

Ken Schiff

Deputy Director

Administration

Southern California Coastal Water Research Project

Education

M.S., biology, California State University, Long Beach. 1988

B.S., biology, California State University, San Diego. 1984

Professional Experience

Deputy Director, Southern California Coastal Water Research Project. Costa Mesa, CA. 1995-present

Instructor, California State University, San Marcos. San Marcos, CA. 1995-1996

Senior Scientist, Kinnetic Laboratories, Inc. Carlsbad, CA. 1991-1995

Assistant Environmental Specialist, Southern California Coastal Water Research Project. Long Beach, CA. 1988-1991

Marine Biologist, Channel Islands National Park Service. Ventura, CA. 1987-1988

Teaching Assistant/Intern Coordinator, California State University, Long Beach. Long Beach, CA. 1985-1988

Biologist Intern, State of California Department of Fish and Game. Los Alamitos, CA. 1984-1985

Independent Marine Technician. 1984-1988

- Scripps Institute of Oceanography/National Marine Fisheries Service
- USC/Harbors Environmental Project
- Los Angeles County Sanitation Districts
- Southern California Ocean Studies Consortium

- Molecular Ecology Institute

Honors and Awards

Academic Scholarship, Southern California Ocean Studies Consortium
First Annual Marine Biology Alumni Award 2006

Professional Appointments

Editor, Marine Pollution Bulletin (2012-2024)

National Watershed Research Council, Center for Watershed Protection (2021-present)

NOAA National Status and Trends Review Committee, West Coast Data Portal (2023-present)

Independent Technical Review Committee, Los Angeles River Zinc Water Quality Objective
Recalculation (2023-present)

Technical Review Committee, Dominguez Channel Emergency Response Event (2021)

Technical Reviewer, West Point Sewage Treatment Plant Impacts on Puget Sound, King County
Department of Natural Resources (2021)

Technical Review Committee, Los Angeles County Flood Control District, Watershed Management
Model System (2019-2022)

Technical Review Committee, Site-Specific Objectives development for Human *Bacteroides*
HF183, San Diego Regional Water Quality Control Board (2019-2021)

Technical Review Committee, Los Angeles County Flood Control District, Surface Water-
Groundwater Study (2020-present)

Expert Panel, King County Swimming Beach Fecal Contamination Study (2019-2021)

Expert Reviewer, National Academy of Sciences Panel on Industrial Stormwater General Permit
Discharges (2019)

Technical Advisory Committee, Industrial Environmental Association Stormwater Methods
Evaluation (2018-2019)

Marine Protected Area Roundtable Expert; University of California Irvine, School of Law, Center
for Land, Environment, and Natural Resources; (2016-2017)

Member (alternate), California Water Quality Monitoring Council (2014-2021)

Guest Editor, Regional Studies in Marine Science (2014-2016)

Chair, Southern California Bight Regional Marine Monitoring Executive Advisory Committee
(2002-present)

Chair, Southern California Bight Regional Marine Monitoring Contaminant Impact Assessment
Planning Committee (2002-present)

Executive Management Committee, Southern California Stormwater Monitoring Coalition (2001-
present)

Expert Panel on Water Quality Monitoring and Assessment, King County Washington, (2013-2017)

Dean's Advisory Council, Department of Natural Resources, California State University Fullerton (2010-2016)

Editor, SCCWRP Annual Report (2011, 2013)

National Conference Planning Committees:

National Stormwater Conference, Center for Watershed Protection (2018-present)

International Water Association (IWA) Diffuse Pollution Conference (2017)

California Stormwater Quality Association (CASQA) Annual Conference (2015-2020)

Society of Environmental Toxicology and Chemistry North America Annual Meeting (SETAC) (2012)

Water Environment Research Foundation (WERF) Total Maximum Daily Load Specialty Conference (2007, 2011)

National Water Quality Monitoring Conference (2019)

University Review Committee, California State University Long Beach Institute for Integrated Research, Materials, Environment and Society (IIRMES) (2009)

President, Society of Toxicology and Chemistry, Southern California Chapter (2006-2008)

State Water Resources Control Board, Expert Panel on Natural Water Quality (2005-2007)

Governing Board, Society of Toxicology and Chemistry, Southern California Chapter (2004-2006)

State Water Resources Control Board, Blue Ribbon Panel on Numeric Effluent Limits for Stormwater Discharges (2002-04)

NOAA National Status and Trends Review Committee (2001)

Cooperative Institute for Coastal and Environmental Technology, Review Committee (2000)

California SeaGrant, Review Committee Member (2000)

Southern California Society of Environmental Toxicology and Chemistry Student Grant Award, Review Committee Member (2006-present)

Journal Reviewer (Marine Pollution Bulletin, Environmental Science & Technology, Water Research, Science of the Total Environment, Journal American Water Resources Association, Marine Environmental Research, Marine Biology, Water, Urban Water, Southern California Academy of Sciences, Regional Studies in Marine Science, Water Environmental Research)

Professional Societies and Certifications

International Water Association

American Water Resources Association

Water Environment Federation

National Society of Environmental Toxicology and Chemistry and Southern California/Southwest Chapter

Center for Watershed Protection

Southern California Association of Marine Invertebrate Taxonomists

Southwestern Association of Freshwater Invertebrate Taxonomists
Southern California Association of Ichthyologists and Ecologists
Southern California Academy of Sciences
U.S. Coast Guard Small Boat Handler
NAUI Scuba Diver, Research Scuba Diver
OSHA Enclosed Space Entry
IWSSA Senior Windsurf Instructor
American Red Cross (CPR, Adv First Aid, Adv Lifesaving, WSI, Offshore Survival)

Journal Articles

Ryan, A.C., R.C. Santore, K.C. Schiff. 2026. An Updated Unified Zinc Biotic Ligand Model for Protection of Freshwater Aquatic Life and its Application for Site-Specific Water Quality Objectives. *Integrated Environmental Assessment and Management* DOI:10.1093/inteam/vjag031.

Schiff, K.C., L.L. Tiefenthaler, J. Westfall, M. Mori, K. Kelly, R. Kempster, A. Latker, E. Moon, N. Searing, D. Tang, J. Bennett. 2026. Quantifying ocean monitoring effort and cost in the Southern California Bight over the last 25 years. *Journal of Environmental Management* 397:128383.

Fassman-Beck, E., E.D. Tiernan, K.L. Cheng, K.C. Schiff. 2025. A data-driven index for evaluating BMP water quality performance. *Water Research* 282:123769.

Steele, J.A., A.G. Zimmer-Faust, T.J. Clerkin, A. Gonzalez-Fernandez, S.A. Lowry, A.D. Blackwood, K. Raygoza, K. Langlois, A.B. Boehm, R.T. Noble, J.F. Griffith, K.C. Schiff. 2025. Survey of pathogens and human fecal markers in stormwater across a highly populated urban region. *Environmental Science: Processes & Impacts* 27:1354-1367.

Lowry, S.A., J.A. Steele, J.F. Griffith, K.C. Schiff, A.B. Boehm. 2025. Simulated gastrointestinal risk from recreational exposure to Southern California stormwater and relationship to human-associated Bacteroidales marker HF183. *Environmental Science: Processes & Impacts* DOI:10.1039/d4em00577e.

Griffith, J.F., J.A. Steele, A. Gonzalez-Fernandez, K.C. Schiff. 2025. Towards quantifying exfiltration from in situ sanitary sewer pipes. *Frontiers in Environmental Science* DOI:10.3389/fenvs.2024.1458146.

Steele, J.A., A. Gonzalez-Fernandez, J.F. Griffith, D. Ebentier McCargar, S. Wallace, K.C. Schiff. 2025. Extrapolating empirical measurements of wastewater exfiltration from sanitary sewers to estimate watershed-scale fecal pollution loading in urban stormwater runoff. *Frontiers in Environmental Science* DOI:10.3389/fenvs.2024.1458153.

McGill, L., T. Sleugh, C. Petrik, K.C. Schiff, K. McLaughlin, L. Aluwihare, B. Semmens. 2024. The persistent DDT footprint of ocean disposal, and ecological controls on bioaccumulation in fishes. *Proceedings of the National Academy of Sciences* 121:2401500121.

Schiff, K.C., A. Zimmer-Faust, D. Nguyen, J.F. Griffith, J.A. Steele, D.E. McCargar, S. Wallace. 2024. Using HF183 to Estimate Watershed-Wide Annual Loadings of Human Fecal Pollution from Onsite Wastewater Treatment Systems. *Sustainability* 16:9503.

Hinds, J.B., T. Garg, S. Hutmacher, A. Nguyen, Z. Zheng, J.F. Griffith, J.A. Steele, A. Gonzalez Fernandez, K.C. Schiff. 2024. Assessing the defecation practices of unsheltered individuals and their contributions to microbial water quality in an arid, urban watershed. *Science of the Total Environment* 920:170708.

McLaughlin, K., R.D. Mazor, M. Sutula, K.C. Schiff. 2023. Regional assessment of trash in Southern California coastal watersheds, United States. *Frontiers in Environmental Science* 11:1210201.

Schiff, K.C., J.F. Griffith, J.A. Steele, A.G. Zimmer-Faust. 2023. Dry and Wet Weather Survey for Human Fecal Sources in the San Diego River Watershed. *Water* 15:2239.

Wade, T.J., B.F. Arnold, K.C. Schiff, J.M. Colford Jr, S.B. Weisberg, J.F. Griffith, A.P. Dufour. 2022. Health risks to children from exposure to fecally-contaminated recreational water. *PLOS One* DOI:10.1371/journal.pone.0266749.

Du, B., W. Lao, C.S. Wong, K. McLaughlin, K.C. Schiff. 2021. Scrutinizing surficial sediment along a 600-km-long urban coastal zone: Occurrence and risk assessment of fipronil and its three degradates. *Science of the Total Environment* DOI:10.1016/j.scitotenv.2021.151071.

McLaughlin, K., J. Davis, A. Bonnema, B. Du, G. Ichikawa, W. Jakl, W. Heim, K.C. Schiff. 2021. Regional assessment of contaminant bioaccumulation in sport fish tissue in the Southern California Bight, USA. *Marine Pollution Bulletin* DOI:10.1016/j.marpolbul.2021.112798.

Gillett, D.J., L. Gilbane, K.C. Schiff. 2021. Characterizing Community Structure of Benthic Infauna From the Continental Slope of the Southern California Bight. *Frontiers in Marine Science* DOI:10.3389/fmars.2021.605858/full.

Schiff, K.C., S.M. Bay. 2020. In Memoriam: Donald J Reish. *Zoosymposia* DOI:10.11646/zoosymposia.19.1.4.

Zimmer-Faust, A.G., J.A. Steele, J.F. Griffith, K.C. Schiff. 2020. The challenges of microbial source tracking at urban beaches for Quantitative Microbial Risk Assessment (QMRA). *Marine Pollution Bulletin* DOI:10.1016/j.marpolbul.2020.111546.

Tirpak, R.A., N. Afrooz, R.J. Winston, R. Valenca, K.C. Schiff, S.K. Mohanty. 2020. Conventional and amended bioretention soil media for targeted pollutant treatment: A critical review to guide the state of the practice. *Water Research* DOI:10.1016/j.watres.2020.1166480.

Gillett, D.J., L. Gisbane, K.C. Schiff. 2020. Benthic habitat condition of the continental shelf surrounding oil and gas platforms in the Santa Barbara Channel, Southern California. *Marine Pollution Bulletin* DOI:10.1016/j.marpolbul.2020.111662.

DeFlorio-Barker, S., D. Holman, R. Landolfi, B.F. Arnold, J.M. Colford, S.B. Weisberg, K.C. Schiff, E.A. Sams, T.J. Wade. 2020. Incidence and public health burden of sunburn among beachgoers in the United States. *Preventive Medicine* DOI:10.1016/j.ypmed.2020.106047.

Beck, M., R.D. Mazor, S. Theroux, K.C. Schiff. 2019. The Stream Quality Index: A multi-indicator tool for enhancing environmental management. *Environmental and Sustainability Indicators* DOI:10.1016/j.indic.2019.100004.

Coates, J., K.C. Schiff, R.D. Mazor, D.J. Pondella II, R.A. Schaffner, E. Whiteman. 2018. Development of a biological condition assessment index for shallow, subtidal rocky reefs in Southern California, USA. *Marine Ecology* DOI:10.1111/maec.12471.

Clatterbuck, C.A., R.L. Lewison, N.G. Dodder, C. Zeeman, K.C. Schiff. 2018. Seabirds as regional biomonitors of legacy toxicants on an urbanized coastline. *Science of the Total Environment* DOI:10.1016/j.scitotenv.2017.

Steele, J.A., A.D. Blackwood, J.F. Griffith, R.T. Noble, K.C. Schiff. 2018. Quantification of pathogens and markers of fecal contamination during storm events along popular surfing beaches in San Diego, California. *Water Research* 136:137-149.

