

Dr. Eric Stein

Department Head

Biology Department

Southern California Coastal Water Research Project

Education

D.Env., environmental science and engineering, University of California, Los Angeles, 1995

M.Ed., science education, University of California, Los Angeles, 1988

B.S., biology, University of California, Los Angeles, 1987

Professional Experience

Department Head, Southern California Coastal Water Research Project. Costa Mesa, CA. 2002-Present

Adjunct Associate Professor, California State University, Los Angeles, Department of Geography and Urban Analysis. Los Angeles, CA. 1998-2001

Principal Ecologist, Associate Principal, PCR Services Corporation. Pasadena, CA. 1998-2002

Biologist, Senior Project Manager, U.S. Army Corps of Engineers, Los Angeles District, Regulatory Branch. Los Angeles, CA. 1993-1998

Graduate Researcher, UCLA Environmental Science and Engineering Program. Los Angeles, CA. 1991-1993

Biology Teacher, Alhambra High School, Alhambra City School District. Alhambra, CA. 1988-1991

Educational Technology Consultant, IBM Educational Instruction Division. 1990-1995

Research Associate, UCLA Department of Physiology. Los Angeles, CA. 1984-1991

Honors and Awards

Doug Wilcox Award for Outstanding Associate Editor for Wetlands (2012)

Paul Douglas State Teaching Fellowship

U.S. Army Achievement Medal for Civilian Service

Professional Appointments

LMU Center for Urban Resilience Academic Science Advisory Committee (2019-present)

California Environmental Flows Workgroup (2017-present)

Special Issue Guest Editor (Issue on Environmental Water), *Freshwater Biology* (2016-2018)

Santa Clara River Estuary Ecological Flows Science Review Panel (2017-present)

California 4th Climate Assessment Workgroup (2017-2018)

Tijuana Estuary Tidal Restoration Program, Science Advisory Team (2016-present)

Wetland Recovery Project, Science Advisory Panel member (2014-present)

California Healthy Streams Partnership (2011-present)

Santa Monica Bay Restoration Commission Technical Advisory Committee (2013-present)

USEPA, Environmental Law Institute (ELI), Nature Conservancy (TNC) - applying a watershed approach to wetlands mitigation decisions - technical advisory committee (2012-present).

Associate Editor, *Wetlands* (Journal of the Society of Wetland Scientists) (2010-2015)

California Wetland Monitoring Workgroup, Co-chair (2008-2014)

USDA-NRCS National Easement Assessment Project - technical team (2011-2013)

U.S. Army Corps of Engineers Workgroup: Quantifying Significance of Aquatic Ecosystems (2010)

Southern California Wetlands Recovery Program Science Advisory Panel, Chair (2004-2010)

Ormond Beach Restoration Science Advisory Committee (2010)

Ballona Wetland Restoration Scientific Advisory Committee, Co-chair (2007-2010)

NOAA National Estuary Eutrophication Workgroup, S. Pacific Coast Coordinator (2007)

Society of Wetland Scientists, Western Chapter President (2008-2010)

Society of Wetland Scientists, Wetland Concerns Committee (2006-present)

National Wetlands Awards, Selection Committee (2007, 2008, 2012)

California State Stream and Wetland Protection Policy Science Advisory Team (2009-2012)

NOAA Water Quality Synthesis, Assessment, and Data Management (SAM) Technical Advisory Committee (2007-2009)

San Francisco Estuary Institute Sources Pathways and Loading Work Group (2006-2011)

Malibu Legacy Park Technical Advisory Committee (2008-2010)

US Army Corps of Engineers - National Workgroup on Arid Stream Assessment (2008)

Bay Area Wetlands Regional Monitoring Program - Science Advisory Group (2008-2012)

Technical Advisory Committee member for Assessment of Ecosystem Values of Watersheds in Southern California (2009-2011)

Science Advisory Panel for the National Evaluation of the Ecological Performance of Compensatory Mitigation (2009-2010)

