



City of
San Leandro

**WATER POLLUTION
CONTROL DIVISION CIP
UPDATE**

Facilities and Transportation Committee



AGENDA

1
Facility
Overview

2
CIP Plan
Overview

3
Nutrient
Reduction Plan

4
Sanitary Sewer
System

5
Implementation
Next Steps

SERVING THE COMMUNITY

We have been proudly serving the community for over 85 years. The City's wastewater treatment plant has been in operation since 1939, and the most recent upgrade was completed in 2017.



~5 Million Gallons per Day (MGD)

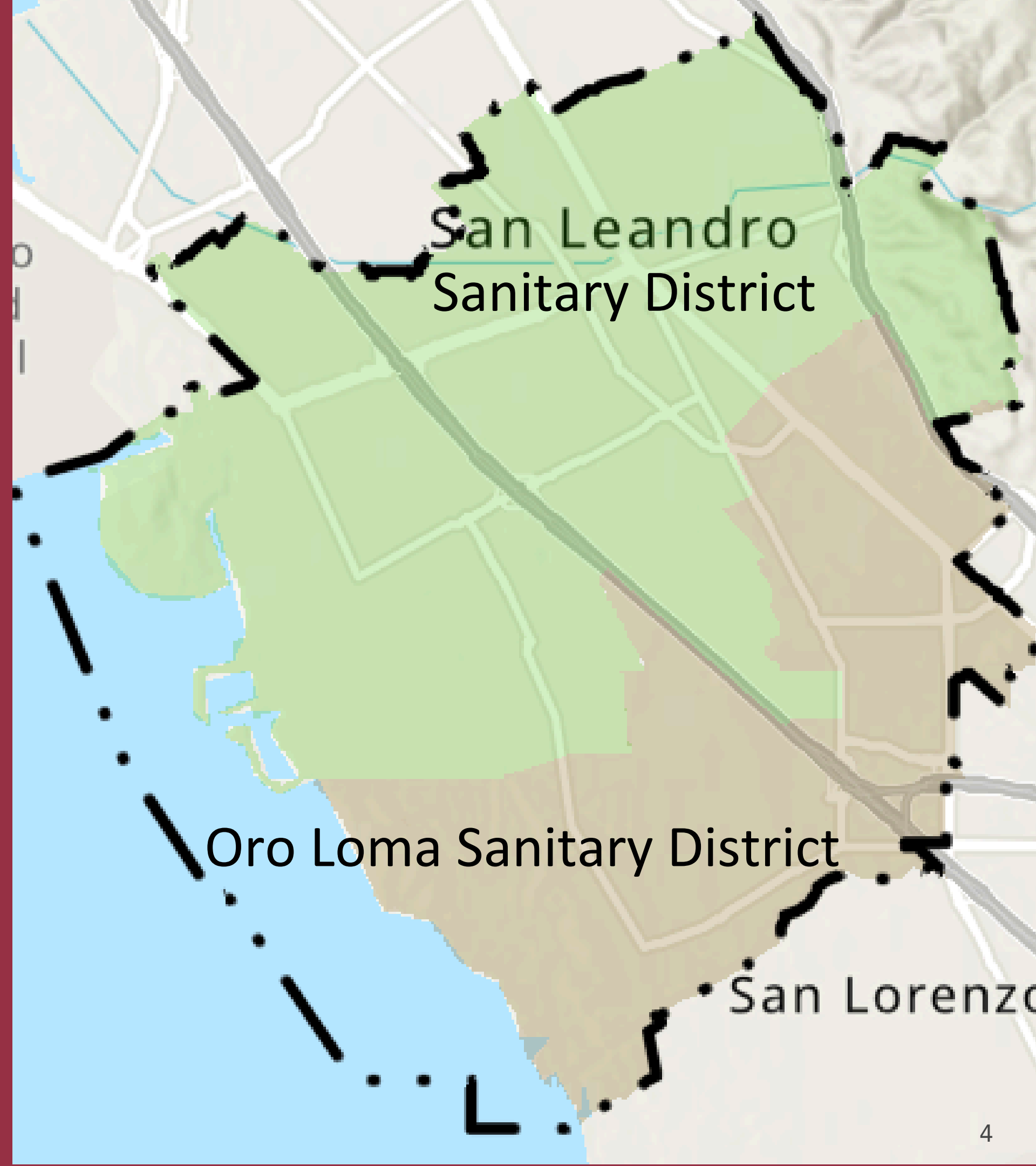


CITY SEWER SERVICE AREA

 125 miles of sewer pipeline

 12 Lift Stations

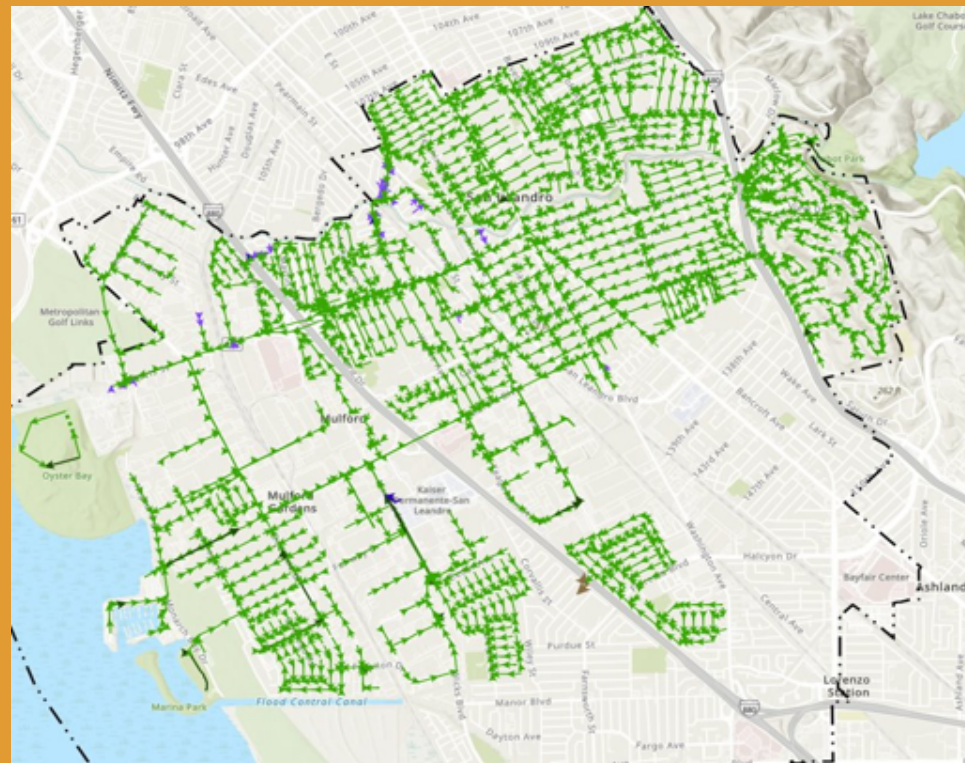
 One Treatment Plant



WASTEWATER TREATMENT

Water Pollution Control Division has a mission of protecting public health and the environment through the collection, treatment, and disposal of treated wastewater and processed solids.

