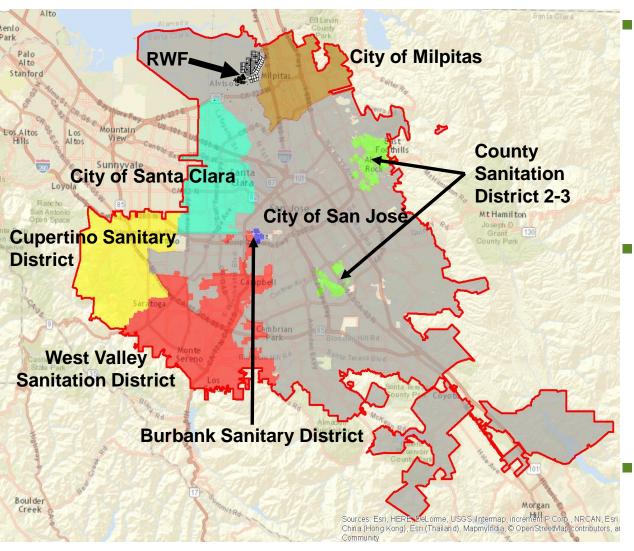


Discharge Regulations and Future Impacts on the RWF

Transportation and Environment Committee
May 7, 2018



Regional Wastewater Facility



- Largest advanced wastewater facility on the West Coast
 - 167 MGD capacity
 - 2,600 acre site

Serves

- 1.4 million people
- 17,000 businesses
- 8 cities & County areas

Continually operating 24/7 since 1956

Regulatory Permits: Wastewater

National Pollution Discharge Elimination System

- Regulated by EPA and San Francisco Bay Regional Water Quality Board
- Current Permit issued in 2014, renewal in 2019
- Specific Effluent Limits on Chemical Constituents and Ammonia
- Separate Nutrient-specific Permit requires monitoring and nutrient reduction evaluation studies.

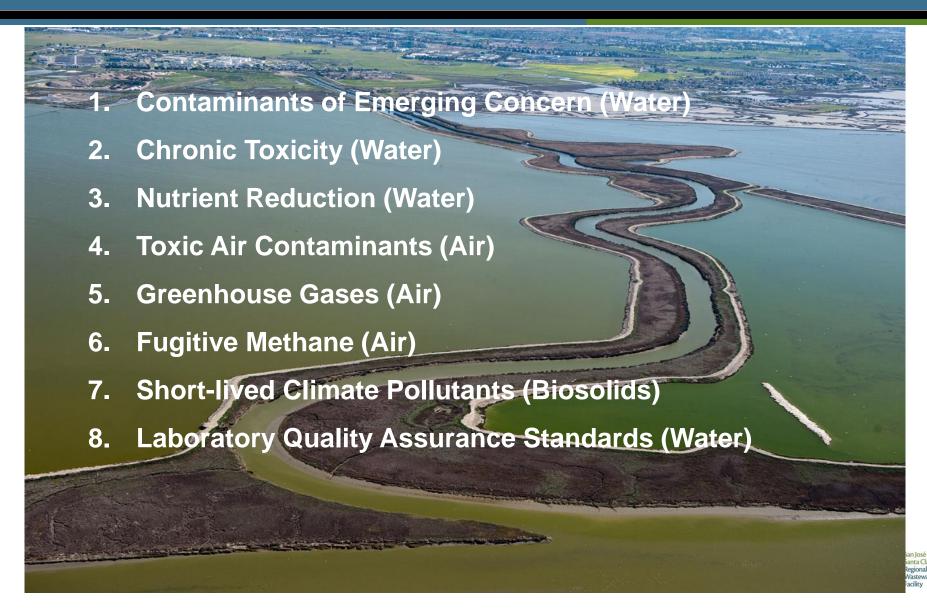
Regulatory Permits: Air

Title V and Permit to Operate

 Regulated by EPA & the Bay Area Air Quality Monitoring District

- Current Permit Issued in 2017; Updates in Progress Facility Changes
- Criteria Pollutants, Greenhouse Gases, Toxic Air Contaminants

