

# Malibu Lagoon Restoration Plan

## Lagoon Technical Advisory Committee

### LTAC

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- John Callaway, University of San Francisco, Department of Environmental Science, 415-422-5702, [callaway@usfca.edu](mailto:callaway@usfca.edu)
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- Robert Gearheart, Humboldt State University, Department of Environmental Resources Engineering, 707-826-3135, [rag2@humboldt.edu](mailto:rag2@humboldt.edu)
- Martha Sutula, Southern California Coastal Water Research Project, 714-372-9222, [marthas@sccwrp.org](mailto:marthas@sccwrp.org)

#### **Richard Ambrose**

Dr. Ambrose is a leader in wetland ecology and restoration with over 15 years of experience. He has a Ph.D. from the University of California, Los Angeles and currently serves as an Associate Professor in the Environmental Science and Engineering Program in the Department of Environmental Health Sciences. His research interests include restoration ecology of coastal marine and estuarine environments, development and scientific evaluation of mitigation techniques, marine ecology, and the interface between environmental biology and resource management policy. Dr. Ambrose has worked on a variety of projects related to southern California coastal wetlands including development of a monitoring program for Malibu Creek and Lagoon, inventories of coastal wetland resources in Santa Barbara and Los Angeles Counties, and restoration planning at Mugu Lagoon.

#### **Andrew Brooks**

Dr. Brooks is an expert in the field of wetland ecology with over 10 years of experience. He has a PhD from the University of California, Santa Barbara and is currently an Assistant Research Biologist with UCSB's Marine Science Institute and the Director of

the Carpinteria Salt Marsh Reserve, a component of the University of California's Natural Reserve System. His research interests include the ecology and restoration of coastal salt marshes and estuaries, the population and community ecology of temperate and tropical subtidal fishes, and the effect of climate change on marine populations. Dr. Brooks has helped to design monitoring programs for restoration projects involving the Carpinteria Salt Marsh and San Diegito Lagoon. He is a lead scientist with the Pacific Estuarine Ecosystem Indicators Research Consortium, a nationally funded EPA center tasked with the development of new indicators of wetland ecosystem functioning and the design of new techniques in wetlands monitoring.

### **John Callaway**

Dr. Callaway is an expert in wetland restoration and ecology and is currently an Assistant Professor in the Environmental Science Department at the University of San Francisco. Previously he served as Associate Director of the Pacific Estuarine Research Laboratory (PERL) which specializes in coastal wetland restoration in southern California. He has a Ph.D. in Oceanography and Coastal Sciences from Louisiana State University with an emphasis in wetland ecology. Dr. Callaway's recent research projects include evaluating the relationship between plant diversity and ecosystem function in restored coastal wetlands, assessing impacts of sedimentation on coastal wetlands, and evaluating the importance of tidal creek networks for the development of restored wetlands.

### **Kimball Garrett**

Mr. Garrett has served as the Ornithology Collections Manager at the Natural History Museum of Los Angeles County since 1982. He received his undergraduate degree in Zoology from the University of California at Berkeley, and did graduate work in biology at UCLA. Mr. Garrett is recognized as an authority on the birds of southern California, and particularly in the Los Angeles county area. He is coauthor of "Birds of Southern California: Status and Distribution" (Los Angeles Audubon Society, 1981) and since 1979 has served as the Los Angeles County sub-regional editor for the journal North American Birds (formerly American Birds). He has observed birds and kept field notes at Malibu Lagoon for nearly 30 years. His research interests include (1) the status and distribution of birds in Los Angeles County, (2) the ecology of introduced, non-native birds in California, and (3) the population ecology of skimmers and terns in coastal southern California, the Salton Sea, and northwestern Mexico.

### **Robert Gearheart**

Dr. Gearheart is a leader in water and wastewater treatment and constructed wetland wastewater treatment with over 25 years of experience. He has a Ph.D. in Civil Engineering from the University of Oklahoma and is a State of California Registered Civil Engineer. Dr. Gearheart is currently a Professor in the Department of

Environmental Resources Engineering at Humboldt State University and is the Director of the wetland treatment pilot project, City of Arcata/HSU Test Facility. His research interests include point and non-point source pollution marsh treatment systems, use of wetlands for denitrification and perchlorate removal, and the role of wetland restoration in watershed management. Dr. Gearheart's experience includes consultation on over 50 projects around the world focused on water and wastewater treatment, effluent polishing, and habitat enhancement.

### **Martha Sutula**

Dr. Sutula is a senior scientist at the Southern California Coastal Water Research Project with expertise in the ecology and biogeochemistry of wetland ecosystems. Dr. Sutula received a bachelors degree in Chemistry from Purdue University in 1987 and a doctorate degree in Estuarine Ecology from Louisiana State University in 1999. Her current research themes at SCCWRP include understanding the processes controlling nutrient and contaminant cycling in coastal lagoons such as Malibu Lagoon and developing wetland inventory, monitoring and assessment tools. She also serves as a member of the Southern California Wetland Recovery Project Science Advisory Panel.