



# Mills Water Treatment Plant Sodium Hydroxide Tank Replacement

Engineering & Operations Committee

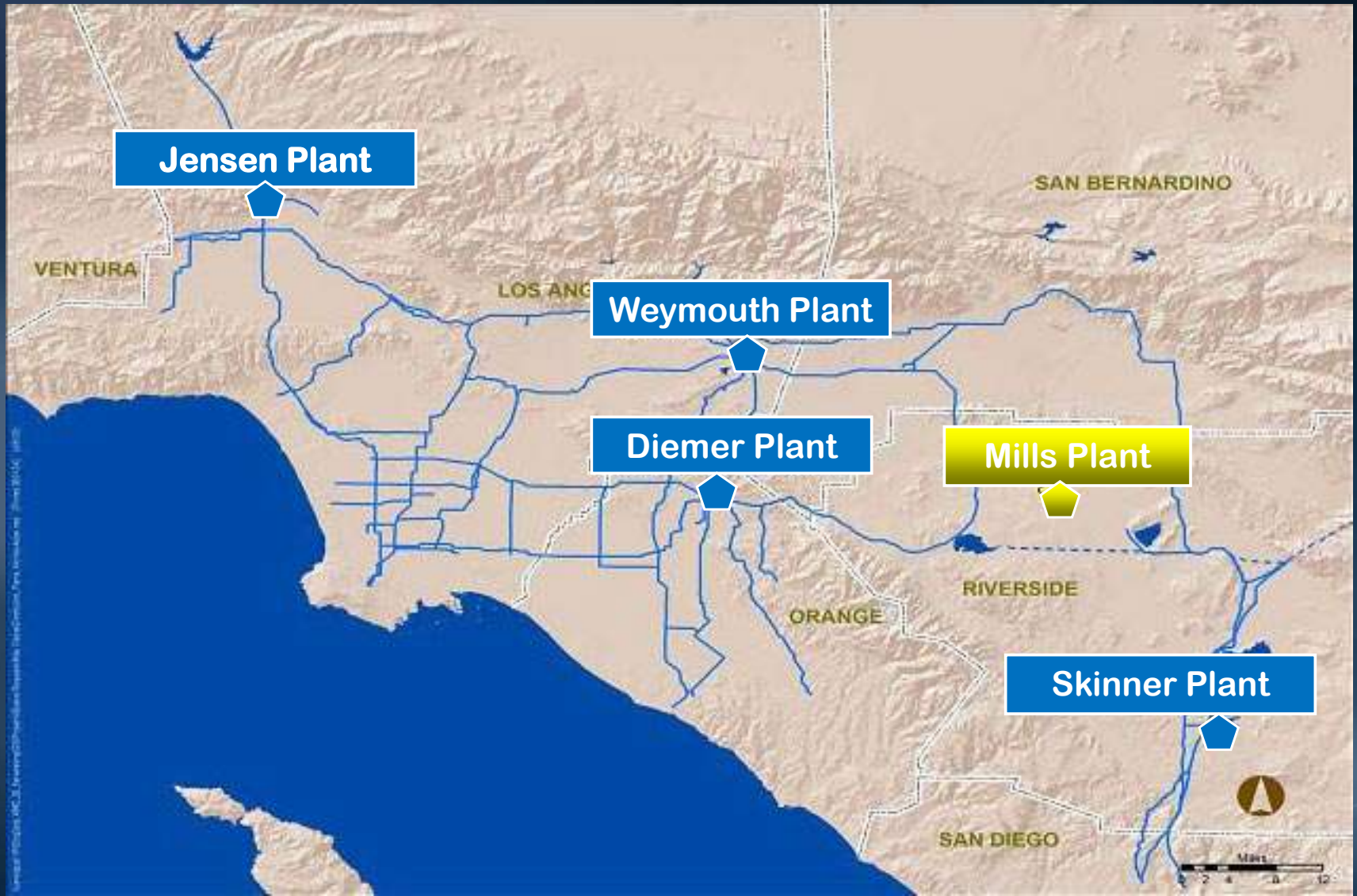
Item 7-1

May 10, 2010

# Current Action

- Appropriate \$180,000 in budgeted funds
  - Project budgeted for FY 2009/10 and included in reprioritized plan for FY 2010/11
- Authorize final design to replace four sodium hydroxide storage tanks at Mills

