



Ocean Water Desalination Draft Environmental Impact Report Overview

May 14, 2018

City of Culver City

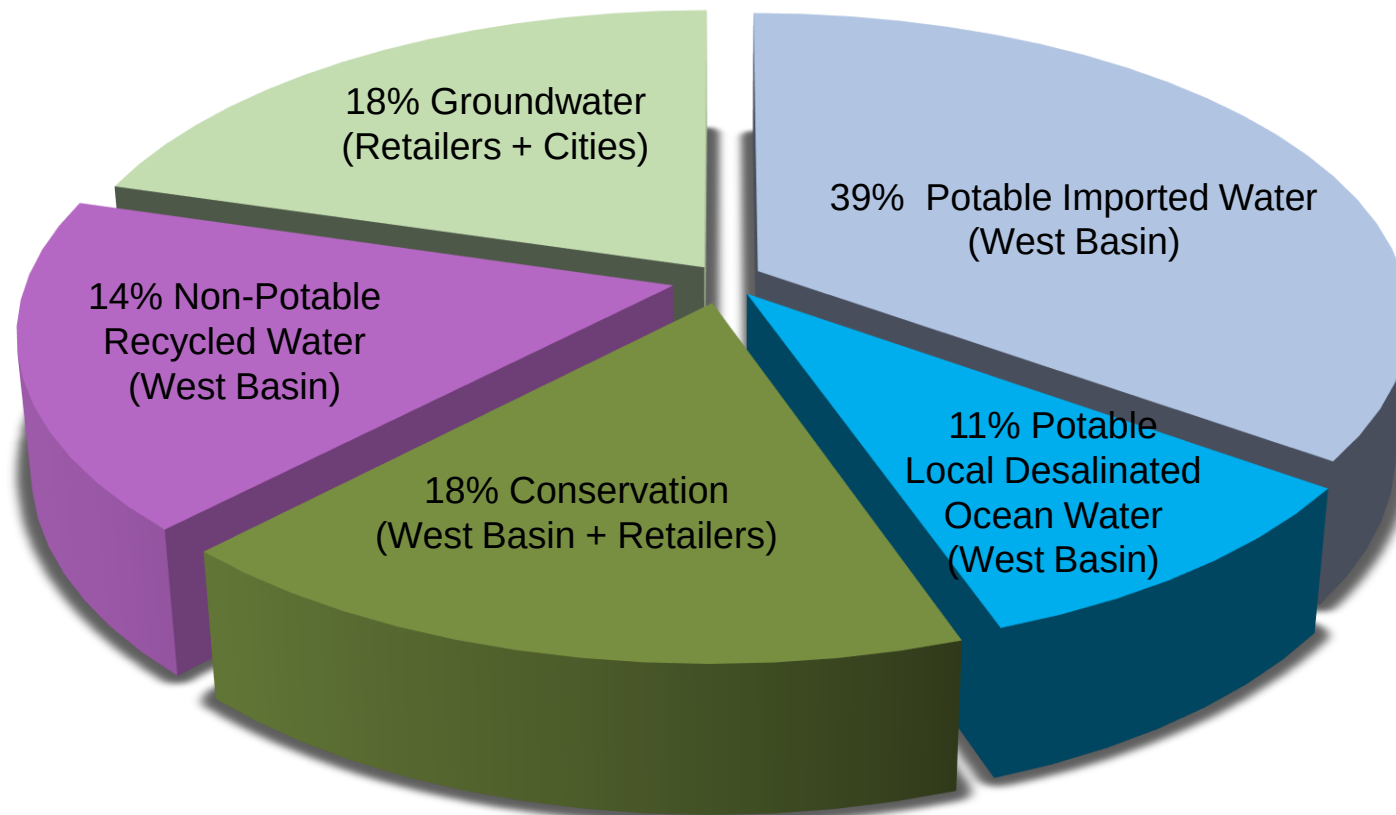
Potential Water Supply 2025

West Basin Supplies:

- 2 Drinking
- 1 Non-drinking

Imported Supply:

- Reduction from 55%



Project Objectives

- Diversify West Basin's water source portfolio to **increase reliability** in the near and intermediate term (5–15 years) and the long term (15–30 years) while **reducing reliance on imported water**.
- Improve water security through West Basin's increased **local control** of water **supplies and infrastructure**.
- Improve West Basin's local control of future water costs and long-term **price stability**.
- Improve **climate resiliency** by developing a water source that is less susceptible to hydrologic variability.
- Develop a potable water supply that is **economically viable and environmentally responsible**.

