2015 Urban Water Management Plan Public Hearing

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Purpose for the Public Hearing

- Review the method for determining an urban water use target
  - Baseline values
  - Water use targets
- Allow community input regarding the target implementation plan
Group Effort

- Finance Department
- Meter Department
- Operations Department
- Conservation Department
- Engineering Department
Purpose of the UWMP

• Compliance with the California Urban Water Management Planning Act
  – CWC Sections 10610 through 10656
  – All urban water suppliers are required to update their urban water management plans (UWMPs) every 5 years

• Compliance with Senate Bill X7-7
  – Signed into law on November 9, 2009
  – Mandates conservation targets of 10% by 2015 and 20% by 2020

• Compliance with Senate Bill 1420
  – Water loss auditing and future water savings
Contents of the UWMP

- Section 1 – Introduction and Overview
- Section 2 – Plan Preparation
- Section 3 – System Description
- Section 4 – System Water Use
- Section 5 – Baseline and Targets
- Section 6 – System Supplies
- Section 7 – Water Supply Reliability
- Section 8 – Water Shortage Contingency Planning
- Section 9 – Demand Management Measures
- Section 10 – Plan Adoption, Submittal, and Implementation
Section 1 – Introduction and Overview

• Regulatory overview, including additional requirements since 2010 UWMP
  – Demand Management Measures
  – Water loss auditing
  – Future water use projections

• VWD service area background

• Master Plan and Water Capital Improvement Program
Section 2 – Plan Preparation

- Identification as an Urban Water Supplier
- Identification of the District’s wholesaler
- Coordination and outreach
  - Involving land use agencies
  - Advertising public hearing to the public
Section 3 – System Description

- Population forecast and demographics
- Water service area description
- Wastewater service area description
- Recycled water production and demands
Section 4 – System Water Use

- Quantifying current and projected water uses
  - 4,349 million gallons delivered to VWD in 2015
  - 12,705 million gallon demand projected in 2035

- Water loss audit
  - 125 million gallons of water loss in 2015

- Lower income residential demands
  - 199 million gallons demand in 2015
  - 545 million gallons demand projected in 2035
Section 5 – Baselines and Targets

• Addresses Senate Bill X\(_{7-7}\) Compliance
• Conservation targets of 10% by 2015 and 20% by 2020 on a gallons-per-capita-per-day (gpcd) basis
  – 80% of baseline per capita water use by 2020
  – Baseline calculated as the average per capita water use over a continuous 10-year period ending no sooner than December 31, 2004 & no later than December 31, 2010
  – VWD’s baseline water use comes to 199.2 gpcd
  – 2015 target water use becomes 179.3 gpcd
  – 2020 target water use becomes 159.4 gpcd
  – Actual 2015 water use was 117 gpcd
Section 5 – Baselines and Targets

- Regional Alliance conservation targets
  - VWD formed a Regional Alliance with Rincon MWD, Olivenhain MWD, and San Dieguito WD
  - Regional alliance water use targets are based on the weighted average, by population, of the agencies’ individual targets
  - 2015 target water use becomes 229 gpcd
  - 2020 target water use becomes 204 gpcd
  - Actual 2015 water use was **170 gpcd**
  - NOTE: Even if the regional targets are not met, each agency is still considered compliant if it meets its individual conservation targets
Section 6 – System Supplies

• Overview of water supplies
  – San Diego County Water Authority
  – Desalinated seawater and Olivenhain treated water purchases

• Wastewater collection in 2015

• Discussion of water supply alternatives
  – Recycled water
  – Groundwater feasibility
  – Expanded capacity from CWA 1\textsuperscript{st} Aqueduct
  – Direct purchases from existing treatment plants
Section 7 – Water Supply Reliability Assessment

- All UWMPs must include a water supply and demand assessment that compares the total projected water use with the projected water supply through the next 20 years
  - VWD demand projections from Draft 2014 Master Plan
    - 12,705 million gallon demand projected in 2035
  - Supply figures from San Diego County Water Authority
    - 9,198 million gallon supply projected in 2035
  - The difference between demand and supply must be made-up through water shortage contingency planning and conservation (Sections 8 and 9)
### Section 8 – Water Shortage Contingency Planning

