

1 COLIN A. BAILEY (SBN 239559)
2 THE ENVIRONMENTAL JUSTICE COALITION FOR WATER, A NONPROFIT PUBLIC BENEFIT
3 CORPORATION

4 Physical address: 909 12th Street, Suite 200, Sacramento, California 95814

5 Mailing address: P.O. Box 188911, Sacramento, CA 95818-8911

6 Telephone: (916) 432-EJCW(3529)

7 Email: colin@ejcw.org

8
9 Attorney for Protestant The Environmental Justice Coalition for Water
10
11

12 **BEFORE THE**

13
14 **CALIFORNIA STATE WATER RESOURCES CONTROL BOARD**
15

16 **HEARING IN THE MATTER OF**
17 **CALIFORNIA DEPARTMENT OF**
18 **WATER RESOURCES AND UNITED**
19 **STATES BUREAU OF RECLAMATION**
20 **REQUEST FOR A CHANGE IN POINT**
21 **OF DIVERSION FOR CALIFORNIA**
22 **WATERFIX**

23 **PREPARED DIRECT TESTIMONY OF**
24 **[FULL NAME] ON BEHALF OF THE**
25 **ENVIRONMENTAL JUSTICE**
26 **COALITION FOR WATER**

FRASER M. SHILLING, Ph.D.

CONTACT

Department of Environmental Science and Policy, University of California, Davis, CA 95616
Phone: (530) 752-7859; fax: (530) 752-3350; fmshilling@ucdavis.edu

RESEARCH INTERESTS

Mr. Shilling's current work focuses on three research areas: landscape and transportation ecology, indicators of ecosystem performance, and policy issues associated with water pollution. He collaborates with social scientists, natural scientists, and humanities professors in interdisciplinary investigations of land-use, water policy, and transportation policy implications. Mr. Shilling is co-Director of the UC Davis Road Ecology Center and the China-US Land Ecology Center and a research scientist in the Department of Environmental Science and Policy. He practices at the interface between science and policy, requiring that he collaborate and interact with regulatory agencies, resource management agencies, community organizations, and academics of many disciplines

EDUCATION

Ph.D. in Biological Sciences, University of Southern California, 1991
B.Sc. in Biological Sciences, University of Southern California, 1986

PROFESSIONAL RESEARCH EXPERIENCE

2015-present	Academic Coordinator II, Department of Environmental Science and Policy
2004-present	Co-Director, UC Davis Road Ecology Center
2000-2014	Staff Research Associate IV, Department of Environmental Science and Policy
1998-2000	Research Coordinator, Sierra Nevada Network for Education and Research, UC Center for Water and Wildlands Resources
1995-1998	Postdoctoral Fellow, Division of Biological Sciences and the Institute of Theoretical Dynamics, University of California, Davis (NIH and ITD-funded)
1991-1994	Postdoctoral Fellow, University of Connecticut (NIH-funded)

SUPERVISORY AND TEACHING EXPERIENCE

Course Director	<p>"<u>General Ecology</u>" (4-unit undergraduate class) at the Thai Nguyen University for Agriculture and Forestry, Vietnam, Fall, 2013. "<u>Social Surveying Methods</u>" (2 & 4-unit graduate course), for CRD and GGG methods credit, UC Davis, Spring, 2011. "<u>Improving Community and Landscape Connectivity</u>" (2-unit graduate seminar), Transportation Studies Program, UC Davis, Fall, 2009. "<u>Road Ecology: Road Effect Zone</u>" (2-unit graduate seminar), Transportation Studies Program, UC Davis, Winter, 2008. "<u>Road Ecology</u>" (4-unit graduate course), Transportation Studies Program, UC Davis, Spring, 2007. "<u>Modeling Reserve Design</u>" (2-unit graduate seminar) Department of Environmental Science and Policy, UC Davis, 1995-96. "<u>Developmental Biology of Marine Invertebrates</u>" (40% of 4-unit undergraduate course), Bodega Marine Laboratory, UC Davis, Spring, 1995.</p>
-----------------	--

1 Lecturer “Advanced Biochemistry (lab)”, Molecular and Cellular Biology 120L,
UC Davis, 1999.

2 Guest Lecturer “California Indian Environmental Policy II” (NAS 162), UC Davis, 2014; “Water
3 Policy”, UC Davis, 2005, 2006, 2007, 2008, 2010. “Developmental Mechanisms”,
4 Oregon Health Sciences University, 1994 “Cell Biology”, UC Davis, 1996 and
1997.