COLLECT



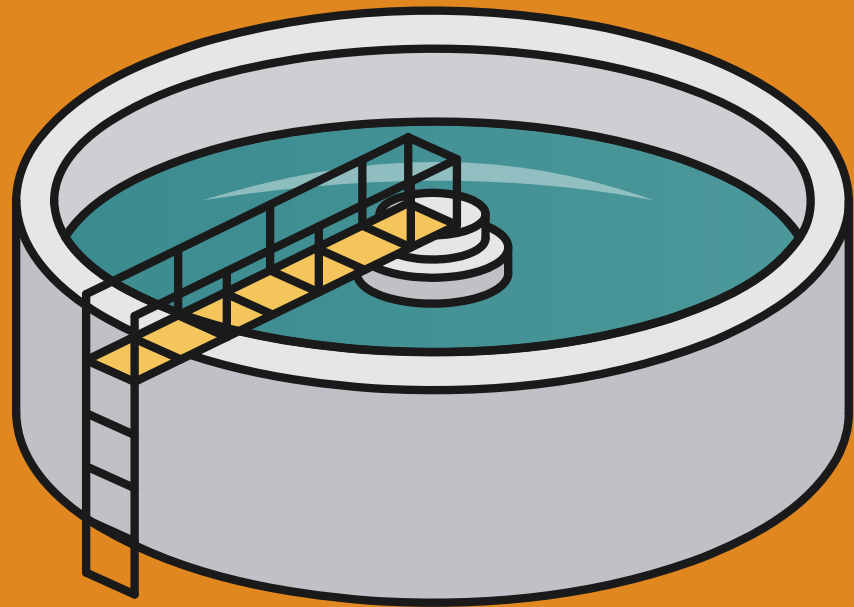
TREAT



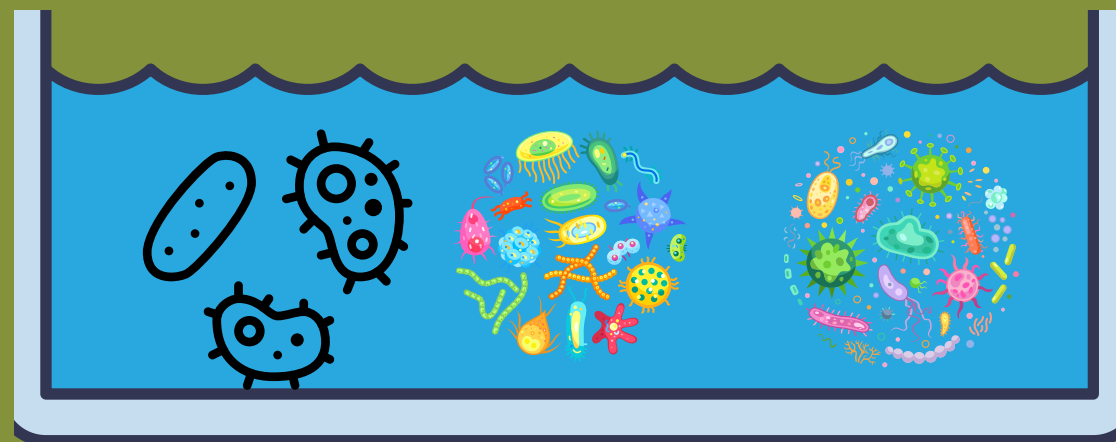
DISPOSE



TREATMENT PROCESS



Mechanical



Biological



Chemical

CIP PLAN OVERVIEW

1. Respond to changing regulations
2. Maintain a high-functioning, reliable system
3. Set a basis for ongoing cash flow management



10 Year Plan



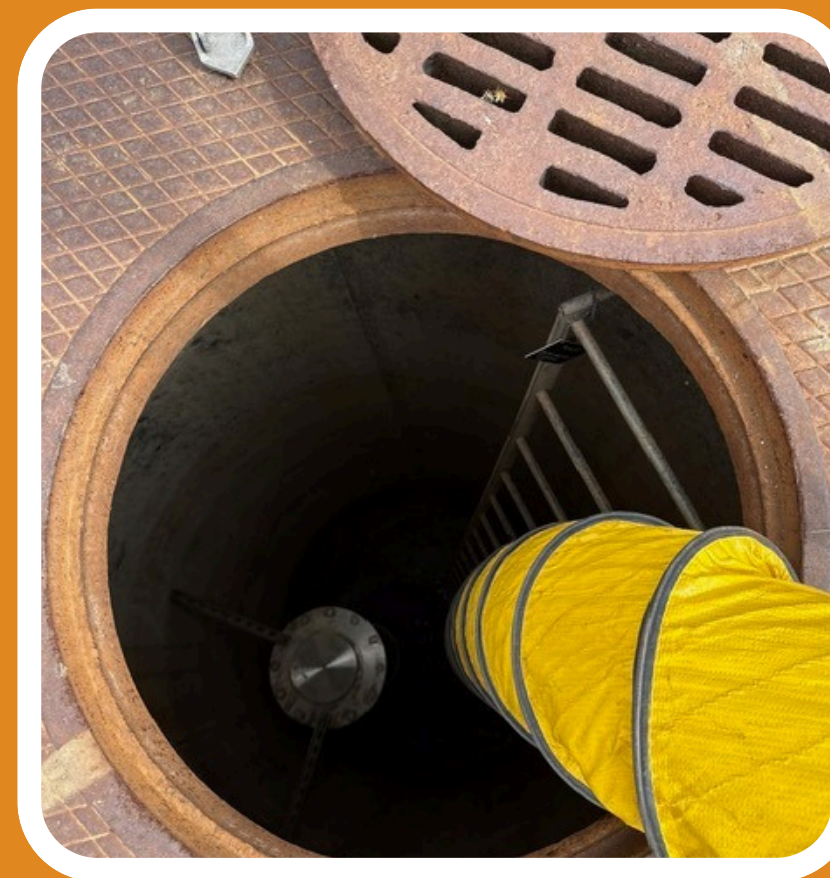
\$97,000,000



Approved in 2024



Nutrient Reduction



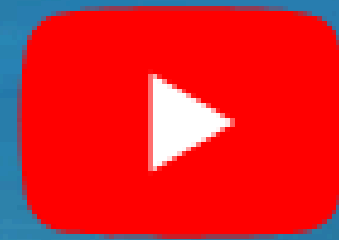
Sanitary Sewer Repair & Replacement

NUTRIENT REDUCTION



Protecting You and the Bay | Clean Water Infrastructure

BACWA Bay Area Clean Water Agencies



Watch on  YouTube



PRIORITY PROJECTS



Treatment Wetland



Aeration Basin
Reconfiguration



Sidestream



Protecting the Bay, one step at a time 🌿

City of San Leandro



CITY OF
San Leandro
CITY COUNCIL PRIORITIES
Watch on YouTube
INFRASTRUCTURE



PILOT IN PROGRESS

- Project uses advanced technology to prepare the water
- Provides energy efficiency in a smaller footprint and lower installation costs
- Unit is currently being tested at the WPCP