Professional Societies and Certifications

Society for Freshwater Science

International Association for Hydro-Environment Engineering and Research

Society of Environmental Toxicology and Chemistry

Society for Wetland Scientists

American Water Resources Association

American Geophysical Union

Pi Lambda Theta Educational Honor Society

Journal Articles

Harvey, M.E., S.N. Giddings, E.D. Stein, J.A. Crooks, C. Whitcraft, T. Gallien, J.L. Largier, L.L. Tiefenthaler, H. Meltzer, G. Pawlak, K. Thorne, K. Johnston, R. Ambrose, S.C. Schroeter, H.M. Page, H. Elwany. 2020. Effects of Elevated Sea Levels and Waves on Southern California Estuaries During the 2015-2016 El Niño. *Estuaries and Coasts* DOI:10.1007/s12237-019-00676-1.

Sultana, R., M. Mroczek, A. Sengupta, S. Dallman, E.D. Stein. 2020. Improving Effective Impervious Estimates to Inform Stormwater Management. *Water Resources Management* DOI:10.1007/s11269-019-02474-7.

Stein, E.D., C.L. Doughty, J. Lowe, M. Cooper, E. Sloane, D. Bram. 2020. Establishing Targets for Regional Coastal Wetland Restoration Planning Using Historical Ecology and Future Scenario Analysis: The Past, Present, Future Approach. *Estuaries and Coasts* DOI:10.1007/s12237-019-00681-4.

Yarnell, S.M., E.D. Stein, J.A. Webb, T. Grantham, R.A. Lusardi, J. Zimmerman, R.A. Peek, B.A. Lane, J. Howard, S. Sandoval-Solis. 2020. A Functional Flows Approach to Selecting Ecologically Relevant Flow Metrics for Environmental Flow Applications. *River Research and Applications* DOI:10.1002/rra.3575.

Giraldo, M.A., S. Dark, P. Pendleton, E.D. Stein, R.D. Mazor, J. Andreas. 2019. Environmental predictors of stream flow in semi-arid watersheds for biological assessments. *Ecological Indicators* 104:429-438.

Beck, M., R.D. Mazor, S. Johnson, K. Wisenbaker, J. Westfall, P.R. Ode, R. Hill, C. Loflen, M. Sutula, E.D. Stein. 2019. Prioritizing Management Goals for Stream Biological Integrity Within the Developed Landscape Context. *Freshwater Science* DOI:10.1086/705996.

Simons, A.L., R.D. Mazor, E.D. Stein, S. Nuzhdin. 2019. Using alpha, beta, and zeta diversity in describing the health of stream-based benthic macroinvertebrate communities. *Ecological Applications* DOI:10.1002/eap.1896.

Parker, S.R., S.K. Adams, R.W. Lammers, E.D. Stein, B.P. Bledsoe. 2019. Targeted hydrologic model calibration to improve prediction of ecologically-relevant flow metrics. *Journal of Hydrology* 573:546-556.

Doughty, C.L., K.C. Cavanaugh, R.F. Ambrose, E.D. Stein. 2019. Evaluating regional resiliency of coastal wetlands to sea level rise through hypsometry-based modeling. *Global Change Biology* 25:78-92.

Lane, B.A., S. Sandoval-Solis, E.D. Stein, S.M. Yarnell, G.B. Pasternack, H.E. Dahlke. 2018. Beyond

Metrics? The Role of Hydrologic Baseline Archetypes in Environmental Water Management. *Environmental Management* DOI:10.1007/s00267-018-1077-7.

Guo, L., M. Brand, B.F. Sanders, E. Foufoula-Georgiou, E.D. Stein. 2018. Tidal asymmetry and residual sediment transport in a short tidal basin under sea level rise. *Advances in Water Resources* 121:1-8.

Mazor, R.D., J.T. May, A. Sengupta, K. McCune, B.P. Bledsoe, E.D. Stein. 2018. Tools for managing hydrologic alteration on a regional scale: Setting targets to protect stream health. *Freshwater Biology* DOI:10.1111/fwb.13062.

