Countywide Water Reuse Master Plan

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Recycled and Purified Water Unit
District Mission

- CLEAN, RELIABLE WATER
- FLOOD PROTECTION
- HEALTHY CREEKS & ECOSYSTEMS
A Comprehensive, Flexible Water System

10 reservoirs
3 pump stations
142 miles of pipelines
4 water treatment plants
393 acres of recharge ponds
275 miles of jurisdictional streams
Santa Clara County Groundwater
Sources of Our Water

Local Water
- Natural groundwater
- Reservoirs

Imported Water
- Delta conveyed
- Hetch Hetchy

Recycled Water
- Wastewater Treatment
- Advanced Purification
Ends Policy E-2 states that there is a reliable, clean water supply for current and future generations. Accordingly, the following goals and objectives are adopted:

**OBJECTIVES**
2.1.4. Protect, maintain and develop recycled water.

**OUTCOME MEASURES**
2.1.4.a. At least 10% of annual recycled water production as a percentage of total County water demands by 2025

**WATER SUPPLY MASTER PLAN**
24,000 AFY Potable Reuse Capacity by 2025
Existing Systems in Santa Clara County

- PA/MV NPR
- Sunnyvale NPR
- SBWR NPR
- Rinconada WTP
- Los Gatos Recharge Ponds
- Penitencia WTP
- Gilroy NPR
- South Bay Aqueduct
- Central Pipeline
- SFPUC/BAWSCA
- Effluent Discharge
- San Francisco Bay
- Purified Water
- RO Concentrate
Online in March 2014, provides up to 8MG of purified water from secondary effluent.

Purpose:
- To reduce salinity (TDS) of South Bay Water Recycling System.
- Platform to conduct potable reuse studies and pilot projects.
- To engage the public.
## Countywide Master Plan Framework

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Master Plan Objectives

- Identify sources and amounts of water available for reuse
- Determine NPR & PR split
- Evaluate governance roles & responsibilities and provide recommendations
- Evaluate potential regional integration
- Conduct stakeholder engagement

NPR = Non-Potable Reuse
PR = Potable Reuse
Countywide Master Plan

- Stakeholder Workshops
  - Producers, retailers, regulators, businesses, environmental organizations, and community groups
Stakeholder Engagement & Collaboration

- **One-on-One Meetings**
  - Build trust and buy-in

- **Project Partner Group**
  - SJ / SBWR
  - PA / MV
  - Sunnyvale
  - SCRWA

- **Executive Leadership Group**
  - Provide strategic input

- **Stakeholder Task Force**
  - Engage outside groups & solicit feedback
Countywide Master Plan Schedule

Key Milestones and Decisions
- 1/28/19 NTP
- Confirm Priorities
- Select Concept. Alts.
- 12/11/19 Update Board: Status & Concept. Alts
- Confirm Priorities
- Confirm Prelim. Rankings
- 7/31/19 Deliver Final Master Plan

Deliverables
- D1: Project Definition
- D2: Reg. Framework
- D3.1: Baseline Analysis
- D3.2: Geotech. Study
- D3.3: Hydr. Mod. Plan
- SBWR Model
- D4: Conceptual Alts: Residuals Mgmt. Non-RO Trmt. Study Governance options
- D5: Board Update: Partnership Strategy and Prelim. Draft MP
- D6: Hydraulic Models and Results Summary
- D8: SBWR Master Plan Updates
- D9: Draft Master Plan
- D10: Final MP

Legend
- Red = District Board
- RWC = Recycled Water Committee
- PPG = Project Partners Group
- SB = SBWR retailers
- D1 = one-on-one executives
- EG = Executive Leadership Group
- DSC = District Staff Coordination (incl. Executives)
- Reg = regulators
- Green = Key milestones
- TF = Stakeholder Task Force
- IAP = Independent Advisory Panel

Engagement
- Board RW Committees
- Partner Agencies’ Executives
- Partner Agencies’ Staff Reps
- District Staff Coordination
- Core Team
- Stakeholder Task Force (TF)
- Regulators (DDW and RWQCB)
- Independent Advisory Panel
ROC Management Plans (ROCMP)

- ROCMP Components:
  - Review of potential treatment options
  - Site specific evaluations of ROC water quality
  - Stakeholder workshops
  - Engineered treatment cell pilot testing
  - Develop and recommend ROC management plans for each site