5 Recent Projects Coordinated the 3rd California Connectivity Forum (December 3rd, 2012).
6 Designed and co-coordinated the California Sustainability Indicators Symposium
7 (2011) in Sacramento and Los Angeles. Designed and coordinated the 2nd
8 California Connectivity Forum (2010). Co-designed and coordinated the Best
9 Science in Connectivity Workshop sponsored by the Wildlife Conservation
10 Society (2009). Co-designed and coordinated the California Connectivity Forum
11 (2008). Designed and directed 3 Road Ecology Center workshops on road effects;
integrated land-use, conservation, and transportation planning; and habitat
connectivity. Designed and conducted a 2-day workshop for Washington
Department of Natural Resources on Developing Decision-Support Systems for
Forested Landscapes. Designed and directed 5 regional workshops on watershed
assessment throughout California (2004-2006).

12 **ACADEMIC COMMUNITY AND PUBLIC SERVICE**

13 Journal Editor: Korean Journal of Civil Engineering (former Associate Editor)

14 Journal Reviewer: Ecological Indicators, Landscape Ecology, Conservation Biology, Biological
15 Conservation, Environmental Management, Landscape and Urban Planning, Transportation
16 Research Record, Ecoscience, Environmental Modeling and Software, Ecological Engineering, Land
17 Degradation and Development, Environmental Science and Pollution Research, Open Urban Studies
18 and Demography Journal, Biological Bulletin (past reviewer), Developmental Biology (past
19 reviewer)

20 Transportation Research Board: Strategic Highway Research Program 2: Expert Task Group (2007-
2009); member TRB Sustainable Transportation Indicators Subcommittee (current); member TRB
21 Ecology and Transportation Committee (ADC30, current); co-chair TRB Animal Vehicle Collision
22 Subcommittee (ANB20-2, current)

23 Federal Highways Administration: Eco-Logical Champion, providing on-call technical assistance to
24 state DOTs and MPOs (2014-present)

25 IENE 2016: Member of Programme Committee

26 Review Panelist: Water Research Foundation (2015-16)

27 CALFED: Member of Watershed Program Sub-Committee (2002-2006)

28 City of Davis Open Space Commission: Member (2000-2003) and Chair (2000-2002)

University of California, Davis: Diversity Award (1996)

American Society of Zoologists/Society for Integrative & Comparative Biology: Conservation Chair
(1992-1997)

29 **RECENT ENVIRONMENTAL SCIENCE & POLICY PUBLICATIONS**

30 Creley, C.M., F.M. Shilling and A.E. Muchlinski (in review) Using ecological niche models to predict
31 the potential future range expansion of the eastern gray squirrel in California. *Southwest Naturalist*

32 Visintin, C., F. Shilling, R. van der Ree, M.A. McCarthy (in review) Applying a conceptual framework
33 to determine patterns of wildlife-vehicle collisions on two continents: mule deer in North America
34 and grey kangaroos in Australia. *Journal of Wildlife Management*

