

2005 AIR QUALITY 2015 REPORT CARD

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, NOx, and SOx have target years of 2014 and 2023 to support state ambient air quality aoals.
- 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 _x	22%	59%
SOx	93%	93%
Health Risk Reduction Standard	2020	85%

Health Risk Reduction Standard 2020 (% reduction in residential cancer risk compared to 2005)

OVERALL EMISSIONS REDUCTIONS CY 2005-2015



Pollutant	CY 2005-2015	
		tons
DPM	85%	743
PM _{2.5}	83%	683
PM ₁₀	84%	801
NOx	51%	8,324
SOx	97%	4,824

EMISSIONS PER 10,000 TEU HANDLED REDUCTIONS



Pollutant	CY 2005-2015	
		tons
DPM	86%	1.01
PM _{2.5}	84%	0.93
PM ₁₀	85%	1.09
NOx	55%	12
SOx	98%	6.46

OCEAN-GOING VESSEL EMISSIONS REDUCTIONS



Pollutant	CY 2005-2015	
		tons
DPM	87%	406
PM _{2.5}	84%	364
PM ₁₀	86%	465
NO _x	29%	1,511
SOx	97%	4,673

HEAVY-DUTY VEHICLE/CLEAN TRUCK **EMISSIONS REDUCTIONS**



Pollutant	CY 2005-2015	
		tons
DPM	97%	241
PM _{2.5}	97%	230
PM ₁₀	97%	240
NO _x	70%	4,411
SOx	91%	41

HARBOR CRAFT EMISSIONS REDUCTIONS



Pollutant	CY 2005-2015	
		tons
DPM	45%	25
PM _{2.5}	45%	23
PM ₁₀	45%	25
NOx	37%	493
SOx	89%	6

RAIL EMISSIONS REDUCTIONS



Pollutant	CY 2005-2015	
		tons
DPM	47%	26
PM _{2.5}	48%	25
PM _{x10}	47%	26
NOx	52%	893
SO _x	99%	97

CARGO HANDLING EQUIPMENT **EMISSIONS REDUCTIONS**



Pollutant	CY 2005-2015	
		tons
DPM	86%	46
PM _{2.5}	83%	41
PM ₁₀	83%	45
NOx	65%	1,016
SOx	81%	8

CO2 EQUIVALENT EMISSIONS BY SOURCE TYPE



PARTY CONTRACTOR CONTR	C 1 2	C1 2000-2010	
Source Type		tons	
Ocean-Going Vessels	13%	38,531	
Harbor Craft	-7%	-4,088	
Cargo Handling Equipment	-27%	-36,090	
Rail	17%	13,769	
Heavy-Duty Vehicles	19%	87,522	
TOTAL	10%	99,644	

PRIMARY POLLUTANTS DEFINED: DPM = Diesel Particulate Matter NO_x = Oxides of Nitrogen

PM_{2.5} = Particulate Matter less than 2.5 microns in diameter PM₁₀ = Particulate Matter less than 10 microns in diameter

CO₂ = Carbon Dioxide (A Green House Gas contributor)