Project Overview

Key Project Components

- Onshore Treatment Facility
- Offshore Ocean Water Intake
- Offshore Concentrate Discharge
- Onshore Drinking Water Delivery

Capacity

- Local Project: 20 MGD
(Initial)
- Regional Project: 60 MGD
(Potential Expansion)

Local Project North Site Comparison

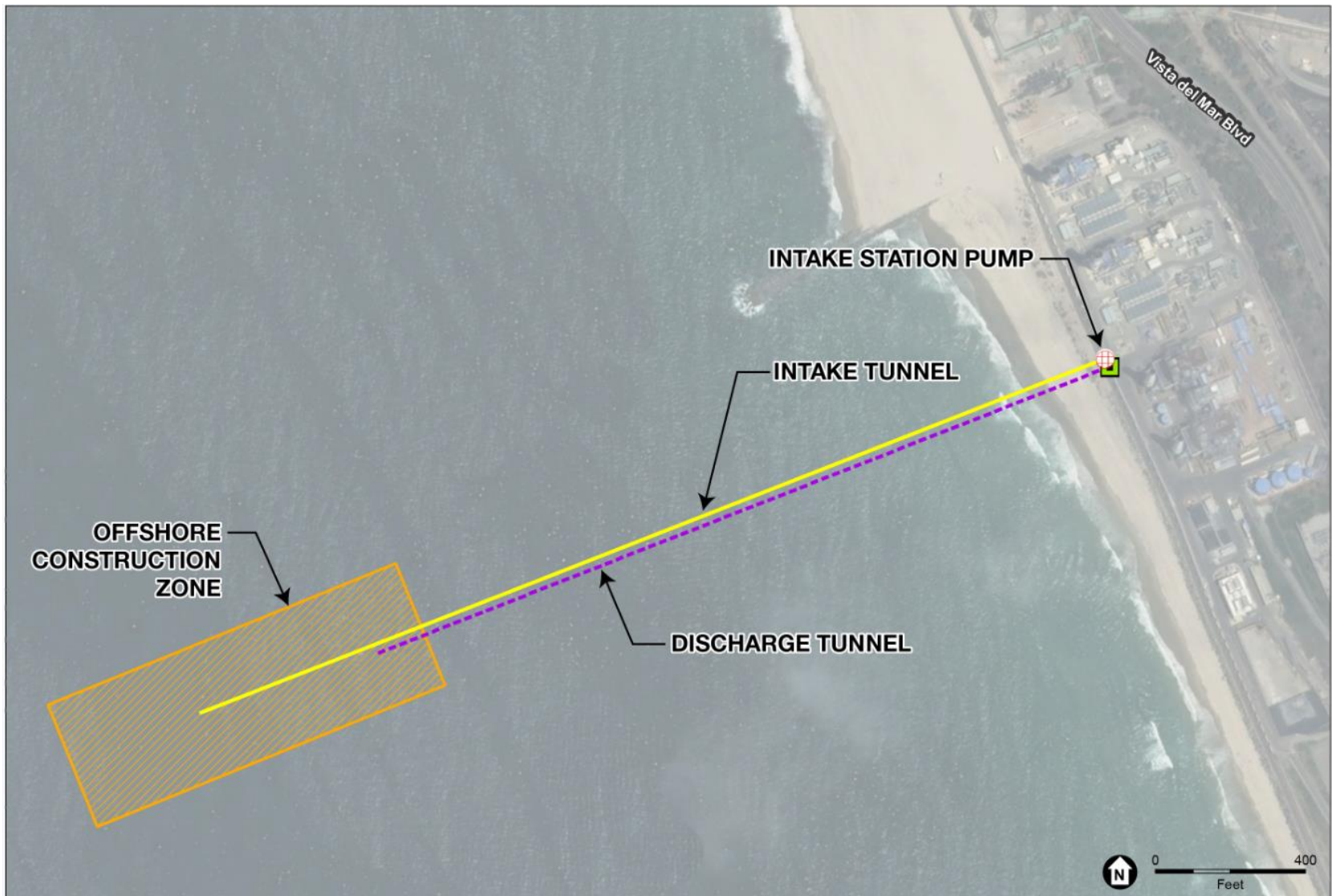


Existing Condition



North Site, El Segundo Generating Station

Intake and Discharge Facilities



LOS ANGELES

UNINCORPORATED

INGLEWOOD

105

405

W 120th St

UNINCORPORATED

HAWTHORNE

UNINCORPORATED

El Segundo Blvd

UNINCORPORATED

W 135th St

GARDENA

W Rosecrans Ave

UNINCORPORATED

LAWNDALE

UNINCORPORATED

TORRANCE

MANHATTAN BEACH

Manhattan Beach Blvd

45th St

Proposed Ocean Water Desalination Facility

105

405

W 120th St

W 135th St

W Rosecrans Ave

W 145th St

W 155th St

W 165th St

W 175th St

W 185th St

W 195th St

W 205th St

W 215th St

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Draft EIR Contents

Section 1, Executive Summary

Section 2, Introduction and Project Background

Section 3, Project Description

Section 4, Basis of Cumulative Analysis

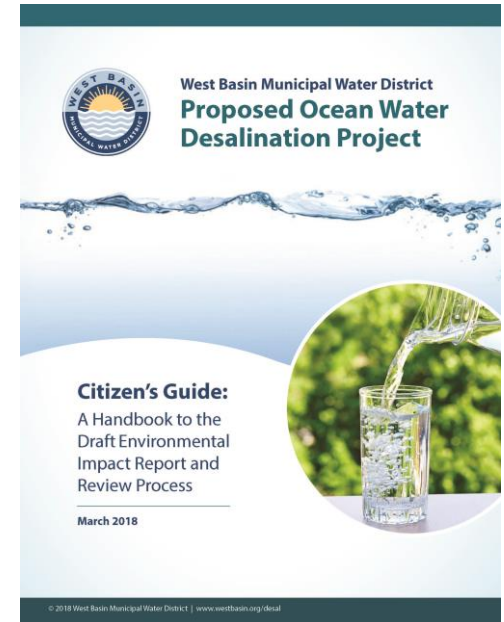
Section 5, Environmental Analysis

Section 6, Other CEQA Considerations

Section 7, Alternatives to the Proposed Project

Section 8, Effects Found Not to Be Significant

