SUPPLEMENTAL BOARD AGENDA MEMORANDUM

SUBJECT: Update on Strategies for Development of Recycled and Purified Water in Santa Clara County

REASON FOR SUPPLEMENTAL MEMORANDUM:

This supplemental agenda memo is to provide the Board with the attached PowerPoint presentation that was not available at the time of posting the regular agenda memo.

RECOMMENDATION:

Receive, review, and discuss updated information on strategies for development of recycled and purified water in Santa Clara County, and provide direction to staff as necessary.

SUMMARY:

Staff will present current information on the 12 District strategies for recycled water, activities by District and agencies within the County, and status of efforts advancing recycled and purified water projects to sustain at least 22,000 acre-feet of recycled water and meet up to 45,000 acre-feet of potable reuse annually by 2025.

FINANCIAL IMPACT CHANGE:

No changes to the financial section from the original agenda memo.

CEQA:

No changes to the CEQA section from the original agenda memo.

ATTACHMENTS:

Attachment 1: PowerPoint Presentation “Update on Strategies to Develop Recycled and Purified Water in Santa Clara County.”
Update on Strategies to Develop Recycled and Purified Water In Santa Clara County

September 22, 2015

Attachment 1: PowerPoint Presentation
Presentation Outline

- Policies
- Strategies
- Next Steps
Board Ends Policy:

- E-2.1 (Goal): Reliable Water Supply
  - E-2.1.4 (Objective): Protect, maintain, and develop recycled water.
  - E-2.1.1 (Objective): Aggressively protect groundwater from the threat of contamination and maintain and develop groundwater to optimize reliability and to minimize land subsidence and salt water intrusion.
**Outcome Measures:** *(Under Board Review)*

- **OM 2.1.4.a:** At least 22,000 acre-feet per year of non-potable recycled water use is sustained.

- **OM 2.1.4.b:** At least 20,000 acre-feet per year of potable reuse by 2020.

- **OM 2.1.4.c:** At least 45,000 acre-feet per year of potable reuse by 2025.
# Strategies

## Table 1: Expedited Recycled and Purified Water Program Strategies

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<td>6. Expedite purified water expansion program (Public Track)</td>
<td>9. Build community and stakeholder support for potable reuse</td>
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<td>3. Integrate with groundwater management</td>
<td>7. Develop public-private-partnership for the Program (P3 Track)</td>
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<td>4. Develop partnership strategy for countywide system</td>
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Supplemental Attachment #1  
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Strategy #1

**Strategic Planning**

**Complete and Implement Master Plans**

- South Bay Water Recycling Strategic and Master Planning Report *(2014)*
  - District/City of San Jose/City of Santa Clara collaboration.

- South County Recycled Water Master Plan **Update (under development)**
  - Implementation of 2004 Master Plan ongoing.
  - Board to receive update in November 2015

- Sunnyvale Master Plans
  - City of Sunnyvale Feasibility Study for Recycled Water Expansion *(2013)*
  - Water Pollution Control Plant Upgrade Plan *(under development)*

- Palo Alto Master Plans
  - City of Palo Alto Recycled Water Facility Plan *(2008)*
  - Draft EIR ready for City Council adoption September/October 2015

- District County-wide Recycled Water Master Plan *(planned for 2016)*
Strategy #2

Strategic Planning

Promote and conduct research to support potable reuse

- Implemented potable reuse demonstration test plan (Sept. 2014)
- Collaborating with a local university and retailer to support research on a mobile scalping plant.
- Initiated a Membrane Bioreactor (MBR) demonstration study.
- Participated in research projects funded by:

  - Federal
  - State
  - Universities
  - Others
Strategy #3

**Strategic Planning**

Integrate with groundwater management

- Updating models to improve simulation of purified water movement underground.

