California Regional Water Quality Control Board, Los Angeles Region

Tissue, Sediment and Benthic Infauna Data
Los Angeles River Estuary (Queensway Bay)

Summary of Proposed Action

Proposed New Listings

- "Not Supporting" (Impaired) for lead in sediments due to exceedances of sediment quality guidelines (Effects Range Median and/or Probable Effects Level) (ERM and/or PEL).
- "Not Supporting" (Impaired) for zinc in sediments due to exceedances of sediment quality guidelines (ERM and/or PEL).
- "Not Supporting" (Impaired) for chlordane in sediments due to exceedances of sediment quality guidelines (ERM and/or PEL).
- "Not Supporting" (Impaired) for DDT in sediments due to exceedances of sediment quality guidelines (ERM and/or PEL).
- "Not Supporting" (Impaired) for PCB in sediments due to exceedances of sediment quality guidelines (ERM and/or PEL).

These actions all affect the aquatic life beneficial uses.

Table 1. 303(d) Listing/TMDL Information

Waterbody Name	Los Angeles River Estuary (Queensway Bay)	**Pollutants/Stressors**	**Add**: Pb (Sediment); Zn (Sediment) chlordane (Sediment); DDT (Sediment); PCB (Sediment)
Hydrologic Unit	405.12	**Source(s)**	Historical use of pesticides and lubricants
Total Waterbody Size	3.71	**TMDL Priority**	Unit 73 (chlordane, DDT, PCB) Unit 75 (lead)
Size Affected	3.71	**TMDL Start Date (Mo/Yr)**	2004 (lead) 2005 (chlordane, DDT, PCB)
Extent of Impairment	Entire estuary	**TMDL End Date (Mo/Yr)**	2005 (lead) 2006 (chlordane, DDT, PCB)

Watershed Characteristics

The LA River tidal prism/estuary begins in Long Beach at Willow Street and runs approximately three miles before joining with Queensway Bay located between the Port of Long Beach and the city of Long Beach. The channel has a soft bottom in this reach with concrete-lined sides. Queensway Bay is heavily

water recreation-oriented; however, major pollutant inputs are likely more related to flows from the LA River which carries the largest storm flow of any river in southern California.

Water Quality Objectives Not Attained

Sediment Quality Guidelines (ERM and/or PEL)

Beneficial Uses Affected

Aquatic Life

Data Assessment

Sediment (92, 94): chlordane, DDT
Sediment (97, 98): lead,, zinc, PCB

Table 2. Summary of Sediment Data for Los Angeles River Estuary (Queensway Bay)

Dates of Sampling	9/2/92; 2/1/94; 10/15/94 1/6/97; 7/14/98; 2/5/01
Number of Samples (n)	1992: 6 samples (sediment); 1994: 3 samples (sediment) 1997: 13 samples (sediment); 1998: 5 samples (sediment) 2001: 9 samples (sediment)
Minimum Data Value	Lead: 35 ppm; Zinc: 37.8 ppm; Total PCB: 29 ppb Total chlordane: 12.3 ppb; Total DDT: 16.1 ppb
Maximum Data Value	Lead: 213 ppm; Zinc: 510 ppm; Total PCB: 397 ppb Total chlordane: 24.9 ppb; Total DDT: 75.8 ppb
Median Data Value	
Arithmetic Mean Value	
Standard Deviation	
Number (Percent) above Objective	Lead: 9 (19 %); Zinc: 5 (10 %); Total PCB: 5 (10 %) Total chlordane: 24 (49 %); Total DDT: 10 (21 %)

This table may summarize additional data not relevant to this factsheet that supports a continued listing for this waterbody.

Potential Sources

Historical use of pesticides and lubricants.

References

Bay Protection and Toxic Cleanup Program database.
U.S. Army Corps of Engineers EIS for Maintenance Dredging of Los Angeles River Estuary.