Arthington, A.H., J.G. Kennen, E.D. Stein, J.A. Webb. 2018. Recent advances in environmental flows science and water management - Innovation in the Anthropocene. *Freshwater Biology* DOI:10.1111/fwb.13108.

Kennen, J.G., E.D. Stein, J.A. Webb. 2018. Evaluating and managing environmental water regimes in a water-scarce and uncertain future. *Freshwater Biology* DOI:10.1111/fwb.13104.

Sengupta, A., S.K. Adams, B.P. Bledsoe, E.D. Stein, K. McCune, R.D. Mazor. 2018. Tools for managing hydrologic alteration on a regional scale: Estimating changes in flow characteristics at ungauged sites. *Freshwater Biology* DOI:10.1111/fwb.13074.

Sengupta, A., R.J. Hawley, E.D. Stein. 2018. Predicting Hydromodification in Streams using Non-Linear Memory Based Algorithms. A Southern California case study. *Journal of Water Resources Planning and Management* DOI:10.1061/(ASCE)WR.1943-5452.0000853.

Stein, E.D., A. Sengupta, R.D. Mazor, K. McCune, B.P. Bledsoe, K. McCune, S. Adams. 2017. Application of regional flow-ecology relationships to inform watershed management decisions: Application of the ELOHA framework in the San Diego River watershed, California, USA. *Ecohydrology* 10:1869.

Fong, L.S., E.D. Stein, R.F. Ambrose. 2017. Development of Restoration Performance Curves for Streams in Southern California Using an Integrative Condition Index. *Wetlands* 37:289-299.

Stein, E.D., J.S. Brown, R.D. Mazor. 2017. Transferability of bioassessment indices among water body types and ecoregions: A California experiment in wetland assessment. *Ecological Indicators* 81:65-73.

Howard, M.D.A., C. Nagoda, R.M. Kudela, K. Hayashi, A. Tatters, D.A. Caron, L. Busse, J.S. Brown, M. Sutula, E.D. Stein. 2017. Microcystin Prevalence throughout Lentic Waterbodies in Coastal Southern California. *Toxins* 9:231.

Pyne, M.I., D.M. Carlisle, C.P. Konrad, E.D. Stein. 2017. Classification of California streams using

combined deductive and inductive approaches: Setting the foundation for analysis of hydrologic alteration. *Ecohydrology* 10:e1802.

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.

Saintilan, N., K. Rogers, C. Toms, E.D. Stein, D. Jacobs. 2016. Intermittent Estuaries: Linking Hydro-geomorphic Context to Climate Change Resilience. *Journal of Coastal Research* 75:133-137.

Brooks, R.P., D. Faber-Langendoen, G. Serenbetz, J. Rocchio, E.D. Stein, K. Walz. 2016. Towards Creating a National Reference Wetlands Registry. *National Wetlands Newsletter* 38:7-11.

Feldman, D.L., A. Sengupta, L. Stuvick, E.D. Stein, V. Pettigrove, M. Arora. 2015. Governance issues in developing and implementing offsets for water management benefits: Can preliminary evaluation guide implementation effectiveness? *WIREs Water* 2:121-130.

Stein, E.D., L.G. Lackey, J.S. Brown. 2015. How accurate are probability-based estimates of wetland extent? Results of a California validation study. *Wetlands Ecology and Management* 24:347-356.

Cox, H., E.D. Stein, L. Protopapadakis, M. Dojiri. 2015. Water Resources: Water Supply and Use from a Water Quality Perspective. *Urban Coast* 5:3-10.

Fetscher, A.E., E.D. Stein, M.D.A. Howard. 2015. Looking Ahead: Preliminary Examination of Stream Cyanotoxins in Santa Monica Bay and California Watersheds. *Urban Coast* 5:198-200.

Fetscher, A.E., M.D.A. Howard, R. Stancheva, R.M. Kudela, E.D. Stein, M. Sutula, L.B. Busse, R.G. Sheath. 2015. Wadeable streams as widespread sources of benthic cyanotoxins in California, USA. *Harmful Algae* 49:105-116.