- Constructing new groundwater monitoring wells & analyzing soils:
  - **City of Gilroy**: 9 groundwater quality monitoring wells for CEQA compliance related to South County Recycled Water Pipeline Phase 2.
  - **City of Campbell**: Nested monitoring wells to support future IPR permitting and soil analysis.
Strategy #4: Develop partnership strategy for countywide system

- Collaborating with City of San Jose on future infrastructure expansion to support potable reuse projects.
- With Board approval, negotiate and execute a long-term integration agreement with Sunnyvale by June 2016.
- Cont. discussions with SCRWA, Cities of Gilroy and Morgan Hill for system expansion and reliability.
- Work with Palo Alto on recycled water quantity & quality.
Strategy #5

Operations and Capital Program

Deliver recycled water projects in CIP

- Wolfe Road Recycled Water Facilities
  - Advertise for construction bids (November 2015)
  - Complete construction (Fall 2016)

- South County Recycled Water Pipeline – Phase 1B
  - Initiate construction (FY 2017)

- South County Recycled Water Pipeline – Phase 2
  - Meritage Homes & Glen Loma Ranch: 13,000 linear feet (Under Construction)
  - Meritage Homes & Glen Loma Ranch: 12,000 linear feet (Future 2-3 years)
Strategy #6

Operations and Capital Program

Expedite purified water expansion program (Public Track)

- Updates on this strategy are provided under a separate Agenda Item.
  - Agenda Item Subject: “Expedited Purified Water Program.”
Strategy #7

Operations and Capital Program  
Develop public-private-partnership for the Program (P3 Track)

- Updates on this strategy are provided under a separate Agenda Item.
  - Agenda Item Subject: “Expedited Purified Water Program.”
Board Support and Outreach: Support Board engagement in policy and governance

- Supporting the following policy and governance committees:
  - Joint Recycled Water Policy Advisory Committee (RWPAC) City of San Jose/SCVWD/City of Santa Clara TPAC
  - SCRWA Board and Technical Advisory Committee
  - Joint Recycled Water Advisory Committee (City of Sunnyvale/SCVWD)
  - NEW Joint Recycled Water Advisory Committee (City of Palo Alto/Mountain View/SCVWD)
**Board Support and Outreach**

**Build community and stakeholder support for potable reuse**

- **Expand Community Outreach**
  - Expand tour program: **Community Open House: Saturday, October 24.**
  - Explore opportunities for **“Taste Test”** at community events or festivals, including multi-cultural events.

- **Expand stakeholder outreach program**
  - Expand Speaker’s Bureau opportunities on potable reuse.
  - Host a spring **“water/health symposium”** aimed at public health leaders and medical community.

- **Develop new potable reuse materials**
  - Update or develop program & neighborhood work notices.
  - Develop new **“infographics”** for social media & presentations.
Promote legislation and regulations to advance potable reuse

- State Water Resources Control Board
  - **Surface Storage Augmentation**: Regulations due **December 2016**
  - **Direct Potable Reuse**: Feasibility for legislation due **December 2016**

- **SB 88**: CEQA exception available for certain recycled water elements

**RECENTLY INTRODUCED**

- **HR 3045** — Title XVI
  - Congressman McNerney

- **HR 2993** — Title XVI
  - Congresswoman Matsui

- **S 1894** — RW & PW Funding
  - Senator Feinstein

- **S 1837** — RW & PW Funding
  - Senator Boxer
Strategy #11

Administrative and Financial Management

Develop and implement financial plan

- Zone W2, North County, M&I Groundwater (FY17 – FY21)
  - Production charge projection: Reported on June 22, 2015
    - Without Expedited Program: Average increase 9.5% per year
    - With Expedited Program: Average increase 14.6% per year

- Funding Strategy:
  - Low interest state loans (State Revolving Fund)
  - State grants (i.e. Proposition 1)
  - Federal grants (i.e. Title XVI)
Strategy #12

Administrative and Financial Management

Develop District Workforce to support expanded program

- Develop short-term and a five-year workforce plan for Program.
- Program Management consultant will support workforce development.
Expedited Implementation

- Continue implementation of dual-track (P3 and Design/Build) approach.
- Continue collaboration/partnerships with existing purveyors of recycled water in the County.
- Provide frequent updates to the Board.
Questions