

# Drinking Water Regulatory Update

Dan Gill, Operations Director  
November 19, 2024

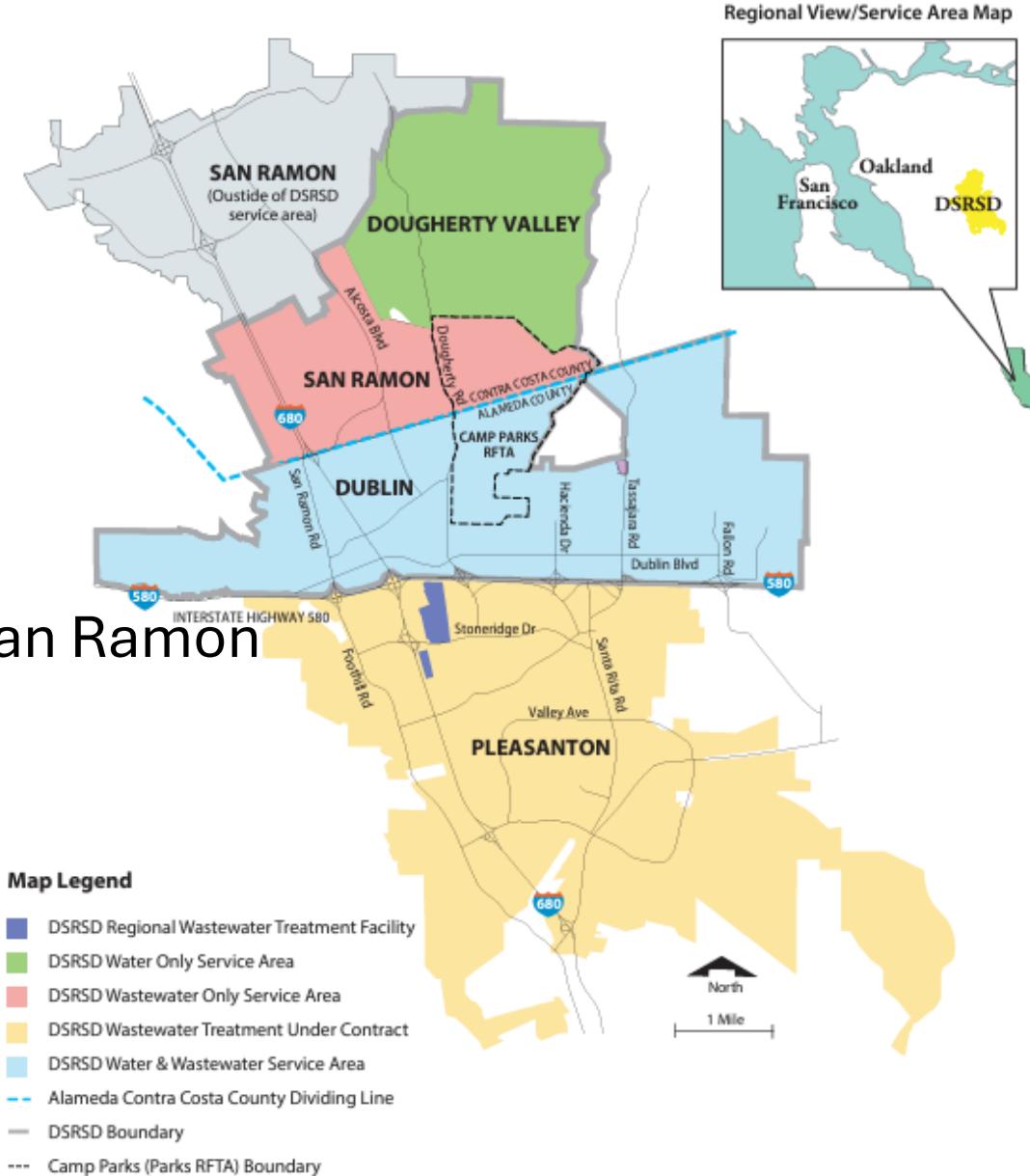


# Discussion Topics

- Cross Connection and Backflow Prevention
- Lead and Copper Rule Improvements
- Lead and Schools Testing
- Water Conservation