Section 9, List of Preparers



Section 5, Environmental Analysis

Resource	Significance Determination
Aesthetics	Less than Significant with Mitigation
Air Quality	Significant and Unavoidable during construction
Terrestrial Biological Resources	Less than Significant with Mitigation
Cultural Resources/Tribal Cultural Resources	Less than Significant with Mitigation
Geology, Soils, and Seismicity	Less than Significant
Energy	Less than Significant
Greenhouse Gas Emissions	Less than Significant with Mitigation
Hazards and Hazardous Materials	Less than Significant with Mitigation
Hydrology and Water Quality	Less than Significant with Mitigation
Land Use and Planning	Less than Significant
Marine Biological Resources	Less than Significant with Mitigation
Noise	Significant and Unavoidable during construction
Public Services	Less than Significant
Recreation	Less than Significant with Mitigation
Traffic and Transportation	Less than Significant with Mitigation
Utilities	Less than Significant

Report Availability and Public Comment

- **Comment Period**

- Tuesday, March 27, 2018 to Monday, **June 25, 2018, 5:00 P.M.** – *New 31 day extension*

- **Public Meetings**

Wednesday, April 25, 2018

6:00 P.M. – 9:00 P.M.

Richmond Street Elementary School
Auditorium

615 Richmond Street
El Segundo, CA 90245

Saturday, May 12, 2018

10:00 A.M. – 1:00 P.M.

