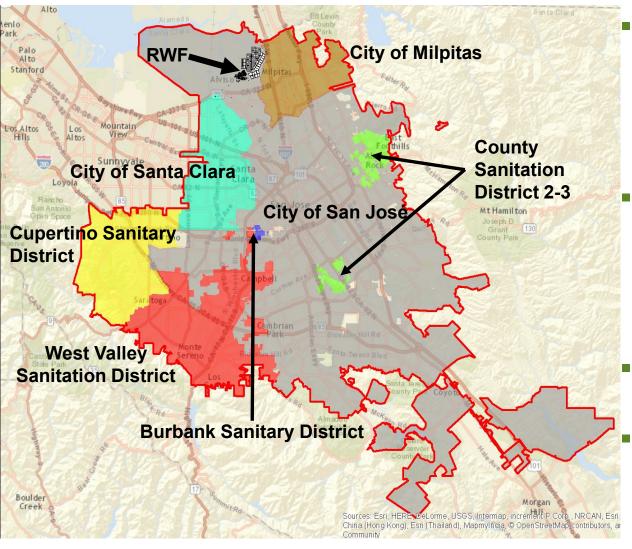


# Discharge Regulations and Future Impacts on the RWF

Transportation and Environment Committee
May 3, 2021



## Regional Wastewater Facility



- West Coast's Largest advanced wastewater facility
  - 167 MGD capacity
  - 2,600-acre site
- Serves
  - 1.5 million people
  - 17,000 businesses
  - 8 cities & County areas
  - Continually operating 24/7 since 1956
- Subject to multiple permits



## Regulations on the Watch List



## Regulatory Permits: Wastewater

## National Pollution Discharge Elimination System

- Regulator: San Francisco Bay Regional Water Quality Board
  - Through authority of Federal EPA and the State
- Individual Permit: February 2020
- Watershed Permits:
  - Nutrient-specific Permit: May 2019
  - Mercury & PCBs-specific Permit: January 2018



## Potential Regulations: Nutrient Limits

- Nitrogen Limits 2024
- Bay science studies will inform need for further reductions
- Proactive monitoring and collaborative engagement by staff



## Potential Regulations: CECs

# **Constituents of Emerging Concern**









#### **PROTECT THE BAY**

Get rid of expired meds the right way.

Drop-off bin locations near you.



## Potential Regulations: Chronic Toxicity Testing

#### Test species 1994 - March 2020

- Future regulations will impose numeric chronic toxicity limits
- Stringent application of regulation may result in periodic permit violations & fines





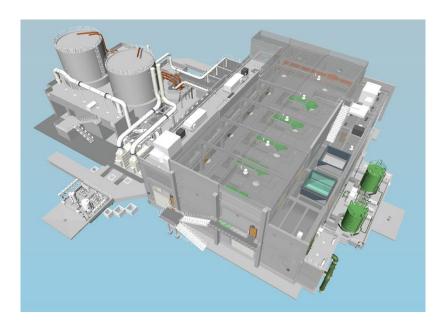
Test species April 2020 - present



## Potential Regulations: Organics and Biosolids

#### **SB 1383**

- Landfill Restrictions
- Dewatering Facility





## Regulatory Permits: Air

### **Title V Permit to Operate**

- Regulators:
  - EPA
  - Bay Area Air Quality Monitoring District
- Criteria Pollutants, Greenhouse Gases, Toxic Air Contaminants
- Current Permits:
  - Title VIssued in 2017
  - Authority to Construct for Facility Changes



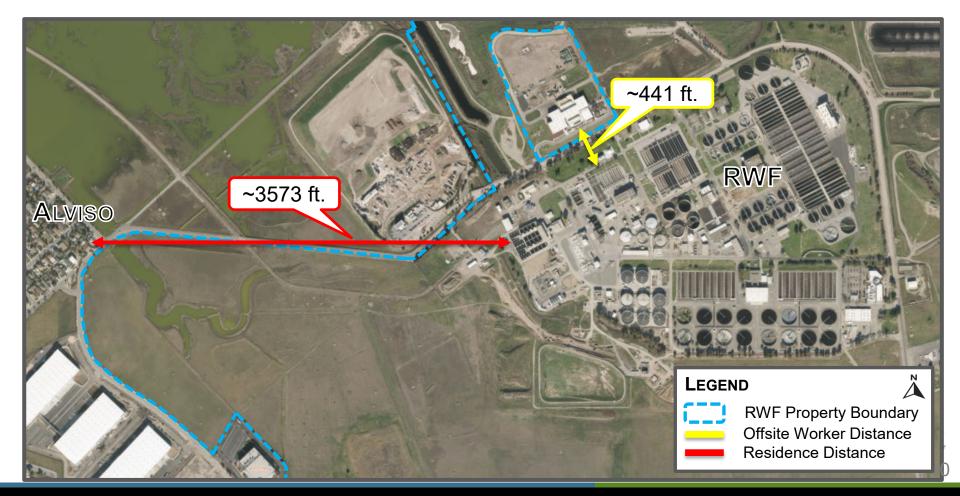




## New Regulation: Toxic Air Contaminants

## **BAAQMD** Regulation 11 Rule 18

Health Risk Assessment



## Potential Regulations: Greenhouse Gases

#### **GHGs**

- Cap & Trade
- Fugitive Methane (BAAQMD Rule13-4)



## Looking Ahead

- Tracking Potential Regulations and Legislation
  - Ensure potential regulations and legislation are considered in discussion with Valley Water on recycled & purified water expansion
- Established in-house research and science programs inform and shape regulations
- Leveraging Advocacy and Industry Groups
- Flexibility Built into Capital Projects

## **Environmental Benefits**



## Discussion

