

11 List of Preparers

11.1 California High-Speed Rail Authority

Project Role	Name, Registration	Years Experience, Qualifications
Former Chief Executive Officer	Jeff Morales	32 years experience BS, Biology, George Washington University
Chief Executive Officer	Brian P. Kelly	24 years experience BA, Government-Journalism, California State University, Sacramento
Chief Counsel	Thomas Fellenz, PE	35 years experience JD, McGeorge School of Law, University of the Pacific BS, Civil Engineering, University of California, Davis
Area Program Manager	Diana Gomez	28 years experience BS, Electrical Engineering, California State University, Fresno
Former Director of Planning and Integration	Melissa Elefante DuMond, AICP	17 years experience BS, Environmental Studies, University of North Carolina, Wilmington; MPA, North Carolina State University
Supervising Environmental Planner, Cultural Resources Program Manager/Tribal Liaison	Brett Rushing	23 years experience MA, Anthropology, San Francisco State University BA, Anthropology, Louisiana State University
Supervising Environmental Planner, Cultural Resources Program Manager/Tribal Liaison	Sarah Allred	27 years experience BA, Anthropology, California State University, Sacramento
Supervising Transportation Engineer	Joyce Brenner, PE	32 years experience BS, Civil Engineering, California State University, Chico
Director of Environmental Services	Mark McLoughlin	34 years experience BS, Ornamental Horticulture, Landscape Construction, California Polytechnic State University, San Luis Obispo
NEPA Assignment Manager	Dan McKell	18 years experience

11.2 Federal Railroad Administration¹

Project Role	Name, Registration	Years Experience, Qualifications
Chief, Environmental and Corridor Planning	Marlys Osterhues	19 years experience BA, Environmental Studies, University of California, Santa Barbara
Environmental Protection Specialist	Stephanie B. Perez-Arrieta, PG	26 years experience BS, Geology, Virginia Polytechnic Institute and State University

¹ The Federal Railroad Administration acted as lead federal agency during preparation of the Draft Supplement Environmental Impact Report/Environmental Impact Statement prior to July 23, 2019. Pursuant to United States Code Title 23 Section 327, under the National Environmental Policy Act Assignment Memorandum of Understanding between the Federal Railroad Administration and the State of California, effective July 23, 2019, the Authority is the federal lead agency for environmental reviews and approvals for all Authority Phase 1 and Phase 2 California High-Speed Rail System projects.

11.3 List of Consultants

Project Role	Name, Registration	Years Experience, Qualifications
Rail Delivery Partners		
Former Deputy Director of Environmental Services	Lisa G. Nungesser, PhD	38 years experience PhD, Community and Regional Planning and Geography, University of Texas at Austin MS, Environmental Management, University of Texas at San Antonio BA, Plan II, University of Texas at Austin
Northern California Director of Projects	Gary John Kennerley, PE	29 years experience BS, Civil Engineering, University of Bristol
Project Manager	Wai-on Siu	42 years experience BS, Civil Engineering, University of Hong Kong
Former Regional Environmental Manager	Kitty Barkley	30+ years experience Master of Urban and Regional Planning, Clemson University
Former Acting Environmental Manager	W. Andrew Bayne	20 years experience BA, Health and Human Performance, Brigham Young University
Environmental Manager	Audrey Van, AICP	10 years experience MS, Biology, Georgia Institute of Technology BS, Biology, Sonoma State University
Former Environmental Manager	Karin Lilienbecker	26 years experience MS, Biology, University of San Francisco
Former Environmental Manager	Ryan Greenway	10 years experience BS, Urban and Regional Planning, California State Polytechnic University, Pomona
Former Environmental Planner	Carla D. Burrell, LEED AP	4 years experience MS, Urban and Regional Planning, University of Texas at San Antonio
NEPA Assignment Coordinator	Paul Heberling	9 years experience JD, Georgetown University Law Center MPP, Georgetown Public Policy Institute BA, History and Politics, Pomona College
Transportation	Donald E. Hubbard, TE, AICP	38 years experience Master of City and Regional Planning, Harvard University BS, Engineering Science, Northwestern University
Air Quality	Alice Lovegrove	30 years experience MS, Environmental and Waste Management, State University of New York, Stony Brook