NEXT STEPS

1. Phase 2 Design
2. Bid
3. Contracting
4. Phase 2 Construction



AERATION BASIN

- Utilize standby aeration basin
- Create two-step process for removing nitrogen
- Estimated project cost, including other needed improvements in the area: \$12,000,000



SIDESTREAM

- Water removed from solids processing is nutrient rich
- Treating by itself is more efficient
- New technologies available may capture nutrient in useful form
- Need more research - identify technologies to pilot
- Only installed if necessary
- Costs dependent on technology

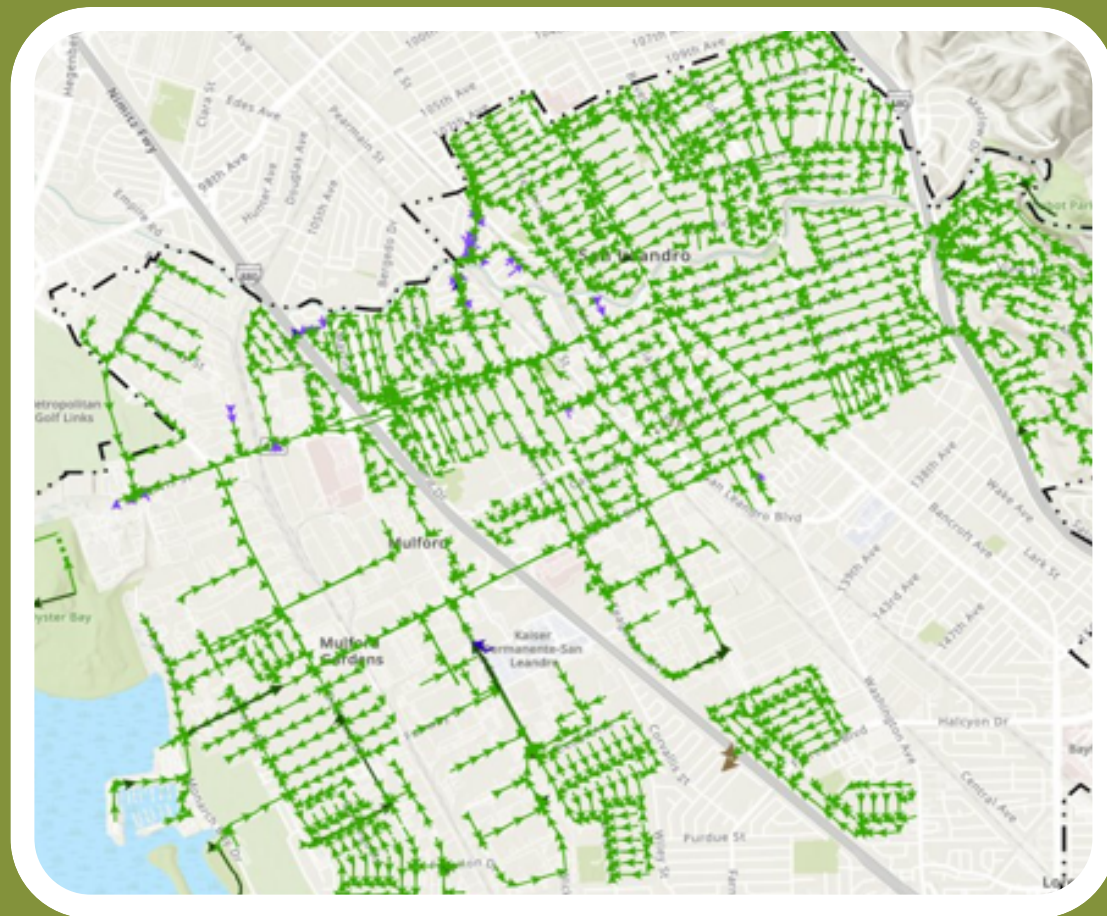




SANITARY SEWER SYSTEM

SEWER SYSTEM

- 125 miles of pipeline
- Material is mostly clay
- Aging infrastructure
- \$2,000,000 Budgeted per year



SEWER PIPELINE REPAIR

1

Project starting soon will fix 72 problems, replace 7 pipes and upgrade 30 manholes.

2

Updating software to improve how issues are identified and tracked for fix/replacement

3

Research sources of inflow & infiltration

CIP IMPLEMENTATION

- Requires additional support for program management, design, and construction management
- Completed an RFQ to identify qualified firms to assist with capital projects
- Establishing contracts with firms streamline design and construction phases

CIP IMPLEMENTATION COST

- On Call Agreements
 - 3 Firms-Design: \$3M each
 - 3 Firms-Construction Management: \$1.5M each
 - 1 Firm-Project Management: \$800K



QUESTIONS?