



National Research Council
Pathways to Urban Sustainability
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Urban Sustainability

The Role of the Port of Long Beach



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Premier seaport
\$180 Billion in Trade
Leader in goods movement, environmental stewardship



Port of **LONG BEACH**
ENVIRONMENTAL
ACHIEVEMENT

Green Port Policy

Air

Water &

Sediments

Wildlife

Soil

Sustainability

Community

Engagement



Clean Air Action Plan

Air Quality

Decrease emissions from port operations

Diesel
Particulate
Matter:

Down **72%** 2014
77% 2023

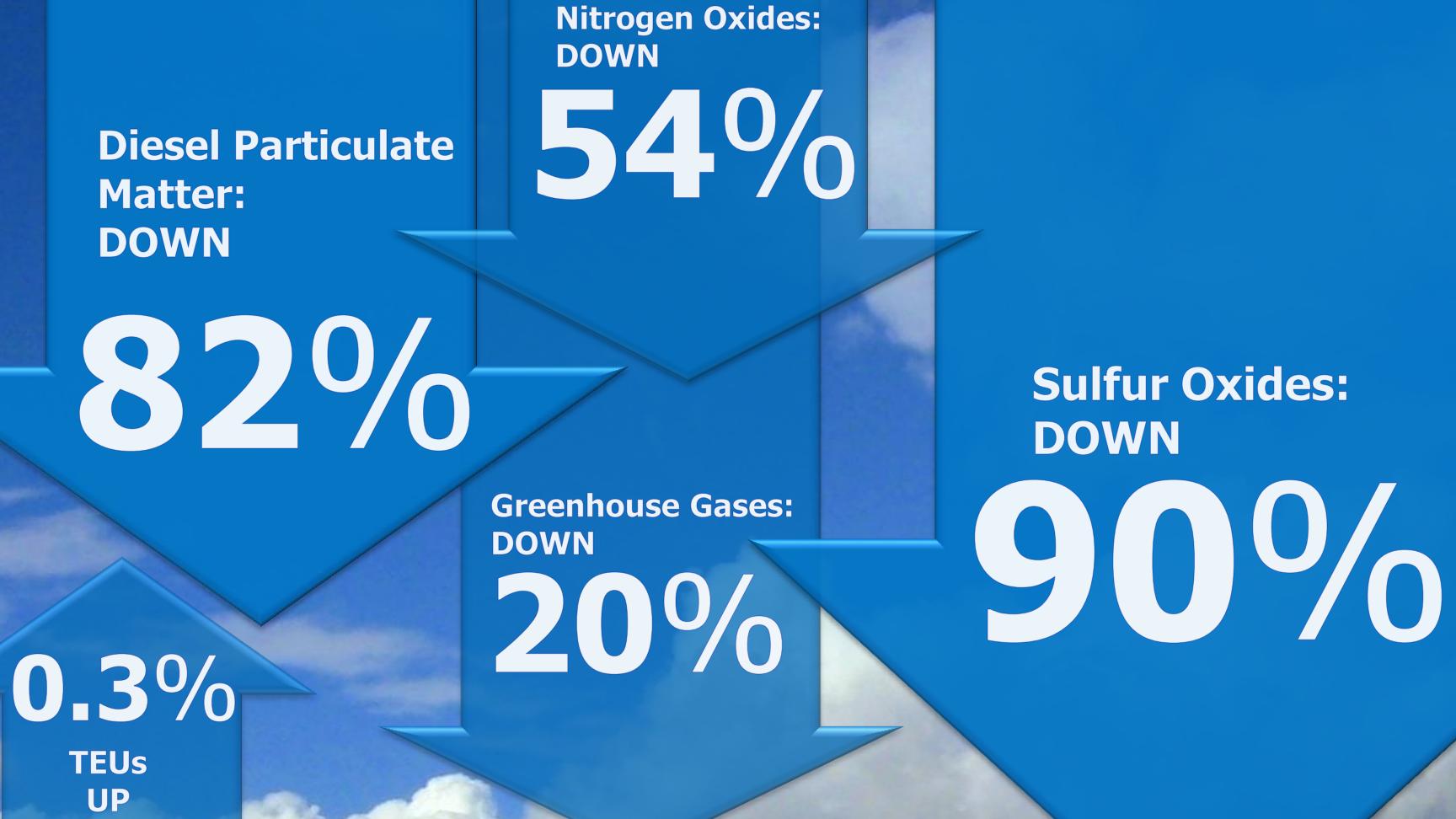
Nitrogen
Oxides:

Down **22%** 2014
50% 2023

Sulfur
Oxides:

Down **93%** 2014
93% 2023

Clean Air Goals
2014 and 2023





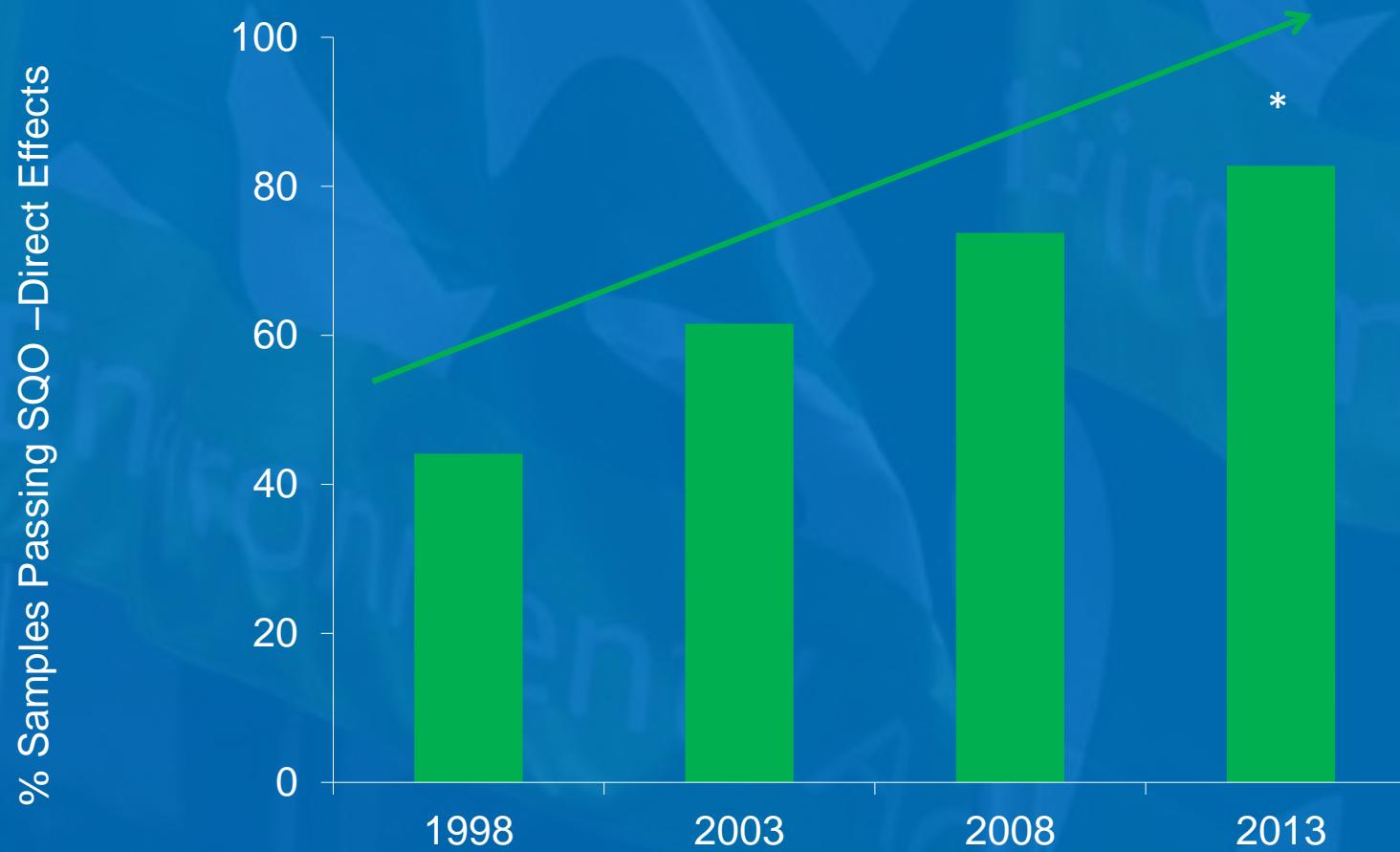
Water Resources Action Plan

Water & Sediment Quality

Improve water quality
Beneficially reuse sediments

Sediment Quality Objectives

Reduced Chemical Concentration, Toxicity, Benthic Impairment





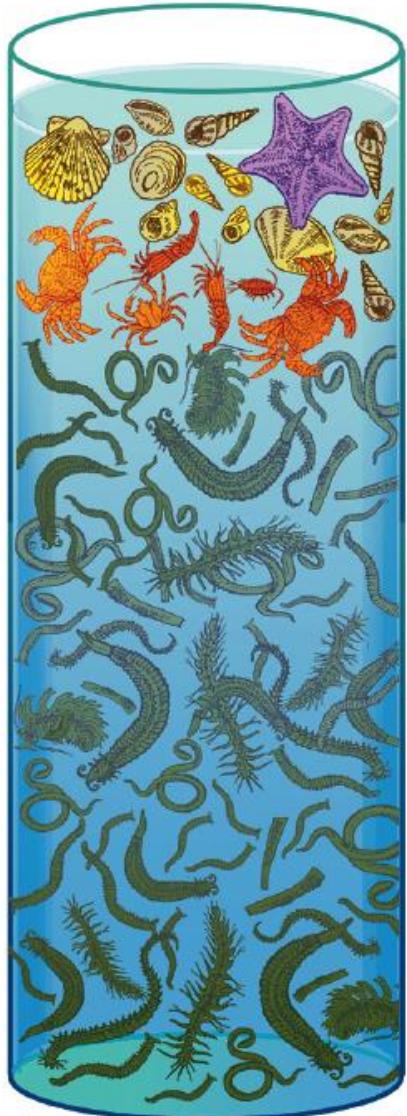
Wildlife

Increase diversity, population of species

San Pedro Bay Biological Survey

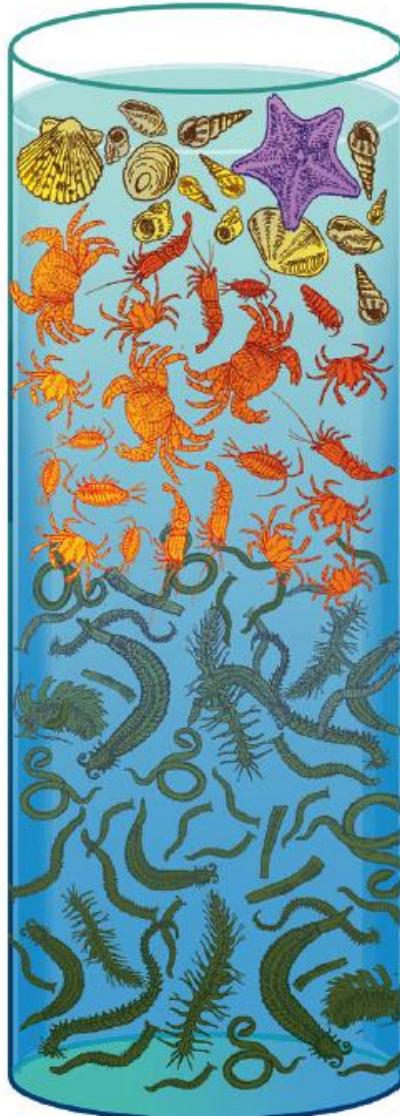
1988 SURVEY

Echinoderms	1%
Mollusks	9%
Crustaceans	5%
Polychaete Worms	80%



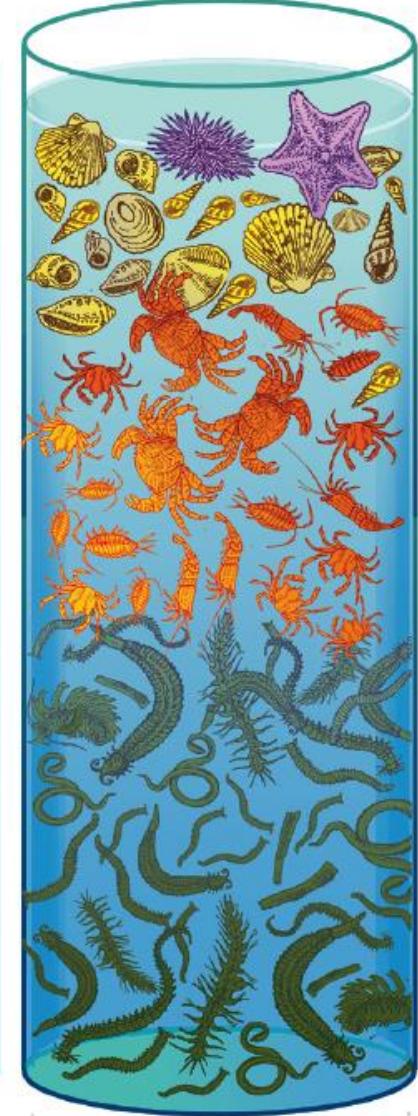
2000 SURVEY

Echinoderms	1%
Mollusks	9%
Crustaceans	23%
Polychaete Worms	65%



2008 SURVEY

Echinoderms	2%
Mollusks	19%
Crustaceans	30%
Polychaete Worms	48%





Soils

Return land to productive use



Sustainability

Implement sustainable practices into terminal
design, development and operations



Community Engagement

Involve and educate the community
about the port



Charging Forward Continued Commitment

Evolution of the Green Port Policy



Investing in the Port of the Future Capital Improvements

Electrified Operations, Efficiencies, On-dock Rail



Real-World Demonstrations Technology Advancement

Accelerate verification and commercial availability



Meeting Future Demand

Energy Programs

Cleaner Options, Support Port Operations



Climate Change

Adaptation & Resilience Planning

Assess, Develop Mitigation & Implement