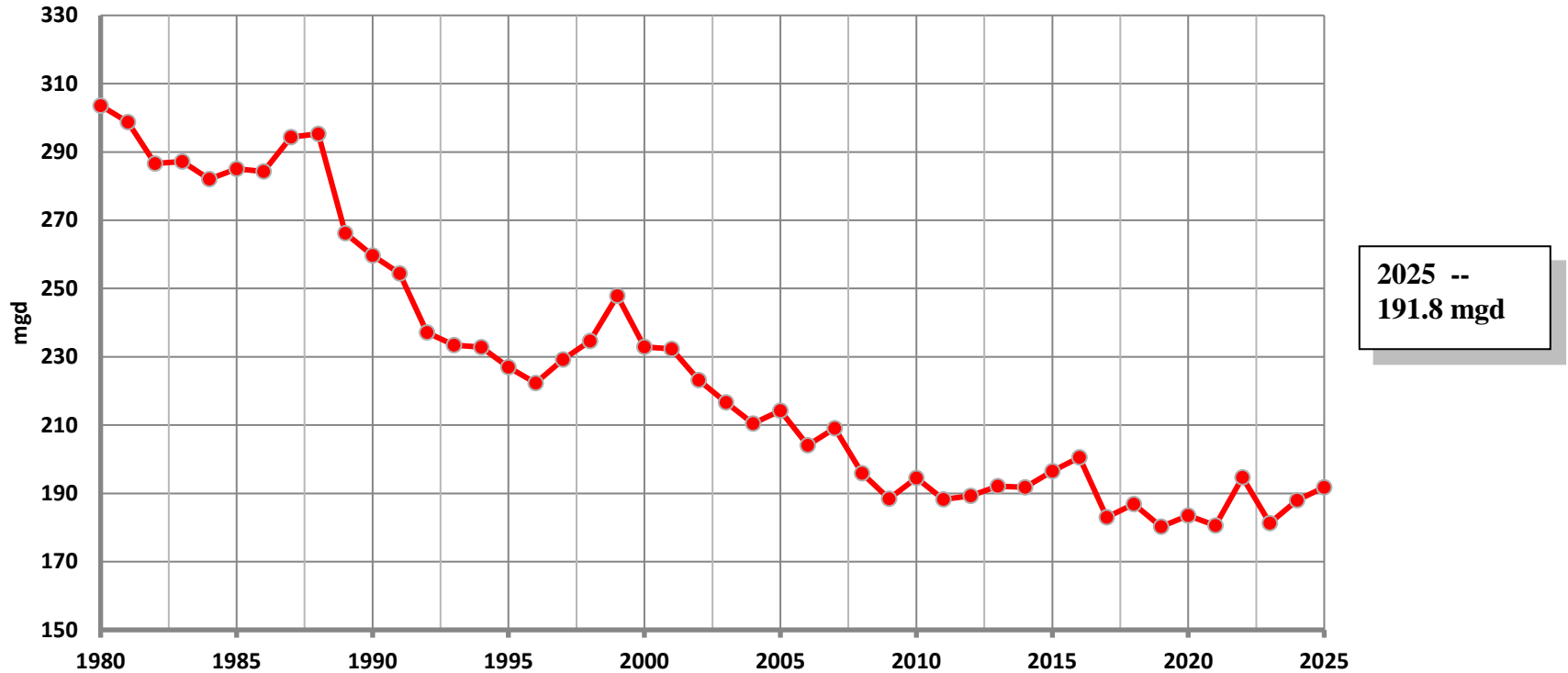


Reservoir Withdrawals Dropped Substantially Since 1980's



