



DIRECT POTABLE REUSE RESEARCH INITIATIVE

WEST BASIN MUNICIPAL WATER DISTRICT



This project was funded in part through Metropolitan’s Foundational Actions Funding Program. The study report is available on mwdh2o.com/AboutYourWater/FAFprogram.

Developing Research to Inform Regulations and Fostering Acceptance of Direct Potable Reuse (DPR)

DEVELOP PLANS TO ILLUSTRATE THE FEASIBILITY OF DPR

The DPR Research Program builds on existing research done by the Water Environmental & Reuse Foundation to address critical questions regarding the feasibility of DPR. The four studies included in this project will strive to meet the goal of addressing regulatory, scientific, technical, and public perception barriers to DPR. These studies are: Model Communication Plans for Increasing Awareness and Fostering Acceptance of DPR; Critical Control Point Assessment to Quantify Robustness and Reliability of Multiple Treatment Barriers of a DPR Scheme; Guidelines for Source Water Control Options and the Impact of Selected Strategies on DPR; Development of an Operation and Maintenance Plan, and Training and Certification for DPR Systems.

WATER TOMORROW
Foundational Actions Funding Program



ISSUES ADDRESSING

Lack of data, regulations, and public information regarding DPR



POTENTIAL REGIONAL BENEFITS

Advance the knowledge and foster public acceptance of DPR



PROJECT PARTNERS

Eastern Municipal Water District; Burbank Water and Power; City of Torrance; Western Municipal Water District; Las Virgenes Municipal Water District; Upper San Gabriel Valley Municipal Water District; Three Valleys Municipal Water District; Municipal Water District of Orange County; Water Environment & Reuse Foundation

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GOAL

Develop a communication plan, evaluate critical control points for DPR treatment, evaluate upstream wastewater impacts, and provide recommendations for operation and maintenance needs

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FINDINGS

This research, alongside other studies, led to the determination that it is feasible to develop criteria for DPR regulations

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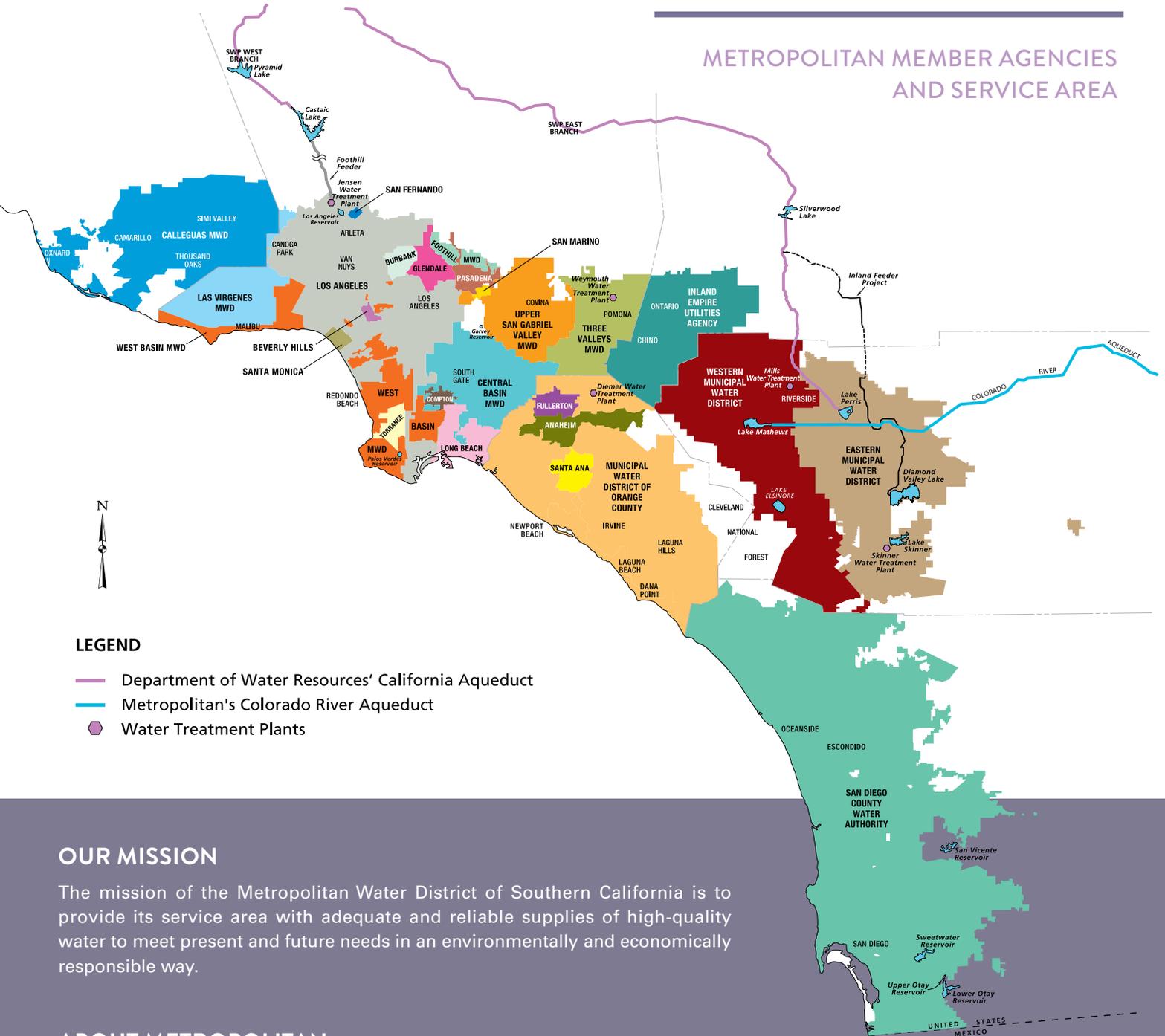
NEXT STEPS

Begin creating and refining outreach materials; increase future monitoring and data collection at advanced treatment facilities; pursue avenues of additional research to refine strategies for source control; continue to refine O&M, training and certification framework

Reducing Barriers to Future Water Resource Production

Metropolitan’s Integrated Water Resources Plan was developed as a blueprint for water supply reliability for Southern California. To implement this plan and address future water supply uncertainties, Metropolitan’s Board of Directors approved a pilot funding program for technical studies and pilot projects that reduce barriers to future production of groundwater, recycled water, seawater desalination and stormwater. The request for proposals to Metropolitan’s Member Agencies resulted in agreements for 13 projects totaling approximately \$3 million in funding. These projects evaluated new water treatment technologies, developed data to inform regulations, studied options for infrastructure innovation and identified future resource potential.

METROPOLITAN MEMBER AGENCIES AND SERVICE AREA



LEGEND

- Department of Water Resources' California Aqueduct
- Metropolitan's Colorado River Aqueduct
- ⬡ Water Treatment Plants

OUR MISSION

The mission of the Metropolitan Water District of Southern California is to provide its service area with adequate and reliable supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way.

ABOUT METROPOLITAN

The Metropolitan Water District of Southern California is a state-established cooperative of 26 member agencies – cities and public water agencies – that serve nearly 19 million people in six counties. Metropolitan imports water from the Colorado River and Northern California to supplement local supplies and helps its members develop increased water conservation, recycling, storage and other resource management programs.

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