- 1 Fulton, J., M. Norton, and F.M. Shilling (in press) Water-indexed benefits and impacts of California
2 almonds. *Ecological Indicators*
- 3 Seo, K., D. Salon, F. Shilling, M. Kuby (in press) Pavement condition and residential property values: a
4 spatial hedonic price model for Solano County, CA. *Public Works Management & Policy*
- 5 Ha, H. and F. Shilling (in press) Modeling potential wildlife-vehicle collisions (WVC) locations using
6 environmental and socio-demographic factors: a case-study of 3 state highways in Central
7 California. *Ecological Modelling*.
- 8 Waetjen, D.P. and F.M. Shilling (2017) Large extent roadkill and wildlife observation systems as
9 sources of reliable data. *Frontiers in Ecology and Evolution*.
10 <http://journal.frontiersin.org/article/10.3389/fevo.2017.00089/full>
- 11 Eitzel, M.V. and 21 others (2017) Citizen Science Terminology Matters: Exploring Key Terms. *Citizen
12 Science: Theory and Practice*. 2(1), p.1. DOI: <http://doi.org/10.5334/cstp.96>
- 13 Shilling, F.M. (2016). Rising above the tide. *Roads & Bridges*, October.
14 <https://www.roadsbridges.com/rising-above-tide>
- 15 Shilling, F.M., J. Vandever, K. May, I. Gerhard, and R. Bregoff. (2016) Adaptive planning for sea level
16 rise-threatened transportation corridors. *Transportation Research Record: Journal of the
17 Transportation Research Board*, No. 2599, Transportation Research Board, Washington, D.C., 2016,
18 pp. 9–16. DOI: 10.3141/2599-02
- 19 Shilling, F.M., D.P. Waetjen, A. Khan, and R. Juricich (2015). Systematic assessment of water
20 sustainability at the US state scale. *ASCE Journal of Water Resources Planning and Management*,
21 141(12) doi:10.1061/(ASCE)WR.1943-5452.0000551
- 22 Shilling, F.M. and Waetjen, D.P. (2015) Wildlife-vehicle collision observation collection and hotspot
23 identification at large scales. *Nature Conservation*, 11: 41-60. doi:
24 10.3897/natureconservation.11.4438
- 25 Shilling, F.M. and B. Charry (2015). Engaging the public through citizen science research and public
26 education. In “Roads and Ecological Infrastructure: Concepts and Applications for Small Animals”
27 Andrews, K.M., P. Nanjappa, and S.D. Riley (eds.) Johns Hopkins University Press, Baltimore, MD
- 28 Fulton, J. and Shilling, F.M. (2015). Water footprints and sustainability. In “The Water Sustainability
Reader: Lessons from California.” University of California Press.
- Shilling, F.M. Perkins, S., Collinson, W. (2015). Wildlife/roadkill observation and reporting systems. In:
Handbook of Road Ecology. van der Ree, R., Smith, D.J. and Grilo, C (eds.). John Wiley & Sons,
Oxford. 552 pp. ISBN: 978-1-118-56818-7.
- Kagan, J.S., Shilling, F.M. and Gaines, L.J. (2014). Valuation and crediting approach for transportation
and metropolitan planning agencies. *Transportation Research Record*, 2403: 1-8.
- Golet, G.H., Brown D.L., Carlson M., Gardali T., Henderson A., Holl K.D., Howell C.A., Holyoak M.,
Kondolf G.M., Larsen E.W., Luster R.A., McClain C., Nelson C., Paine S., Rainey W., Rubin Z.,
Shilling F., Silveira J.G., Swagerty H., Williams N.M., and Wood D.M. (2013). Successes, failures,
and suggested future direction for ecosystem restoration of the middle Sacramento River. *San
Francisco Estuary Watershed Science*. <http://www.escholarship.org/uc/item/0db0t6j1#page-1>
- Shilling, F.M., Khan, A., Juricich, R., and Fong, V. (2013). Using indicators to measure water resources
sustainability in California. *EWRI (2013) Conference Proceedings*.
- Shilling, F.M., Reed, S., Boggs, J. (2012). Recreational system optimization to reduce conflict on public
lands. *Environmental Management* 50:381-395, DOI 10.1007/s00267-012-9906-6
- Huber, P.R., Shilling, F.M., Thorne, J.H., and Greco, S.E. (2012). Municipal and regional habitat
connectivity planning. *Landscape and Urban Planning*. 105: 15-26.
DOI:10.1016/j.landurbplan.2011.11.019