Arnold, B.F., K.C. Schiff, A. Ercumen, J. Benjamin-Chung, J.A. Steele, J.F. Griffith, S.J. Steinberg, P.D. Smith, C.D. McGee, R. Wilson, C. Nelsen, S.B. Weisberg, J.M. Colford Jr. 2017. Acute Illness Among Surfers After Exposure to Seawater in Dry- and Wet-Weather Conditions. *American Journal of Epidemiology* 186:866-875.

Benjamin-Chung, J., B.F. Arnold, T.J. Wade, K.C. Schiff, J.F. Griffith, A.P. Dufour, S.B. Weisberg, J.M. Colford Jr. 2017. Coliphages and gastrointestinal illness in recreational waters: pooled analysis of six coastal beach cohorts. *Epidemiology* 28:644-652.

Soller, J.A., M. Schoen, J.A. Steele, J.F. Griffith, K.C. Schiff. 2017. Incidence of gastrointestinal illness following wet weather recreational exposures: Harmonization of quantitative microbial risk assessment with an epidemiologic investigation of surfers. *Water Research* 121:280-289.

DeFlorio-Barker, S., B.F. Arnold, E.A. Sams, A.P. Dufour, J.M. Colford Jr, S.B. Weisberg, K.C. Schiff, T.J. Wade. 2017. Child environmental exposures to water and sand at the beach: Findings

from studies of over 68,000 subjects at 12 beaches. *Journal of Exposure Science and Environmental Epidemiology* DOI:10.1038/jes.2017.23.

Davis, J.A., J.R.M. Ross, S. Bezalel, L. Sim, A. Bonnema, G. Ichikawa, W.A. Heim, K.C. Schiff, C.A. Eagles-Smith, J.T. Ackerman. 2016. Hg concentrations in fish from coastal waters of California and Western North America. *Science of the Total Environment* 568:1146-1156.

Schiff, K.C., P.R. Trowbridge, E.T. Sherwood, P. Tango, R.A. Batiuk. 2016. Regional monitoring programs in the United States: Synthesis of four case studies from Pacific, Atlantic, and Gulf Coasts. *Regional Studies in Marine Science* 4:A1-A7.

Ode, P.R., A.C. Rehn, R.D. Mazor, K.C. Schiff, E.D. Stein, J.T. May, L.R. Brown, D.B. Herbst, D.J. Gillett, K. Lunde, C.P. Hawkins. 2016. Evaluating the adequacy of a reference-site pool for ecological assessments in environmentally complex regions. *Freshwater Science* 35:237-248.

Mazor, R.D., A.C. Rehn, P.R. Ode, M. Engeln, K.C. Schiff, E.D. Stein, D.J. Gillett, D.B. Herbst, C.P. Hawkins. 2016. Bioassessment in complex environments: designing an index for consistent meaning in different settings. *Freshwater Science* 35:249-271.

Arnold, B.F., T.J. Wade, J. Benjamin-Chung, K.C. Schiff, J.F. Griffith, A.P. Dufour, S.B. Weisberg, J.M. Colford Jr. 2016. Acute Gastroenteritis and Recreational Water: Highest Burden Among Young US Children. *American Journal of Public Health* 9:1690-1697.

Griffith, J.F., S.B. Weisberg, B.F. Arnold, Y. Cao, K.C. Schiff, J.M. Colford Jr. 2016. Epidemiologic evaluation of multiple alternate microbial water quality monitoring indicators at three California beaches. *Water Research* 94:371-381.

Sato, K.N., L.A. Levin, K.C. Schiff. 2016. Habitat compression and expansion of sea urchins in response to changing climate conditions on the California continental shelf and slope (1994-2013). *Deep-Sea Research II* 137:377-389.

Schiff, K.C., L.L. Tiefenthaler, S.M. Bay, D.J. Greenstein. 2016. Effects of Rainfall Intensity and Duration on the First Flush from Parking Lots. *Water* 8:320.

Schiff, K.C., J.S. Brown, S. Trump, D. Hardin. 2016. Near-Coastal Water Quality at Reference Sites Following Storm Events. *Marine Pollution Bulletin* 103:294-300.

Schiff, K.C., D.J. Greenstein, N. Dodder, D.J. Gillett. 2015. Southern California Bight regional monitoring. *Regional Studies in Marine Science* 4:34-46.

May, J.T., L.R. Brown, A.C. Rehn, I.R. Waite, P.R. Ode, R.D. Mazor, K.C. Schiff. 2015. Correspondence of biological condition models of California streams at statewide and regional scales. *Environmental Monitoring and Assessment* 187:4086.

Pondella II, D.J., J.P. Williams, J. Claisse, R.A. Schaffner, K. Ritter, K.C. Schiff. 2015. The Physical Characteristics of Nearshore Rocky Reefs in The Southern California Bight. *Bulletin of the Southern California Academy of Sciences* 114:105-122.

Schiff, K.C., B. Luk, D. Gregorio. 2015. Impact of Stormwater Discharges on Water Quality in Coastal Marine Protected Areas. *Water Environment Research* 87:772-782.

Yau, V.M., K.C. Schiff, B.F. Arnold, J.F. Griffith, J.S. Gruber, C.C. Wright, T.J. Wade, S. Burns, J.M. Hayes, C. McGee, M. Gold, Y. Cao, A.B. Boehm, S.B. Weisberg, J.M. Colford Jr. 2014. Effect of submarine groundwater discharge on bacterial indicators and swimmer health at Avalon Beach, CA, USA. *Water Research* 59:23-36.

Mazor, R.D., E.D. Stein, P.R. Ode, K.C. Schiff. 2014. Integrating intermittent streams into watershed assessments: applicability of an index of biotic integrity. *Freshwater Science* 33:459-474.

Rogowski, P.A., E. Terrill, K.C. Schiff, S.Y. Kim. 2014. An assessment of the transport of southern California stormwater ocean discharges. *Marine Pollution Bulletin* 90:135-142.

Sapozhnikova, Y., E. Wirth, K.C. Schiff, M. Fulton. 2013. Antifouling biocides in water and sediments from California marinas. *Marine Pollution Bulletin* 69:189-194.

Greenstein, D.J., S.M. Bay, M. Jacobe, C. Barton, K. Sakamoto, D. Young, K. Ritter, K.C. Schiff. 2013. Regional assessment of marine and estuarine sediment toxicity in Southern California, USA. *Environmental Monitoring and Assessment* 185:2055-2065.

Arnold, B.F., K.C. Schiff, J.F. Griffith, J.S. Gruber, V. Yau, C.C. Wright, T.J. Wade, S. Burns, J.M. Hayes, C. McGee, M. Gold, Y. Cao, S.B. Weisberg, J.M. Colford Jr. 2013. Swimmer illness associated with marine water exposure and water quality indicators: Impact of widely used assumptions. *Epidemiology* 24:845-853.

Colford Jr, J.M., K.C. Schiff, J.F. Griffith, V. Yau, B.F. Arnold, C.C. Wright, J.S. Gruber, T.J. Wade, S. Burns, J. Hayes, C. McGee, M. Gold, Y. Cao, R.T. Noble, R. Haugland, S.B. Weisberg. 2012. Using rapid indicators for Enterococcus to assess the risk of illness after exposure to urban runoff contaminated marine water. *Water Research* 46:2176-2186.

Miller, E.F., K.C. Schiff. 2012. Descriptive trends in SCB demersal fish assemblages since 1994. *California Cooperative Oceanic Fisheries Investigations Reports* 53:107-131.

Dodder, N.G., K.A. Maruya, G.G. Lauenstein, J. Ramirez, K.J. Ritter, K.C. Schiff. 2012. Distribution and sources of polybrominated diphenyl ethers in the southern California Bight. *Environmental Toxicology and Chemistry* 31:2239-2245.

- Lao, W., L.L. Tiefenthaler, D.J. Greenstein, K.A. Maruya, S.M. Bay, K. Ritter, K.C. Schiff. 2012. Pyrethroids in southern California coastal sediments. *Environmental Toxicology and Chemistry* 31:1649-1656.
- Gillett, D.J., D.J. Pondella II, J. Freiwald, K.C. Schiff, J.E. Caselle, C. Shuman, S.B. Weisberg. 2012. Comparing volunteer and professionally collected monitoring data from the rocky subtidal reefs of Southern California, USA. *Environmental Monitoring and Assessment* 184:3239-3257.
- Converse, R.R., J.F. Griffith, R.T. Noble, R.A. Haugland, K.C. Schiff, S.B. Weisberg. 2012. Correlation between quantitative polymerase chain reaction and culture-based methods for measuring *Enterococcus* over various temporal scales and three California marine beaches. *Applied and Environmental Microbiology* 78:1237-1242.
- Schiff, K.C., B. Luk, D. Gregorio, S. Gruber. 2011. Assessing water quality in Marine Protected Areas from Southern California, USA. *Marine Pollution Bulletin* 62:2780-2786.
- Tiefenthaler, L.L., E.D. Stein, K.C. Schiff. 2011. Levels and patterns of fecal indicator bacteria in stormwater runoff from homogenous land use sites and urban watersheds. *Journal of Water and Health* 9:279-290.
- Schiff, K.C., L.L. Tiefenthaler. 2011. Seasonal flushing of pollutant concentrations and loads in urban stormwater. *Journal of the American Water Resources Association* 47:136-142.
- Ranasinghe, J.A., K.C. Schiff, D.E. Montagne, T.K. Mikel, D.B. Cadien, R.G. Velarde, C.A. Brantley. 2010. Benthic macrofaunal community condition in the Southern California Bight, 1994-2003. *Marine Pollution Bulletin* 60:827-833.
- Griffith, J.F., K.C. Schiff, G.S. Lyon, J.A. Fuhrman. 2010. Microbiological water quality at non-human influenced reference beaches in southern California during wet weather. *Marine Pollution Bulletin* 60:500-508.
- Mazor, R.D., K.C. Schiff, K. Ritter, A. Rehn, P. Ode. 2010. Bioassessment tools in novel habitats: An evaluation of indices and sampling methods in low-gradient streams in California. *Environmental Monitoring and Assessment* 167:91-104.
- Sabin, L.D., K.A. Maruya, W. Lao, D.W. Diehl, D. Tsukada, K.D. Stolzenbach, K.C. Schiff. 2010. Exchange of polycyclic aromatic hydrocarbons among the atmosphere, water, and sediment in coastal embayments of southern California, USA. *Environmental Toxicology and Chemistry* 29:265-274.
- Maruya, K.A., K.C. Schiff. 2009. The extent and magnitude of sediment contamination in the Southern California Bight. *The Geological Society of America* 454:399-412.

Sabin, L.D., K.C. Schiff. 2008. Dry atmospheric deposition rates of metals along a coastal transect in southern California. *Atmospheric Environment* 42:6606-6613.

Tiefenthaler, L.L., E.D. Stein, K.C. Schiff. 2008. Watershed and land use-based sources of trace metals in urban stormwater. *Environmental Toxicology and Chemistry* 27:277-287.

Jarvis, E., K.C. Schiff, L. Sabin, M.J. Allen. 2007. Chlorinated hydrocarbons in pelagic forage fishes and squid of the Southern California Bight. *Environmental Toxicology and Chemistry* 26:2290-2298.

Sapozhnikova, Y., E. Wirth, K.C. Schiff, J.S. Brown, M. Fulton. 2007. Antifouling pesticides in the coastal waters of southern California. *Marine Pollution Bulletin* 54:1972-1978.

Schiff, K.C., J.S. Brown, D.W. Diehl, D.J. Greenstein. 2007. Extent and magnitude of copper contamination in marinas of the San Diego region, California, USA. *Marine Pollution Bulletin* 54:322-328.

Colford Jr, J.M., T.J. Wade, K.C. Schiff, C.C. Wright, J.F. Griffith, S.K. Sandhu, S. Burns, M. Sobsey, G. Lovelace, S.B. Weisberg. 2007. Water quality indicators and the risk of illness at beaches with nonpoint sources of fecal contamination. *Epidemiology* 18:27-35.

Schiff, K.C., B. Bax, P. Markle, T. Fleming, J. Newman. 2007. Wet and dry weather toxicity in the San Gabriel River. *Bulletin of the Southern California Academy of Sciences* 160:179-192.

Noble, R.T., J.F. Griffith, A.D. Blackwood, J.A. Fuhrman, J.B. Gregory, X. Hernandez, X. Liang, A.A. Bera, K.C. Schiff. 2006. Multitiered approach using quantitative PCR to track sources of fecal pollution affecting Santa Monica Bay, California. *Applied and Environmental Microbiology* 72:1604-1612.

Stein, E.D., L.L. Tiefenthaler, K.C. Schiff. 2006. Watershed-based sources of polycyclic aromatic hydrocarbons in urban storm water. *Environmental Toxicology and Chemistry* 25:373-385.