# Drinking Water System Background

- Purchased from Zone 7 Water Agency
- City of Dublin and the Dougherty Valley area of San Ramon
- 8 million gallons per day (MGD)
- 27,000 connections approx. 100,000 customers
- 17 pumping plants, 14 reservoirs
- 9 pressure zones and 343 miles of pipe



# DSRSD's Backflow Prevention Program



## Back Siphonage

Reverse flow caused by a loss of supply pressure

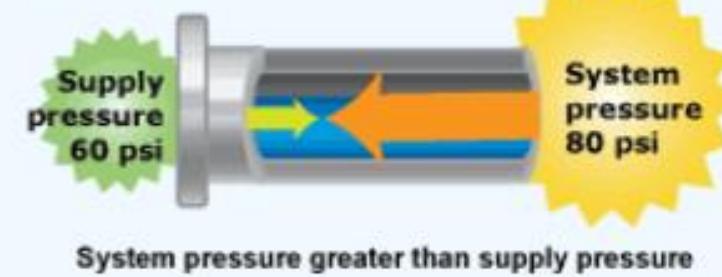
WATER SUPPLY



## Back Pressure

An increase in water pressure caused by elevation or mechanical pumping that raises the system pressure above the supply pressure

WATER SUPPLY



- The District currently manages a backflow prevention program consisting of 3,842 backflow preventers which are located at businesses and industries throughout the drinking water service area
- Each backflow device must be annually tested

# Cross- Connection Control Plan



Mandatory Cross-Connection Control  
Plan by July 1, 2025



Initial and Follow-Up Hazard  
Assessments



Backflow Prevention Requirements  
include residential properties with fire  
sprinkler systems



Increased Public Outreach and  
Coordination



# New Requirement: Residential Focus

- Hazard assessments and customer education
- All residential fire sprinkler systems may require backflow devices within 10 years.
- DSRSD has more than 6,500 of these residential systems.
- A Technical Work Group was formed consisting of local water agencies



# Cross Connection Control Plan Compliance Schedule

- A Request For Proposal (RFP) was issued in early October
- We are reviewing 3 consultant proposals
- Department of Drinking Water (DDW) requires the plan be submitted by July 1, 2025
- We will have 10 years to complete the improvements

# Lead and Copper Rule

## Corrosion Control

- Zone 7 manages the pH level of the drinking water in their water treatment process making it less corrosive.
- On a tri-annual basis DSRSD provides sampling kits and instructions to homeowners for collection.
- Results are provided to the homeowner and posted in our Annual Consumer Confidence Report