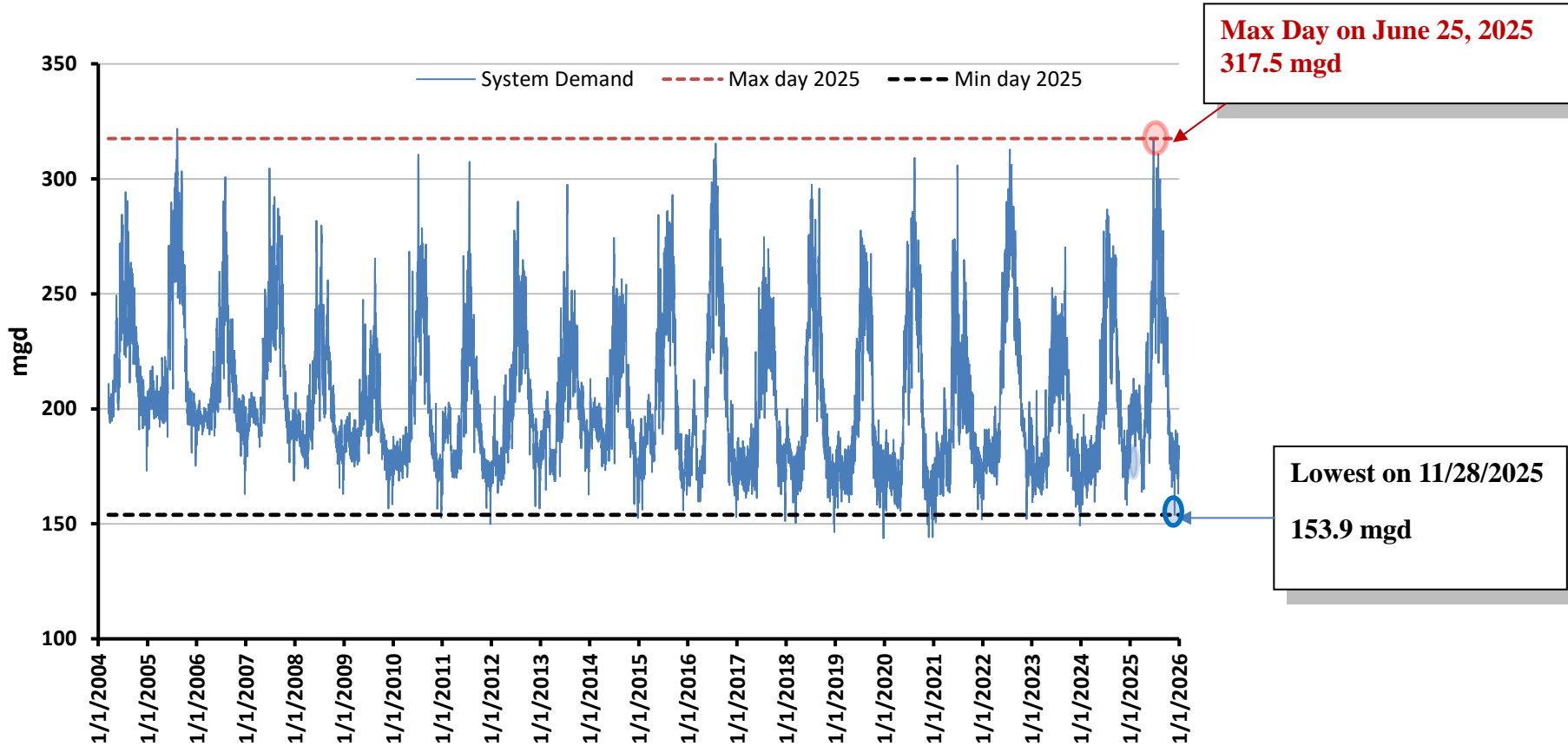


Total Consumption by MWRA Communities (1980 to 2025)