Stein, E.D. 2015. Habitat Highlights: Regional Stream Monitoring in Southern California. *Urban Coast* 5:128-129.

Ambrose, R.F., J.H. Dorsey, K. Johnston, E.D. Stein. 2015. Habitat Conditions: Coastal Wetlands. *Urban Coast* 5:59-68.

Dagit, R., F. Federico, L. Kats, E.D. Stein. 2015. Habitat Conditions: Freshwater Aquatic and Riparian Habitats. *Urban Coast* 5:48-58.

Von Bitner, T., E.D. Stein, L. Protopapadakis, K. Thorsen. 2015. Water Resources: Trash and Debris. *Urban Coast* 5:29-34.

Gibson, J.F., E.D. Stein, D.J. Baird, C.M. Finlayson, X. Zhang, M. Hajibabaei. 2015. Wetland Ecogenomics - The Next Generation of Wetland Biodiversity and Functional Assessment. *Wetland Science and Practice* 32:27-32.

White, B.P., E.M. Pilgrim, L.M. Boykin, E.D. Stein, R.D. Mazor. 2014. Comparison of four species-delimitation methods applied to a DNA barcode data set of insect larvae for use in routine bioassessment. *Freshwater Science* 33:338-348.

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.

Lackey, L.G., E.D. Stein. 2014. Evaluating Alternative Temporal Survey Designs For Monitoring Wetland Area And Detecting Changes Over Time In California. *Journal of the American Water Resources Association* 51:388-399.

Lackey, L.G., E.D. Stein. 2014. Selecting the optimum plot size for a California design-based stream and wetland mapping program. *Environmental Monitoring and Assessment* 186:2599-2608.

Stein, E.D., B.P. White, R.D. Mazor, J.K. Jackson, J.M. Battle, P.E. Miller, E.M. Pilgrim, B.W. Sweeney. 2014. Does DNA barcoding improve performance of traditional stream bioassessment metrics? *Freshwater Science* 33:302-311.

Jackson, J.K., J.M. Battle, B.P. White, E.M. Pilgrim, E.D. Stein, P.E. Miller, B.W. Sweeney. 2014. Cryptic biodiversity in streams: a comparison of macroinvertebrate communities based on morphological and DNA barcode identifications. *Freshwater Science* 33:312-324.

Stein, E.D., M.C. Martinez, S. Stiles, P.E. Miller, E.V. Zakharov. 2014. Is DNA Barcoding Actually Cheaper and Faster than Traditional Morphological Methods? Results from a Survey of Freshwater Bioassessment Efforts in the United States. *PLoS ONE* 9:e95525.

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. *Journal of Applied Phycology* 26:433-450.

Brown, J.S., E.D. Stein, D. Ackerman, J.H. Dorsey, J. Lyon, P.M. Carters. 2013. Metals and bacteria partitioning to various size particles in Ballona Creek storm water runoff. *Environmental Toxicology and Chemistry* 32:320-328.

Stein, E.D., B.P. White, R.D. Mazor, P.E. Miller, E.M. Pilgrim. 2013. Evaluating ethanol-based sample preservation to facilitate use of DNA barcoding in routine freshwater biomonitoring programs using benthic macroinvertebrates. *PLoS ONE* 8:e51273.

Stein, E.D., M.R. Cover, A.E. Fetscher, C. O'Reilly, R. Guardado, C.W. Solek. 2013. Reach-scale geomorphic and biological effects of localized streambank armoring. *Journal of the American Water Resources Association* 49:780-792.

Stein, E.D. 2013. Using regional stormwater monitoring programs to provide reference data for wetland mitigation performance evaluation. *National Wetlands Newsletter* 35:13-14.

Lackey, L.G., E.D. Stein. 2013. Evaluation of design-based sampling options for monitoring stream and wetland extent and distribution in California. *Wetlands* 33:717-725.

Burke, M.P., T.S. Hogue, A. Kinoshita, J. Barco, C. Wessel, E.D. Stein. 2013. Pre- and post-fire pollutant loads in an urban fringe watershed in Southern California. *Environmental Monitoring and Assessment* 185:10131-10145.

