









**Overview of Regional Water Plan Process** January February March April May June Workshop 4: Water Meeting 2 Meeting 1: Principles, Supply Alternatives: Introduction Local, Regional, Common s / Process Issues External Meeting 4 Meeting 3: Implementati Meeting 5: Draft Plan on Strategy Final Plan and Priorities October July September August November December OCPC Regional Water Plan







# **Comments on Updated Metrics**

- Updated metrics sent out in advance of this meeting (on June 18<sup>th</sup>).
  - Request for Metrics Feedback by July 3, 2024

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t of Data Used in Analysis	
Statistically Significant Variables (Included in Model)	Statistically Insignificant Variables (Not Included in Model)
Average maximum temperature	Average minimum temperature
Number of days in a month above 85°F	Max temperature in prior month
Total monthly precipitation	Number of days in a month above 90°F and 80°F
Total monthly precipitation in prior month	Number of days in a month without precipitation
Indoor water use efficiency index	Unemployment rate
Summer months ( June July August) (binary)	Median household income

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### Summary of Demand for Communities

The minimal increase in population served and increased water use efficiency over the planning horizon produces a downward trend in water demand for the OCPC planning area through 2050.

Community	Percent Change in Demand by 2050		Community	Percent Change in Demand by 2050
Abington	-22.6%		Hanover	-28.5%
Avon	-36.0%		Hanson	-32.0%
Bridgewater	-29.4%		Kingston	-22.1%
Brockton	-24.4%		Pembroke	-33.7%
Duxbury	-32.1%		Plymouth	-26.7%
East Bridgewater	-26.4%		Stoughton	-36.9%
Easton	-37.9%		West Bridgewater	-22.3%
Halifax	-36.3%		Whitman	-29.7%
Compared to	historical average water	r use by c	community for 2016-2	022





















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#### Hypothetical Alternatives ("Projects/Policies") for OCPC Supply Side **Demand Side** MWRA for all communities Conduct, Validate, and Act on Annual AWWA MWRA for communities abutting Stoughton and those abutting Water Loss Audits Weymouth Adopt AMI and Monthly Billing MWRA for communities abutting Weymouth Implement Customer-Side Leak Program More MWRA for Stoughton Improve Tiered Rate Designs Desalination at max capacity to supply X communities Increasing capacity of desalination to supply to X communities Inter-municipal PFAS treatment facilities Individual municipal PFAS treatment facilities Municipal Interconnections for Supply Additional Municipal Wells Stormwater capture Reclaimed water for non-potable uses

Objectives	Reliable Mun	icipal Supply	Cost Effectiveness	Ecological Health	Innovation	Fai	mess	Drinking Water Quality	Efficien Adapta	icy and ability
Alternatives										
dWRA for all communities	100%	10%	20M/benefit	5	2	0.1	3	100%	1	5
MWRA for communities abutting Stoughton and abutting Weymouth	70%	4%	12M/benefit	3	2	0.4	2	70%	1	3
MWRA for communities abutting Neymouth										
More MWRA for Stoughton										
Desal at max capacity to supply X communities										
Desal at 80% capacity to retain buffer										
Centralized PFAS treatment facilities	75%	15%	18M/benefit	3	1	0.6	1	75%	1	2
Decentralized PFAS treatment programs										
nterconnections: A, B, C, D, E, F,etc.										
Brackish groundwater										
Stormwater capture	5%	0%	4M/benefit	3	3	0.8	1	5%	1	1
Reclaimed water for non-potable uses										
Jnaccounted-For Water reductions	80%	15%	6M/benefit	4	1	0.4	1	80%	5	4

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	Reliable Municipal Supply	Cost Effectiveness	Ecological Health	Innovation	Fairness	Drinking Water Quality	Efficiency and Adaptability
Stakeholder A	50	10	10	5	15	5	5
Stakeholder B	25	10	25	10	10	10	10
Stakeholder C	5	5	5	60	10	5	10
Stakeholder D	20	5	5	5	10	15	40
Stakeholder E	5	5	70	5	5	5	5
Stakeholder F	14.3	14.3	14.3	14.3	14.3	14.3	14.3
Stakeholder G				•••			
Stakeholder H			V				
Stakeholder I							
Stakeholder J							









### Water Supply Discussion

- 1. What are you committed to right now and in the next 5 years?
- 3. Longer term, do you feel there is a need for redundancy for drought, cyber security, short term issues or other concerns? Are you open to the following:
  - a) MWRA
  - b) Desalination
  - c) Municipal Interconnections
  - d) Reclaimed Water for Non-Potable Use (eg golf courses...)
  - e) Other
- 4. What are actions that your organization would like to see included in the Regional Water Plan?

As you answer these questions, consider local and regional resiliency.

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## Upcoming Schedule

WHEN	DETAILS
Wednesday July 31 <sup>st</sup> 9:00 am – 12:00 pm	Workshop 5
Tuesday, August 27 <sup>th</sup> 9:00 am – 12:00 pm	Workshop 6
Tuesday, September 24 <sup>th</sup> 9:00 am – 12:00 pm	Workshop 7
Tuesday, October 29 <sup>th</sup> 9:00 am – 12:00 pm	Meeting 3
Monday, November 18 <sup>th</sup> 8:00 am – 12:00 pm	Meeting 4
Tuesday, December 10 <sup>th</sup> 8:00 am – 12:00 pm	Meeting 5

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