Sabin, L.D., J.H. Lim, K.D. Stolzenbach, K.C. Schiff. 2006. Atmospheric dry deposition of trace metals in the coastal region of Los Angeles, California, USA. *Environmental Toxicology and Chemistry* 25:2334-2341.

Lim, J.H., L.D. Sabin, K.C. Schiff, K.D. Stolzenbach. 2006. Concentration, size distribution, and dry deposition rate of particle-associated metals in the Los Angeles region. *Atmospheric Environment* 40:7810-7823.

Sabin, L.D., J.H. Lim, M.T. Venezia, A.M. Winer, K.C. Schiff, K.D. Stolzenbach. 2006. Dry deposition and resuspension of particle-associated metals near a freeway in Los Angeles. *Atmospheric Environment* 40:7528-7538.

- Zeng, E.Y., D. Tsukada, D.W. Diehl, J. Peng, K.C. Schiff, J. Noblet, K.A. Maruya. 2005. Distribution and mass inventory of total dichlorodiphenyldichloroethylene in the water column of the Southern California Bight. *Environmental Science and Technology* 39:8170-8176.
- Ackerman, D., E.D. Stein, K.C. Schiff. 2005. Dry-season water quality in the San Gabriel River watershed. *Bulletin of the Southern California Academy of Sciences* 104:125-145.
- Sabin, L.D., J.H. Lim, K.D. Stolzenbach, K.C. Schiff. 2005. Contribution of trace metals from atmospheric deposition to stormwater runoff in a small impervious urban catchment. *Water Research* 39:3929-3937.
- Ackerman, D., K.C. Schiff, S.B. Weisberg. 2005. Evaluating HSPF in an arid, urbanized watershed. *Journal of the American Water Resources Association* 41:477-486.
- Schiff, K.C., M. Sutula. 2004. Organophosphorus Pesticides in Storm-Water Runoff from Southern California (USA). *Setac Press* 23:1815-1821.
- Kamer, K., P. Fong, R.L. Kennison, K.C. Schiff. 2004. The relative importance of sediment and water column supplies of nutrients to the growth and tissue nutrient content of the green macroalga *Enteromorpha intestinalis* along an estuarine resource gradient. *Aquatic Ecology* 38:45-56.
- Schiff, K.C., D.W. Diehl, A. Valkirs. 2004. Copper emissions from antifouling paint on recreational vessels. *Marine Pollution Bulletin* 48:371-377.
- Kamer, K., P. Fong, R. Kennison, K.C. Schiff. 2004. Nutrient limitation of macroalga *Enteromorpha intestinalis* collected along a resource gradient in a highly eutrophic estuary. *Estuaries* 27:201-208.
- Lu, R., R.P. Turco, K. Stolzenbach, S.K. Friedlander, C. Xiong, K.C. Schiff, L.L. Tiefenthaler, G. Wang. 2003. Dry deposition of airborne trace metals on the Los Angeles basin and adjacent coastal waters. *Journal of Geophysical Research* 108:11.1-11.24.
- Schiff, K.C., J. Morton, S.B. Weisberg. 2003. Retrospective evaluation of shoreline water quality along Santa Monica Bay beaches. *Marine Environmental Research* 56:245-253.
- Schiff, K.C., S.M. Bay. 2003. Impacts of stormwater discharges on the nearshore benthic environment of Santa Monica Bay. *Marine Environmental Research* 56:225-243.
- Schiff, K.C., S.M. Bay, D.W. Diehl. 2003. Stormwater toxicity in Chollas Creek and San Diego Bay, California. *Environmental Monitoring and Assessment* 81:119-132.
- Ackerman, D., K.C. Schiff. 2003. Modeling storm water mass emissions to the Southern California

Bight. *Journal of Environmental Engineering* 129:308-317.

Bay, S.M., B.H. Jones, K.C. Schiff, L. Washburn. 2003. Water quality impacts of stormwater discharges to Santa Monica Bay. *Marine Environmental Research* 56:205-223.

Ackerman, D., K.C. Schiff, H. Trim, M. Mullin. 2003. Characterization of water quality in the Los Angeles River. *Bulletin of Southern California Academy of Sciences* 102:17-25.

Schiff, K.C., S.M. Bay, C. Stransky. 2002. Characterization of stormwater toxicants from an urban watershed to freshwater and marine organisms. *Urban Water* 4:215-227.

Leecaster, M.K., K.C. Schiff, L.L. Tiefenthaler. 2002. Assessment of efficient sampling designs for urban stormwater monitoring. *Water Research* 36:1556-1564.

Schiff, K.C., S.B. Weisberg, V. Raco-Rands. 2002. Inventory of ocean monitoring in the Southern California Bight. *Environmental Management* 29:871-876.

Schiff, K.C., S.B. Weisberg, J.H. Dorsey. 2001. Microbiological monitoring of marine recreational waters in southern California. *Environmental Management* 27:149-157.

Schiff, K.C., P. Kinney. 2001. Tracking sources of bacterial contamination in stormwater discharges to Mission Bay, California. *Water Environment Research* 73:534-542.

Noble, R.T., J.H. Dorsey, M. Leecaster, V. Orozco-Borbon, D. Reid, K.C. Schiff, S.B. Weisberg. 2000. A regional survey of the microbiological water quality along the shoreline of the Southern California Bight. *Environmental Monitoring and Assessment* 64:435-447.

Schiff, K.C., M.J. Allen, E.Y. Zeng, S.M. Bay. 2000. Southern California. *Marine Pollution Bulletin* 41:76-93.

Schiff, K.C. 2000. Sediment chemistry on the mainland shelf of the Southern California Bight. *Marine Pollution Bulletin* 40:268-276.

Schiff, K.C., M.J. Allen. 2000. Chlorinated Hydrocarbons in flatfishes from the Southern California, USA, Bight. *Environmental Toxicology and Chemistry* 9:1559-1565.

Skinner, L., A. de Peyster, K.C. Schiff. 1999. Developmental effects of urban storm water in Medaka (*Oryzias latipes*) and inland silverside (*Menidia beryllina*). *Archives of Environmental Contamination and Toxicology* 37:227-235.

Schiff, K.C., S.B. Weisberg. 1999. Iron as a reference element in southern California coastal shelf sediments. *Marine Environmental Research* 48:161-176.

Schiff, K.C., M. Stevenson. 1996. San Diego Regional Storm Water Monitoring Program:

Contaminant inputs to coastal wetlands and bays. *Bulletin of the Southern California Academy of Sciences* 95:7-16.

Book Chapters

Schiff, K.C., K. McLaughlin, S.L. Moore, Y. Cao. 2019. Southern California Bight. in: C. Sheppard (ed.), *World Seas: An Environmental Evaluation* pp. 465-482. Academic Press. London, UK.

Schaffner, R.A., S.J. Steinberg, K.C. Schiff. 2015. A GIS Tool to Compute a Pollutant Exposure Index for the Southern California Bight. in: D.J. Wright (ed.), *Earth Solutions, Ocean Solutions* pp. 109-133. Esri Press. Redlands, CA.

Schiff, K.C., M.J. Allen, E.Y. Zeng, S.M. Bay. 2000. Southern California. in: C.R.C. Sheppard (ed.), *Seas at the Millenium: An Environmental Evaluation - Volume I: Regional Chapters: Europe, The Americas and West Africa* pp. 385-404. Elsevier Science. New York, NY.

Bay, S.M., K.C. Schiff, D.J. Greenstein, L.L. Tiefenthaler. 1997. Stormwater Runoff of Santa Monica Bay: Toxicity, Sediment Quality, and Benthic Community Impacts. in: O.T. Magoon, H. Converse, B. Baird, M. Miller-Henson (eds.), *California and the World Ocean '97* pp. 900-921. American Society of Civil Engineers. Reston, VA.

Schiff, K.C., D.J. Reish, J.W. Anderson, S.M. Bay. 1992. A comparative evaluation of produced water toxicity. in: J.P. Ray, F.R. Engelhart (eds.), *Produced Water* pp. 199-207. Plenum Press. New York, NY.

Technical Reports

Drake, J., A. Erickson, L. Sherman, S. Gaines, H. Piza, S. Waickowski, R. Winston, R. Biller, F. Cheng, M. Turcotte, J. Venzon, E. Fassman-Beck, K.C. Schiff. 2026. Structural Planning and Design for Optimizing Operations and Maintenance for Stormwater Control Measures. Technical Report 1474. Southern California Coastal Water Research Project. Costa Mesa, CA.

Thornton Hampton, L.M., V. McGruer, A.C. Mehinto, W. Cowger, R. McNeish, K.C. Schiff. 2026. Southern California Bight 2023 Regional Monitoring Program: Volume V. Trash and Marine Debris. Technical Report 1473. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mehinto, A.C., D.J. Greenstein, K.C. Schiff. 2025. Southern California Bight 2023 Regional Monitoring Program: Volume I. Sediment Toxicity. Technical Report 1433. Southern California Coastal Water Research Project. Costa Mesa, CA.

Fassman-Beck, E., K.C. Schiff. 2024. SMC Non-Structural BMP Workshop Report - March 1, 2022. Technical Report 1405. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., J.F. Griffith, J.A. Steele, A. Gonzalez-Fernandez. 2024. Summary of Technical Research: Quantifying Sources of Human Fecal Pollution in the Lower San Diego River Watershed. Technical Report 1380. Southern California Coastal Water Research Project. Costa Mesa, CA.

Fassman-Beck, E., K.C. Schiff, R. Butler. 2023. Development of the SMC Regional BMP Monitoring Network 2020-2023. Technical Report 1352. Southern California Coastal Water Research Project. Costa Mesa, CA.

Fassman-Beck, E., K.C. Schiff. 2022. SMC Regional BMP Monitoring Network Work Plan 2022-2023 - Version 1.0. Technical Report 1270. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., E. Darin, E. Fassman-Beck, G. Shusterman, L. Flores, T. Hale, C. Beegan . 2022. Monitoring Guidance To Support Adaptive Watershed Management. Technical Report 1257. Southern California Coastal Water Research Project. Costa Mesa, CA.

McLaughlin, K., R.D. Mazor, K.C. Schiff, L.M. Thornton Hampton. 2022. Southern California Bight 2018 Regional Monitoring Program: Volume IX. Trash and Marine Debris. Technical Report 1263. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., M. Beck, E. Fassman-Beck. 2021. North Orange County Municipal Separate Storm Sewer System (MS4) Monitoring Evaluation. Technical Report 1221. Southern California Coastal Water Research Project. Costa Mesa, CA.

Parks, A.N., D.J. Greenstein, K.C. Schiff. 2021. Marina del Rey Harbor Site-Specific Objective Study. Technical Report 1208. Southern California Coastal Water Research Project. Costa Mesa, CA.

Wisnabaker, K., K. McLaughlin, D.W. Diehl, A. Latker, K. Stolzenbach, R. Gartman, K.C. Schiff. 2021. Southern California Bight 2018 Regional Marine Monitoring Program: Volume IV. Demersal Fishes and Megabenthic Invertebrates. Technical Report 1183. Southern California Coastal Water Research Project. Costa Mesa, CA.

McLaughlin, K., K.C. Schiff, B. Du, J. Davis, A. Bonnema, G. Ichikawa, B. Jakl, W. Heim. 2020. Southern California Bight 2018 Regional Monitoring Program Volume V: Contaminant Bioaccumulation in Edible Sport Fish Tissue. Technical Report 1155. Southern California Coastal Water Research Project. Costa Mesa, CA.

Du, B., C.S. Wong, K. McLaughlin, K.C. Schiff. 2020. Southern California Bight 2018 Regional Monitoring Program: Volume II. Sediment Chemistry. Technical Report 1130. Southern California

Coastal Water Research Project. Costa Mesa, CA.

Parks, A.N., D.J. Greenstein, K. McLaughlin, K.C. Schiff. 2020. Southern California Bight 2018 Regional Monitoring Program: Volume I. Sediment Toxicity. Technical Report 1117. Southern California Coastal Water Research Project. Costa Mesa, CA.

Fassman-Beck, E., K.C. Schiff, D. Apt. 2020. Evaluating Potential Methods to Quantify Stormwater Capture. Technical Report 1116. Southern California Coastal Water Research Project. Costa Mesa, CA.

Chiotti, D., L. Ritter, D. Schlenk, C. Wilen, K.C. Schiff. 2020. Alternatives to Glyphosate for Vegetation Management in Los Angeles County. Technical Report 1103. Southern California Coastal Water Research Project. Costa Mesa, CA.

Gillett, D.J., L. Gisbane, K.C. Schiff. 2019. Benthic Infauna of the Southern California Bight Continental Slope: Characterizing Community Structure for the Development of an Index of Disturbance. Technical Report 1096. US Department of the Interior, Bureau of Ocean Energy Management. Camarillo, CA.

Steele, J.A., D. Ebentier, A.G. Zimmer-Faust, J.F. Griffith, K.C. Schiff. 2019. Los Coches Creek Microbial Source Tracking Study. Technical Report 1087. Southern California Coastal Water Research Project. Costa Mesa, CA.

