

COUNCIL MEETING

06/07/21

Received Before Meeting

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CITY OF

PALO ALTO

A photograph of a long wooden boardwalk extending from the foreground into the distance, leading towards a body of water under a sunset sky. The boardwalk has a wooden railing on both sides. The right side of the image is partially covered by a semi-transparent green overlay.

2020 Urban Water Management Plan and Water Shortage Contingency Plan

City Council

June 7, 2021

www.cityofpaloalto.org

PURPOSE

- Every urban water agency in California is required to submit an Urban Water Management Plan (UWMP), which includes a Water Shortage Contingency Plan (WSCP) every five years.
- Tonight's Council discussion is to review staff and Utilities Advisory Commission recommendations to adopt two resolutions: One for the 2020 Urban Water Management Plan and a second for the Water Shortage Contingency Plan.

WHAT IS AN UWMP?

- Supports long-term resource planning to ensure adequate water supplies are available to meet existing and future water needs
- Required by the ***Urban Water Management Planning Act***
- Prepared every five years by urban water suppliers to ensure adequate supplies meet existing and future water demands
- Required if supplier provides more than 3,000 acre-feet per year (AFY) or serves more than 3,000 connections

PALO ALTO UPDATES SINCE 2015



- New Palo Alto Water Demand Projection:
 - Updated Population and Employment projections
 - Impacts of 2015 drought and resulting conservation
- Completed Northwest County Recycled Water Strategic Plan
 - Groundwater study
 - Potable and non-potable alternatives for Regional Water Quality Control Plant effluent
- Executed Historic Agreement with Valley Water and Mountain View
 - Funding for salt-removal facility at Regional Water Quality Control Plant
 - Regional partnership for purified water project
 - Secured ability to purchase water from Valley Water in the future

WATER DEMAND MANAGEMENT



- Water Waste Prevention Ordinance
- Green Building Ordinance and Model Efficient Landscape Ordinance
- Advanced Metering
- Conservation Pricing (within bounds of cost of service)
- Education and Outreach
- Water Meter and Main Replacement
- Rebate Programs (administered by Valley Water)

WATER SUPPLY RELIABILITY

- 100% Potable Supplies from SFPUC
 - 85% Tuolumne River
 - 15% Local Surface Water
- Bay Delta Plan adopted by State Water Resources Control Board and supported by Palo Alto City Council requires 30%-50% unimpaired flow on the Tuolumne River
- UWMP Analysis Assumes Bay Delta Plan comes into effect in 2023

5-YEAR DROUGHT RISK ASSESSMENT



Year	2021	2022	2023	2024	2025
Palo Alto Demand for SFPUC Water (Acre-Feet)	10,565	10,776	10,982	11,182	11,287
Cutback	0.0%	0.0%	43.6%	43.6%	49.0%
Available Supply (Acre Feet)	10,565	10,776	6,194	6,306	5,759

- Assumes Bay Delta Plan comes into effect in 2023

WATER SHORTAGE CONTINGENCY PLAN



Plan Stage	Target Water Savings
I	Up to 10%
II	10%-20%
III	20%-30%
IV	30%-40%
V	40%-50%
VI	>50%

Actions tailored to each stage including:

- Information Outreach and Audit Program
- Demand Side Management Programs
- Rate Structures
- Water Use Restrictions
- Recycled Water Use

WATER SUPPLY ALTERNATIVES AND PLANS



- Groundwater, deep and shallow (managed by Valley Water)
 - Need investments to use during water shortages
- Water Reuse
- Stormwater
- Greywater/Blackwater
- Conservation
- Palo Alto Planning for the Future in Upcoming One Water Plan
- Bay Area Water Supply and Conservation Agency
 - Regional coordination to identify dry-year water supply projects including storage, conveyance and water reuse

RECOMMENDED MOTION



Staff and the Utilities Advisory Commission (UAC) recommend the City Council adopt:

- A) Resolution approving the 2020 Urban Water Management Plan and
- B) Resolution adopting the Water Shortage Contingency Plan



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ALTO**

Questions
