

2022 Public Health Goal Report

DSRSD Board Meeting

September 20, 2022

Clint Byrum,

Water/Wastewater Systems Superintendent



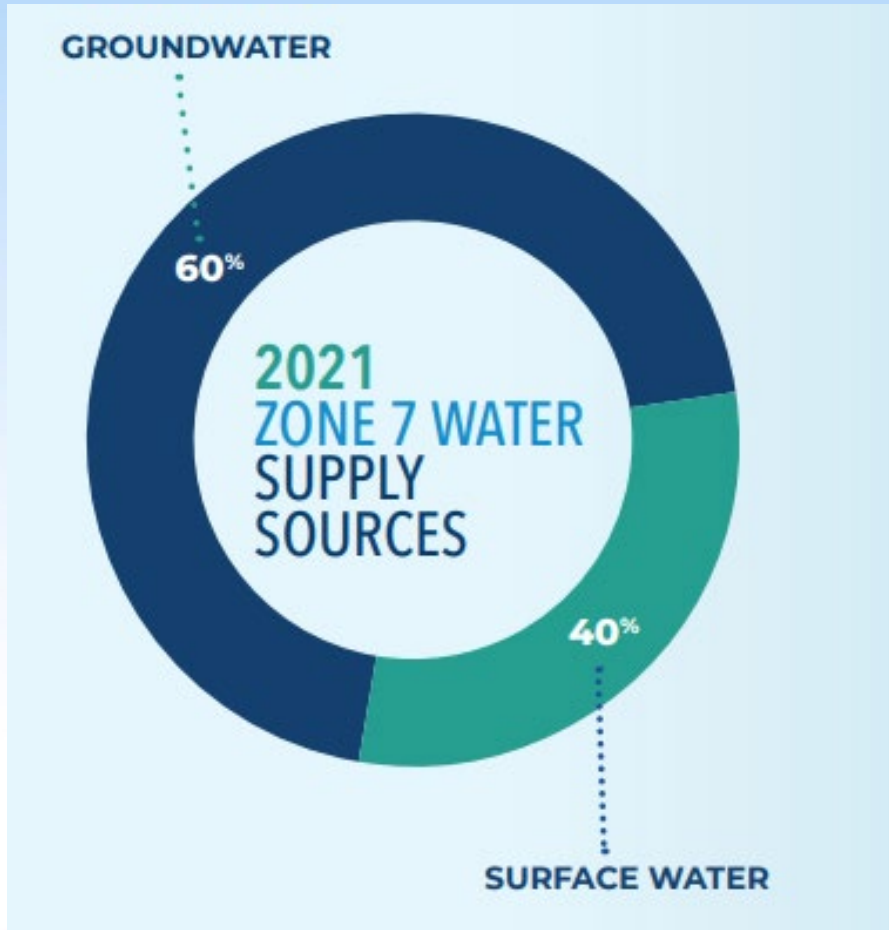
**Dublin San Ramon
Services District**

Water, wastewater, recycled water

Zone 7 Water Agency: Drinking Water Sources



Zone 7 Water Agency: Source Water Composition



IMPORTED SURFACE WATER

The majority of our water supply originates as Sierra Nevada snowmelt and is conveyed by the State Water Project through the Delta and then via the South Bay Aqueduct.*



LOCAL SURFACE WATER

This is comprised of local rain runoff stored in Lake Del Valle.



GROUNDWATER

This supply, carefully managed by Zone 7, is pumped from the aquifer that underlies the Livermore-Amador Valley; water in the aquifer comes from local rainfall and from strategic recharges made with imported water to ensure access during dry years.

Source: Zone 7 Agency Annual Water Quality Report 2021

DSRSD Public Water System



» Population: 94,000

» Treatment:

- Fluoride
- Chloramine

» DSRSD drinking water meets or exceeds all federal and state regulatory standards



Public Health Goal Requirements

- » **Maximum Contaminant Level (MCL):
Regulatory Limit**
- » **Public Health Goal (PHG) or Maximum
Contaminant Level Goal (MCLG):
State or Federal Goals**



Public Health Goal: Escherichia coli

» Background

- District collects approximately 1196 samples a year
- Most E.coli are harmless, but some can be pathogenic

