

Total Maximum Daily Load Progress Report

Baby Beach in Dana Point Harbor Indicator Bacteria TMDL

Regional Water Board	San Diego, Region 9
Beneficial uses affected	REC-1
Pollutant(s) addressed:	Indicator Bacteria
Implemented through:	MS4, BMP
Approval date:	October 2009

STATUS

- Conditions Improving
- Data Inconclusive
- Improvement Needed
- TMDL Achieved/Waterbody Delisted

TMDL summary:

Baby Beach (BB) in Dana Point Harbor has historically exceeded the water quality objectives for indicator bacteria (total coliform, fecal coliform, and/or Enterococcus), threatening or impairing water contact (REC-1) beneficial use of the waterbody. BB was listed in the 2002 303(d) List for bacteria impairment. Available data indicate that water quality has improved since 1999, but BB is still impaired and should remain on the 303(d) List. The San Diego Water Board adopted a TMDL for indicate bacteria in June 2008, and US EPA approved it in October 2009. The TMDL was calculated through watershed and receiving water modeling using different numeric targets for wet weather (single sample maximum) and dry weather (single sample maximum and geometric mean) conditions. The TMDL is implemented through MS4 permit and BMPs.

Dana Point Harbor Watershed



TMDL Waste Load Allocations/Load Allocations

Indicator Bacteria	TMDL	Load Allocations	Wasteload Allocations
Dry Weather			
	Billion MPN/day	Billion MPN/day	Billion MPN/day
Total Coliform	5,430	5,429	0.86
Fecal Coliform	1,083	1,082	0.17
Enterococcus	187	187	0.03
Wet Weather			
	Billion MPN/30 day	Billion MPN/30 day	Billion MPN/30 day
Total Coliform	166,111	162,857	3,254
Fecal Coliform	32,585	32,473	112
Enterococcus	5,730	5,616	114

Water Quality Outcomes

- Based on the Annual Beach Report Card (BRC) published by Heal the Bay (<http://brc.healthebay.org/>), water quality with respect to indicator bacteria has improved for dry weather conditions (April to October). [The BRC grading system is based on scientific methods developed by governmental and research organizations, and is endorsed by the SWRCB. It uses a 100-point scale, with grades of A (90-100), B (80-89), C (70-79), D (60-69), and F (<60). The trend analysis is based on median BRC grades from four sampling locations in the BB area.]
- Water quality for wet weather show an improvement from 2004 to 2006, but a decreasing trend since then.
- Further improvement is needed in order to delist Baby Beach from the 303(d) List.