Regulations on the Watch List



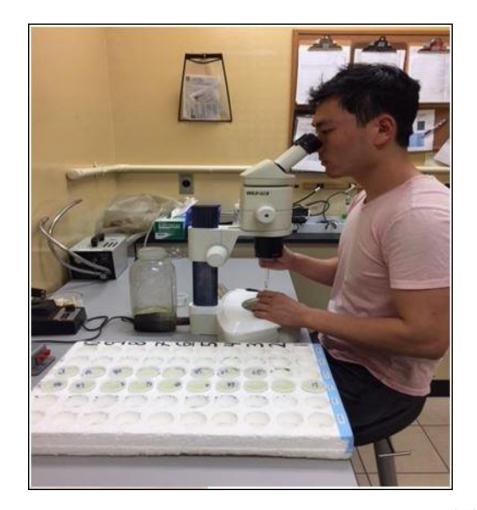
Potential Regulations: CECs

- Contaminants of Emerging Concern
- Pharmaceuticals



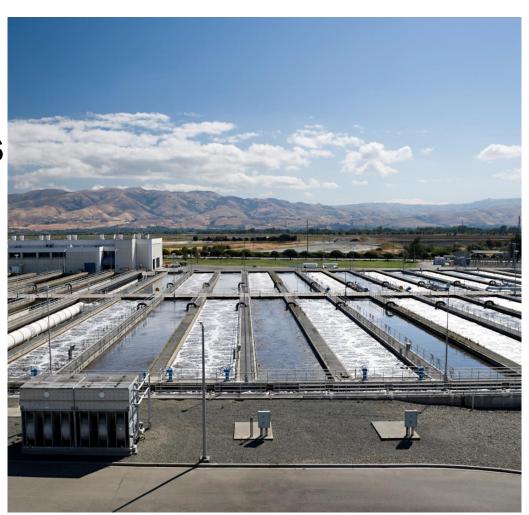
Potential Regulations: Chronic Toxicity Testing

- Future regulations will impose numeric chronic toxicity limits
- Stringent
 Implementation may result in periodic permit violations and fines



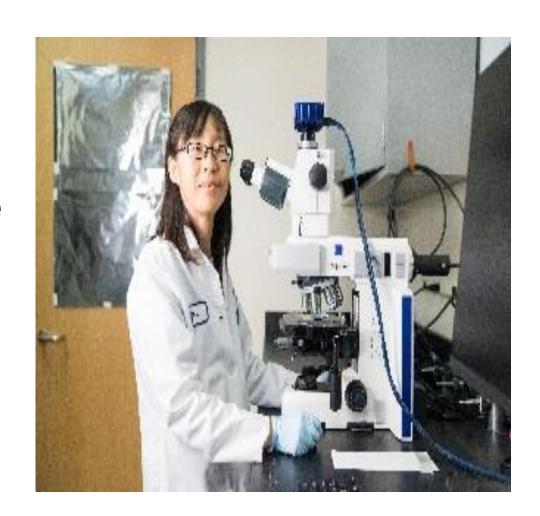
Potential Regulations: Nutrient Limits

- Specific limits unknown
- Bay science studies will inform future limits
- Aeration Tanks Rehab Project
 - Phase 1
 - Phase 2



Potential Regulations: Laboratory Standards

- NELAC/TNI
- Costs of Accreditation
- Significant increase in documentation, administrative paperwork
- Equipment Needs



Potential Regulations: Toxic Air Contaminants

Regulation 11 Rule 18

- Health Risk Assessment
- Cogeneration Facility



Potential Regulations: Greenhouse Gases

GHGs

- Cap & Trade
- Fugitive Methane



Potential Regulations: Organics and Biosolids

SB 1383

- Landfill Restrictions
- Dewatering Facility





Looking Ahead

- Tracking Potential Regulations and Legislation
- Leveraging Advocacy and Industry Groups
- Flexibility Built into Capital Projects
- Annual Update to the T&E Committee

Environmental Benefits



Discussion