**Richmond Street Elementary School
Auditorium**

**615 Richmond Street
El Segundo, CA 90245**

- **Submit Comments**

- **Mail:**

Desalination Draft EIR

Zita Yu, Ph.D., P.E., Project Manager
West Basin Municipal Water District

17140 South Avalon Boulevard,
Carson, CA 90746-1296

- **Email:**

DesalEIR@WestBasin.org

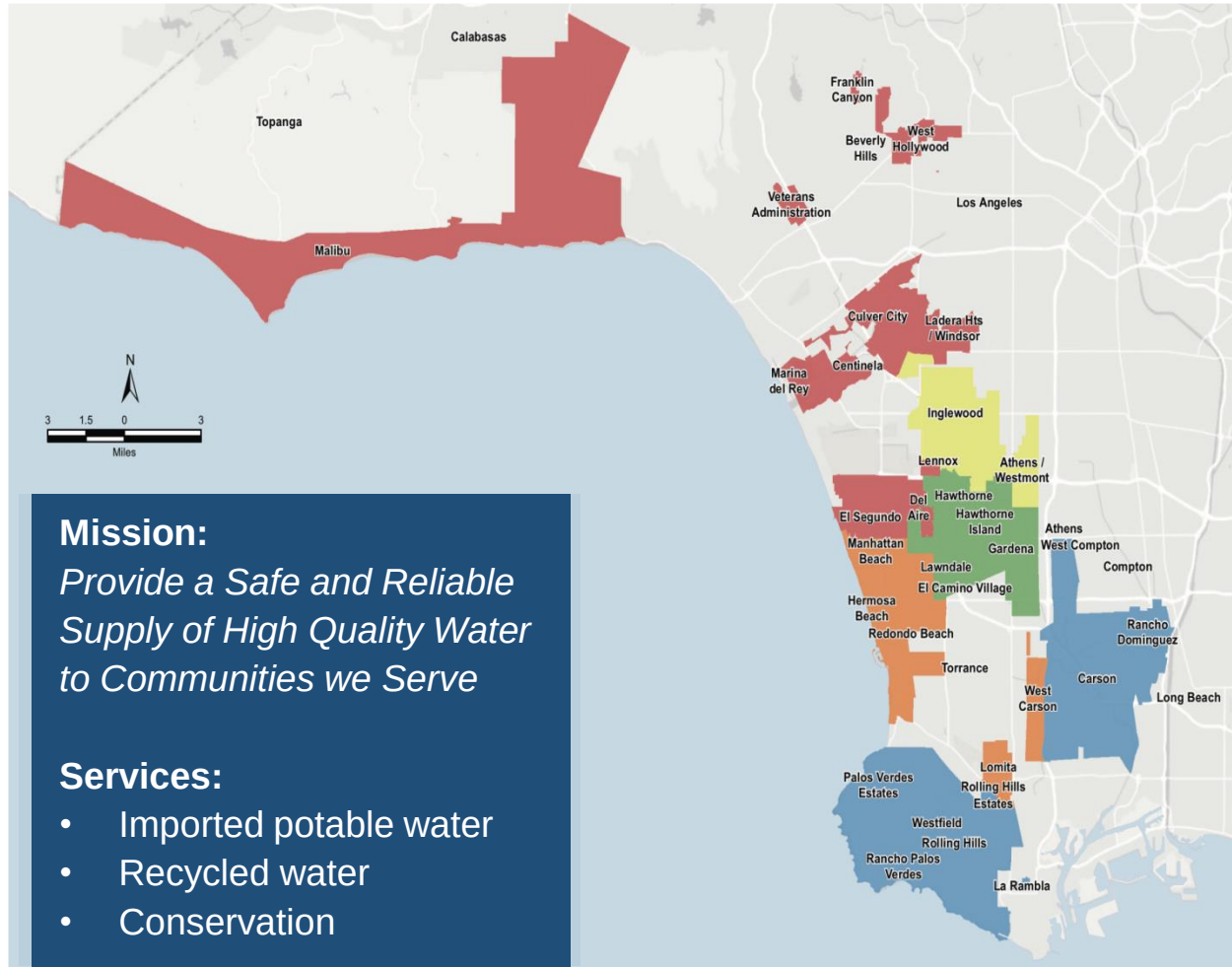
- **Online:**

Comment Form at
www.westbasin.org/desal

- **Draft EIR available**

- www.westbasin.org/desal (electronic copy)
 - West Basin Municipal Water District (hard copy)
 - 10 public libraries in the service area (hard copies)

