



# City of Los Angeles

## Department of Public Works

# Venice Dual Force Main Project

## Coastal Intercept Sewer

**February 19, 2015**

*Presentation to the Santa Monica  
Bay Restoration Commission*



# Collection System

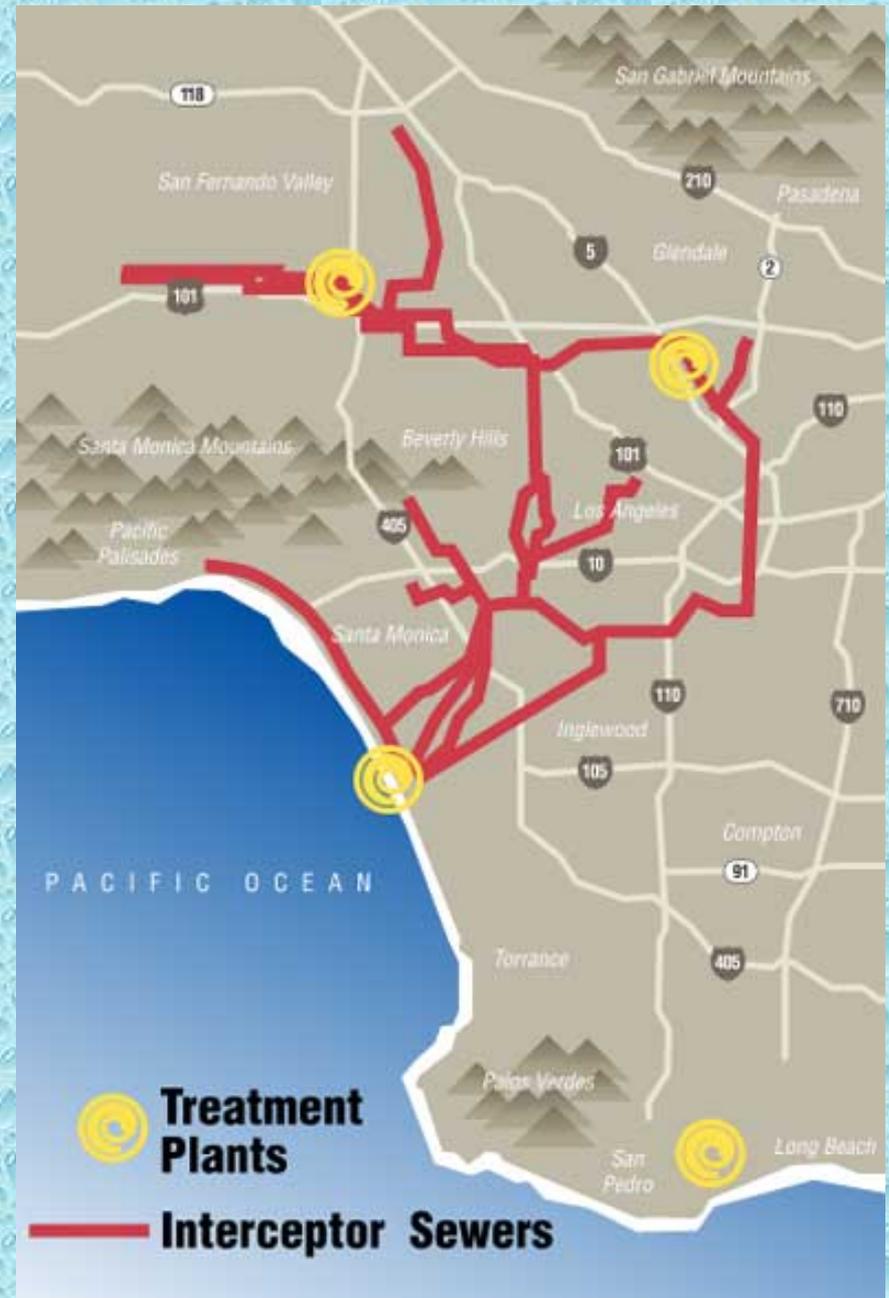
Covers 465 sq. mile service area

6,700 Miles of Sewers

4 Wastewater Treatment Plants

Operates

24/7

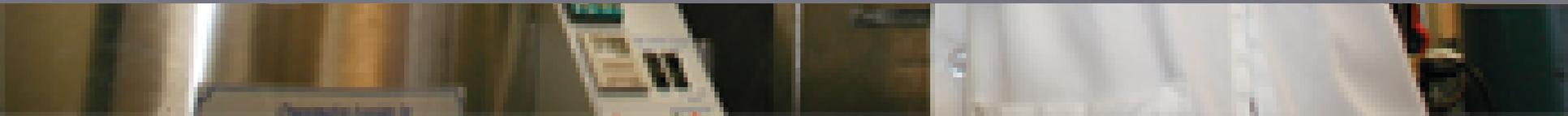




We convey and treat **350,000,000** gallons of wastewater every day.



We monitor **365 days a year** for public and environmental health and run thousands of lab analyses every month.





# Critical Issues and Drivers



- Continuous operation for more than 50-years, never been out of service, drained or inspected
- No redundancy
- Only conveys approximately 60% of peak wet-weather flows
- No cost-effective means for planned repairs or in the event of an unanticipated failure
- ***No-Action is not an Option !***





# City's Key Objectives

- 1. Protect Health and Environment**
- 2. Create redundancy**
- 3. Ensure conveyance capacity**
- 4. Provide ability to perform inspection, maintenance or repairs**

# Pressing Need

The existing 48-inch diameter, force main has been in continued service for over 50 years.

- It can not handle peak wet weather sewage flow at the Venice Pump Station.
- It can not be shut down to assess its condition or to perform needed repairs.
- It is the only sewage conveyance option from Venice Pump Station to the existing junction structure under Vista Del Mar.

# Solution

**Construct a new 54-inch diameter force main which:**

- **Connects to a common manifold at Venice Pump Station and discharge into the structure under Vista Del Mar, 2 mile away.**
- **Provides needed capacity and redundancy, eliminating the looming threat of a sewage spill.**
- **Provides for assessment and repairs of the existing force main.**

# EIR Studied Alignments



# **Evaluated Alignments in Certified EIR**

**Three alignment alternates:**

- **Pacific Alignment**
- **Dockweiler Beach Alignment**
- **Via Marina/Pacific Alignment**

# Selected Alignment

**Via Marina / Pacific Alignment.**

**Construction of 10,400 feet long new 54-inch diameter force main using microtunneling (approx . 9,500') construction method and open trench (approx. 900') method.**

**4,100 feet of sewer alignment is under Via Marina.  
1,800 feet of sewer alignment is under the channels.  
4,300 feet of sewer alignment is south of the channels.**