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Air Quality	Edward Tadross	16 years experience. BA, Environmental Studies, Tulane University, BA, Earth Sciences, Tulane University
Noise and Vibration	Kevin Keller, AICP	26 years experience BA, Geography, California State University, Fullerton
Biological Resources and Wetlands	Stephanie S. Oslick, AICP, ENV SP	21 years experience MS, Environmental Studies, California State University, Fullerton BS, Biological Sciences, University of Southern California, Los Angeles
Biological Resources and Wetlands (former)	Serge Stanich	21 years experience BA, Environmental Studies, California State University, Sacramento
Hydrology and Water Resources	Ashley L. Orsaba-Finders	11 years experience MBA, Drexel University, BS, Civil Engineering, California State University, Sacramento
Geology, Soils, Seismicity, and Paleontological Resources/Senior Supervising Engineer	S.V. Jagannath, PhD, PE, GE	29 years services PhD, Civil and Geotechnical Engineering, University of Arizona MS, Civil Engineering, Indian Institute of Science BS, Civil Engineering, Bangalore University
Hazardous Materials and Wastes	Adam Heft, CPG	24 years experience MS, Geology, Michigan State University BS, Geology and Earth Science, Central Michigan University
Socioeconomics and Communities and Regional Growth	Betsy J. Minden	30+ years experience Master of Urban and Regional Planning, University of Washington BA, Biology, Smith College
Land Use and Development	Barbara Gilliland, AICP	32 years experience MS, Intermodal Transportation Management, University of Denver BA, Urban and Regional Planning, Western Washington University
Agricultural Farmland and Aesthetics and Visual Quality	Larissa King Rawlins, AICP	18 years experience BA, Environmental Planning, Western Washington University
Parks, Recreation, and Open Space	Scott Polzin	22 years experience Master of Community and Regional Planning, University of Nebraska-Lincoln

Project Role	Name, Registration	Years Experience, Qualifications
Cultural Resources (former)	Meg Scantlebury	18 years experience MA, Historic Preservation, Goucher College BS, Environmental Design, University of California, Davis
Cultural Resources	Monte Kim, PhD	16 years experience PhD, History, University of California, Santa Barbara
Environmental Justice	Stephanie J. Sprague, AICP	17 years experience MS, Natural Resource Policy, University of Michigan BS, Environmental Microbiology, Michigan State University
Archaeological Survey Report	Alisa Reynolds	22 years experience MA, Anthropology, San Francisco State University BA, Anthropology, University of California, Berkeley
Project Costs and Operations and Safety and Security	Bryan K. Porter, AICP	30+ years experience MA, Public Administration, California State University, Sacramento BA, Political Science, University of California, Berkeley
Regional Consultant Environmental Team		
Environmental Lead	Maggie Townsley	29 years experience MS, Community and Regional Planning, University of Texas at Austin BS, Geological Sciences, University of Texas at Austin BA, French, University of Texas at Austin
Deputy Environmental Lead	Aaron Carter	12 years experience BA, Geography (emphasis in Environmental Analysis), California State University, Fullerton
Environmental Manager	Jared Goldfine	31 years experience BA, Economics, University of Massachusetts, Amherst Certificate in Land-use Planning, University of California, Berkley Extension
Lead Document Manager and CEQA Review, Cumulative Impacts	Antero (Terry) Rivasplata	39 years experience BS, Environmental Planning and Management, University of California, Davis
Co-Lead Document Manager and CEQA Review, Cumulative Impacts	Donna McCormick	30 years experience BLA, Landscape Architecture, California State Polytechnic University, Pomona