- 1 Li, T., Shilling, F.M., Li, F., Thorne, J., Schott, H., Boynton, R., and Berry, A.M. (2010). Fragmentation
of China's landscape by roads and urban areas. *Landscape Ecology*. DOI 10.1007/s10980-010-9461-
2 6
- 3 Shilling, F.M., White, A.B., Lippert, L., and Lubell, M.N. (2010). Contaminated fish consumption in
California's Central Valley Delta. *Environmental Research*. DOI:10.1016/j.envres.2010.02.002
- 4 Shilling, F.M. (2009). Fishing for justice, or just fishing? *Ecology Law Currents*, Journal of UC
Berkeley School of Law, 36: 205-211.
- 5 Sze, J., London, J.K., Shilling, F.M., Cadenaso, M.L. (2009). Defining and contesting environmental
justice: Socio-natures and the politics of scale in the Delta. *Antipode*, 41(4): 807-843.
- 6 Shilling, F.M., Llevanos, R., and London, J.K. (2009). Marginalization by collaboration:
Environmental justice as a third party in and beyond CALFED. *Environmental Science and Policy*,
7 12: 694-709.
- 8 Shilling, F.M. (2007). Repairing road impacts on landscape connectivity. *Transactions of the Western
Section of the Wildlife Society*, 43: 11-18.
- 9 Shilling, F.M. and Harris, R. (2007). Effectiveness monitoring by California community watershed
groups. *IMPACT (American Water Resources Association)*, Volume 9(5): 21-24.
- 10 Shilling, F.M. and Girvetz, E. (2007). Physical and financial barriers to implementing a nature reserve
network in the Sierra Nevada, California, USA. *Landscape and Urban Planning*. Volume 80(1-2):
11 165-172.
- 12 Kattelman, R. and Shilling, F.M. (2004). Aquatic systems and watersheds. In: *Proceedings of the
Sierra Nevada Science Symposium*; 2002 October 7-10; Kings Beach, CA. Murphy, D.D. and P.A.
13 Stine (eds.) General Technical Report PSW-GTR-193. Albany, CA: Pacific Southwest Research
Station, Forest Service, U.S. Department of Agriculture; 287 p.
- 14 Girvetz E. and Shilling F. (2003). Decision support for road system analysis and modification on the
Tahoe National Forest. *Environmental Management*. 32(2):218-233
- 15 Shilling, F.M. (2001). Watershed assessment in a Sierra Nevada river basin – Yuba River. Proc. 8th
16 Biennial Watershed Management Conference, Robert N. Coats (ed.). *Univ. California Water
Resources Center Report No. 101*, pp. 169-175.

17 **SELECTED REPORTS TO AGENCIES**

- 18 Shilling, F.M., D. Waetjen, P. Cramer, and K. Harrold. 2017. Remote wireless wildlife camera systems,
19 field testing, & informatics. Report to the Federal Highway Administration. 52 pages
- 20 Shilling, F.M., 2017. California Abandoned Mines Prioritization Tool. Report to Department of
Conservation and Sierra Nevada Conservancy. 14 pages
- 21 Shilling, F.M., D. Waetjen, K. Taniguchi, T. Grosholz, E. Grijalva, C. Sur, K. Andrews, and A. Ballard.
2017. Using time lapse cameras to track shoreline change due to sea level rise. Report to National
22 Center for Sustainable Transportation, Davis 16 pages
- 23 Cramer, P., J. Kintsch, K. Gunson, F. Shilling, M. Kenner, and C. Chapman. 2016. Reducing wildlife-
vehicle collisions in South Dakota. Final Report to South Dakota Department of Transportation,
24 SD2014-03, Pierre, SD. 185 pages.
- 25 Shilling, F.M., J. Vandever, K. May, J. Villafranco, K.C. Ward, and D. Waetjen. 2016. State Route 37
integrated traffic, infrastructure and sea level rise analysis. Final Report to Caltrans. 116 pages.
- 26 Shilling, F.M. 2015. Indicator system for the California Forest and Rangeland Assessment, 2015. Report
to the California Department of Forestry and Fire Protection.
- 27 Shilling, F.M., A. Negrette, L. Biondini, and S. Cardenas 2014. California tribes' fish-use: Final Report.
Report for the State Water Resources Control Board and the US Environmental Protection Agency.
28 56 pages.

