



**Dublin San Ramon
Services District**

Water, wastewater, recycled water

DSRSD's Residential Recycled Water Distribution Program

Levi Fuller

*Wastewater Treatment Plant
Operations Supervisor*

August 22, 2014

ABOUT DSRSD

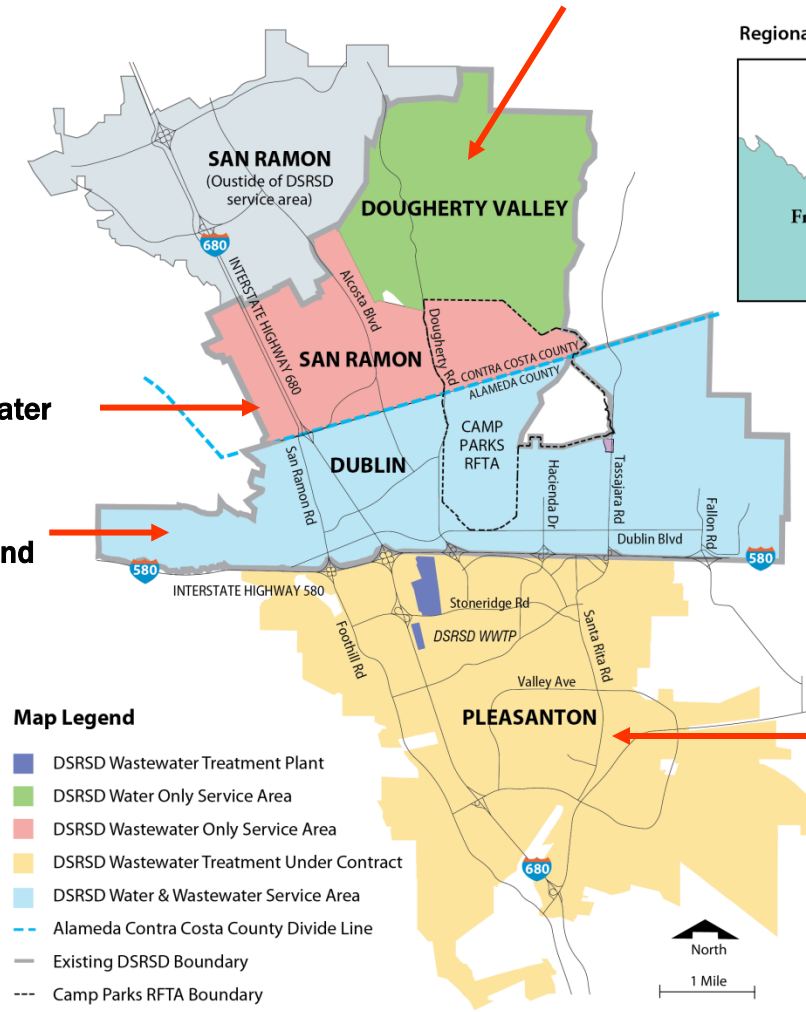
Distribute potable and recycled water

Regional View/Service Area Map



Collect & treat wastewater

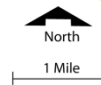
Distribute potable and recycled water; collect and treat wastewater



Map Legend

- DSRSD Wastewater Treatment Plant
- DSRSD Water Only Service Area
- DSRSD Wastewater Only Service Area
- DSRSD Wastewater Treatment Under Contract
- DSRSD Water & Wastewater Service Area
- Alameda Contra Costa County Divide Line
- Existing DSRSD Boundary
- Camp Parks RFTA Boundary