Beck, M., R.D. Mazor, S. Theroux, K.C. Schiff. 2019. The Stream Quality Index: A Multi-Indicator Tool for Enhancing Environmental Management Communication. Technical Report 1080. Southern California Coastal Water Research Project. Costa Mesa, CA.

Afrooz, N., M. Beck, T. Hale, L. McKee, K.C. Schiff. 2019. BMP Performance Monitoring Data Compilation to Support Reasonable Assurance Analysis. Technical Report 1081. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., J.F. Griffith, J.A. Steele, A.G. Zimmer-Faust, J.A. Soller. 2019. Inner Cabrillo Beach Microbial Source Tracking and Quantitative Microbial Risk Assessment (QMRA). Technical Report 1068. Southern California Coastal Water Research Project. Costa Mesa, CA.

Afrooz, A.R.M.N., K.C. Schiff. 2018. Southern California Stormwater Monitoring Coalition Unified Approach to Stormwater Monitoring. Technical Report 1059. Southern California Coastal Water Research Project. Costa Mesa, CA.

Gillett, D.J., L.L. Lovell, K.C. Schiff. 2017. Southern California Bight 2013 Regional Monitoring Program: Volume VI. Benthic Infauna. Technical Report 971. Southern California Coastal Water Research Project. Costa Mesa, CA.

Steele, J.A., J.F. Griffith, R. Noble, K.C. Schiff. 2017. Tracking Human Fecal Sources in an Urban Watershed During Wet Weather. Technical Report 1002. Southern California Coastal Water Research Project. Costa Mesa, CA.

Walther, S.M., J.P. Williams, A.M. Latker, D.B. Cadien, D.W. Diehl, K. Wisenbaker, E. Miller, R. Gartman, C. Stransky, K.C. Schiff. 2017. Southern California Bight 2013 Regional Monitoring Program: Volume VII. Demersal Fishes and Megabenthic Invertebrates. Technical Report 972. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., D.J. Greenstein. 2016. Stormwater Monitoring Coalition Toxicity Testing Laboratory Guidance Document. Technical Report 956. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Schiff, K.C., J.F. Griffith, J.A. Steele, B. Arnold, A. Ercumen, J. Benjamin-Chung, J.M. Colford Jr, J. Soller, R. Wilson, C. McGee. 2016. The Surfer Health Study: A Three-Year Study Examining Illness Rates Associated with Surfing During Wet Weather. Technical Report 943. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Clatterbuck, C.A., R.A. Lewison, N. Dodder, C. Zeeman, K.C. Schiff. 2016. Southern California Bight 2013 Regional Monitoring Program: Volume V. Contaminant Bioaccumulation in Seabird Eggs of the Southern California Bight. Technical Report 944. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Moore, S.L., M. Sutula, T.V. Bitner, G. Lattin, K.C. Schiff. 2016. Southern California Bight 2013 Regional Monitoring Program: Volume III. Trash and Marine Debris. Technical Report 928. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Dodder, N., K.C. Schiff, A. Latker, C.L. Tang. 2016. Southern California Bight 2013 Regional Monitoring Program: Volume IV. Sediment Chemistry. Technical Report 922. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Pondella II, D.J., K.C. Schiff, R.A. Schaffner, A. Zellmer, J. Coates. 2016. Southern California Bight 2013 Regional Monitoring Program: Volume II. Rocky Reefs. Technical Report 932. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Schiff, K.C., D.J. Gillett, A. Rehn, M. Paul. 2015. Causal Assessment Evaluation and Guidance for California. Technical Report 750. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., D.J. Gillett, A. Rehn, M. Paul. 2015. Causal Assessment Evaluation and Guidance for California (Appendix A). Technical Report 750.A. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Schiff, K.C., D.J. Gillett, A. Rehn, M. Paul. 2015. Causal Assessment Evaluation and Guidance for California (Appendix B). Technical Report 750.B. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Schiff, K.C., D.J. Gillett, A. Rehn, M. Paul. 2015. Causal Assessment Evaluation and Guidance for California (Appendix C). Technical Report 750.C. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Schiff, K.C., D.J. Gillett, A. Rehn, M. Paul. 2015. Causal Assessment Evaluation and Guidance for California (Appendix D). Technical Report 750.D. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Bay, S.M., L. Wiborg, D.J. Greenstein, N. Haring, C. Pottios, C. Stransky, K.C. Schiff. 2015. Southern California Bight 2013 Regional Monitoring Program. Volume I - Sediment Toxicity Report. Technical Report 899. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Schiff, K.C., J.S. Brown, S. Trump, D. Hardin. 2015. Near-Coastal Water Quality at Reference Sites Following Storm Events. Technical Report 853. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Schiff, K.C., J.S. Brown. 2015. North Coast Areas of Special Biological Significance Regional Monitoring Program: First Year Results. Technical Report 856. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Schiff, K.C., J.S. Brown. 2015. Proposition 84 Grant Evaluation Report: Assessing Pollutant Reductions to Areas of Biological Significance. Technical Report 858. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Schiff, K.C., J.S. Brown. 2015. South Coast Areas of Special Biological Significance Regional Monitoring Program Year 2 Results. Technical Report 852. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Dodder, N., K.C. Schiff. 2015. Areas of Special Biological Significance: Northern California Bioaccumulation Monitoring. Technical Report 857. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Schiff, K.C., A.E. Fetscher, M.M. Hanken. 2014. Newport Bay Watershed Monitoring Evaluation. Technical Report 815. Southern California Coastal Water Research Project. Costa Mesa, CA.

Dodder, N., W. Lao, D. Tsukada, D.W. Diehl, K.C. Schiff. 2014. Areas of Special Biological Significance: Bioaccumulation Monitoring. Technical Report 816. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., E.D. Stein, S. Aminzadeh, A. Boehm, G. Hildebrand, L. Honeybourne, I. Nasser, P. Ode, S. Taylor, D. Senn, J. Smith, C. Sommers, E. Strecker. 2014. Southern California Stormwater Monitoring Coalition 2014 Research Agenda. Technical Report 828. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Rogowski, P., E. Terrill, L. Hazard, K.C. Schiff. 2014. Assessing Areas of Special Biological Significance Exposure to Stormwater Plumes Using a Surface Transport Model. Technical Report 817. Southern California Coastal Water Research Project. Costa Mesa, CA.

Raimondi, P., K.C. Schiff, D. Gregorio. 2012. Characterization of the Rocky Intertidal Ecological Communities Associated with Southern California Areas of Special Biological Significance. Technical Report 703. Southern California Coastal Water Research Project. Costa Mesa, CA.

Ranasinghe, J.A., K.C. Schiff, C.A. Brantley, L.L. Lovell, D.B. Cadien, T.K. Mikel, R.G. Velarde, S. Holt, S.C. Johnson. 2012. Southern California Bight 2008 Regional Monitoring Program: VI. Benthic Macrofauna. Technical Report 665. Southern California Coastal Water Research Project. Costa Mesa, CA.

Ranasinghe, J.A., K.C. Schiff, C.A. Brantley, L.L. Lovell, D.B. Cadien, T.K. Mikel, R.G. Velarde, S. Holt, S.C. Johnson. 2012. Southern California Bight 2008 Regional Monitoring Program: VI. Benthic Macrofauna (Appendix A). Technical Report 665.A. Southern California Coastal Water Research Project. Costa Mesa, CA.

Ranasinghe, J.A., K.C. Schiff, C.A. Brantley, L.L. Lovell, D.B. Cadien, T.K. Mikel, R.G. Velarde, S. Holt, S.C. Johnson. 2012. Southern California Bight 2008 Regional Monitoring Program: VI. Benthic Macrofauna (Appendix B). Technical Report 665.B. Southern California Coastal Water Research Project. Costa Mesa, CA.

Ranasinghe, J.A., K.C. Schiff, C.A. Brantley, L.L. Lovell, D.B. Cadien, T.K. Mikel, R.G. Velarde, S. Holt, S.C. Johnson. 2012. Southern California Bight 2008 Regional Monitoring Program: VI. Benthic Macrofauna (Appendix C). Technical Report 665.C. Southern California Coastal Water Research Project. Costa Mesa, CA.

Ranasinghe, J.A., K.C. Schiff, C.A. Brantley, L.L. Lovell, D.B. Cadien, T.K. Mikel, R.G. Velarde, S. Holt, S.C. Johnson. 2012. Southern California Bight 2008 Regional Monitoring Program: VI. Benthic Macrofauna (Appendix D). Technical Report 665.D. Southern California Coastal Water Research Project. Costa Mesa, CA.

Ranasinghe, J.A., K.C. Schiff, C.A. Brantley, L.L. Lovell, D.B. Cadien, T.K. Mikel, R.G. Velarde, S. Holt, S.C. Johnson. 2012. Southern California Bight 2008 Regional Monitoring Program: VI. Benthic Macrofauna (Appendix E). Technical Report 665.E. Southern California Coastal Water Research Project. Costa Mesa, CA.

Ranasinghe, J.A., K.C. Schiff, C.A. Brantley, L.L. Lovell, D.B. Cadien, T.K. Mikel, R.G. Velarde, S. Holt, S.C. Johnson. 2012. Southern California Bight 2008 Regional Monitoring Program: VI. Benthic Macrofauna (Appendix F). Technical Report 665.F. Southern California Coastal Water Research Project. Costa Mesa, CA.

Ranasinghe, J.A., K.C. Schiff, C.A. Brantley, L.L. Lovell, D.B. Cadien, T.K. Mikel, R.G. Velarde, S. Holt, S.C. Johnson. 2012. Southern California Bight 2008 Regional Monitoring Program: VI. Benthic Macrofauna (Appendix G). Technical Report 665.G. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mazor, R.D., K.C. Schiff, P. Ode, E.D. Stein. 2012. Final Report on Bioassessment in Nonperennial Streams - Report to the State Water Resources Control Board. Technical Report 695. Southern California Coastal Water Research Project. Costa Mesa, CA.

Setty, K., K.C. Schiff, S.B. Weisberg. 2012. Forty Years after the Clean Water Act: A Retrospective Look at the Southern California Coastal Ocean. Technical Report 727. Southern California Coastal Water Research Project. Costa Mesa, CA.

Pondella II, D.J., J. Williams, J. Claisse, R.A. Schaffner, K. Ritter, K.C. Schiff. 2012. Southern California Bight 2008 Regional Monitoring Program: V. Rocky Reefs. Technical Report 685. Southern California Coastal Water Research Project. Costa Mesa, CA.

Allen, M.J., D. Cadien, D.W. Diehl, K. Ritter, S.L. Moore, C. Cash, D.J. Pondella II, V. Raco-Rands, C. Thomas, R. Gartman, W. Power, A.K. Latker, J. Williams, J.L. Armstrong, E. Miller, K.C. Schiff. 2011. Southern California Bight 2008 Regional Monitoring Program: Volume IV. Demersal Fishes and Megabenthic Invertebrates. Technical Report 655. Southern California Coastal Water Research Project. Costa Mesa, CA.

Allen, M.J., D. Cadien, D.W. Diehl, K. Ritter, S.L. Moore, C. Cash, D.J. Pondella II, V. Raco-Rands, C. Thomas, R. Gartman, W. Power, A.K. Latker, J. Williams, J.L. Armstrong, E. Miller, K.C. Schiff. 2011. Southern California Bight 2008 Regional Monitoring Program: Volume IV. Demersal Fishes and Megabenthic Invertebrates (Appendix B). Technical Report 655.B. Southern California Coastal Water Research Project. Costa Mesa, CA.

Allen, M.J., D. Cadien, D.W. Diehl, K. Ritter, S.L. Moore, C. Cash, D.J. Pondella II, V. Raco-Rands, C. Thomas, R. Gartman, W. Power, A.K. Latker, J. Williams, J.L. Armstrong, E. Miller, K.C. Schiff. 2011. Southern California Bight 2008 Regional Monitoring Program: Volume IV. Demersal Fishes and Megabenthic Invertebrates (Appendix D). Technical Report 655.D. Southern California Coastal Water Research Project. Costa Mesa, CA.

Allen, M.J., D. Cadien, D.W. Diehl, K. Ritter, S.L. Moore, C. Cash, D.J. Pondella II, V. Raco-Rands, C. Thomas, R. Gartman, W. Power, A.K. Latker, J. Williams, J.L. Armstrong, E. Miller, K.C. Schiff.

2011. Southern California Bight 2008 Regional Monitoring Program: Volume IV. Demersal Fishes and Megabenthic Invertebrates (Appendix A). Technical Report 655.A. Southern California Coastal Water Research Project. Costa Mesa, CA.

Allen, M.J., D. Cadien, D.W. Diehl, K. Ritter, S.L. Moore, C. Cash, D.J. Pondella II, V. Raco-Rands, C. Thomas, R. Gartman, W. Power, A.K. Latker, J. Williams, J.L. Armstrong, E. Miller, K.C. Schiff. 2011. Southern California Bight 2008 Regional Monitoring Program: Volume IV. Demersal Fishes and Megabenthic Invertebrates (Appendix C). Technical Report 655.C. Southern California Coastal Water Research Project. Costa Mesa, CA.