#### LEVEL 1 - DROUGHT WATCH
**Conservation Practices**

- All customers shall comply with the following drought measures:
  - Stop washing down paved surfaces (except to alleviate sanitary hazards). Includes sidewalks, driveways, parking lots, tennis courts, or patios.
  - Stop water waste from inefficient landscape irrigation.
  - Irrigate landscapes before 10 a.m. and after 6 p.m.
  - Use a hand-held hose with a shut-off nozzle or bucket to irrigate landscaped areas that are not watered by an automatic system.
  - Use re-circulated water to operate ornamental fountains.
  - Wash vehicles using a bucket and hand-held hose with shut-off nozzle, high pressure / low volume wash system, or at a commercial site that re-circulated water on-site.
  - Serve and refill water in restaurants only upon request. Offer hotel guests the option of not laundering towels and linens daily.
  - Repair all water leaks within five days of notification by VWD.
  - Use recycled or non-potable water for construction purposes.

#### LEVEL 2 – DROUGHT ALERT
**Conservation Practices**

- All customers shall comply with Level 1 drought measures, as well as the following:
  - Residential and commercial landscape irrigation will be limited to no more than three unassigned days.
  - Irrigation using sprinklers will be limited to no more than 10 minutes per watering station per day (systems using water-efficient devices are excluded).
  - All leaks must be repaired within 72 hours of notification by VWD.
  - Stop operation of ornamental fountains unless re-circulated water is used.

#### LEVEL 3 – DROUGHT CRITICAL
**Conservation Practices**

- All customers shall comply with Levels 1 and 2 drought measures, as well as the following:
  - Residential and commercial landscape irrigation will be limited to two assigned days per week and no more than once a week from November through May (excludes commercial growers and nurseries).
  - Stop refilling ornamental lakes or ponds, except to sustain aquatic life.
  - Stop refilling pools or spas.
  - Stop washing vehicles except at commercial car washes that recirculate water.
  - Repair all leaks within 48 hours of notification by VWD.
  - With minor exceptions, no new potable water service shall be provided.

#### LEVEL 4 – DROUGHT EMERGENCY
**Conservation Practices**

- All customers shall comply with Levels 1, 2 and 3 drought measures, as well as the following:
  - Stop all landscape irrigation, and other outdoor watering for residential and commercial customers (excludes commercial growers and nurseries).
  - Repair all leaks within 24 hours of notification by VWD.

- **Staged plan for dealing with water shortages**
- **Discusses prohibitions on end users**
  - Landscape irrigation
  - Commercial & industrial
  - Water Features & Pools
- **Revenue & expenditure impacts**
  - Water conservation rate structures
  - Use of financial reserves
Section 9 – Demand Management Measures

- **History of VWD’s water conservation program**
  - Commenced in 1975 and expanded during the drought of 1976-77
  - One of the original signatories of the MOU Regarding Urban Water Conservation on September 16, 1991
  - Adoption of conservation Ordinances 162 and 195

- **Best Management Practices**
  - Metering
  - Conservation pricing
  - Public education and outreach
  - Assess and manage distribution system real loss
  - Water conservation program coordination and staffing
Section 10 – Plan Adoption, Submittal and Implementation

- March 24, 2016 – 60-day notices submitted to land use agencies
- May 8, 2016 – 1st announcement of public hearing and intent to adopt the 2015 UWMP made in the San Diego Union Tribune
- May 15, 2016 – 2nd announcement of public hearing and intent to adopt the 2015 UWMP to be made in the San Diego Union Tribune
- June 1, 2016 – Hold public hearing to review the method for determining an urban water use target, and allow community input regarding the target implementation plan
- June 15, 2016 – Adopt the 2015 Urban Water Management Plan
- By July 1, 2016 – Submit copies of the UWMP to DWR, State Library, and to land use agencies in VWD’s jurisdiction
- Within 30 days of submittal to DWR – Make adopted UWMP available for public review
Questions?

- Open the hearing to public comments