Treat wastewater by contract



OUR DWINDLING WATER SUPPLY



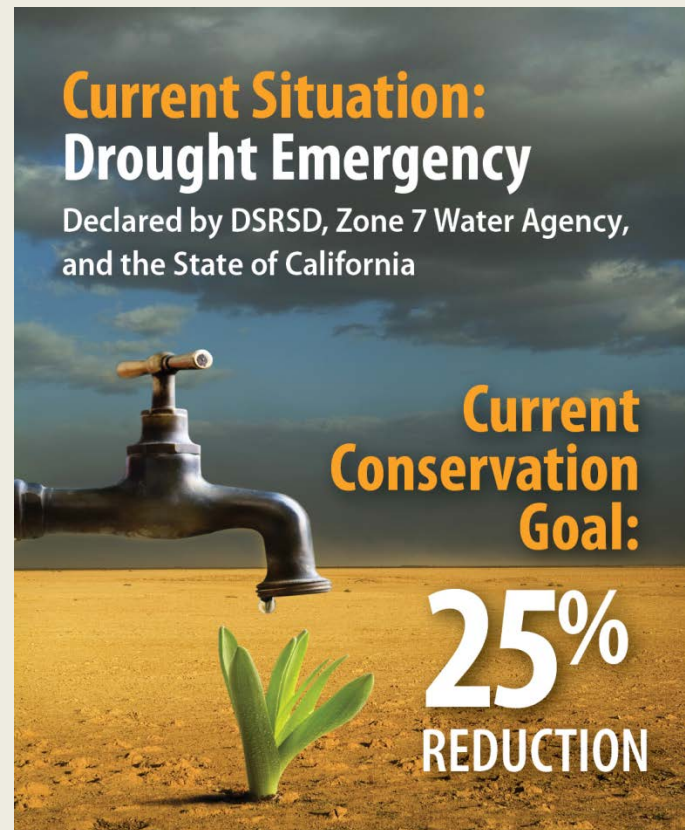
Lake Oroville July 2011



Lake Oroville January 2014

POTABLE WATER RESTRICTIONS

- **Passed Mandatory Water Restrictions Ordinance May 5, 2014**
- **Overall conservation goal of 25%**
 - 5% inside
 - 50-60% outside
- **Irrigation June – Sept.**
 - Two days per week
 - Apply only ½ inch per week



RESIDENTIAL USE OF RECYCLED WATER

- It's the right water for the right use (irrigation)
- Enables home owners to save valuable trees and landscaping during the drought
- Relays the message using potable water for non-potable uses is a waste of a valuable resource that is in short supply
- Helps improve public perception and reassurance that recycled water can be used safely
- Paves the way for public acceptance of future recycled water projects

CDPH PROGRAM APPROVAL

■ District's Operations Manager met with CDPH staff February 19, 2014

- Robert Brownwood, District Engineer & Vladimir Rakhamimov, Associate Sanitary Engineer
- Concerns noted during meeting:
 - Signage for containers
 - Cross-connections with domestic plumbing
- Obtained verbal approval to develop a public distribution program:
 - Submitted a procedures document and customer use agreement (license) form for review
 - CDPH had two minor corrections on the use agreement form
- May 2, 2014, received confirmation email from CDPH stating:
 - “The proposed program is acceptable to the Department.”

RWQCB PROGRAM APPROVAL

■ RWQCB was contacted May 21, 2014

- Contact: Blair Allen, Water Resources Control Engineer
- An email was sent requesting program acceptance
- Email included program description and CDPH's approval of program

■ RWQCB requesting the following items:

- Report describing the program
- Copies of CDPH communications
- Use Agreement Form

■ June 3, 2014, received RWQCB's approval

- Obtained approval for the Residential Use of Recycled Water Program under DSRSD's Order No. 96-011
- Requested an update status report within 30 days

RESIDENTIAL RECYCLED WATER USE PROGRAM DETAILS

- Customer must complete & submit Use Agreement Form
- Obtains training from District staff
- After training customer receives:
 - A wallet card
 - Recycled water stickers to be placed on transport and storage containers
- Returning customers are to show wallet card for proof of use agreement form submittal and have received training



Small container stickers 3.5" X 5"



Large container stickers 4" X 8"

CONTAINER REQUIREMENTS

- Minimum 1 gallon
Why? – see photo on right
- Maximum 300 gallons – customers with larger containers are directed to commercial fill-station program
- Container must be water tight and secured for safe transport
- Customers are informed to consider carrying capacity of vehicles since water weighs 8.345 lbs/gallon