Allen, M.J., D. Cadien, D.W. Diehl, K. Ritter, S.L. Moore, C. Cash, D.J. Pondella II, V. Raco-Rands, C. Thomas, R. Gartman, W. Power, A.K. Latker, J. Williams, J.L. Armstrong, E. Miller, K.C. Schiff. 2011. Southern California Bight 2008 Regional Monitoring Program: Volume IV. Demersal Fishes and Megabenthic Invertebrates (Appendix E). Technical Report 655.E. Southern California Coastal Water Research Project. Costa Mesa, CA.

Allen, M.J., D. Cadien, D.W. Diehl, K. Ritter, S.L. Moore, C. Cash, D.J. Pondella II, V. Raco-Rands, C. Thomas, R. Gartman, W. Power, A.K. Latker, J. Williams, J.L. Armstrong, E. Miller, K.C. Schiff. 2011. Southern California Bight 2008 Regional Monitoring Program: Volume IV. Demersal Fishes and Megabenthic Invertebrates (Appendix F). Technical Report 655.F. Southern California Coastal Water Research Project. Costa Mesa, CA.

Allen, M.J., D. Cadien, D.W. Diehl, K. Ritter, S.L. Moore, C. Cash, D.J. Pondella II, V. Raco-Rands, C. Thomas, R. Gartman, W. Power, A.K. Latker, J. Williams, J.L. Armstrong, E. Miller, K.C. Schiff. 2011. Southern California Bight 2008 Regional Monitoring Program: Volume IV. Demersal Fishes and Megabenthic Invertebrates (Appendix G). Technical Report 655.G. Southern California Coastal Water Research Project. Costa Mesa, CA.

Allen, M.J., D. Cadien, D.W. Diehl, K. Ritter, S.L. Moore, C. Cash, D.J. Pondella II, V. Raco-Rands, C. Thomas, R. Gartman, W. Power, A.K. Latker, J. Williams, J.L. Armstrong, E. Miller, K.C. Schiff. 2011. Southern California Bight 2008 Regional Monitoring Program: Volume IV. Demersal Fishes and Megabenthic Invertebrates (Appendix H). Technical Report 655.H. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., B. Luk, D. Gregorio, S. Gruber. 2011. Southern California Bight 2008 Regional Monitoring Program: II. Areas of Special Biological Significance. Technical Report 641. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., R. Gossett, K. Ritter, L.L. Tiefenthaler, N. Dodder, W. Lao, K.A. Maruya. 2011. Southern California Bight 2008 Regional Monitoring Program: III. Sediment Chemistry. Technical Report 661. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., R. Gossett, K. Ritter, L.L. Tiefenthaler, N. Dodder, W. Lao, K.A. Maruya. 2011. Southern California Bight 2008 Regional Monitoring Program: III. Sediment Chemistry (Appendix A). Technical Report 661.A. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., R. Gossett, K. Ritter, L.L. Tiefenthaler, N. Dodder, W. Lao, K.A. Maruya. 2011. Southern California Bight 2008 Regional Monitoring Program: III. Sediment Chemistry (Appendix B). Technical Report 661.B. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., R. Gossett, K. Ritter, L.L. Tiefenthaler, N. Dodder, W. Lao, K.A. Maruya. 2011. Southern California Bight 2008 Regional Monitoring Program: III. Sediment Chemistry (Appendix C). Technical Report 661.C. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., R. Gossett, K. Ritter, L.L. Tiefenthaler, N. Dodder, W. Lao, K.A. Maruya. 2011. Southern California Bight 2008 Regional Monitoring Program: III. Sediment Chemistry (Appendix D). Technical Report 661.D. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., R. Gossett, K. Ritter, L.L. Tiefenthaler, N. Dodder, W. Lao, K.A. Maruya. 2011. Southern California Bight 2008 Regional Monitoring Program: III. Sediment Chemistry (Appendix E). Technical Report 661.E. Southern California Coastal Water Research Project. Costa Mesa, CA.

Bay, S.M., D.J. Greenstein, M. Jacobe, C. Barton, K. Sakamoto, D. Young, K.J. Ritter, K.C. Schiff. 2011. Southern California Bight 2008 Regional Monitoring Program: I. Sediment Toxicity. Technical Report 640. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mazor, R.D., D.J. Gillett, K.C. Schiff, K. Ritter, E.D. Stein. 2011. Ecological Condition of Watersheds in Coastal Southern California: Progress Report of the Stormwater Monitoring Coalition's Stream Monitoring Program First Year (2009). Technical Report 639. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., B. Luk, D. Gregorio. 2010. Status of California's Marine Water Quality Protected Areas. Technical Report 631. Southern California Coastal Water Research Project. Costa Mesa, CA.

Dickson, A., R. Gossett, D. Gregorio, B. Jones, S. Murray, B. Posthumus, K.C. Schiff. 2010. Summation of Findings Natural Water Quality Committee 2006-2009. Technical Report 625. Southern California Coastal Water Research Project. Costa Mesa, CA.

Gossett, R., K.C. Schiff. 2010. Stormwater Monitoring Coalition Laboratory Guidance Document (Third Edition). Technical Report 615. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., J. Diamond. 2009. Identifying barriers to Tiered Aquatic Life Uses (TALU) in southern California. Technical Report 590. Southern California Coastal Water Research Project. Costa

Mesa, CA.

Ode, P., K.C. Schiff. 2009. Recommendations for the development and maintenance of a reference condition management program (RCMP) to support biological assessment of California. Technical Report 581. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mazor, R.D., K.C. Schiff. 2008. Surface Water Ambient Monitoring Program (SWAMP) Report on the Carlsbad Hydrologic Unit. Technical Report 527.04. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mazor, R.D., K.C. Schiff. 2008. Surface Water Ambient Monitoring Program (SWAMP) Report on the Los Penasquitos Hydrologic Unit. Technical Report 527.06. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mazor, R.D., K.C. Schiff. 2008. Surface Water Ambient Monitoring Program (SWAMP) Report on the Otay Hydrologic Unit. Technical Report 527.1. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mazor, R.D., K.C. Schiff. 2008. Surface Water Ambient Monitoring Program (SWAMP) Report on the Pueblo San Diego Hydrologic Unit. Technical Report 527.08. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mazor, R.D., K.C. Schiff. 2008. Surface Water Ambient Monitoring Program (SWAMP) Report on the San Diego River Hydrologic Unit. Technical Report 527.07. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mazor, R.D., K.C. Schiff. 2008. Surface Water Ambient Monitoring Program (SWAMP) Report on the San Dieguito Hydrologic Unit. Technical Report 527.05. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mazor, R.D., K.C. Schiff. 2008. Surface Water Ambient Monitoring Program (SWAMP) Report on the San Juan Hydrologic Unit. Technical Report 527.01. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mazor, R.D., K.C. Schiff. 2008. Surface Water Ambient Monitoring Program (SWAMP) Report on the San Luis Rey Hydrologic Unit. Technical Report 527.03. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mazor, R.D., K.C. Schiff. 2008. Surface Water Ambient Monitoring Program (SWAMP) Report on the Santa Margarita Hydrologic Unit. Technical Report 527.02. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mazor, R.D., K.C. Schiff. 2008. Surface Water Ambient Monitoring Program (SWAMP) Report on

the Sweetwater Hydrologic Unit. Technical Report 527.09. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mazor, R.D., K.C. Schiff. 2008. Surface Water Ambient Monitoring Program (SWAMP) Report on the Tijuana Hydrologic Unit. Technical Report 527.11. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mazor, R.D., K.C. Schiff. 2008. Surface Water Ambient Monitoring Program (SWAMP) synthesis report on stream assessment in the San Diego Region. Technical Report 527. Southern California Coastal Water Research Project. Costa Mesa, CA.

Allen, M.J., T. Mikel, D. Cadien, J.E. Kalman, E.T. Jarvis, K.C. Schiff, D.W. Diehl, S.L. Moore, S. Walther, G. Deets, C. Cash, S. Watts, D.J. Pondella II, V. Raco-Rands, C. Thomas, R. Gartman, L. Sabin, W. Power, A.K. Groce, J.L. Armstrong. 2007. Southern California Bight 2003 Regional Monitoring Program: IV. Demersal Fishes and Megabenthic Invertebrates. Technical Report 505. Southern California Coastal Water Research Project. Costa Mesa, CA.

Griffith, J.F., K.C. Schiff, S.B. Weisberg, C. McGee, C. Clifton. 2007. Southern California Bight 2003 Regional Monitoring Program: VI. Shoreline Microbiology. Technical Report 526. Southern California Coastal Water Research Project. Costa Mesa, CA.

Ranasinghe, J.A., A.M. Barnett, K.C. Schiff, D.E. Montagne, C. Brantley, C. Beegan, D.B. Cadien, C. Cash, G.B. Deets, D.R. Diener, T.K. Mikel, R.W. Smith, R.G. Velarde, S.D. Watts, S.B. Weisberg. 2007. Southern California Bight 2003 Regional Monitoring Program: III. Benthic Macrofauna. Technical Report 529. Southern California Coastal Water Research Project. Costa Mesa, CA.

Sabin, L.D., K.C. Schiff. 2007. Metal dry deposition rates along a coastal transect in southern California. Technical Report 509. Southern California Coastal Water Research Project. Costa Mesa, CA.

Gosset, R., K.C. Schiff. 2007. Stormwater Monitoring Coalition laboratory guidance document (Second Edition). Technical Report 521. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., S. Carter. 2007. Monitoring and modeling of Chollas, Paleta, and Switzer Creeks. Technical Report 513. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., D. Ackerman, E. Strecker, M. Leisenring. 2007. Concept development: design storm for water quality in the Los Angeles region. Technical Report 520. Southern California Coastal Water Research Project. Costa Mesa, CA.

Stein, E.D., L.L. Tiefenthaler, K.C. Schiff. 2007. Sources, patterns and mechanisms of storm water pollutant loading from watersheds and land uses of the greater Los Angeles area, California, USA.

Technical Report 510. Southern California Coastal Water Research Project. Costa Mesa, CA.

Peng, J., K.A. Maruya, K.C. Schiff, D. Tsukada, D.W. Diehl, W. Lao, J. Gan, E. Zeng. 2007. Organochlorine pesticides and other trace organic contaminants in the Upper Newport Bay watershed. Technical Report 512. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., K.A. Maruya, K. Christenson. 2006. Southern California Bight 2003 Regional Monitoring Program: II. Sediment Chemistry. Technical Report 492. Southern California Coastal Water Research Project. Westminster, CA.

Schiff, K.C., J.S. Brown, D.W. Diehl. 2006. Extent and magnitude of copper contamination in marinas of the San Diego region, CA USA. Technical Report 483. Southern California Coastal Water Research Project. Westminster, CA.

Griffith, J.F., K.C. Schiff, G.S. Lyon. 2006. Microbiological water quality at non-human impacted reference beaches in southern California during wet weather. Technical Report 495. Southern California Coastal Water Research Project. Westminster, CA.

Schiff, K.C., B. Bax, P. Markle, T. Fleming, J. Newman. 2006. Wet and dry weather toxicity in the San Gabriel River. Technical Report 493. Southern California Coastal Water Research Project. Westminster, CA.

Bay, S.M., T. Mikel, K.C. Schiff, S. Mathison, B. Hester, D. Young, D.J. Greenstein. 2005. Southern California Bight 2003 Regional Monitoring Program: I. Sediment Toxicity. Technical Report 451. Southern California Coastal Water Research Project. Westminster, CA.

Noble, R.T., J.F. Griffith, A.D. Blackwood, J.A. Fuhrman, J.B. Gregory, X. Hernandez, X. Liang, A.A. Bera, K.C. Schiff. 2005. Multi-tiered approach using quantitative polymerase chain reaction for tracking sources of fecal pollution to Santa Monica Bay, California. Technical Report 446. Southern California Coastal Water Research Project. Westminster, CA.

Colford Jr, J.M., T.J. Wade, K.C. Schiff, C. Wright, J.F. Griffith, S.K. Sandhu, S.B. Weisberg. 2005. Recreational water contact and illness in Mission Bay, California. Technical Report 449. Southern California Coastal Water Research Project. Westminster, CA.

Colford Jr, J.M., T.J. Wade, K.C. Schiff, C. Wright, J.F. Griffith, S.K. Sandhu, S.B. Weisberg. 2005. Recreational water contact and illness in Mission Bay, California (Appendices 1-3). Technical Report 449.1-3. Southern California Coastal Water Research Project. Westminster, CA.

Colford Jr, J.M., T.J. Wade, K.C. Schiff, C. Wright, J.F. Griffith, S.K. Sandhu, S.B. Weisberg. 2005. Recreational water contact and illness in Mission Bay, California (Appendices 4-7). Technical Report 449.4-7. Southern California Coastal Water Research Project. Westminster, CA.