- 1 Shilling, F.M. 2014. The California water sustainability indicators framework, Phase II: State and
regional pilots. Report to Department of Water Resources. 231 pages.
2 (http://www.waterplan.water.ca.gov/docs/cwpu2013/Final/vol4/sustainability/03CA_Water_Sustainability_Indicators_Assesment.pdf)
- 3 Shilling, F.M., H. Cooley, and J. Fulton. 2014. Business case for water footprint in California. Report to
Department of Water Resources. 9 pages.
4 (http://www.waterplan.water.ca.gov/docs/cwpu2013/Final/vol4/sustainability/02Business_Case_Water_Footprint_California.pdf)
- 5 Shilling, F.M. 2014. The California water sustainability indicators framework, Phase I. Report to
Department of Water Resources. 90 pages.
6 (http://www.waterplan.water.ca.gov/docs/cwpu2013/Final/vol4/sustainability/04Sustainability_Indicators_Framework.pdf)
- 7 Fulton, J., H. Cooley, and F.M. Shilling. 2014. Trends and variation in California's water footprint.
Report to Department of Water Resources. 42 pages.
8 (http://www.waterplan.water.ca.gov/docs/cwpu2013/Final/vol4/sustainability/05Trends_Variation_California_Water_Footprint.pdf)
- 9 Shilling, F.M. 2013. Lower Sacramento River 2011 Water Quality Report Card. Report to the
Sacramento River Watershed Program. 40 pages.
- 10 Shilling, F.M. 2013. Interstate 280 wildlife connectivity research study: Findings and recommendations.
Report to Caltrans. 60 pages.
- 11 Shilling, F.M., M. Campbell, D. Waetjen, A. Monroe, S. Cardenas, H. Le Maitre, C. Cornwall, W. Eliot,
12 J. Meisler, L. Sharp, S. Haydon, E. Alm, J. Aguilar, J. Jensen, J. Peterson, R. Bregoff, S. Galvez, C.
13 Morton, J. Gorham, and K. Benouar. 2012. California pilot test of the ecological approaches to
environmental protection developed in capacity research projects CO6A and CO6B. Report to the
14 Transportation Research Board, Strategic Highway Research Program 2. 242 pages.
- 15 Shilling, F.M., I.L. Lacher, S.A Cardenas (2012). The California water sustainability indicators
16 framework. Report to the California Department of Water Resources, Water Plan Update 2013. 96
pages.
- 17 Aune, K., Beier, P., Hilty, J., and F. Shilling (2011). Assessment and planning for ecological
connectivity: A practical guide. Special report for the Wildlife Conservation Society. 78 pages.
- 18 Shilling, F.M., S. Cardenas, I. Lacher, H. LeMaitre, and D.P. Waetjen (2011). The California water
sustainability indicators framework. Report to the Department of Water Resources. 59 pages.
- 19 Shilling, F.M., L. Podolsky, and D.P. Waetjen (2011). Safe Passages: Phase II. Final report for
connectivity planning in the San Joaquin Valley to California Department of Fish and Game. 89
20 pages.
- 21 Shilling, F.M., H.E. Schott, M. Early, C.A. Howell, and M. Holyoak (2011) Sacramento River riparian
monitoring and evaluation plan. Report to California Department of Fish and Game and CALFED
22 Ecosystem Restoration Program. 81 pages.
- 23 Golet, G.H., D.L. Brown, M. Carlson, T. Gardali, A. Henderson, K.D. Holl, C.A. Howell, M. Holyoak,
G.M. Kondolf, E.W. Larsen, C. McClain, T. Minear, C. Nelson, S. Paine, W. Rainey, Z. Rubin, H.
24 Schott, F. Shilling, J.G. Silveira, H. Swagerty, and D.M. Wood (alphabetical, 2011). Using
ecological indicators to evaluate ecosystem integrity and assess restoration success on the Middle
25 Sacramento River. 381 pages.
- 26 Antos, M., T. Hogue, T. Longcore, S.J. Lee, A. Kinoshita, C. Milanes, K. Morris, S. Pincetl, F. Shilling,
N. Steele, R. Vos, and B. Washburn (alphabetical, 2011). Assessing ecosystem values of watersheds
in Southern California. Report to California Department of Water Resources. 198 pages.
- 27 Shilling, F.M. (2010) Connectivity and wildlife corridors in the Integrated Natural Resources
28 Management Plan. Draft Report to El Dorado County. 105 pages

1 Shilling, F.M. (2010). Indicator species in the Integrated Natural Resources Management Plan. Final
Report to El Dorado County. 124 pages

2 Lee, J.F.J., M. Springborn, S.L. Handy, J.F. Quinn, and F.M. Shilling. 2010. Approach for economic
valuation of environmental conditions and impacts. Final Report to Caltrans, 123 pages.

3 Shilling, F.M. C. Cornwall, F. Knapczyk, R. Zlomke, D. DiPietro, J. Sharp, R. Adams, J. Hemmert, L.
4 Komoroske, D. Waetjen, A. Hollander, E. Aalto, and K. Keightley (2010) Application and findings
of the North Bay-Delta transect watershed assessment framework. Final Report to California
5 Department of Water Resources. 322 pages.

6 Shilling, F.M. E. Aalto, J. Hemmert, A. Hollander, K. Keightley, M. L. Knecht, L. Komoroske, C.
Monohan, C. Murray, D. Pickard, M. Porter, D. Waetjen, K. Wieckowski (2010) Sacramento River
7 basin report card and technical report, Feather River basin. Final Report to California Department of
Water Resources. 205 pages.