Daily System Demand



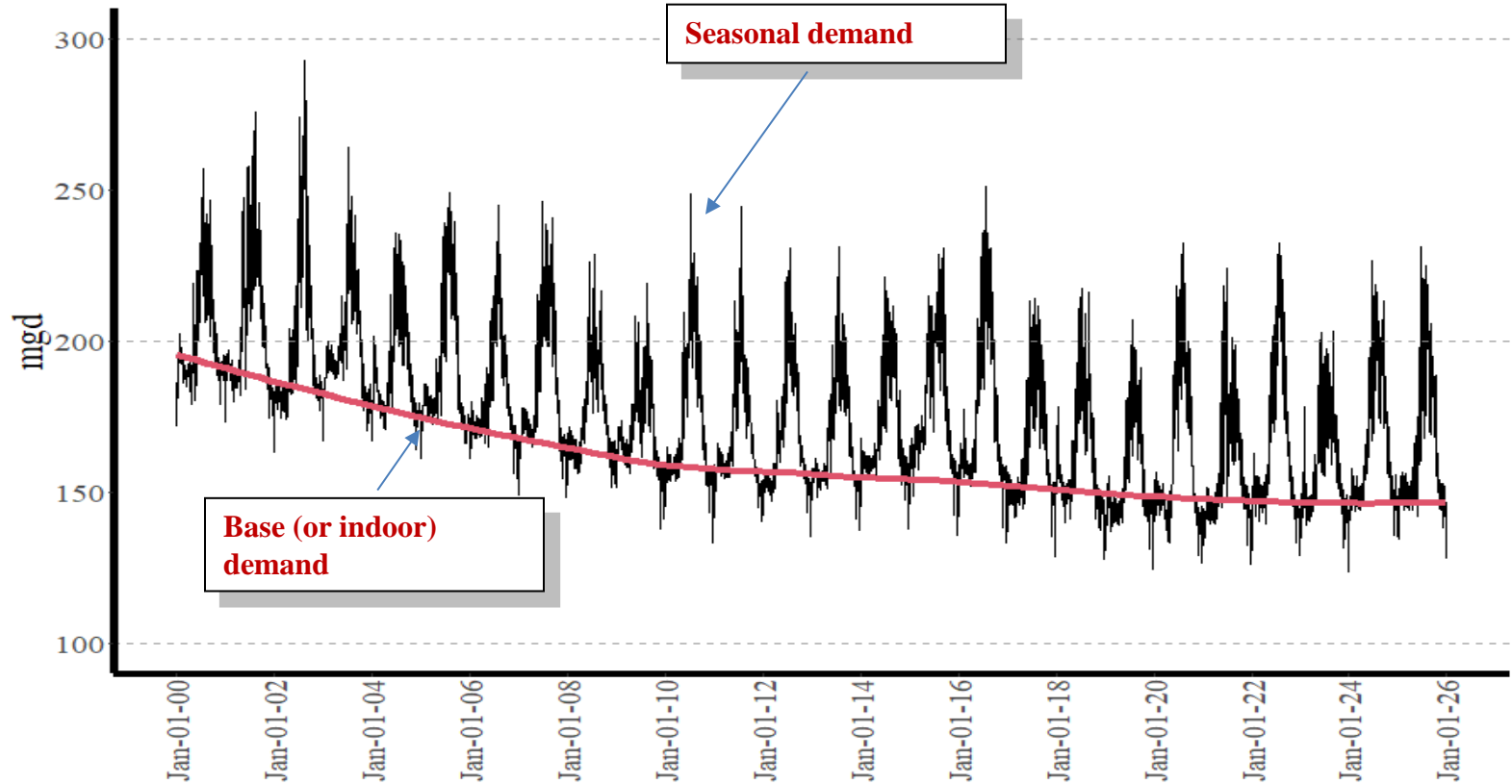


Boston Water Use (1900 to 2025)