Schiff, K.C., J.F. Griffith, G. Lyon. 2005. Microbiological water quality at reference beaches in southern California during wet weather. Technical Report 448. Southern California Coastal Water Research Project. Westminster, CA.

Ranasinghe, J.A., B. Thompson, R.W. Smith, L. Lowe, K.C. Schiff. 2004. Evaluation of benthic assessment methodology in Southern California Bays and San Francisco Bay. Technical Report 432. Southern California Coastal Water Research Project. Westminster, CA.

Gossett, R., D. Renfrew, K.C. Schiff. 2004. Stormwater monitoring coalition laboratory guidance document. Technical Report 420. Southern California Coastal Water Research Project. Westminster, CA.

Cooper, L., K.C. Schiff, R. Smith. 2004. Standardized data exchange formats for the Stormwater Monitoring Coalition. Technical Report 421. Southern California Coastal Water Research Project. Westminster, CA.

Cooper, L., K.C. Schiff, R. Smith. 2004. Stormwater database structure (v1.0 zip file). Technical Report 421.Z. Southern California Coastal Water Research Project. Westminster, CA.

Schiff, K.C., D.W. Diehl, A. Valkirs. 2003. Copper emissions from antifouling paint on recreational vessels. Technical Report 405. Southern California Coastal Water Research Project. Westminster, CA.

Stein, E.D., D. Ackerman, K.C. Schiff. 2003. Watershed-based sources of contaminants to San Pedro Bay and Marina del Rey: Patterns and trends. Technical Report 413. Southern California Coastal Water Research Project. Westminster, CA.

Schiff, K.C., L.L. Tiefenthaler. 2003. Contributions of organophosphorus pesticides from residential land uses during dry and wet weather. Technical Report 406. Southern California Coastal Water Research Project. Westminster, CA.

Kamer, K., K.C. Schiff, R.L. Kennison, P. Fong. 2002. Macroalgal nutrient dynamics in Upper Newport Bay. Technical Report 365. Southern California Coastal Water Research Project. Westminster, CA.

Bernstein, B., K.C. Schiff. 2002. Stormwater research needs in Southern California. Technical Report 358. Southern California Coastal Water Research Project. Westminster, CA.

Stolzenbach, K., R. Lu, C. Xiong, S. Friedlander, R. Turco, K.C. Schiff, L.L. Tiefenthaler. 2001. Measuring and modeling of atmospheric deposition on Santa Monica Bay and the Santa Monica Bay Watershed. Technical Report 346. Southern California Coastal Water Research Project. Westminster, CA.

Schiff, K.C., J.S. Brown, S.B. Weisberg. 2001. Model monitoring program for large ocean discharges in southern California. Technical Report 357. Southern California Coastal Water Research Project. Westminster, CA.

Tiefenthaler, L.L., K.C. Schiff, S.M. Bay. 2001. Characteristics of parking lot runoff produced by simulated rain. Technical Report 343. Southern California Coastal Water Research Project. Westminster, CA.

Schiff, K.C., S.M. Bay, D.W. Diehl. 2001. Stormwater toxicity in Chollas Creek and San Diego Bay. Technical Report 340. Southern California Coastal Water Research Project. Westminster, CA.

Schiff, K.C., S.M. Bay, D.W. Diehl. 2001. Stormwater toxicity in Chollas Creek and San Diego Bay. Technical Report 340.A. Southern California Coastal Water Research Project. Westminster, CA.

Schiff, K.C., M. Sutula. 2001. Organophosphorous pesticides in stormwater runoff from Southern California. Technical Report 356. Southern California Coastal Water Research Project. Westminster, CA.

Schiff, K.C., K. Kamer. 2000. Comparison of nutrient inputs, water column concentrations, and macroalgal biomass in upper Newport Bay, California. Technical Report 332. Southern California Coastal Water Research Project. Westminster, CA.

Noble, R.T., J.H. Dorsey, M.K. Leecaster, M. Mazur, C.D. McGee, D. Moore, V. Orozco-Borbon, D. Reid, K.C. Schiff, P.M. Vainik, S.B. Weisberg. 2000. Southern California Bight 1998 Regional Monitoring Program: III. Storm event shoreline microbiology. Technical Report 338. Southern California Coastal Water Research Project. Westminster, CA.

Noble, R.T., J. Dorsey, M. Leecaster, M. Mazur, C. McGee, D. Moore, O. Victoria, D. Reid, K.C. Schiff, P. Vainik, S.B. Weisberg. 2000. Southern California Bight 1998 Regional Monitoring Program, Vol II: Winter shoreline microbiology. Technical Report 337. Southern California Coastal Water Research Project. Westminster, CA.

Schiff, K.C. 1999. Development of a model publicly owned treatment work (POTW) monitoring program. Technical Report 316. Southern California Coastal Water Research Project. Westminster, CA.

Noble, R.T., J. Dorsey, M. Leecaster, M. Mazur, C. McGee, D. Moore, O. Victoria, D. Reid, K.C. Schiff, P. Vainik, S.B. Weisberg. 1999. Southern California Bight 1998 Regional Monitoring Program, Vol I: Summer shoreline microbiology. Technical Report 336. Southern California Coastal Water Research Project. Westminster, CA.

Bay, S.M., B.H. Jones, K.C. Schiff. 1999. Study of the impact of stormwater discharge on Santa Monica Bay. Technical Report 317. University of Southern California Sea Grant. Los Angeles, CA.

Allen, M.J., S.L. Moore, K.C. Schiff, S.B. Weisberg, D. Diener, J.K. Stull, A. Groce, J. Mubarak, C.L. Tang, R. Gartman. 1998. Southern California Bight 1994 Pilot Project: V. Demersal fishes and megabenthic invertebrates. Technical Report 308. Southern California Coastal Water Research Project. Westminster, CA.

Schiff, K.C., R.W. Gossett. 1998. Southern California Bight 1994 Pilot Project: III. Sediment Chemistry. Technical Report 306. Southern California Coastal Water Research Project. Westminster, CA.

Bay, S.M., K.C. Schiff, D.J. Greenstein, L.L. Tiefenthaler. 1997. Stormwater runoff effects on Santa Monica Bay: toxicity, sediment quality, and benthic community impacts. Technical Report 300. Conference Proceedings for California and the World Ocean '98.

Annual Report Articles

Layton, B.A., Y. Cao, D.L. Ebentier, K. Hanley, E. Balleste, J. Brandao, M. Byappanahalli, R. Converse, A.H. Farnleitner, J. Gentry- Shields and. 2013. Performance of human fecal anaerobe-associated PCR-based assays in a multi-laboratory method evaluation study.

Sengupta, A., M. Sutula, K. McLaughlin, M.D.A. Howard, L.L. Tiefenthaler, T. Von Bitner. 2013. Terrestrial nutrient loads and fluxes to the Southern California Bight, USA.

Fetscher, A.E., R. Stancheva, J.P. Kociolek, R.G. Sheath, E.D. Stein, R.D. Mazor, P.R. Ode, L.B. Busse. 2013. Development and comparison of stream indices of biotic integrity using diatoms vs. non-diatom algae vs. a combination.

Schnitzer, A., B.H. Jones, R.A. Schaffner, I. Cetinic, E. Fitzpatrick, P.E. Miller, E.L. Seubert, D.A. Caron. 2013. Coastal upwelling linked to toxic Pseudo-nitzschia australis blooms in Los Angeles coastal waters, 2005-2007.

Seubert, E.L., A.G. Gellene, M.D.A. Howard, P. Connell, M. Ragan, B.H. Jones, J. Runyan, D.A. Caron. 2013. Seasonal and annual dynamics of harmful algae and algal toxins revealed through weekly monitoring at two coastal ocean sites off southern California, USA.

Seubert, E.L., M.D.A. Howard, R.M. Kudela, T.N. Stewart, R.W. Litaker, R. Evans, D.A. Caron. 2013. Development, comparison and validation using ELISAs for the analysis of domoic acid in California sea lion body fluids.

Maruya, K.A., N.G. Dodder, R.A. Schaffner, S.B. Weisberg, D. Gregorio, S. Klosterhaus, D.A. Alvarez, E.T. Furlong, K.L. Kimbrough, G.G. Lauenstein, J.D. Christensen. 2013. Refocusing Mussel Watch on contaminants of emerging concern (CECs): The California Pilot Study (2009-10).

Vidal-Dorsch, D.E., R.C. Colli-Dula, S.M. Bay, D.J. Greenstein, L. Wiborg, D. Petschauer, N.D. Denslow. 2013. Gene expression of fathead minnows (*Pimephales promelas*) exposed to two types of treated municipal wastewater effluents.

Stancheva, R., R.G. Sheath, B.A. Read, K.D. McArthur, C. Schroepfer, J.P. Kocielek, A.E. Fetscher. 2013. Nitrogen-fixing cyanobacteria (free living and diatom endosymbionts): Their use in southern California stream bioassessment.

Harwood, V.J., A.B. Boehm, L.M. Sassoubre, K. Vijayavel, J.R. Stewart, T.T. Fong, M.P. Caprais, R.R. Converse, D. Diston, J. Ebdon, J.A. Fuhrman, M. Gourmelon, J. Gentry-Shields, J.F. Griffith, D.R. Kashian, R.T. Noble, H. Taylor, M. Wicki. 2013. Performance of viruses and bacteriophages for fecal source determination in a multi-laboratory, comparative study.

Bourlat, S.J., A. Borja, J. Gilbert, M.I. Taylor, N. Davies, S.B. Weisberg, J.F. Griffith, T. Lettieri, D. Field, J. Benzie, F.O. Glockner, N. Rodriguez-Ezpeleta, D.P. Faith, T.P. Bean, M. Obst. 2013. Genomics in marine monitoring: New opportunities for assessing marine health status.

Arnold, B.F., K.C. Schiff, J.F. Griffith, J.S. Gruber, V. Yau, C.C. Wright, T.J. Wade, S. Burns, J.M. Hayes, C. McGee, M. Gold, Y. Cao, S.B. Weisberg, J.M. Colford Jr. 2013. Swimmer illness associated with marine water exposure and water quality indicators: Impact of widely used assumptions.

Sinigalliano, C.D., J. Ervin, L.C. Van De Werfhorst, B. Badgley, E. Ballesta, J. Bartkowiak, A.B. Boehm, M. Byappanahalli, K.D. Goodwin, M. Gourmelon. 2013. Multi-laboratory evaluations of the performance of *Catelicoccus marimammalium* PCR assays developed to target gull fecal sources.

Cao, Y., L.C. Van De Werfhorst, E.A. Scott, M.R. Raith, P.A. Holden, J.F. Griffith. 2013. Bacteroidales terminal restriction fragment length polymorphism (TRFLP) for fecal source differentiation in comparison to and in combination with universal bacteria TRFLP.

Ode, P., A. Rehn, R.D. Mazor, K.C. Schiff, E.D. Stein, J. May, L. Brown, D. Herbst, D.J. Gillett, K. Lunde, C.P. Hawkins. 2013. Evaluating the adequacy of a reference-site pool for the ecological assessment of streams in environmentally complex regions.

Raith, M.R., C.A. Kelty, J.F. Griffith, A. Schriewer, S. Wuertz, S. Mieszkin, M. Gourmelon, G.H. Reischer, A.H. Farnleitner, J.S. Ervin, P.A. Holden, D.L. Ebentier, J.A. Jay, D. Wang, A.B. Boehm, T.G. Aw, J.B. Rose, E. Ballesta, W.G. Meijer, M. Sivaganesan, O.C. Shanks. 2013. Comparison of PCR and quantitative real-time PCR methods for the characterization of ruminant and cattle fecal pollution sources.

Cao, Y., L.C. Van De Werfhorst, E.A. Dubinsky, B.D. Badgley, M.J. Sadowsky, G.L. Andersen, J.F. Griffith, P.A. Holden. 2013. Evaluation of molecular community analysis methods for discerning

fecal sources and human waste.

Vidal-Dorsch, D.E., S.M. Bay, C. Ribecco, L.J. Sprague, M. Angert, C. Ludka, O. Carnevali, D.J. Greenstein, D. Schlenk, K.M. Kelley, J.A. Reyes, S. Snyder, B. Vanderford, L.C. Wiborg, D. Petschauer, R. Sasik, M. Baker, G. Hardiman. 2013. Genomic and phenotypic response of hornhead turbot exposed to municipal wastewater effluents.

Ebentier, D.L., K.T. Hanley, Y. Cao, B.D. Badgley, A.B. Boehm, J.S. Ervin, K.D. Goodwin, M. Gourmelon, J.F. Griffith, P.A. Holden, C.A. Kelty, S. Lozach, C. McGee, L.A. Peed, M.R. Raith, H. Ryu, M.J. Sadowsky, E.A. Scott, J. Santo Domingo, A. Schriewer, C.D. Sinigalliano, O.C. Shanks, L.C. Van De Werfhorst, D. Wang, S. Wuertz, J.A. Jay. 2013. Evaluation of the repeatability and reproducibility of a suite of qPCR-based microbial source tracking methods.