Bledsoe, B.P., E.D. Stein, R.J. Hawley, D. Booth. 2012. Framework and tool for rapid assessment of stream susceptibility to hydromodification. *Journal of the American Water Resources Association* 48:788-808.

Hawley, R.J., B.P. Bledsoe, E.D. Stein, B.E. Haines. 2012. Channel evolution model of semiarid stream response to urban-induced hydromodification. *Journal of the American Water Resources Association* 48:722-744.

Stein, E.D., J.S. Brown, T.S. Hogue, M.P. Burke, A. Kinoshita. 2012. Stormwater contaminant loading following southern California wildfires. *Environmental Toxicology and Chemistry* 31:2625-2638.

Dark, S., E.D. Stein, D. Bram, J. Osuna. 2012. Historical Ecology as a Living Resource for Informing Urban Wetland Restoration. *Urban Coast* 3:54-60.

Solek, C.W., M. Sutula, E.D. Stein, C. Roberts, R. Clark, K. O'Connor, K.J. Ritter. 2012. Determining the health of California's coastal salt marshes using rapid assessment. *Wetland Science and Practice* 29:8-28.

Brown, J.S., D. Ackerman, E.D. Stein. 2012. Continuous in situ characterization of particulate sizes in urban stormwater: Method testing and refinement. *Journal of Environmental Engineering* 138:673-679.

Lopez, S.R., T.S. Hogue, E.D. Stein. 2012. A framework for evaluating regional hydrologic sensitivity to climate change using archetypal watershed modeling. *Hydrology and Earth System*

Sciences Discussions 9:13729-13771.

Ranasinghe, J.A., E.D. Stein, P.E. Miller, S.B. Weisberg. 2012. Performance of two southern California benthic community condition indices using species abundance and presence-only data: Relevance to DNA barcoding. *PLoS ONE* 7:e40875.

Ackerman, D., E.D. Stein, K.J. Ritter. 2011. Evaluating performance of stormwater sampling approaches using a dynamic watershed model. *Environmental Monitoring and Assessment* 180:283-302.

Solek, C.W., E.D. Stein, M. Sutula. 2011. Demonstration of an integrated watershed assessment using a three-tiered assessment framework. *Wetlands Ecology and Management* 19:459-474.

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.

Stein, E.D., S. Dark, T. Longcore, R. Grossinger, N. Hall, M. Beland. 2010. Historical ecology as a tool for assessing landscape change and informing wetland restoration priorities. *Wetlands* 30:589-601.

Stein, E.D., D.B. Cadien. 2009. Ecosystem response to regulatory and management actions: The southern California experience in long-term monitoring. *Marine Pollution Bulletin* 59:91-100.

Stein, E.D., A.E. Fetscher, R.P. Clark, A. Wiskind, J.L. Grenier, M. Sutula, J.N. Collins, C. Grosso. 2009. Validation of a wetland rapid assessment method: Use of EPA's Level 1-2-3 Framework for method testing and refinement. *Wetlands* 29:648-665.

Tiefenthaler, L.L., E.D. Stein, G.S. Lyon. 2009. Fecal indicator bacteria (FIB) levels during dry weather from southern California reference streams. *Environmental Monitoring and Assessment* 155:477-492.

Lyon, G.S., E.D. Stein. 2009. How effective has the Clean Water Act been at reducing pollutant mass emissions to the Southern California Bight over the past 35 years?. *Environmental Monitoring and Assessment* 154:413-426.

Nezlin, N.P., K. Kamer, J. Hyde, E.D. Stein. 2009. Dissolved oxygen dynamics in a eutrophic estuary, Upper Newport Bay, California. *Estuarine, Coastal and Shelf Science* 82:139-151.

Stein, E.D., B. Bernstein. 2008. Integrating probabilistic and targeted compliance monitoring for comprehensive watershed assessment. *Environmental Monitoring and Assessment* 144:117-129.

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.

