Public Hearing
for Mesa Water District's
- 2020 Urban Water Management Plan
- 2020 Water Shortage Contingency Plan
- Appendix K Addendum to the 2015 Urban Water Management Plan

June 10, 2021

Public Hearing Items

- **2020 Urban Water Management Plan (UWMP)**
  - Represents Mesa Water’s planning elements to satisfy the UWMP Act

- **2020 Water Shortage Contingency Plan**
  - Provides Mesa Water’s planned actions to respond to water shortage conditions

- **Appendix K Addendum to the 2015 Urban Water Management Plan**
  - Provides Reduced Delta Reliance reporting to satisfy Delta Plan Policy WR P1
2020 Urban Water Management Plan

2020 UWMP Background

Urban Water Management Planning Act of 1983

To demonstrate to the State that there are adequate water supplies for existing and future demands

Every urban water supplier providing >3,000 customers or 3,000 acre-feet of water annually

To be filed to DWR every 5 years

Water Supply

Water Demand

Water Reliability
### New Items in Mesa Water’s 2020 UWMP

<table>
<thead>
<tr>
<th>Item</th>
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<tr>
<td>Long-term 5-consecutive year drought assessment for 2025-2045</td>
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<tr>
<td>Near-term drought risk assessment for 2021-2025</td>
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<td><strong>Water Shortage Contingency Plan</strong></td>
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<td>- Annual Supply and Demand Reporting</td>
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<tr>
<td>- Six Shortage Stages, Shortage Response Actions</td>
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<tr>
<td>- Seismic Risk Assessment and Mitigation Plan</td>
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<td><strong>Energy Intensity reporting</strong></td>
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<td><strong>Reduced Delta Reliance reporting</strong></td>
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### Water Demand Basis

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<th>Option 1</th>
<th>Option 2</th>
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<tr>
<td>Center for Demographic Research</td>
<td>Regional Housing Needs Assessment (RHNA)</td>
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<tr>
<td>Population increase ~0.2%/yr</td>
<td>Released in March 2021</td>
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<td>Housing needs allocation for 2021 – 2029</td>
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<td>Population increase ~2%/yr (2025 to 2035)</td>
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Water Use and Supply Overview

**Water Supply**

- **Groundwater (OC Basin)**
  - In 2020 ~ 94% of supply
  - In 2045 ~ 95% of supply

- **Recycled Water**
  - In 2020 ~6% of supply
  - In 2045 ~5% of supply

- **Supplemental Imported Water**
  - In 2020 = 0% of supply
  - In 2045 = 0% of supply

**Water Use & Projections**

- Decreased since 2013/14 to below 10-yr avg.
- Projecting to increase in 25 yrs
  - ~2% increase now to 2025
  - ~21% increase between 2025 – 2045
- Back to 2013/14 level of total use in 2035

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Water Use and Supply Overview

![Graph showing water demand and supply trends from 2015 to 2050](image-url)
Key Findings of 2020 UWMP

Mesa Water has **long-term** (25 yrs) water service reliability under average year, single dry year, five consecutive drought years

Mesa Water has **near-term** (5 yrs) supply capabilities sufficient for a drought period lasting five consecutive years

Mesa Water has plans for supply implementation investments to meet its projected water demands
WSCP Overview

New requirement of 2018 Water Conservation Legislation
- Included in 2020 UWMP but also a standalone document

Key Elements of WSCP:
- Annual Water Supply and Demand Assessment
- Six Standard Water Shortage Levels
- Shortage Response Actions
- Communication Protocols

Appendix K
Addendum to 2015 UWMP
Reduced Delta Reliance Reporting
DWR Issued Guidance on Delta Plan Policy

District’s reporting is consistent with approach detailed in UWMP Guidebook and MET’s and MWDOC’s 2020 UWMP

- Set a **water use baseline** (2010)
- Calculate **water use efficiency** since baseline (out to 2045)
- Calculate **change in per capita** use since baseline (GPCD)
- Calculate supplies contributing to **regional self-reliance** (i.e. water use efficiency programs, water recycling, groundwater replenishment) (out to 2045)

Presentation Summary

- Draft 2020 UWMP and draft WSCP satisfy all UWMP Act requirements
- Draft Appendix K Reduced Delta Reliance report consistent with guidance
- Draft plans prepared in coordination with appropriate agencies
- Draft plans posted for public review
- Submission on track to meet July 1 deadline
Recommendation

a. Conduct a Public Hearing;
b. Review and discuss Resolution Nos. 1541, 1542, and 1543;
c. Adopt Resolution No. 1541 Approving the Adoption of the 2020 Urban Water Management Plan;
d. Adopt Resolution No. 1542 Approving the Adoption of the 2020 Water Shortage Contingency Plan; and
e. Adopt Resolution No. 1543 Approving an Amendment to the 2015 Urban Water Management Plan.