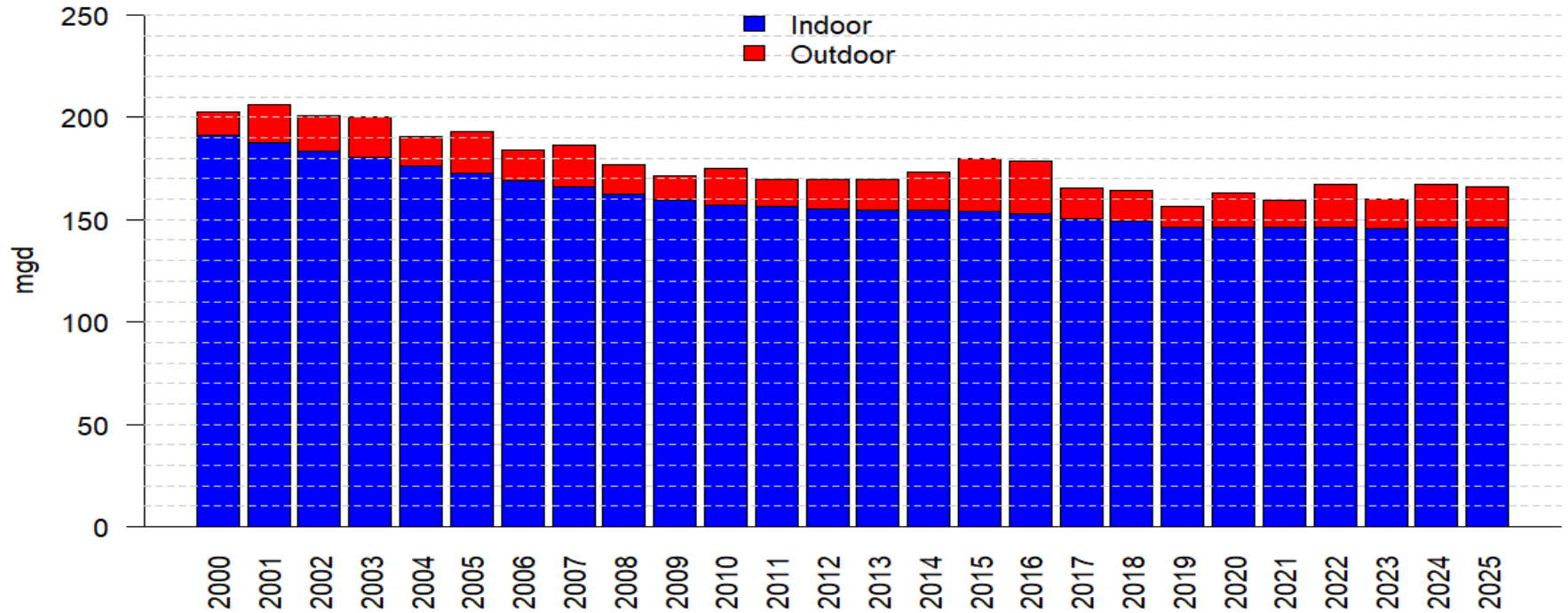
Base (Indoor) Demand vs. Seasonal Demand



Based on daily demand from fully supplied communities (2000 to 2025)