Ackerman, D., E.D. Stein. 2008. Estimating the variability and confidence of land use and imperviousness relationships at a regional scale. *Journal of the American Water Resources Association* 44:996-1008.

Ackerman, D., E.D. Stein. 2008. Evaluating the effectiveness of best management practices using dynamic modeling. *Journal of Environmental Engineering* 134:628-639.

Yoon, V.K., E.D. Stein. 2008. Natural catchments as sources of background levels of storm-water metals, nutrients, and solids. *Journal of Environmental Engineering* 134:961-973.

Stein, E.D., V.K. Yoon. 2008. Dry weather flow contribution of metals, nutrients, and solids from natural catchments. *Water, Air, and Soil Pollution* 190:183-195.

Stein, E.D., D. Ackerman. 2007. Dry weather water quality loadings in arid, urban watersheds of the Los Angeles basin, California, USA. *Journal of the American Water Resources Association* 43:398-413.

Nezlin, N.P., K. Kamer, E.D. Stein. 2007. Application of color infrared aerial photography to assess macroalgal distribution in an eutrophic estuary, upper Newport Bay, California. *Estuaries and Coasts* 30:855-868.

Sutula, M., E.D. Stein, J.N. Collins, A.E. Fetscher, R. Clark. 2006. A practical guide for the development of a wetland assessment method: the California experience. *Journal of the American Water Resources Association* 42:157-175.

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.

Nezlin, N.P., P.M. DiGiacomo, E.D. Stein, D. Ackerman. 2005. Stormwater runoff plumes observed by SeaWiFS radiometer in the Southern California Bight. *Remote Sensing of Environment* 98:494-510.

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.

Nezlin, N.P., E.D. Stein. 2005. Spatial and temporal patterns of remotely-sensed and field-measured rainfall in southern California. *Remote Sensing of Environment* 96:228-245.

Stein, E.D., L.L. Tiefenthaler. 2005. Dry-weather metals and bacteria loading in an arid, urban watershed: Ballona Creek, California. *Water, Air, and Soil Pollution* 164:367-382.

Stein, E.D., M. Mattson, A.E. Fetscher, K.J. Halama. 2004. Influence of Geologic Setting on Slope Wetland Hydrodynamics. *Wetlands* 24:244-260.

Book Chapters

Collins, J., E.D. Stein. 2018. California Rapid Assessment Method for Wetlands and Riparian Areas (CRAM). in: J. Dorney, R. Savage, R. Tiner, P. Adamus (eds.), *Wetland and Stream Rapid Assessments: Development, Validation, and Application* pp. 353-362. Elsevier Publishers. London, UK.

Technical Reports

Stein, E.D., J.S. Brown. 2020. Aquatic Resource Type Conversion Evaluation Framework. Technical Report 1110. Southern California Coastal Water Research Project. Costa Mesa, CA.

Stein, E.D., Y. Sanchez. 2019. Review of Recreational Uses and Associated Flow Needs Along the Main-stem of Los Angeles River. Technical Report 1088. Southern California Coastal Water Research Project. Costa Mesa, CA.

Taylor, J., E.D. Stein, M. Beck, K. Flint, A. Kinoshita. 2019. Vulnerability of Stream Biological Communities in Los Angeles and Ventura Counties to Climate Change Induced Alterations of Flow and Temperature. Technical Report 1084. Southern California Coastal Water Research Project. Costa Mesa, CA.

Stein, E.D., J.S. Brown, A. Barrera. 2019. Aquatic Resource Type Conversion Evaluation Framework: Literature Review and Summary of Existing State of Practice. Technical Report 1074. Southern California Coastal Water Research Project. Costa Mesa, CA.

Lowe, J., E.D. Stein, E. Beller, J. Collins, M. Cooper, J. Crooks, H. Dennis, C. Doughty, G. Gauthier, J. Gonzalez, K. Kalchmayr, S. Kelly, K. McKnight, A. Richey, A. Robinson, E. Sloane, M. Sutula, C. Whitcraft. 2018. Wetlands on the Edge: The Future of Southern California's Wetlands: Regional Strategy 2018. Technical Report 1055. California State Coastal Conservancy. Oakland, CA.