# Metropolitan Water Treatment Plants



# Mills Water Treatment Plant



# Sodium Hydroxide Tank Replacement



## ● Background

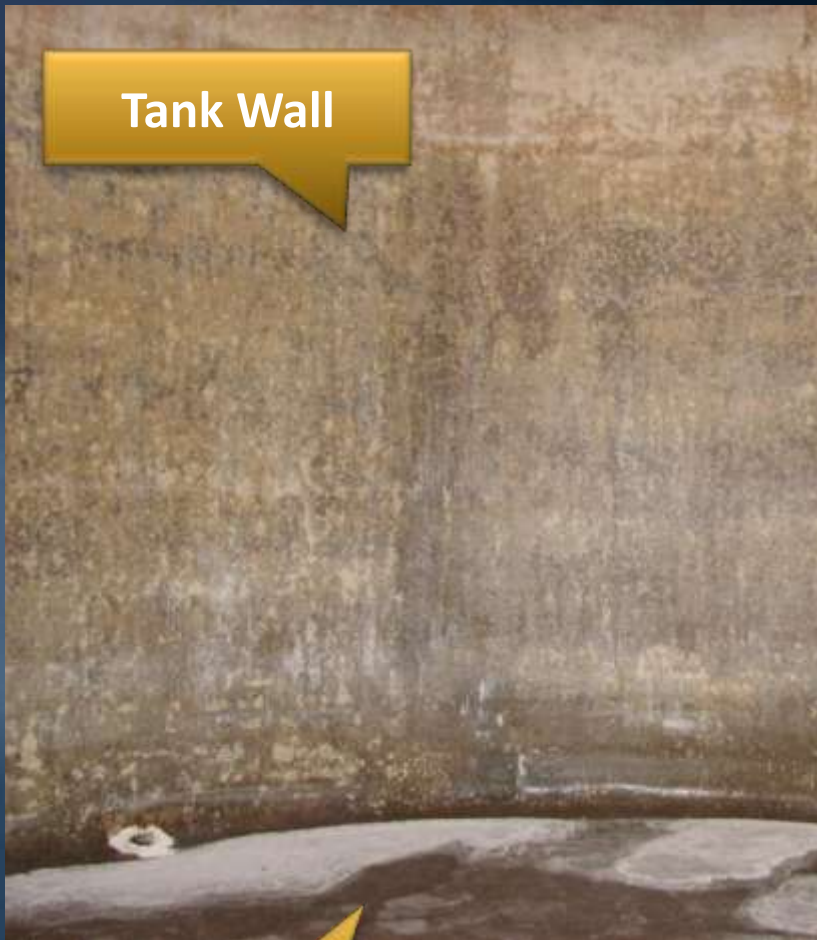
- Sodium hydroxide used to raise pH
- Four 20,000 gallon FRP storage tanks
- 3 of 4 tanks (interior lining) deteriorated
- New tanks needed to meet storage goal
- Replacement tanks will be steel

## ● Scope

- Prepare procurement docs for pre-purchase of tanks
- Prepare final design for tank installation

## ● Final design by Metropolitan

# Sodium Hydroxide Tank Liner Corrosion



Tank Wall

Tank Floor

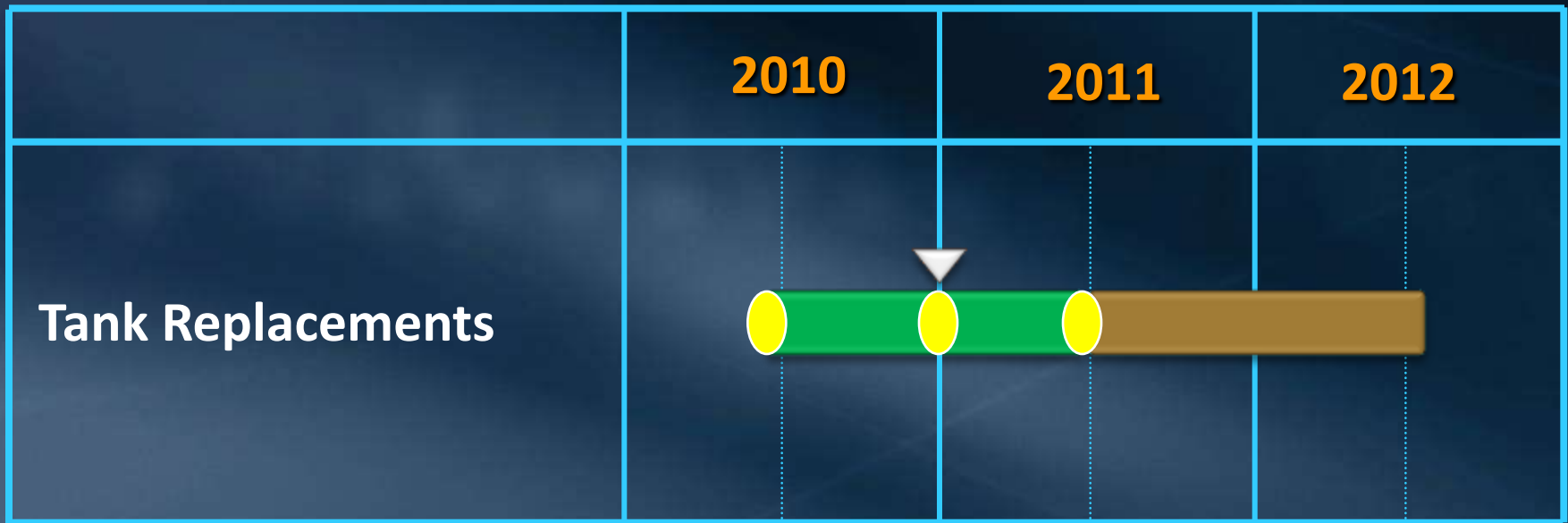
- Discolored areas indicate flaking and blistering of liner material
- Deterioration caused by sodium hydroxide at elevated temps
- Steel tanks are more durable
- Other water agencies have switched storage tank material

# Requested Funds

## Mills Improvements Program – Phase II

Owner costs	\$ 56,000
Final Design	93,000
Materials & Incidentals	5,000
Remaining budget	26,000
<b>Total</b>	<b>\$180,000</b>

# Project Schedule



 Board Action

 Final Design

 Construction

 Pre-purchase tanks



# Board Options

## ● Option #1

- Adopt CEQA determination
- Appropriate \$180,000 in budgeted funds
- Authorize final design to replace four sodium hydroxide tanks at the Mills plant

## ● Option #2

- Do not proceed with the Mills sodium hydroxide tank replacement project

# Staff Recommendation

- Option #1