Project Role	Name, Registration	Years Experience, Qualifications
NEPA Review	Ron Bass	37 years experience JD, Washington College of Law, American University, Washington, DC MA, Environmental Planning, California State University, Sacramento BS, Anthropology, Ohio State University, Columbus
Contract and Engineering Project Manager	Boro Dedeitch	27 years experience MS, Civil Engineering, University of Texas at Austin BS, Industrial Engineering, Purdue University
Project Engineering Manager	Chad Lemley, PE	17 years experience BS, Civil Engineering; University of Arizona
Bridge Hydraulic Design Lead	Stanley D. Polasik PE	43 years experience BS, Civil Engineering, Illinois Institute of Technology
Project Engineer	Corinna Goodwin, PE, CFM	16 years experience BS, Civil Engineering; Montana State University
Senior Technical Review	Josh Channell	27 years experience MA, Urban and Environmental Planning and Policy, Tufts University BA, History (focus on Resource and Land Conservation), University of Southern Maine
Senior Technical Review	Marc Auten	14 years experience BS, Environmental Science, Western Washington University
Deputy Project Manager/Environmental Lead	John Cook, AICP	23 years experience Master of City Planning, University of California, Berkeley BA, summa cum laude, American Studies, Colby College
Former Deputy Project Manager	Vicki Heron	16 years experience MSc, Soils and Environmental Pollution, University of Reading BSc, Geography, Liverpool John Moores University
Former Deputy Project Manager	Meghan Edwards	12 years experience MNR, Natural Resources, Virginia Polytechnic Institute and State University (Virginia Tech) BA, Environmental Studies, Hollins University
Document Control Manager and Coordinator	Kimberly Stevens	16 years experience BS, Geography, University of Utah
Former Document Control and Coordinator	Matilda Evoy-Mount	8 years experience BA, Environmental Studies, University of California, Santa Barbara

Project Role	Name, Registration	Years Experience, Qualifications
Document Control and Coordinator	Erin Pace	12 years experience BA, Environmental Policy, San Diego State University
Document Control and Coordinator	Aileen Cole	4.5 years experience BA, Zoology, Spanish, and Latin American Studies, University of Wisconsin-Madison
Document Control and Coordinator	Bernadette Clueit	9 years experience BS, Wildlife Management – Conservation Biology and Applied Vertebrate Ecology, Botany Minor, Humboldt State University
Technical Review and Environmental Generalist	Jennifer Andersen	6 years experience BA, International Relations, University of Southern California
Electromagnetic Fields and Electromagnetic Interference	Bruce Campbell	42 years experience MS, Environmental Management, University of San Francisco BA, Environmental Biology, University of California, Santa Barbara
Former Transportation Planner and Technical Report	Sandi Domingue	27 years experience Master's in Urban and Regional Planning, San Jose State University BA, Industrial Psychology, San Jose State University
Transportation	Amber Brenzikofer	29 years experience Masters, Environmental Policy and Management, University of Denver BS, Landscape Architecture, Kansas State University
Air Quality and Global Climate Change	Laura Yoon	11 years experience MS, Environmental Management, University of San Francisco BA (summa cum laude), Environmental Studies (minor in Resource Management), University of Washington
Air Quality and Global Climate Change	Keith Cooper	21 years experience MA, Urban Planning, University of California, Los Angeles MBA, Mount Saint Mary's University BS, Business Administration, California State University, Dominguez Hills
Air Quality and Global Climate Change Technical Report	Shannon Hatcher	17 years experience BS, Environmental Science, Oregon State University BS, Environmental Health and Safety, Oregon State University