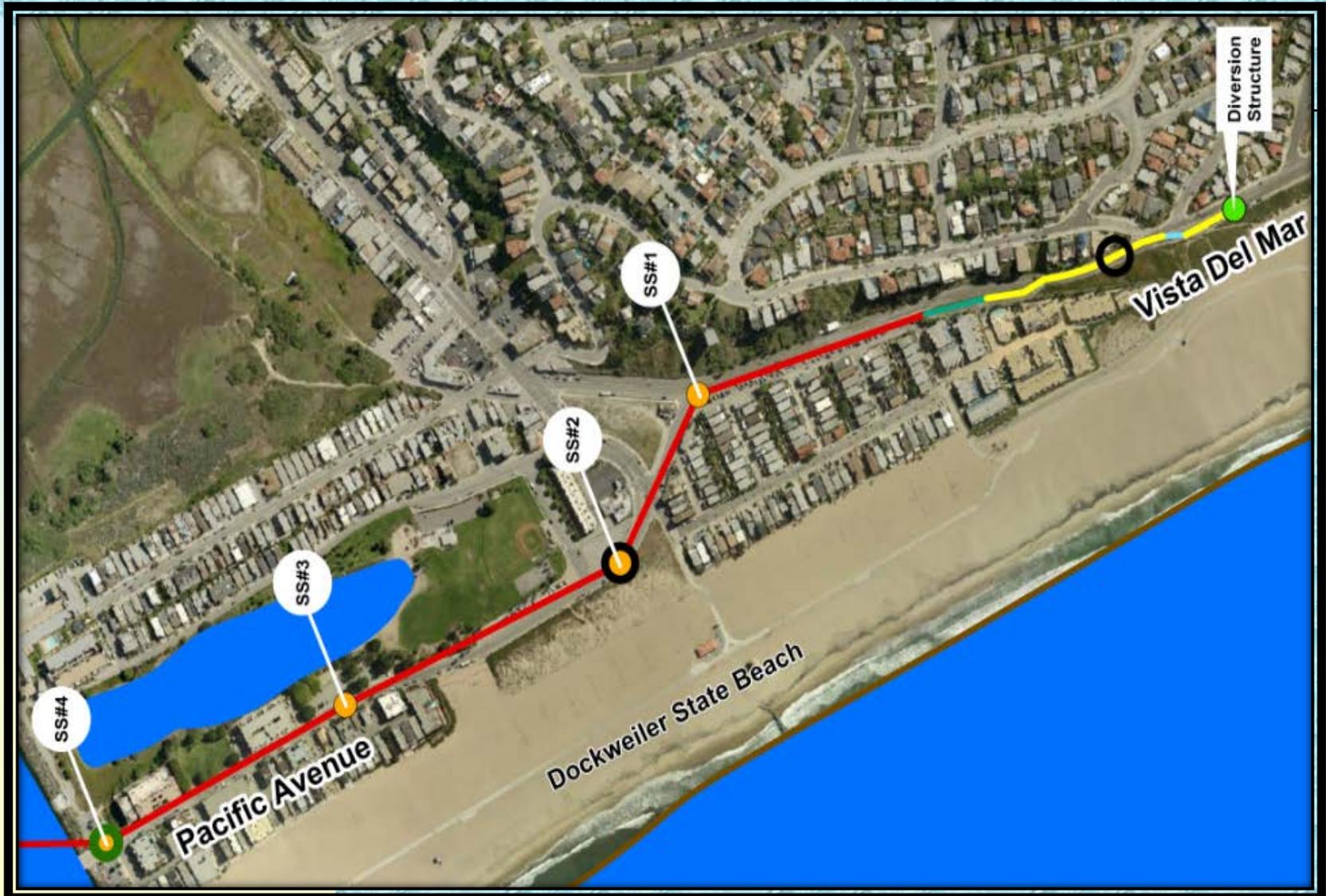
# VDFM Alignment



# VDFM Alignment under Marquesas Way/Via Marina



# VDFM Alignment under Pacific Avenue/Vista Del Mar



# Intersection





# ALONG VIA MARINA FACING SOUTH AT TAHITI WAY



WORK SITE AREA

K-RAILS

ROAD CLOSED

Tahiti Way

Via Marina



# Tentative Project Schedule

<b>Project Permits</b>	<b>Now - March 2015</b>
<b>Contract Award</b>	<b>Fall 2015</b>
<b>Construction</b>	<b>Spring 2016</b>

## Construction Duration

<b>Marina del Rey area</b>	<b>Less than 20 months</b>
<b>Total Construction Period</b>	<b>Approx. 36 months</b>

# Project Status

**EIR Certified in 2010**

**Coastal Development Permits Needed**

- **County of LA**
- **City of LA**
- **CA Coastal Commission**

# Contact Us

## Website

<http://eng.lacity.org/projects/vpp>

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