RESIDENTIAL RECYCLED WATER FILL-STATION



RESIDENTIAL FILL-STATION STAFFING

- **Hired four attendants:**

- Staff the residential fill-station
- Hours expanding with customer demand
 - Monday-Friday 2-7pm
 - Thursday, Saturday, Sunday 8am to noon
- Attendants duties:
 - Setup & breakdown signs before and after opening & closing
 - Ensure use agreement forms are signed
 - Train new users
 - Issue wallet cards
 - Distribute and ensure containers have stickers
 - Control traffic
 - Ensure safety of the customers while at the fill station



PROGRAM RESULTS

- **1.3 AF (0.434 MG) of recycled water has been distributed through this program**
- **274 customers have submitted use agreement forms**
- **70 to 100 customer trips each day**
- **Open Bay Area wide**
 - Customers are coming from as far away as Fremont and El Sobrante

PROMOTING THE USE OF RECYCLED WATER



CUSTOMER COMMENTS

“We haven’t been watering our lawn, and it would be nice to have it a little green.”

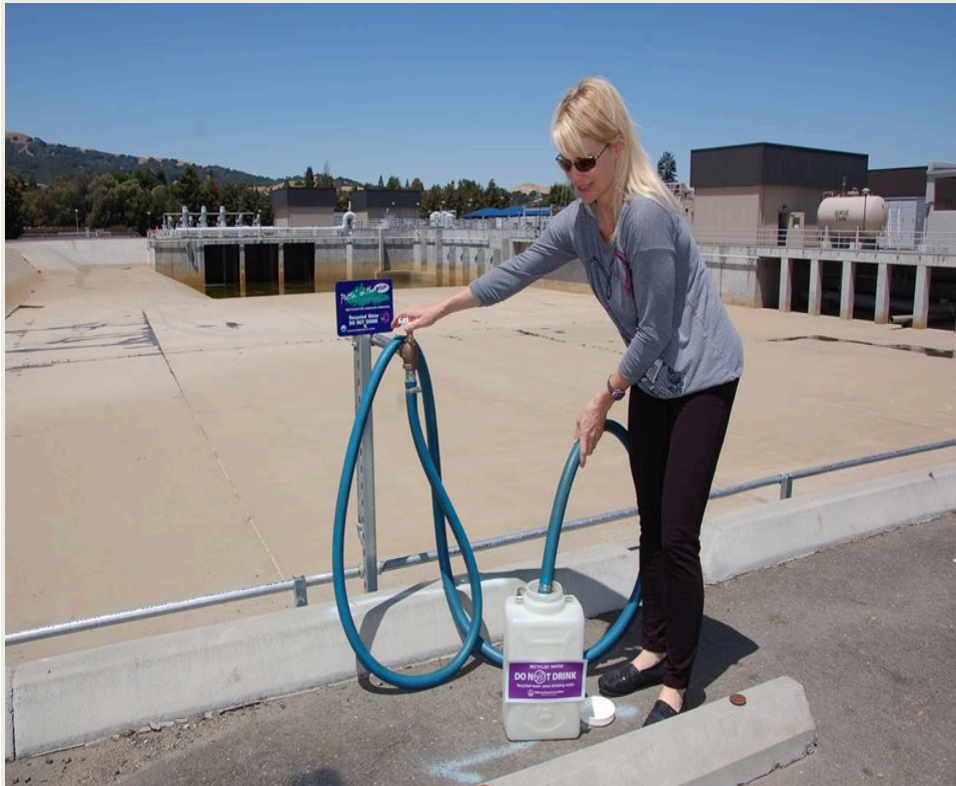
“It’s not just about avoiding the city’s penalties, I want to conserve water in a drought...besides, the price is right: it’s free.”

“...I’m not squeamish about irrigating my plants with the recycled water. When I walk my dog by the creek, I’m going to find a lot more bacteria in the creek than in this recycled water.”

“LIKE” OUR RECYCLED WATER FILL STATION



PROGRAM INFORMATION



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Questions?



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