Project Role	Name, Registration	Years Experience, Qualifications
Air Quality and Global Climate Change Technical Report	Cory Matsui	6 years experience BA, Atmospheric Science, University of California, Berkeley AA, Physics, Cabrillo College
Air Quality and Global Climate Change Technical Report, Health Risk Assessment	William Seth Hartley	22 years experience MS, Atmospheric Sciences, University of Washington BS, Summa Cum Laude, Physics, North Carolina State University
Public Utilities and Energy, Transportation	Amy Eckland	20 years experience MS, Plant and Soil Science, University of Kentucky BS, Natural Resources and Conservation Management, University of Kentucky
Energy, Transportation Technical Report	Indu Menon	19 years experience MS, Civil Engineering (Transportation Engineering), University of California, Berkeley
Biological Resources and Wetlands Lead	Brad Schafer	21 years experience BS, Biology, Western Illinois University
Biological Resources and Wetlands Technical Report	Matt Ricketts	20 years experience MS, Biology/Applied Ecology, Eastern Kentucky University BS, (with honors), Natural Resource and Environmental Sciences, University of Illinois at Urbana-Champaign
Biological Resources and Wetlands	Kristin Salamack	13 years experience MS, Biology, University of Denver BS, Wildlife Management, University of New Hampshire
Biological Resources and Wetlands	Leslie Allen	26 years experience MS, Biology, Western Washington University
Technical Review and Environmental Generalist	Laura Johnson	7 years experience MEd, Environmental Science, Yale University School of Forestry and Environmental Studies BS, (summa cum laude), Environmental Technology and Management (minor in Environmental Toxicology and Chemistry), North Carolina State University
Safety and Security	Alex Bartlett	11 years experience Bachelor of General Studies, Environmental Studies (concentrations in Biology and Policy), University of Kansas

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Hydrology and Water Resources Technical Report	Katrina Sukola	13 years experience MSc, Chemistry, University of Manitoba BSc, Environmental Chemistry, University of Waterloo
Wetlands Delineation Report	Joel Butterworth	30 years experience MS, Geography (minor in Soil Science), Oregon State University BA, Geography, University of California, Santa Barbara
Wetlands Delineation Report	Katherine Carpenter	16 of years experience BA, Plant Biology (minor in Soil Science), University of California, Davis
Geographic Information Systems (GIS) Manager	William C. Parker	8 years experience MA (in progress), Geography, San Francisco State University BA, Anthropology, University of California, Berkeley GIS Certification of Completion, Diablo Valley College
Geographic Information Systems (GIS)	Matt Wood	14 years experience MS, Geography, Portland State University BS, Environmental Biology/Zoology, Michigan State University
Geographic Information Systems (GIS)	Cristina Lopez-Barrios	6 years experience MS, Geographic Information Science, Saint Mary's University, Minneapolis
Geographic Information Systems (GIS) Cultural Resources	Melissa Cascella	12 years experience MA, Cultural Resources Management, Sonoma State University BS, Anthropology, University of California, Riverside BA, History, University of California, Riverside
Environmental Generalist, Socioeconomics, and Environmental Justice	Anne Winslow	6 years experience MS, Environmental Science, Stanford University BS, Environmental Science, Stanford University
Geology, Soils, and Seismicity, Agricultural Farmlands	Diana Roberts	20 years experience MS, Environmental Studies coursework, San Jose State University (in progress) MA, Linguistics, Cornell University BS, Applied Psychology, Georgia Institute of Technology

