

# Air Quality Report Card 2017

## SAN PEDRO BAY STANDARDS

The San Pedro Bay Standards establish the long-term emissions-reduction and health risk-reduction goals for the ports of Los Angeles and Long Beach. Emission Reduction Standard for DPM, NO<sub>x</sub>, and SO<sub>x</sub> have target years of 2014 and 2023 to support state ambient air quality goals. Health Risk Reduction Standard has a target year of 2020 to align with California Air Resources Board's Goods Movement Emission Reduction Plan.

# **CLEAN AIR ACTION PLAN (CAAP) GOALS**

(%	reduction	compared	to 2005)

	2014	2023
DPM	72%	77%
NO	22%	59%
SO	93%	93%
Health Risk	2020	85%



(% reduction in residential cancer risk compared to 2005)



# OVERALL EMISSIONS REDUCTIONS CY 2005-2017

Pollutant	%	tons
DPM	87%	765
PM <sub>2.5</sub>	85%	700
	86%	818
NOÜ	60%	9,670
so <sub>x</sub>	98%	4,862
PM <sub>2.5</sub> PM <sub>10</sub> NO <sub>x</sub>	85% 86% 60%	700 818 9,670

# EMISSIONS PER 10,000 TEU HANDLED REDUCTIONS CY 2005-2017

0000 -0		
Pollutant	%	tons
DPM	90%	1.05
PM <sub>2.5</sub>	88%	0.97
PM <sub>10</sub>	89%	1.13
NO	68%	14.65
SOĴ	98%	6.53



# OCEAN-GOING VESSEL EMISSIONS REDUCTIONS CY 2005-2017



Pollutant	%	tons
DPM	90%	420
PM <sub>2.5</sub>	87%	373
PM <sub>10</sub>	89%	474
NO	42%	2,234
SO	98%	4,712
^		

# HEAVY-DUTY VEHICLE/CLEAN TRUCK EMISSIONS REDUCTIONS CY 2005-2017

Pollutant	%	tons
DPM	96%	240
PM <sub>2.5</sub>	96%	229
PM <sub>10</sub>	96%	239
NO	76%	4,822
SO <sub>x</sub>	90%	41





### HARBOR CRAFT EMISSIONS REDUCTIONS CY 2005-2017

Pollutant	%	tons
DPM	57%	31
PM <sub>2.5</sub>	57%	29
PM <sub>10</sub>	57%	31
NO	48%	628
SOĴ	90%	6

### RAIL EMISSIONS REDUCTIONS CY 2005-2017

Pollutant	%	tons
DPM	48%	27
PM <sub>2.5</sub>	50%	26
PM <sub>10</sub>	48%	27
NOŰ	51%	873
so,	99%	97
^		



# CY 2005-2017

### CARGO HANDLING EQUIPMENT **EMISSIONS REDUCTIONS**

%	tons
90%	48
87%	43
87%	47
71%	1,112
80%	7
	90% 87% 87% 71%

### CO2 EQUIVALENT REDUCTIONS BY SOURCE TYPE CV 2005-2017

01 2003-2017		
Source Type	%	tons
Ocean-Going Vessels	27%	79,045
Harbor Craft	3%	1,649
Cargo Handling Equipment	-28%	-38,324
Rail	11%	8,855
<b>Heavy Duty Vehicles</b>	17%	79,310
TOTAL	13%	136,151



PRIMARY POLLUTANTS DEFINED:

DPM = Diesel Particulate Matter NO<sub>X</sub> = Oxides of Nitrogen SO<sub>x</sub> = Oxides of Sulfur

 ${\rm PM}_{2.5}={\rm Particulate}$  Matter less than 2.5 microns in diameter  ${\rm PM}_{10}={\rm Particulate}$  Matter less than 10 microns in diameter CC 2– Carbon Dioxide (A Green House Gas contributor)