Kacev, D., D.J. Gillett, A.F. de Carvalho, C. Cash, S. Walther, C.D. Larsen, A. Thompson, L. Thompson, N. Bowlin, K. Goodwin, E.D. Stein. 2018. Assessment of Ichthyoplankton Metabarcoding for Routine Monitoring. Technical Report 1031. Southern California Coastal Water Research Project. Costa Mesa, CA.

Stein, E.D., J. Taylor, A. Sengupta, S.M. Yarnell. 2018. Evaluating the Effect of Changes in Flow and Water Temperature on Stream Habitats and Communities in the Los Angeles/Ventura Region. Technical Report 1034. Southern California Coastal Water Research Project. Costa Mesa, CA.

Beck, M., R.D. Mazor, E.D. Stein, R. Maas, D.D. Mello, D. Bram. 2017. Mapping of Non-Perennial and Ephemeral Streams in the Santa Ana Region. Technical Report 1012. Southern California Coastal Water Research Project. Costa Mesa, CA.

Stein, E.D., K.B. Lunde, J.S. Brown. 2017. Assessment of the condition of San Francisco Bay Area depressional wetlands. Technical Report 940. Surface Water Ambient Monitoring Program. Sacramento, CA.

Safran, S., S. Baumgarten, E. Beller, J. Crooks, R. Grossinger, J. Lorda, T. Longcore, D. Bram, S. Dark, E.D. Stein, T. McIntosh. 2017. Tijuana River Valley Historical Ecology Investigation. Technical Report 967. San Francisco Estuary Institute. Richmond, CA.

Stein, E.D., R.D. Mazor, A. Sengupta, K. McCune, B. Bledsoe, S. Adams, S. Eberhart, M. Pyne, P. Ode, A. Rehn. 2017. Development of Recommended Flow Targets to Support Biological Integrity Based on Regional Flow-ecology Relationships for Benthic Macroinvertebrates in Southern California Streams. Technical Report 974. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mazor, R.D., E.D. Stein. 2017. 2015 Report on the Stormwater Monitoring Coalition Regional Stream Survey. Technical Report 963. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mazor, R.D., P.R. Ode, A.C. Rehn, E.D. Stein. 2017. Spatial statistical network models to estimate the spatial representativeness of bioassessment samples. Technical Report 979. Southern California Coastal Water Research Project. Costa Mesa, CA.

Mazor, R.D., J.S. Brown, E.D. Stein, J.R. Olson, M.D. Robinson, T. Clark. 2017. Assessment of Episodic Streams in the San Diego Region. Technical Report 1011. Southern California Coastal Water Research Project. Costa Mesa, CA.

Brown, J.S., E.D. Stein, C. Solek, A.E. Fetscher. 2016. Assessment of the Condition of Southern California Depressional Wetlands: Application of Macroinvertebrate, Diatom and Overall Condition Indices for Assessing Southern California Depressional Wetlands. Technical Report 921. State Water Resources Control Board Surface Water Ambient Monitoring Program. Sacramento, CA.

Stein, E.D., A. Sengupta, R.D. Mazor, K. McCune. 2016. Application of Regional Flow-ecology to Inform Management Decision in the San Diego River Watershed. Technical Report 948. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.

Fetscher, A.E., K. Lunde, E.D. Stein, J.S. Brown. 2015. Standard Operating Procedures (SOP) for Collection of Macroinvertebrates, Benthic Algae, and Associated Physical Habitat Data in California Depressional Wetlands. Technical Report 832. Southern California Coastal Water

Research Project Authority. Costa Mesa, CA.

Johnston, K., I. Medel, S. Anderson, E.D. Stein, C. Whitcraft, J. Crooks. 2015. Estuarine Wetland Monitoring Manual: Application and Assessment of USEPA Three-Tiered Monitoring Strategy to Southern California Coastal Wetlands. Technical Report 880. The Bay Foundation. Los Angeles, CA.

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