Project Role	Name, Registration	Years Experience, Qualifications
Land Use, Parks and Recreation, Technical Review and Environmental Generalist	Randall Coleman	12 years experience MURP, Urban and Regional Planning, University of Colorado BA (cum laude), History and Spanish, Trinity University
Hazardous Materials and Wastes Technical Report	John Moe, PE	37 years experience MS, Environmental Management, University of San Francisco BA, Biology, University of California, Berkeley
Hazardous Materials and Wastes	Leslie Tice	18 years experience BS, Environmental Science and Policy University of Southern Florida
Hazardous Materials and Wastes	Jill Quillin	29 years experience MS, Geology, University of Oklahoma MS, Environmental Science/Ground Water Quality Management, University of Oklahoma BA, Geology, Wellesley College
Hazardous Materials and Wastes	Natalie Bogan	6 years experience MS, Environmental Management, Duke University BA, Psychology, Rice University
Noise and Vibration, Socioeconomics, Communities, Geographic Information Systems (GIS) Manager	Craig Richey	16 years experience. BA, English, California State University, San Bernardino Certificate in Geographic Information Systems, San Francisco State University
Noise and Vibration	David Buehler	38 years experience BS, Civil Engineering, California State University, Sacramento
Noise and Vibration	Thanh Luc	29 years experience BS, Mechanical Engineering, California State Polytechnic University, Pomona
Socioeconomics and Communities	Vincent Tong	2 years experience MS, Urban & Regional Planning, University of California, Irvine BS, Environmental Engineering, University of California, San Diego
Socioeconomics and Communities, Community Impact Assessment, Draft Relocation Impact Report	Uyenlan Vu	9 years experience MS, Urban & Regional Planning, University of Wisconsin-Madison MS, Water Resources Management, University of Wisconsin-Madison BA, Environmental Analysis & Design and Social Ecology, University of California, Irvine

Project Role	Name, Registration	Years Experience, Qualifications
Aesthetics and Visual Quality Resources Technical Report, EIR/EIS Graphics	Michael Kiesling	9 years experience BA, Architecture, University of California, Berkeley
EIR/EIS Graphics	Cindy Potter	21 years experience BA, Photography, University of Iowa
Cultural Resources Lead	Susan Lassell	23 years experience MA, Historic Preservation Planning, Cornell University BS, Environmental Design, University of California, Davis
Cultural Resources, Archaeological Resources	Jenifer Rogers	25 years experience MA, Historic Preservation, Savannah College of Art and Design (in progress) MA, Candidate, Anthropology, California State University, Sacramento BA, Anthropology, California State University, Sacramento
Cultural Resources	Jenna Wheaton	5 years experience BA, Anthropology (concentration in Archaeology), Mercyhurst University BA, History (concentration in Public History), Mercyhurst University
Cultural Resources, Historic Architectural Survey Report	Kathryn Haley	14 years experience MA, History (Public History), California State University, Sacramento BA, History, California State University, Sacramento
Paleontological Resources Technical Reports	Anna Busing	29 years experience PhD, Geological Sciences, University of California, Santa Barbara BS, Geology, University of California, Los Angeles
Section 4(f) and Section 6(f) Evaluations, Parks, Recreation, and Open Space (former)	Peter Feldman	8 years experience BA, Political Science (American Politics), University of California, Irvine
Responses to Comments on the Draft Supplemental EIR/EIS	Susan Davis	26 years experience MA, English, Washington State University BA, English, Carleton College
Public and Agency Involvement	Ben Strumwasser	30 years experience MS, Political Science, Graduate Faculty at the New School for Social Research BA, Law and Society, University of California, Santa Barbara

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Public and Agency Involvement	Chris Colwick	18 years experience BA, Environmental Studies and Economics, University of California, Santa Cruz
Public and Agency Involvement	Tracy Cook	23 years experience BA, Sociology, University of Florida
Public and Agency Involvement	Patti Ransdell	24 years experience BA, History, California State University, Chico
Lead Editor, Editing Coordinator for EIR/EIS and Technical Reports	Brent Bouldin	41 years experience MA, Communications, Louisiana State University, Baton Rouge BA (magna cum laude), Communications, University of Texas at Austin
Lead Editor, Editing Coordinator for EIR/EIS	Lawrence B. Goral	23 years experience
Lead Editor, Editing Coordinator for EIR/EIS	Laura Cooper	26 years experience BA (Phi Beta Kappa), Psychology, Reed College
Editor, Editing Coordinator for EIR/EIS and Technical Reports	Barbara Wolfe	19 years experience MA, Anthropology (minor in American Indian Studies), University of Arizona BA, (summa cum laude), Geography and Anthropology, University of Southern Maine
Editor, Editing Coordinator for EIR/EIS and Technical Reports	Tami Mihm	29 years experience BS, Environmental Policy Analysis and Planning, University of California, Davis
Document Coordinator for EIR/EIS and Technical Reports	Ryan Sharpe	3 years experience BA, Government, California State University, Sacramento
Technical Editor, Multiple Sections and Reports	Christine McCrory	15 years experience PhD Candidate, Germanic Languages and Literatures, Washington University, St. Louis MPhil (with distinction), European Literature, Oxford University, Lincoln College BA (with distinction), Anthropology and German, University of California, Berkeley
Word Processing and Formatting Specialist for EIR/EIS and Technical Reports	Corrine Ortega	29 years experience AA, Communications, Cosumnes River College
Word Processing and Formatting Specialist for EIR/EIS and Technical Reports	Anthony Ha	17 years experience BA, English, Saint Mary's College of California