Greenstein, D.J., S.M. Bay, D. Young, S. Asato, K.A. Maruya, W. Lao. 2013. The use of sediment toxicity identification evaluation methods to evaluate clean-up targets in an urban estuary.

Maruya, K.A., N.G. Dodder, S.B. Weisberg, D. Gregorio, J.S. Bishop, S. Klosterhaus, D.A. Alvarez, E.T. Furlong, S. Bricker, K.L. Kimbrough, G.G. Lauenstein. 2013. The Mussel Watch California Pilot Study on contaminants of emerging concern (CECs): Synthesis and next steps.

Lydy, M.J., P.F. Landrum, A.M.P. Oen, M. Allinson, F. Smedes, A.D. Harwood, H. Li, K.A. Maruya, J. Liu. 2013. Passive sampling methods for contaminated sediments: State of the science for organic contaminants.

Ghosh, U., S. Kane-Driscoll, R.M. Burgess, M.T.O. Jonker, D. Reible, F. Gobas, Y. Choi, S.E. Apitz, K.A. Maruya, W.R. Gala, M. Mortimer, C. Beegan. 2013. Passive sampling methods for contaminated sediments: Practical guidance for selection, calibration and implementation.

Sengupta, A., J.M. Lyons, D.J. Smith, J.E. Drewes, S.A. Snyder, A. Heil, K.A. Maruya. 2013. The occurrence and fate of chemicals of emerging concern (CECs) in coastal urban rivers receiving discharge of treated municipal wastewater effluent.

White, B.P., E.M. Pilgrim, L.M. Boykin, E.D. Stein, R.D. Mazor. 2013. Comparison of four species-delimitation methods applied to a DNA barcode data set of insect larvae for use in routine bioassessment.

Dodder, N.G., K.A. Maruya, P.L. Ferguson, R. Grace, S. Klosterhaus, a.n.d. MJ La Guardia, G.G. Lauenstein, J. Ramirez. 2013. Occurrence of contaminants of emerging concern in mussels (*Mytilus* spp.) along the California coast and the influence of land use, stormwater discharge, and treated wastewater effluent.

Mazor, R.D., E.D. Stein, P.R. Ode, K.C. Schiff. 2013. Integrating intermittent streams into watershed assessments: Applicability of an index of biotic integrity.

Schriewer, A., K.D. Goodwin, C.D. Sinigalliano, A.M. Cox, D. Wanless, J. Bartkowiak, D.L. Ebentier, K.T. Hanley, J. Ervin, L.A. Deering, O.C. Shanks, L.A. Peed, W.G. Meijer, J.F. Griffith, J. SantoDomingo, J.A. Jay, P.A. Holden, S. Wuertz. 2013. Performance evaluation of canine-associated Bacteroidales assays in a multi-laboratory comparison study.

Alvarez, D., K.A. Maruya, N.G. Dodder, W. Lao, E. Furlong, K. Smalling. 2013. Occurrence of contaminants of emerging concern along the California coast (2009-10) using passive sampling devices.

Maruya, K.A., D. Schlenk, P.D. Anderson, N.D. Denslow, J.E. Drewes, A.W. Olivieri, G.I. Scott, S.A. Snyder. 2013. An adaptive, comprehensive monitoring strategy for chemicals of emerging concern (CECs) in California's aquatic ecosystems.

Love, D.C., R.A. Rodriguez, C.D. Gibbons, J.F. Griffith, Q. Yu, J. Stewart, M.D. Sobsey. 2013. Human viruses and viral indicators in marine water at two beaches in southern California, USA.

Lackey, L.G., E.D. Stein. 2013. Evaluation of design-based sampling options for monitoring stream and wetland extent and distribution in California.

Lopez, S.R., T.S. Hogue, E.D. Stein. 2013. A framework for evaluating regional hydrologic sensitivity to climate change using archetypal watershed modeling.

McLaughlin, K., M. Sutula, L. Busse, S. Anderson, J. Crooks, R. Dagit, D. Gibson, K. Johnston, L. Stratton. 2013. A regional survey of the extent and magnitude of eutrophication in Mediterranean estuaries of southern California, USA.

Stein, E.D., B.P. White, R.D. Mazor, J.K. Jackson, J.M. Battle, P.E. Miller, E.M. Pilgrim, B.W. Sweeney. 2013. Does DNA barcoding improve performance of traditional stream bioassessment metrics?

Boehm, A.B., L.C. Van De Werfhorst, J.F. Griffith, P.A. Holden, J.A. Jay, O.C. Shanks, D. Wang, S.B. Weisberg. 2013. Performance of forty-three microbial source tracking methods: A twenty-seven laboratory evaluation study.

Stewart, J.R., A.B. Boehm, E.A. Dubinsky, T.T. Fong, K.D. Goodwin, J.F. Griffith, R.T. Noble, O.C. Shanks, K. Vijayavel, S.B. Weisberg. 2013. Recommendations following a multi-laboratory comparison of microbial source tracking methods.

Cao, Y., C. Hagedorn, O.C. Shanks, D. Wang, J. Ervin, J.F. Griffith, B.A. Layton, C.D. McGee, T.E. Riedel, S.B. Weisberg. 2013. Towards establishing a human fecal contamination index for microbial source tracking.

Ervin, J.S., T.L. Russell, B.A. Layton, K.M. Yamahara, D. Wang, L.M. Sassoubre, Y. Cao, C.A. Kelty,

M. Sivaganesan, A.B. Boehm, P.A. Holden, S.B. Weisberg, O.C. Shanks. 2013. Characterization of fecal concentrations in human and other animal sources by physical, culture-based, and quantitative real-time PCR methods.

Sapozhnikova, Y., E. Wirth, K.C. Schiff, M. Fulton. 2012. Antifouling biocides in water and sediments from California marinas.

Miller, E.F., K.C. Schiff. 2012. Descriptive trends in Southern California Bight demersal fish assemblages, 1994-2008.

Maruya, K.A., D.E. Vidal-Dorsch, S.M. Bay, J.W. Kwon, K. Xia, K.L. Armbrust. 2011. Organic contaminants of emerging concern in sediments and flatfish collected near outfalls discharging treated municipal wastewater effluent to the Southern California Bight.

Lu, J., H. Ryu, J.S. Domingo, J.F. Griffith, N. Ashbolt. 2011. Molecular detection of Campylobacter spp. in California Gull (Larus Californicus) excreta.

Greenstein, D.J., S.M. Bay. 2011. Selection of methods for assessing sediment toxicity in California bays and estuaries.

Maraccini, P.A., D.M. Ferguson, A.B. Boehm. 2011. Diurnal variation in Enterococcus species composition in polluted ocean water: A potential role for the enterococcal carotenoid in protection against photoinactivation.

Bledsoe, B.P., E.D. Stein, R.J. Hawley, D. Booth. 2011. Framework and tool for rapid assessment of stream susceptibility to hydromodification.

Brown, J.S., E.D. Stein, D. Ackerman, J.H. Dorsey, J. Lyon, P.M. Carter. 2011. Metals and bacteria partitioning to various size particles in Ballona Creek stormwater runoff.

Schiff, K.C., B. Luk, D. Gregorio. 2011. Impact of stormwater discharges to water quality in California's areas of special biological significance.

Bay, S.M., D.E. Vidal-Dorsch, D. Schlenk, K.M. Kelley, K.A. Maruya, J.R. Gully. 2011. Integrated coastal effects study: Synthesis of findings.

Hawley, R.J., B.P. Bledsoe, E.D. Stein, B.E. Haines. 2011. Channel evolution model of response to urbanization in southern California.

McLaughlin, K., J.A. Sohm, G.A. Cutter, M.W. Lomas, A. Paytan. 2011. Phosphorus cycling in the Sargasso Sea: Investigation using the oxygen isotopic composition of phosphate, enzyme labeled fluorescence, and turnover times.

Bay, S.M., J.R. Gully, D.J. Greenstein, P.J. Markle, J.A. Ranasinghe. 2011. Relationship of sediment toxicity to benthic community impacts and water body management decisions.

Teixeira, H., S.B. Weisberg, A. Borja, J.A. Ranasinghe, D.B. Cadien, R.G. Velarde, L.L. Lovell, D. Pasko, C.A. Phillips, D.E. Montagne, K.J. Ritter, F. Salas, J.C. Marques. 2011. Calibration and validation of the AZTI's Marine Biotic Index (AMBI) for southern California marine bays.

Solek, C.W., M. Sutula, E.D. Stein, C. Roberts, R. Clark, K. O'Connor, K.J. Ritter. 2011. Determining the health of California's coastal salt marshes using rapid assessment.

Greenstein, D.J., S.M. Bay, M. Jacobe, C. Barton, K. Sakamoto, D. Young, K. Ritter, K.C. Schiff. 2011. Regional assessment of marine and estuarine sediment toxicity in southern California.

Miller, E.F., K.C. Schiff. 2011. Spatial distribution of Southern California Bight demersal fishes in 2008.

Sabin, L.D., K.A. Maruya, W. Lao, D.W. Diehl, D. Tsukada, K.D. Stolzenbach, K.C. Schiff. 2011. A pilot study of air-water exchange of organochlorine compounds at three coastal estuaries in southern California.

Dodder, N.G., K.A. Maruya, G.G. Lauenstein, J. Ramirez, K.J. Ritter, K.C. Schiff. 2011. Distribution and sources of polybrominated diphenyl ethers in the Southern California Bight.

Lao, W., L.L. Tiefenthaler, D.J. Greenstein, K.A. Maruya, S.M. Bay, K. Ritter, K.C. Schiff. 2011. Pyrethroids in southern California coastal sediments.

Forsgren, K.L., S.M. Bay, D.E. Vidal-Dorsch, X. Deng, G. Lu, J. Armstrong, J.R. Gully, D. Schlenk. 2011. Annual and seasonal evaluation of reproductive status in hornyhead turbot at municipal wastewater outfalls in the Southern California Bight.

Nezlin, N.P., M. Sutula, R.P. Stumpf, A. Sengupta. 2011. Phytoplankton blooms detected by SeaWiFS along the central and southern California coast.

Burke, M.P., T.S. Hogue, J. Barco, C. Wessel, A.Y. Kinoshita, E.D. Stein. 2011. Dynamics of pre- and post-fire pollutant loads in an urban fringe watershed.

Lyon, G.S., M. Sutula. 2011. Effluent discharges to the Southern California Bight from large municipal wastewater treatment facilities from 2005 to 2009.

Vidal-Dorsch, D.E., S.M. Bay, K.A. Maruya, S.A. Snyder, R.A. Trenholm, B.J. Vanderford. 2011. Contaminants of emerging concern in municipal wastewater effluents and marine receiving water.

Vidal-Dorsch, D.E., S.M. Bay, M.A. Mays, D.J. Greenstein, D. Young, J. Wolf, D. Pham, A.V.

- Loguinov, C. Vulpe. 2011. Using gene expression to assess the status of fish from anthropogenically influenced estuarine wetlands.
- Thompson, B., J.A. Ranasinghe, S. Lowe, A. Melwani, S.B. Weisberg. 2011. Benthic macrofaunal assemblages of the San Francisco Estuary and Delta.
- Griffith, J.F., S.B. Weisberg. 2011. Challenges in implementing new technology for beach water quality monitoring: Lessons from a California demonstration project.
- Ranasinghe, J.A., E.D. Stein, P.E. Miller, S.B. Weisberg. 2011. Relative performance of the Southern California Benthic Response Index using species abundance and presence-only data: Relevance to DNA Barcoding.
- Converse, R.R., J.F. Griffith, R.T. Noble, R.A. Haugland, K.C. Schiff, S.B. Weisberg. 2011. Correlation between quantitative polymerase chain reaction and culture-based methods for measuring Enterococcus over various temporal scales and three California marine beaches.
- Cao, Y., C.D. McGee, J.F. Griffith, S.B. Weisberg. 2011. Method repeatability for measuring Enterococcus in southern California beach sands.
- Schiff, K.C., B. Luk, D. Gregorio, S. Gruber. 2010. Assessing water quality conditions in southern California's areas of special biological significance.
- Gillett, D.J., D.J. Pondella II, K.C. Schiff, J. Freiwald, J.E. Casselle, C. Shuman, S.B. Weisberg. 2010. Comparing volunteer and professionally collected monitoring data from subtidal rocky reefs in southern California.
- Setty, K.E., K.C. Schiff, J.R. Gully, S.B. Weisberg. 2010. Evolution of monitoring program design for marine outfalls in the Southern California Bight.
2009. Assessing coastal benthic macrofauna community condition using best professional judgement: Developing consensus across North America and Europe.
2009. Bioassessment tools in novel habitats: An evaluation of indices and sampling methods in low-gradient streams in California.
- Stein, E.D., S. Dark, T. Longcore, R. Grossinger, N. Hall, M. Beland. 2009. Historical ecology as a tool for assessing landscape change and wetland restoration priorities.
- Ranasinghe, J.A., K.C. Schiff, D.E. Montagne, T.K. Mikel, D.B. Cadien, R.G. Velarde, C.A. Brantley. 2009. Benthic macrofaunal community condition in the Southern California Bight, 1994-2003.
- Sutula, M., K. Kamer, J. Cable. 2009. The importance of benthic nutrient flux in supporting

eutrophication in an intermittently tidal coastal lagoon.