West Basin Municipal Water District

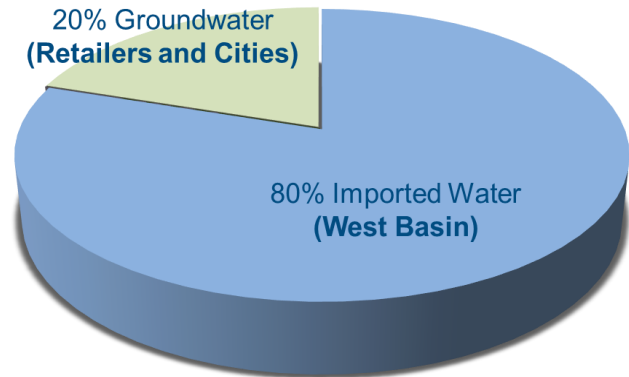


Water Supply Portfolio Diversification

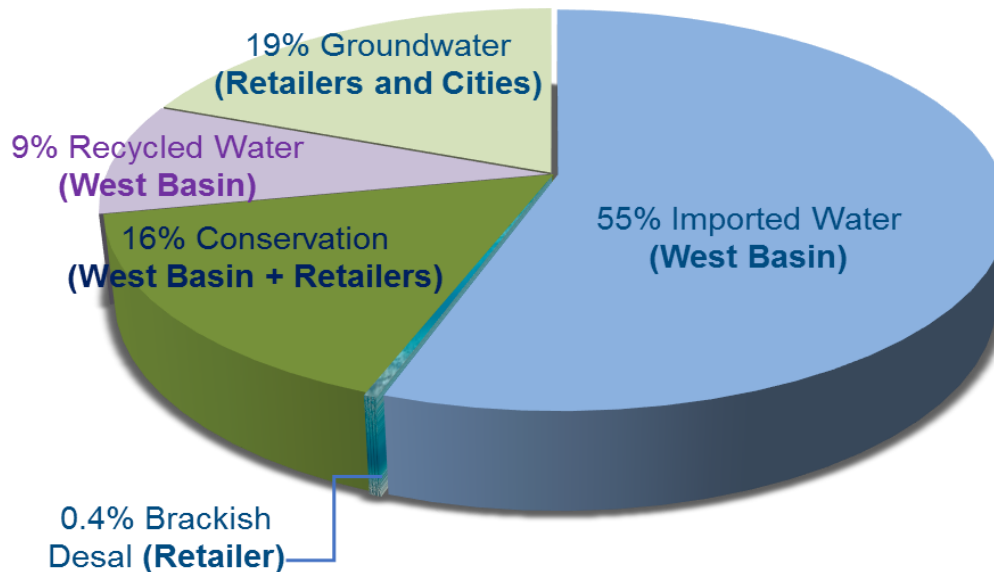
Pre-1947



1990



Current



West Basin Supplies:

- 1 Drinking
- 1 Non-drinking

Conservation Programs



Distributed over
300,000 water-saving
devices



300%
return on
investments for our
customers



Conserved more
than **167** billion
gallons of potable
water

Water Recycling



- Nearly **200 billion gallons** of water produced
- Over **13,000** visitors annually
- **Five** “designer” waters

Edward C. Little Water Recycling Facility
El Segundo, Calif.

