

Numeric Target - Definition

Numeric targets are specific goals for TMDLs that ensure protection of designated beneficial uses of waters and provide a basis for data analysis and allocations.

Numeric Targets for DAB TMDL

Organic	Previous Target (ug/kg)	Organic	Proposed Target (ug/kg)
Total PCBs	110	Total PCBs	168
Total Chlordane	2.8	Total Chlordane	2.1
Total PAHs	3,286	<u>PPPAHs</u>	2,965
Total Zinc	36	Total Zinc	182

Estimated Sediment Contaminant Concentrations Associated with Biological Impacts at San Diego Bay Clean-up Sites

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Confidence Limits (CL) for Sediment Organic Concentrations (ug/kg) for SQO Category 1 & 2 Sites in San Diego Bay.

Organic	95% St-t LCL	Mean	80% St-t UCL	90% St-t UCL	95% St-t UCL
tPCBs	59.3	109.1	139.2	155.1	168.3
tChlordane	0.49	1.61	1.86	1.99	2.10
PPPAHs	1715	2340	2658	2825	2965
tZinc		160			182

Percentiles for Organics Numeric Targets at SQO Category 1 & 2 Sites.

Organics	Obs	10%	25%	50%	75%	80%	90%	95%
tPCBs	75	0.1	3.1	9.6	21.7	29.4	397	559
tChlordane	60	0.2	0.6	0.6	0.6	1.7	5.7	5.7
PPPAHs	75	394	470	780	2698	3400	11396	11396
tZinc	75	81	100	125	180	199	302	325

Confidence Limits (CL) for Sediment Organic Concentrations (ug/kg) for SQO Category 3, 4, & 5 Sites in San Diego Bay.

Organic	95% St-t LCL	Mean	80% St-t UCL	90% St-t UCL	95% St-t UCL
tPCBs	119.7	149.3	164.0	171.7	178.1
tChlordane	7.15	9.68	10.99	11.68	12.25
PPPAHs	4243	5284	5814	6093	6325

Percentiles for Organics Numeric Targets at SQO Category 3, 4, & 5 Sites.

Organics	Obs	10%	20%	25%	50%	75%	90%	95%
tPCBs	113	3.1	9.6	9.6	90.3	196	369	509
tChlordane	95	0.2	0.2	0.6	5.0	13.0	29	36.3
PPPAHs	113	543	802	1165	4016	6738	9140	16160

Sediment and Fish Tissue Numeric Targets to meet for CPS TMDL

Organic in Sediment	Proposed Target (ug/kg)
Total PCBs	168
Total Chlordane	2.1
PPPAHs	2,965
Total Zinc	182

Total PCBs Fish Tissue Target	3.6 ug/kg ww
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Water Quality Criteria in the CA Toxics Rule To Be Used for Water Column Numeric Targets in the CPS TMDL

Pollutant	Criteria for the Protection of Aquatic Life		Human Health
	Saltwater Acute (ug/l)	Saltwater Chronic (ug/l)	Organisms Only (ug/l)
PCBs	n/a	0.03	0.00017
Chlordane	0.09	0.004	0.00059
Benzo(a) Pyrene	n/a	n/a	0.049
Zinc	90	81	n/a