# Lead and Copper Rule Improvements (LCRI)



LEAD ACTION LEVEL  
REDUCTION



SERVICE LINE  
REPLACEMENT



TRANSPARENCY AND  
PUBLIC NOTIFICATION

# Lead and Copper Action Level

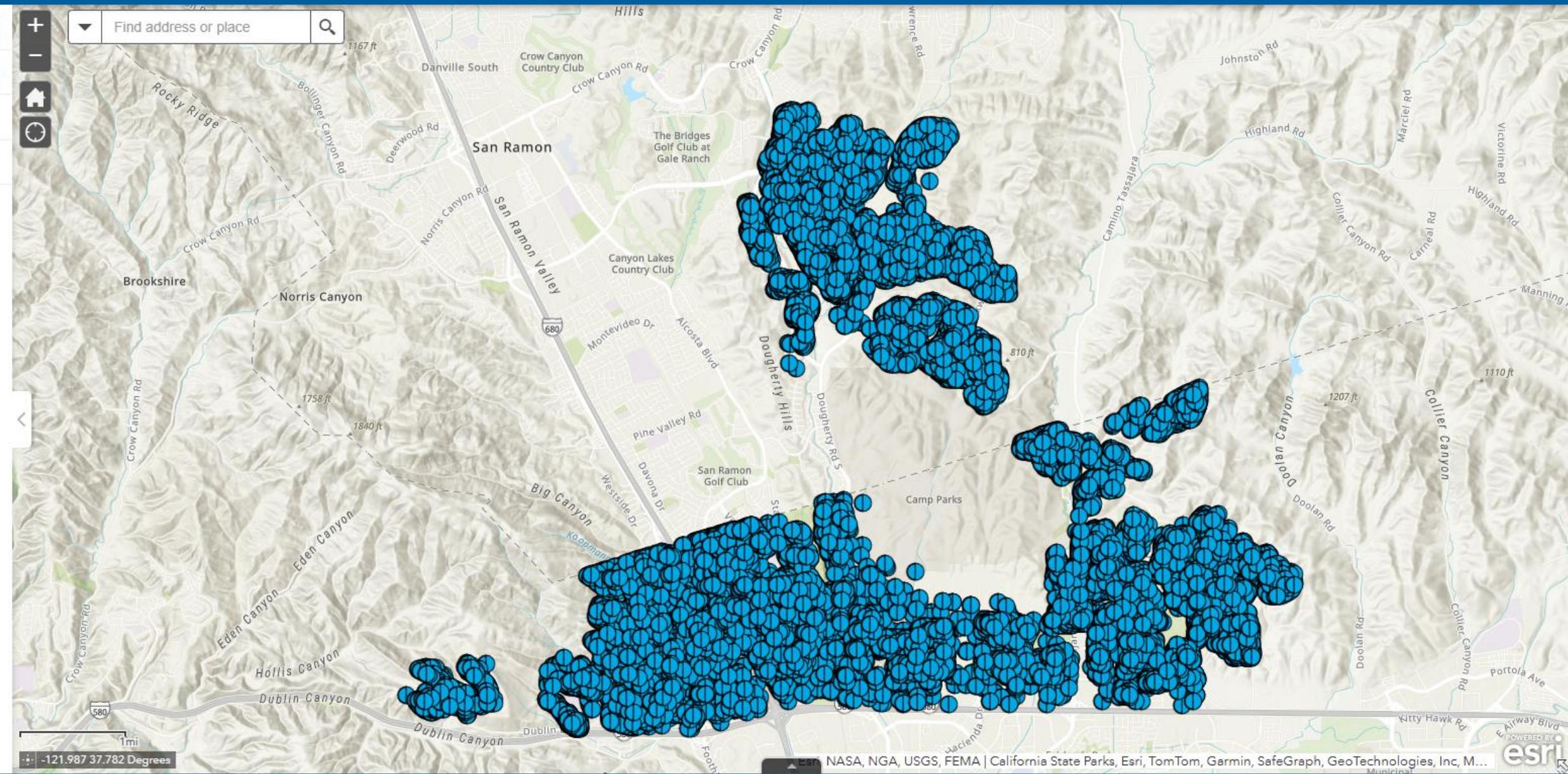
- The action level for lead is being lowered from 15 parts per billion (ppb) to 10 parts per billion (ppb)
- If 10% of homes exceed the action level, the water system must take action



# Lead Service Line Inventory

- DSRSD will maintain a comprehensive database of pipeline materials
- 384 Service lines were physically inspected
- Zero lead services and no unidentified materials





# Lead testing for Schools

- Includes Public, Private and Child Care facilities
- Testing will begin in 2027
- Twenty percent of all facilities will be tested every year for 5 years
- We will also test upon request
- We will provide education materials



# Lead Testing for Schools



In 2019, 21 sites were tested and the laboratory spent 293 hours to complete the lab analysis



We are expecting many more sites than 2019.