Electrical Interconnection and Network Upgrades

Project Role	Name, Registration	Years Experience, Qualifications
Project Manager	Jennifer Johnson, J.D.	16 years experience. JD, Environmental Law, Vermont Law School BS, Environmental Policy, Juniata College
Air Quality and Noise Analysis	Chris Mundhenk	17 years experience. BA, Biology and Public Policy Analysis, Pomona College
Hazardous Materials and Wastes, Safety and Security, Environmental Planner	Jessica Babcock	10 years experience. BA, Environmental Studies (with concentration in economics), California State University, Sacramento
Geological and Paleontological Resources, Hydrology and Water Resources	Tiffany Lunday	9 years experience. MPhil, Geography, University of Cambridge BA, Geography, University of British Columbia
Environmental Planner	Zack Miller	7 years experience. MS, City and Regional Planning, Environmental Planning Emphasis, California Polytechnic State University, San Luis Obispo MS, Engineering, Transportation Planning, California Polytechnic State University, San Luis Obispo BA, Urban Studies and Planning, University of California, San Diego
Biological Resources	Ted Thayer	14 years experience. MS, Biology, University of Nevada, Reno BS, Biology, California State University Fresno
Biological Resources Technical Reports	Shannon Hickey	13 years experience. BS, Ecology and Environmental Policy, University of California, Berkeley
Biological Resources Technical Reports	Mike Eng	13 years experience. MBA, (Emphasis in Organizational Behavior and Development), California State University, Sacramento BS, Ecology, University of California, Davis BA, English, University of California, Davis
Air Quality and Noise	Hannah Kornfeld	2 years experience. Master of City and Regional Planning, California Polytechnic State University, San Luis Obispo BA, Political Science, Environment, University of Michigan-Ann Arbor
Air Quality and Noise	Dimitri Antoniou, AICP	8 years experience. MS, City and Regional Planning, California Polytechnic State University, San Luis Obispo BS, Environmental Management and Protection, California Polytechnic State University, San Luis Obispo

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Environmental Planner	Lily Bostrom	6 years experience. MS, Environmental Science and Management, University of San Francisco BS, Marine Biology, University of California, Santa Cruz
Environmental Planner	Angela Xiong	4 years experience. MA, Sustainability, School of Sustainability, Arizona State University BA, English Literature and Religious Studies, Wellesley College
Geographic Information Systems (GIS)	Lisa Merry	7 years experience. MS, Environmental Science and Management, Conservation Planning Specialization, University of California, Santa Barbara BS, Environmental Biology and Management, Minors in GIS and Psychology, University of California, Davis
Historic Architecture Survey Report Addendum	Rebecca Meta Bunse	23 years experience. MA, History/Public History, California State University, Sacramento BA, Women's Studies and Italian Language, University of California, Davis
Cultural Resources Survey Report Addendum	John Holson, RPA	31 years experience. MA, Cultural Resource Management, Sonoma State University BA, Anthropology, Sonoma State University
Cultural Resources Survey Report Addendum	Lisa Holm	21 years experience. PhD, Anthropology, University of California, Berkeley MS, Computer Applications in Archaeology, University of Southampton BA, Anthropology, University of California, Berkeley