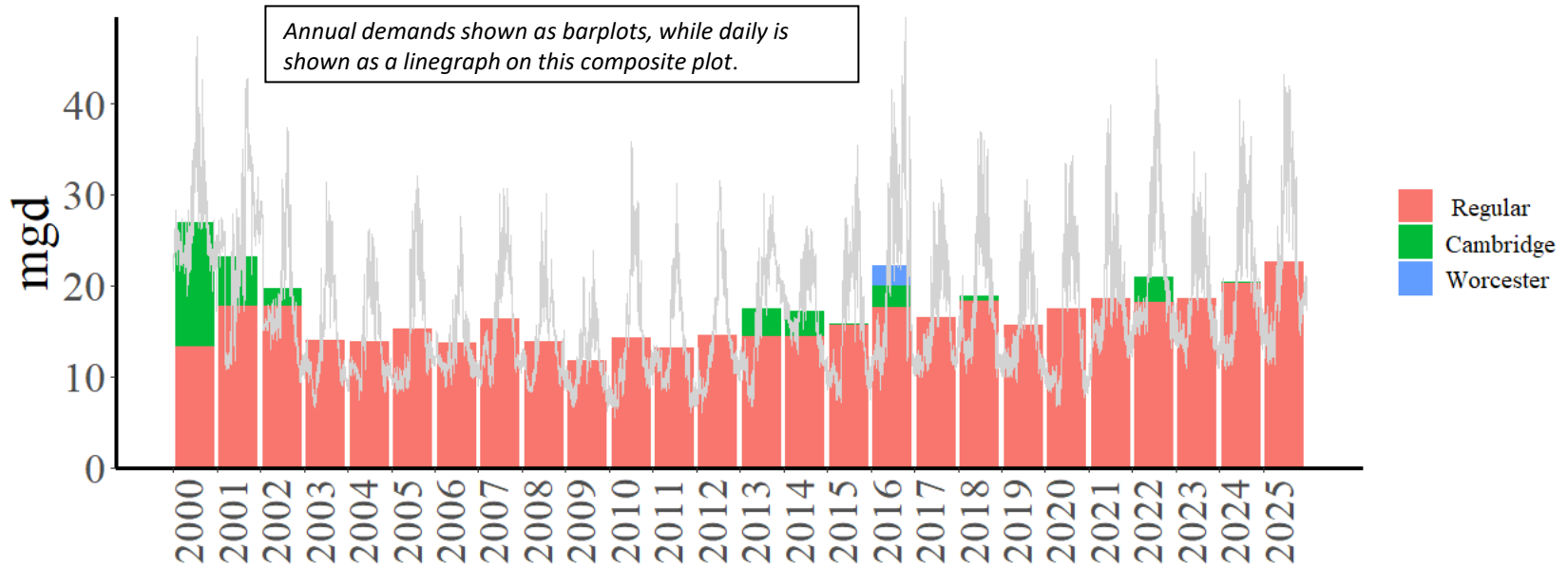


Fully Supplied Communities (Annual Base and Outdoor Use)