Stein, E.D., D.B. Cadien. 2009. Ecosystem response to regulatory and management actions: The southern California experience in long-term monitoring.

Converse, R.R., A.D. Blackwood, M. Kirs, R.T. Noble, J.F. Griffith. 2009. Rapid QPCR-based assay for fecal Bacteroides spp. as a tool for assessing fecal contamination in recreational waters.

Reifel, K.M., S.C. Johnson, P.M. DiGiacomo, M.J. Mengel, N.P. Nezlin, J.A. Warrick, B.H. Jones. 2009. Impacts of stormwater runoff in the Southern California Bight: Relationships among plume constituents.

Boehm, A.B., J.F. Griffith, C.D. McGee, T.A. Edge, H.M. Solo-Gabriele, R. Whitman, Y. Cao, M. Getrich, J.A. Jay, D. Ferguson, K.D. Goodwin, C.M. Lee, M. Madison, S.B. Weisberg. 2009. Fecal indicator bacteria (FIB) enumeration in beach sand: A comparison study of FIB extraction methods in medium to coarse sands.

Lao, W., D. Tsukada, D.J. Greenstein, S.M. Bay, K.A. Maruya. 2009. Analysis, occurrence, and toxic potential of pyrethroids and fipronil in sediments from the Ballona Creek estuary.

Meng, X.Z., M.E. Blasius, R.W. Gossett, K.A. Maruya. 2009. Polybrominated diphenyl ethers in pinnipeds stranded along the southern California coast.

Fetscher, A.E., M. Sutula, J.C. Callaway, V.T. Parker, M. Vasey, J.N. Collins, W.G. Nelson. 2009. Patterns in vegetation communities of estuarine wetlands in two California regions: Insights from a probabilistic survey.

Ackerman, D., N.P. Nezlin. 2009. Suspended particle dynamics in a southern California urban estuary during the dry season.

Ackerman, D., E.D. Stein, K.J. Ritter. 2009. Evaluating stormwater sampling approaches using a dynamic watershed model.

Lyon, G.S., E.D. Stein. 2009. Effluent discharges to the Southern California Bight from industrial facilities in 2005.

Brown, J.S., D. Ackerman, E.D. Stein. 2009. Continuous in situ characterization of particulate sizes in urban stormwater: Method testing and refinement.

Solek, C.W., E.D. Stein, M. Sutula. 2009. Demonstration of an integrated watershed assessment using a three-tiered assessment framework.

Griffith, J.F., Y. Cao, C.D. McGee, S.B. Weisberg. 2009. Evaluation of rapid methods and novel

indicators for assessing microbiological beach water quality.

Noble, R.T., A.D. Blackwood, J.F. Griffith, C.D. McGee, S.B. Weisberg. 2009. Comparison of rapid PCR-based and culture-based methods for enumeration of Enterococcus sp. and Escherichia coli in recreational waters.

Kwon, J.W., K.L. Armbrust, D.E. Vidal-Dorsch, S.M. Bay, K. Xia. 2009. Determination of 17 α -ethynylestradiol, carbamazepine, diazepam, simvastatin, and oxybenzone in fish livers.

Stein, E.D., L.L. Tiefenthaler, K.C. Schiff. 2008. Comparison of stormwater pollutant loading by land use type.

Sabin, L.D., K.A. Maruya, W. Lao, D.W. Diehl, D. Tsukada, K.D. Stolzenbach, K.C. Schiff. 2008. Exchange of polycyclic aromatic hydrocarbons between the atmosphere, water, and sediment in southern California coastal embayments.

Tiefenthaler, L.L., E.D. Stein, K.C. Schiff. 2008. Origins and mechanisms of watershed and land use based sources of fecal indicator bacteria in urban stormwater.

Jarvis, E., K.C. Schiff, L. Sabin, M.J. Allen. 2007. Chlorinated hydrocarbons in pelagic forage fishes and squid of the Southern California Bight, USA.

Griffith, J.F., K.C. Schiff, S.B. Weisberg, C.D. McGee, C. Clifton. 2007. Efficacy of shallow water sampling to determine exposure of surfers to indicator bacteria at marine beaches.

Sapozhnikova, Y., E. Wirth, K.C. Schiff, J.S. Brown, M. Fulton. 2007. Antifouling pesticides in the coastal waters of southern California.

Schiff, K.C., B. Bax, P. Markle, T. Fleming, J. Newman. 2007. Wet and dry weather toxicity in the San Gabriel River.

Sabin, L.D., K.C. Schiff. 2007. Metal dry deposition rates along a coastal transect in southern California.

Tiefenthaler, L.L., E.D. Stein, K.C. Schiff. 2007. Watershed and land use-based sources of trace metals in urban stormwater.

Schiff, K.C., J.S. Brown, D.W. Diehl, D.J. Greenstein. 2006. Extent and magnitude of copper contamination in marinas of the San Diego region, California.

Griffith, J.F., K.C. Schiff, G.S. Lyon. 2006. Microbiological water quality at non-human impacted reference beaches in southern California during wet weather.

Zeng, E.Y., D. Tsukada, D.W. Diehl, J. Peng, K.C. Schiff, J.A. Noblett, K.A. Maruya. 2006.

Distribution and mass inventory of total dichlorodiphenyldichloroethylene in the water column of the Southern California Bight.

Colford Jr, J.M., T.J. Wade, K.C. Schiff, C.C. Wright, J.F. Griffith, S.K. Sandhu, S. Burns, J. Hayes, M. Sobsey, G. Lovelace, S.B. Weisberg. 2006. Water quality indicators and the risk of illness in non-point source impacted recreational waters.

Stein, E.D., L.L. Tiefenthaler, K.C. Schiff. 2006. Watershed-based sources of polycyclic aromatic hydrocarbons in urban stormwater.

Sabin, L.D., J.H. Lim, K.D. Stolzenbach, K.C. Schiff. 2006. Contribution of trace metals from atmospheric deposition to stormwater runoff in a small impervious urban catchment.

Noble, R.T., J.F. Griffith, A.D. Blackwood, J.A. Fuhrman, J.B. Gregory, X. Hernandez, X. Liang, A.A. Bera, K.C. Schiff. 2006. Multi-tiered approach using quantitative polymerase chain reaction for tracking sources of fecal pollution to Santa Monica Bay, California.

Sabin, L.D., J.H. Lim, M.T. Venezia, A.M. Winer, K.C. Schiff, K.D. Stolzenbach. 2006. Dry deposition and resuspension of particle-associated metals near a freeway in Los Angeles.

Ackerman, D., E.D. Stein, K.C. Schiff. 2004. Dry-season water quality in the San Gabriel River Watershed.

Sabin, L.D., K.C. Schiff, J.H. Lim, K.D. Stolzenbach. 2004. Atmospheric concentrations of PAH, pesticides, and other semi-volatile organic compounds in the Los Angeles coastal region.

Sabin, L.D., K.C. Schiff, J.H. Lim, K.D. Stolzenbach. 2004. Atmospheric dry deposition of trace metals in the Los Angeles coastal region.

Lu, R., K.C. Schiff, K.D. Stolzenbach. 2004. Nitrogen deposition on coastal watersheds in the Los Angeles region.

Schiff, K.C., D.W. Diehl, A.O. Valkirs. 2004. Copper emissions from antifouling paint on recreational vessels.

Schiff, K.C., S.M. Bay. 2003. Impacts of stormwater discharges on the nearshore benthic environment of Santa Monica Bay.

Schiff, K.C., S.M. Bay, D.W. Diehl. 2003. Stormwater toxicity in Chollas Creek and San Diego Bay, California.

Tiefenthaler, L.L., K.C. Schiff, S.M. Bay, D.J. Greenstein. 2003. Effect of antecedent dry periods on the accumulation of potential pollutants on parking lot surfaces using simulated rainfall.

Ackerman, D., K.C. Schiff, H. Trim, M. Mullin. 2003. A characterization of water quality in the Los Angeles River.

Steinberger, A., E.D. Stein, K.C. Schiff. 2003. Characteristics of dredged material disposal to the Southern California Bight between 1991 and 1997.

Steinberger, A., K.C. Schiff. 2003. Characteristics of effluents from large municipal wastewater treatment facilities between 1998 and 2000.

Steinberger, A., K.C. Schiff. 2003. Characteristics of effluents from non-power industrial facilities in 2000.

Steinberger, A., K.C. Schiff. 2003. Characteristics of effluents from small municipal wastewater treatment facilities in 2000.

Bernstein, B., K.C. Schiff. 2003. The stormwater monitoring coalition: Stormwater research needs in southern California.

Ackerman, D., K.C. Schiff. 2003. Modeling stormwater mass emissions to the Southern California Bight.

Kamer, K., P. Fong, R.L. Kennison, K.C. Schiff. 2003. The relative importance of sediment and water column supplies of nutrients to the growth and tissue nutrient content of the green macroalga *Enteromorpha intestinalis* across an estuarine resource gradient.

Kamer, K., R.L. Kennison, P. Fong, K.C. Schiff. 2003. Equal loads of nutrients administered to macroalgae via pulses of differing frequency and concentration affect growth and tissue nutrients of *Enteromorpha intestinalis* and *Ulva expansa*.

Kamer, K., R.L. Kennison, P. Fong, K.C. Schiff. 2003. Nutrient limitation of the macroalga, *Enteromorpha intestinalis*, across a range of water column nutrients and initial tissue nutrient status.

Tiefenthaler, L.L., K.C. Schiff. 2003. Effects of rainfall intensity and duration on first flush of stormwater pollutants.

Noble, R.T., I.M. Lee, K.C. Schiff. 2003. Inactivation of indicator bacteria from various sources of fecal contamination in seawater and freshwater.

Schiff, K.C., M. Sutula. 2003. Organophosphorous pesticides in stormwater runoff from southern California.

Ackerman, D., K.C. Schiff, S.B. Weisberg. 2003. Evaluating HSPF in an arid, urbanized watershed.

Schiff, K.C., P. Kinney. 2001. Tracking sources of bacterial contamination in stormwater discharges from Mission Bay, California.

Tiefenthaler, L.L., K.C. Schiff, M.K. Leecaster. 2001. Temporal variability patterns of stormwater concentrations in urban stormwater runoff.

Schiff, K.C., S.B. Weisberg, V. Raco-Rands. 2001. Inventory of ocean monitoring in the Southern California Bight.

Schiff, K.C., S.M. Bay, C. Stransky. 2001. Characterization of stormwater toxicants from an urban watershed to freshwater and marine organisms.

Schiff, K.C., L.L. Tiefenthaler. 2001. Anthropogenic versus natural mass emissions from an urban watershed.

Leecaster, M.K., K.C. Schiff, L.L. Tiefenthaler. 2001. Assessment of efficient sampling designs for urban stormwater monitoring.

Schiff, K.C., J. Morton, S.B. Weisberg. 2001. Retrospective evaluation of shoreline water quality along Santa Monica Bay beaches.

Noble, R.T., J.H. Dorsey, M.K. Leecaster, V. Orozco-Borbon, D. Reid, K.C. Schiff, S.B. Weisberg. 2001. A regional survey of the microbiological water quality along the shoreline of the Southern California Bight.

Noble, R.T., M.K. Leecaster, D.F. Moore, K.C. Schiff, S.B. Weisberg. 2001. Relationships among bacterial indicators during a regional survey of microbiological water quality along the shoreline of the Southern California Bight.

Schiff, K.C., S.B. Weisberg, J.H. Dorsey. 1999. Microbiological monitoring of marine recreational waters in southern California.

Schiff, K.C. 1999. Sediment chemistry on the Mainland Shelf of the Southern California Bight.

Schiff, K.C., M.J. Allen. 1997. Bioaccumulation of chlorinated hydrocarbons in livers of flatfishes from the Southern California Bight.

Schiff, K.C. 1997. Review of existing stormwater monitoring programs for estimating bight-wide mass emissions from urban runoff.

Bay, S.M., K.C. Schiff. 1997. Impacts of stormwater discharges on the nearshore environment of Santa Monica Bay.

Schiff, K.C., S.B. Weisberg. 1997. Iron as a reference element for determining trace metal

enrichment in California coastal shelf sediments.

Schiff, K.C., M. Bergen. 1996. Impact of wastewater on reproduction of Amphiodia urtica.