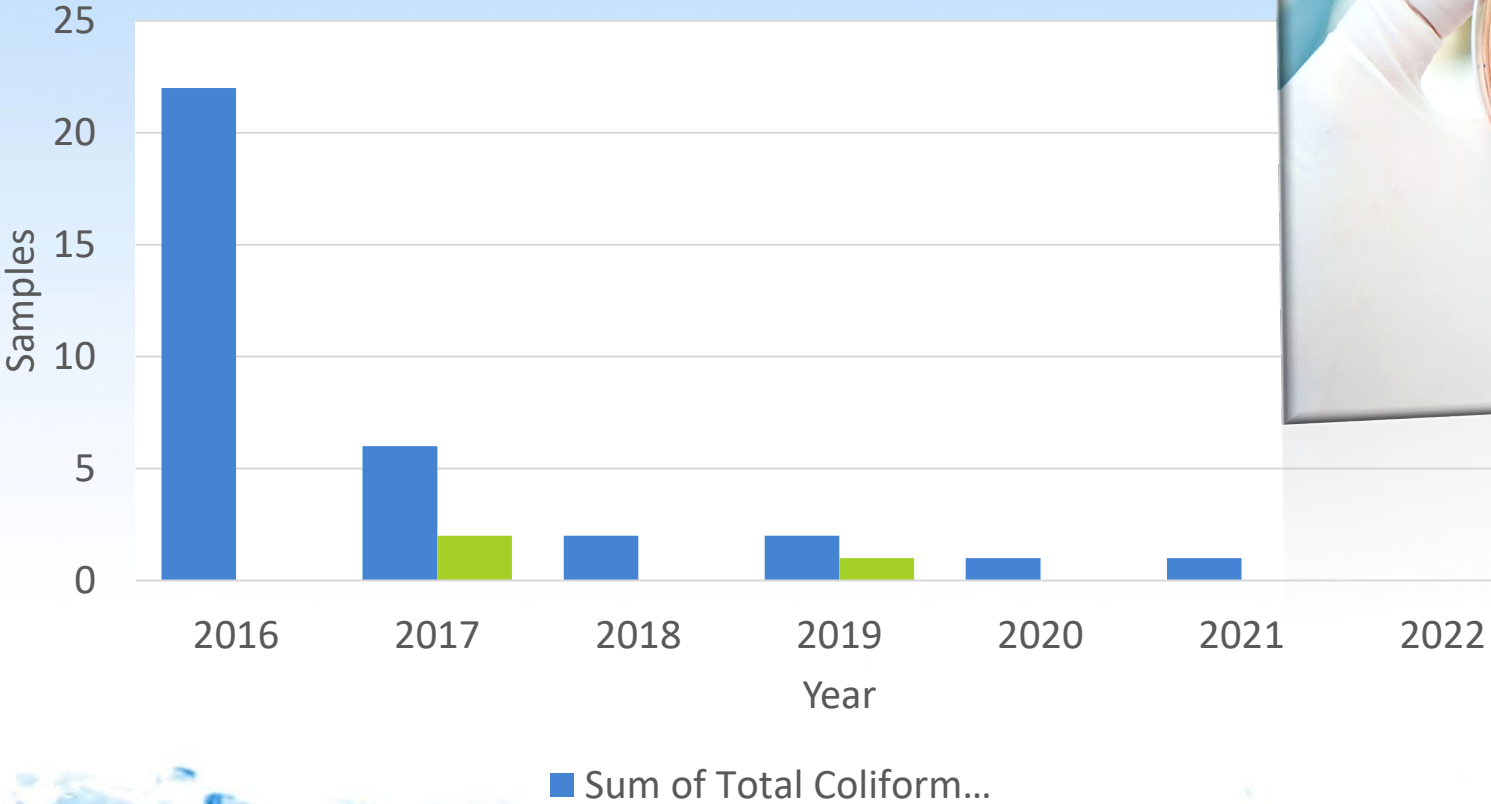
» Maximum Contaminant Level Goal Exceedance

- One occurrence in 2019 isolated to an air valve
- Not a Maximum Contaminant Level violation



Microbiology Data

Total Coliform and E.coli Positives



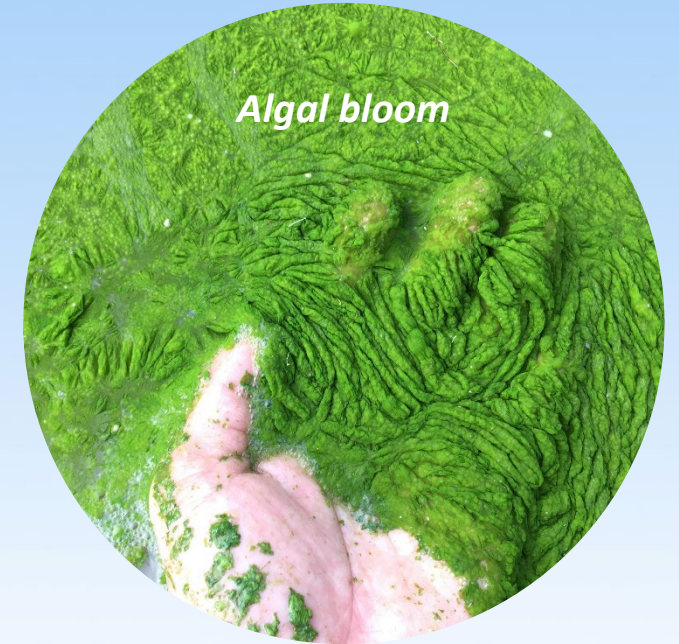
Public Health Goal: Bromate

» Background

- Found in source water after ozonation treatment
- Zone 7 Water Agency Ozonation: disinfection by-product from treating surface water

» Public Health Goal Exceedance

- One value above the public health goal in the 2nd Quarter of 2021, 8ug/L
- No Maximum Contaminant Level Violation



Public Health Goal: Lead

» Background

- 2019 Lead and Copper- Customer home plumbing samples

» Public Health Goal Exceedance

- Public Health Goal= 0.2 ug/L
- 2019 90th percentile for lead = 10 ug/L
- No Action Level Exceedance



Public Health Goal: Uranium

» Background

- Found in the source water: ground water
- Naturally occurring, weakly radioactive and ubiquitous in the earth's crust

» Public Health Goal Exceedance

- Public Health Goal = 0.43pCi/l
- Range 1.0-1.3 pCi/l in groundwater
- No Maximum Contaminant Level violations





Recommendations for Further Action

- » DSRSD drinking water meets all quality standards set by Division of Drinking Water and USEPA to protect public health.
- » Due to the uncertainty if additional treatment processes could reduce constituent levels to the Public Health Goal or Maximum Contaminant Level Goal, no further action is recommended.



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Questions?