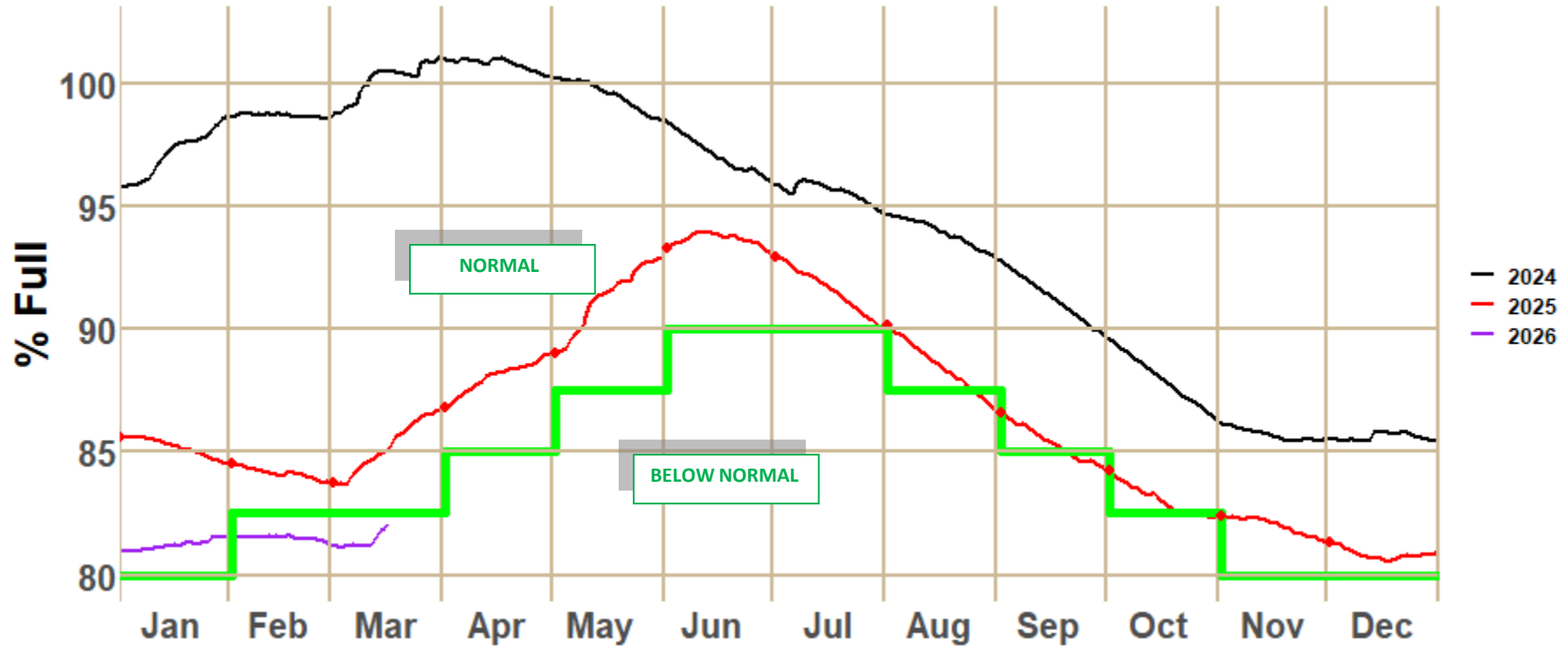


Partially Supplied Communities Have More Variable MWRA Demand



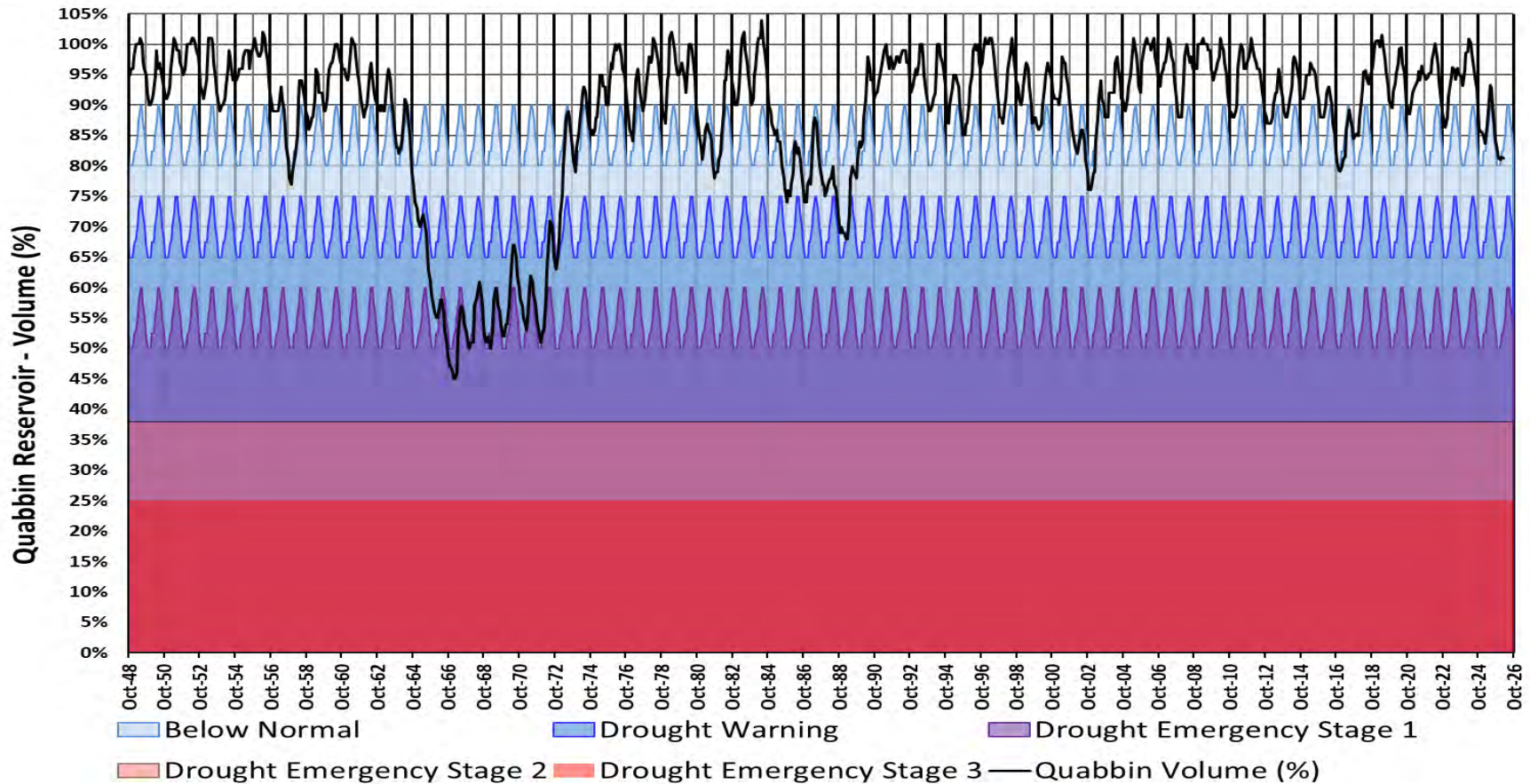


Quabbin Stayed In Normal Operating Range in 2025





Quabbin Reservoir Elevations (Oct 1948 – Mar 2026)





Quabbin Elevation Projections - Updated

	<u>1- Month</u>	<u>3 - Month</u>	<u>6 - Month</u>	<u>12 - Month</u>
Wettest (of Record)	<i>Normal*</i>	Normal	<i>Normal*</i>	Normal
Wet (25 percentile)	Below Normal	Below Normal	Below Normal	Normal
Median (50 percentile)	Below Normal	Below Normal	Below Normal	Normal
Dry (75 percentile)	Below Normal	<i>Below Normal*</i>	Below Normal	Below Normal
Dryest (of Record)	Below Normal	<i>Below Normal*</i>	Below Normal	Below Normal