8 Shilling, F.M., M.F. Tognelli, and H.E. Schott (2009). Integrated modeling of wildlife and traffic
movement. Report to the UC Berkeley/Caltrans PATH Program. 40 pages

9 Shilling, F.M. (2009) Urban roads ecological performance index. Report to the Korea Institute for
Construction Technology. 71 pages

10 Shilling, F.M. and 9 others (2009). Conserving extensive connectivity in an uncertain and contested
landscape. Report commissioned by the Wildlife Conservation Society. 20 pages

11 Shilling, F.M., J.H. Viers, M.B. Johnson, R. Hutchinson, H.E. Schott, H. Calinchini, A. Wehrmann
12 (2009). Russian River Pathogen Project – Monitoring design for source detection and load
quantification. Report to the North Coast Regional Water Quality Control Board.

13 Shilling, F.M. (2009). Characterizing the population at risk for ingesting mercury through fish
consumption. Report to the Central Valley Regional Water Quality Control Board.

14 Shilling, F.M., S. Sommer, L. Leonelli, and D. Shimoum (2008). Community-based strategies to reduce
15 mercury exposure in Delta fishing communities. Report to the California Department of Public
Health and the Central Valley Regional Water Quality Control Board.

16 Shilling, F.M. and J.H. Viers (2008). Russian River Pathogen Project. Report to the North Coast
Regional Water Quality Control Board. 36 pages.

17 Shilling, F.M. (2008). Yuba strategy project: conceptual and risk models. Report to the South Yuba
River Citizens League. 18 pages.

18 Shilling, F.M. (2007). Decision support for recreational route prioritization. Report to the Tahoe
National Forest. 10 pages.

19 Meese, R.J., F.M. Shilling, and J.F. Quinn (2007). Wildlife Crossings Guidance Manual. Prepared for
the California Department of Transportation. 87 pages.

20 McCord, S.A., F.M. Shilling and others (2007). Localized mercury bioaccumulation study. Report to the
Sacramento Regional County Sanitation District. 78 pages.

21 Shilling, F.M., S. Sommarstrom, R. Kattelman, B. Washburn, J. Florsheim, and R. Henly. California
22 Watershed Assessment Manual, Volume I. (2005) & Volume II (2007). Prepared for the California
Resources Agency and CALFED (<http://cwam.ucdavis.edu>).

23 J. Kennedy, F.M. Shilling, and J.H. Viers (2005). Current and potential riparian forest condition along
24 Scott River watershed tributaries. Report to the North Coast Regional Water Quality Control Board.
Pp. 52.

25 Shilling, F.M. (2004). Fishing activity analysis in the Sacramento/San Joaquin rivers Delta region.
Report for the California Department of Public Health.

26 Shilling, F.M., E.H. Girvetz, C. Erichsen, B. Johnson, and P.C. Nichols (2002). “A Guide to Wildlands
27 Conservation Planning in the Greater Sierra Nevada Bioregion”. California Wilderness Coalition,
187 p.

28

1 Shilling, F.M. and 9 co-authors (2002). "Reduction of mercury in the Sacramento River watershed and
2 San Francisco Bay-Delta". Delta Tributaries Mercury Council. 119 p.

3 Shilling, F.M. (2002). Doing roads analysis with a GIS-based decision-support system. A manual for USFS
4 technical staff conducting road system analysis. 42 pages.

5 Shilling, F.M. (2001). State of the Yuba: An assessment of the Yuba River watershed. Report to the
6 South River Citizens League. 73 pages.

7 **CONFERENCE and INVITED PRESENTATIONS**

8 Mr. Shilling has prepared and delivered presentations at conferences of the: American Planning
9 Association, American Society of Limnology and Oceanography, American Society of
10 Zoologists/Society for Integrative and Comparative Biology, American Society for Cell Biology,
11 Gordon Conferences, Ecological Society of America, International Conference on Ecology and
12 Transportation, Transportation Research Board, Infra Eco-Network Europe, Life Strade Project
13 (Italy), National Congress of American Indians, National Water Quality Monitoring Council,
14 Bay-Delta Science Conference, Marine Biological Laboratory, The Wildlife Society, Sierra
15 Nevada Alliance, California Aquatic Bioassessment Workgroup, Great Valley Center, California
16 Rangeland Coalition, Salmon Restoration Federation, California Association of Resource
17 Conservation Districts, Korea Institute for Construction Technology, and other regional
18 symposia, conferences, and workshops.