



Monrovia City Council  
July 7, 2021 Meeting

# 2020 Urban Water Management Plan

# Objectives

- Hold a public hearing on Urban Water Management Plan
- Adopt a Resolution approving the Addendum to the 2015 Urban Water Management Plan
- Adopt a Resolution approving the 2020 Urban Water Management Plan

# Urban Water Management Planning Act of 1983

- Defines urban water supplier as those providing drinking water to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually
- Requires each urban water supplier to prepare and adopt an Urban Water Management Plan every five years
- City of Monrovia is an urban water supplier
- Plans are prepared for years ending in “0” and “5”
  - Since 2009, plans have been due in July of the following year
  - Our plan was last updated in 2016

# Purpose of an Urban Water Management Plan

- A framework for long-range water resource planning that evaluates
  - The City's water supply and water demand over the next 25 years
  - Analyzes trends in Water Use and Conservation
  - Uses multiple scenarios to analyze risk, including normal water year, single-year drought, multi-year drought
- Documents compliance with Water Conservation Act of 2009
  - Reducing water usage by 20% by 2020
- Outlines the City's Water Shortage Contingency Plan, our operational plan to address a water shortage

# What are the new requirements for 2020?

- Report 5 years of Water Loss data
- Perform a Drought Risk Assessment, assuming dry years from 2021-2025
- Perform more stringent Water Supply Reliability Assessment, assuming droughts of longer duration
- Enhance the City's Water Shortage Contingency Plan, with processes to regularly assess and plan for potential short-term water shortages

# About Monrovia's Water Source

- All of Monrovia's drinking water is produced from ground water wells within the Main San Gabriel Basin
- The Basin is recharged by 3 sources:
  - Stream runoff from the San Gabriel Mountains and local rainfall
  - Recycled Water from LA County Sanitation District's water reclamation plants
  - Imported water from Northern California and the Colorado River via Metropolitan Water District

# Sacramento-San Joaquin Delta Reform Act of 2009

- Requires local public agencies who receive water that passes the Delta to demonstrate consistency with Delta Plan Policy WR P<sub>1</sub>, Reduce Reliance on the Delta Through Improved Regional Water Self-Reliance
- Since the Main San Gabriel Water Basin is recharged with water from the Delta, the City is considered to receive water from the Delta
- Document in both 2015 and 2020 UWMPs

# Why do we need to update the 2015 UWMP?

- The California Department of Water Resources (DWR) publishes a Guidebook to describe the requirements of each iteration of the UWMP
- The 2015 Guidebook omitted mention of a requirement to comply with Delta Plan Policy WR P1
- DWR is now asking all agencies to prepare reports demonstrating reduced Delta reliance and submit them as addendums to their 2015 UWMPs
- Staff has prepared Appendix Q as an Addendum to the 2015 UWMP
  - This report is also included as Appendix B in the 2020 UWMP



# Analysis and Findings

# City's Three-prong approach to Water Conservation:

- Policies to incentivize efficient use of water:
  - Tiered Water Rates
  - Water Efficiency Landscape Ordinance
  - Low-Impact Development standards
- Projects to reduce water waste
  - Monrovia Renewal pipeline replacements
  - Annual water meter replacements
- Promotion of water conservation as a way of life via:
  - Sustainable Landscaping Recognition program
  - Social media posts
  - Other Community Programming

# Water Use

- Water Conservation Act of 2009 requires public agencies to reduce water use by 20% per capita per day for the year 2020
  - baseline of 1995 to 2004

Average Baseline	2020 Target	2020 Actual Consumption	Percentage Change
195 GPCD	156 GPCD	154 GPCD	21% Decrease

- City-wide water loss also saw significant decrease from 2015 to 2020

2015 Water Loss	Avg. Annual Water Loss, 2016-2020	% Change
421 AFY	339 AFY	19% Decrease

# How do we achieve Regional Water Self-Reliance?

1. Increasing Water Use Efficiency (Conservation)
2. Expansion of the portfolio of Basin Water Recharge, including
  - A. Stormwater Projects
  - B. Regional Recycled Water Program



# Stormwater Projects

- The City is actively working with regional partners in the Rio Hondo/San Gabriel Water Quality Group to develop stormwater capture projects as laid out in the revised Watershed Management Program (rWMP)
- The 5 projects laid out in the rWMP are projected to increase groundwater recharge within the Basin by over 1,400 acre feet per year (AFY)

# Regional Recycled Water Program

- A partnership between Metropolitan Water District and the LA County Sanitation District to develop an Advanced Water Treatment Plant in Carson, CA
- Includes 60 miles of pipelines to deliver water across LA and Orange Counties
- Projected to produce up to 168,000 acre feet of water per year (AFY)
- Up to 80,000 AFY of water earmarked for the Main San Gabriel Basin

# Map of Regional Recycled Water Program



# Regional Water Self Reliance will be realized by 2040

Category	Baseline (2009)	2015	2020	2025	2030	2035	2040	2045
Water Demand (Before Conservation)	7,334_	7,283_	8,102_	8,542_	8,983_	9,143_	9,306_	9,472_
Water produced by Main Basin	4,642_	4,642_	4,643_	4,642_	4,642_	4,643_	4,642_	4,642_
Water Supplies Contributing to Self-Reliance	0_	936_	1,125_	1,073_	1,128_	2,824_	4,664_	4,829_
Water Supplies from Delta	2,692_	1,705_	2,334_	2,827_	3,213_	1,676_	0_	0_
% of Supply from Delta	37%	23%	29%	33%	35%	18%	0%	0%



# Water Supply is reliable over the next 25 years

- Supply can meet demand during a normal water year, single dry year, and during a 5-year drought
- Moving forward, staff will begin to develop means to assess water supply and provide annual updates to Council beginning in FY2022-2023

# Water Supply Availability

- Adjudicated Right (based on OSY) – 4,642 acre feet
- Surface Diversion Right – 1,098 acre feet
- Total Annual Production Right – 5,740 acre feet
- City can lease temporary water rights and purchase replenishment water for an over-production in any single year
  - As new developments come online, customers who occupy new units will pay a premium for additional costs of overproduction

# Requested Action

1. Hold a public hearing on Urban Water Management Plan
2. Adopt Resolution 2021-47 approving the Addendum to the 2015 Urban Water Management Plan
3. Adopt Resolution 2021-48 approving the 2020 Urban Water Management Plan
4. Authorize staff to submit the resolutions to the Department of Water Resources in accordance with the UWMP Act