We are still evaluating the best way to accomplish this work



# Making Conservation a California Way of Life

# Urban Water Loss

- Water Loss Audits
- Validation Requirements
- Meter Replacement  
Program requirement



# Schedule

## CROSS CONNECTION

Cross Connection Control Plan

Handbook submission

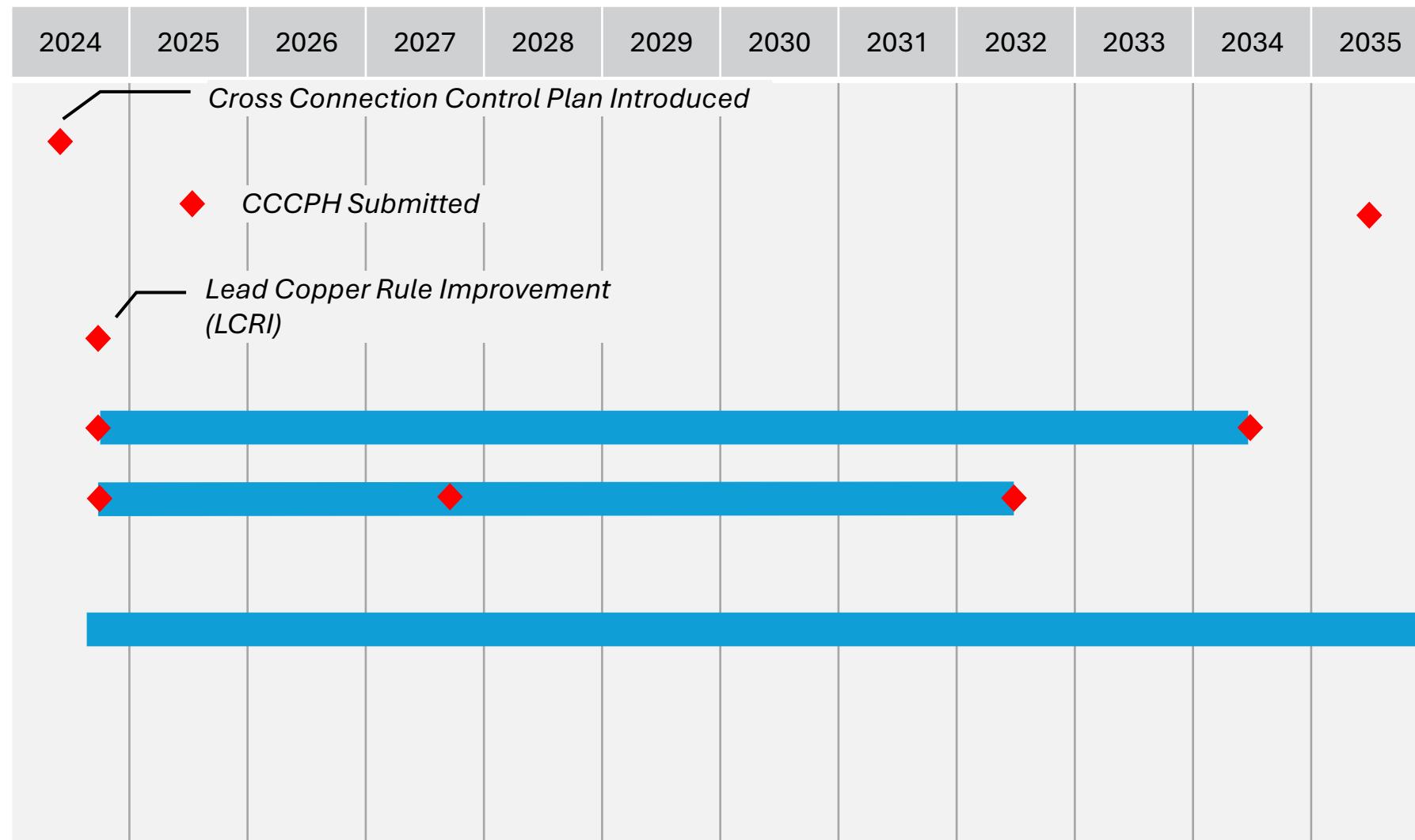
## LEAD AND COPPER

Lead and Copper Rule Improvements

Lead Service Line Inventory and replacement

School inventory and lead testing in Schools

## WATER CONSERVATION





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# Questions?