El Segundo Generating Station Sites



Local Project North Site Comparison



Existing Condition



North Site, ESGS

Local Project South Site Comparison



Existing Condition



South Site, ESGS

Intake: Wedgewire Screens

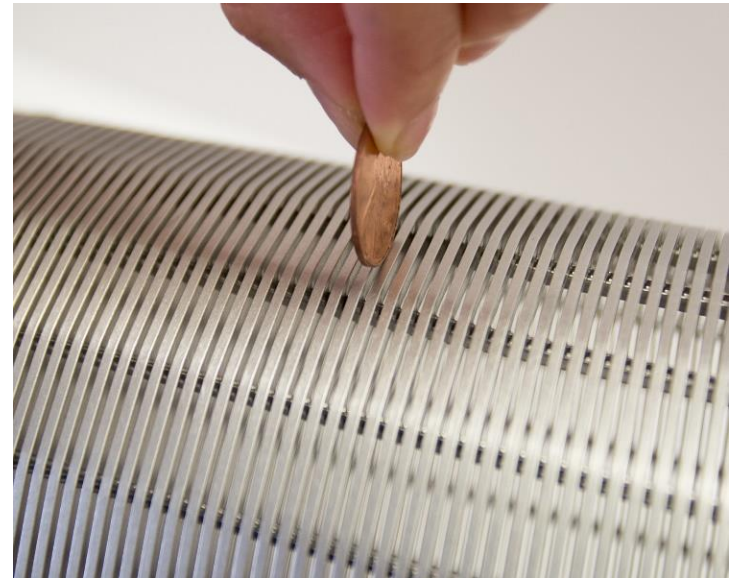
Ocean Plan Screen Requirements

Screen Opening Size

- 1 mm. (0.04 in.)

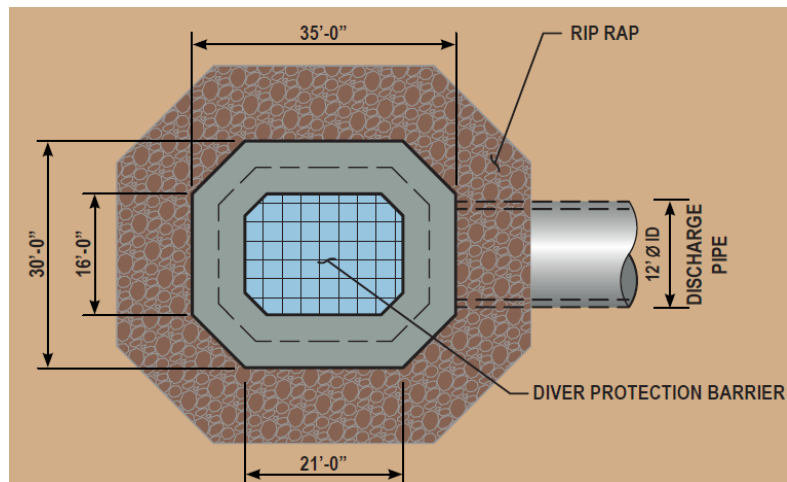
Through-screen Velocity

- Less than 0.5 feet per second

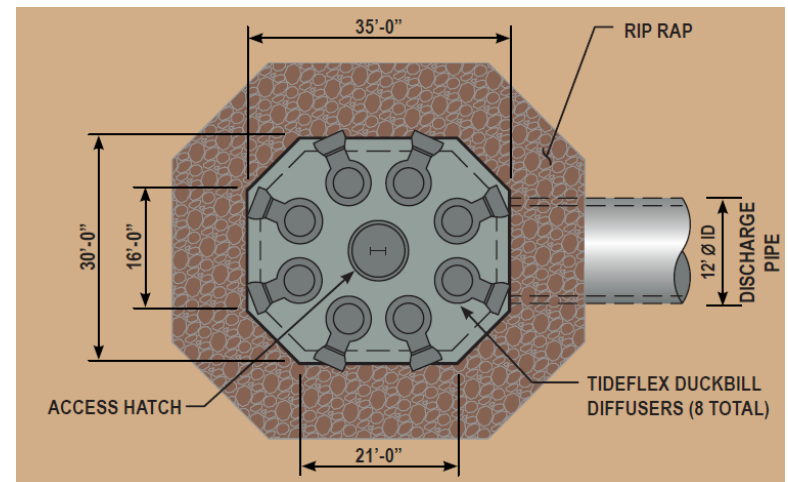


Discharge: Preliminary Concept

Existing



Proposed Conceptual



Highlights of Draft EIR Findings

Construction Phase

- Air
- Noise

Operational Phase

- Visual Character
- Ocean Water Quality
- Marine Biology
- Energy Use
- GHG Emissions
- Sea Level Rise