* = Updated from Staff Summary



Presentation to

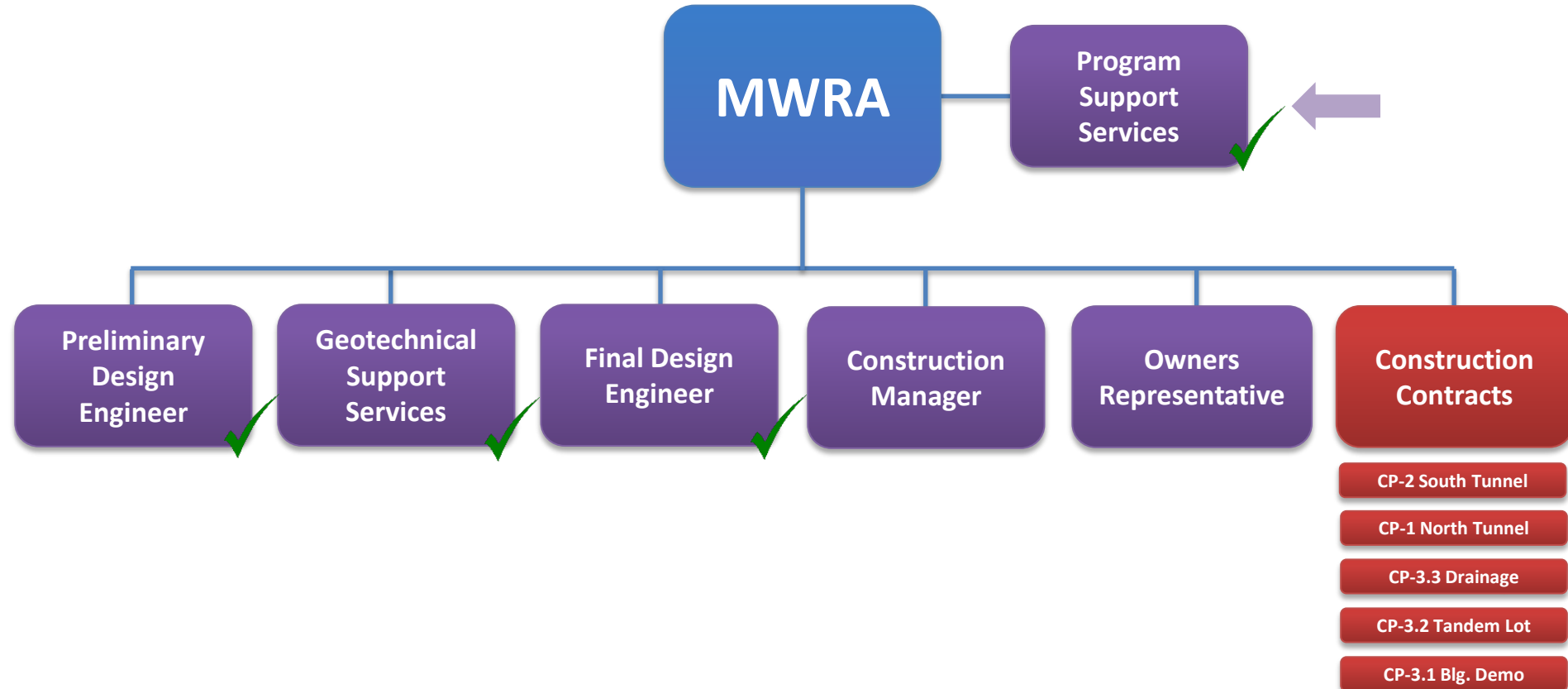
MWRA Board of Directors

***Metropolitan Water Tunnel Program
Program Support Services Amendment 3
Second Optional 24-Month Renewal***

March 18, 2026



Tunnel Program Organization





PSS Overview:

- Original Contract 60 months with two 24-month renewals
- MWRA staff retains 100% control over all consultants. The PSS functions as an extension of our technical review capability
- PSS provides as-needed skilled professionals with tunnel expertise
- Tunnel Design Technical Reviews of 60%, 90%, and 100% final design submissions against current industry standards
- Geologic/Geotechnical specialists to aid in understanding of complex geologic conditions
- Technical Reviews of CM-developed management plans



Proposed Amendment 3

- Second 24-month renewal
- Extend Contract 7655 from April 1, 2026 to April 1, 2028
- No change to contract amount



Presentation to

MWRA Board of Directors

***John J. Carroll Water Treatment Plant
Technical Assistance Consulting Services
Contract 7974 Amendment 2***

March 18, 2026



Contract 7974 – Carroll Technical Assistance Contract

- Contract 7974 expired on 3/15/26
- Requesting two (2) year contract extension to 3/15/28 with no increase in price to allow Stantec to complete two ongoing task orders
- No other Task Orders will be awarded to Stantec during the extended contract term

On-Going Task Orders

Number	Name	Remaining Scope
5	Brutsch WTF Sodium Hypochlorite Upgrades	<ul style="list-style-type: none">• Bid Phase Assistance• Engineering Services During Construction
7	Carroll Carbon Dioxide System Upgrades	<ul style="list-style-type: none">• Finalize design• Bid Phase Assistance• Engineering Services During Construction



Task Order 5 – Brutsch Sodium Hypochlorite Upgrades

Construction Scope

- Replace 2 bulk storage tanks
- Replace CPVC pipe and accessories
- Replace metering pumps and control panels

Construction Cost Estimate - \$983,000

Construction Duration – 12 months





Task Order 7 – Carroll Carbon Dioxide System Upgrades

Construction Scope

- Replace four (4) existing, interior vaporizers with two (2) exterior vaporizers
- Replace liquid and vapor return CO₂ piping and accessories
- Replace pressure safety valves on CO₂ tanks

Construction Cost Estimate - \$787,000

Construction Duration – 12 months



Ice Accumulation on Liquid CO₂ Piping



Electrical Room Damage



Existing CO₂ Process Piping and Storage Tanks



Carroll Technical Assistance Contracts 7974 Amendment 2

	Amount	Time	Dated
Notice to Proceed	\$2,000,000	24 months	3/15/23
Amendment 1*	\$0	12 months	3/19/25
Amendment 2	\$0	24 months	Pending
Adjusted Contract Amount	\$2,000,000	60 months	

*Approved under delegated authority

Request approval of Amendment 2 to extend Contract 7974 for an additional 24 months with no increase in price