

33.1 Preparers by Affiliation

33.1.1 Agencies

California Department of Water Resources

Name	Expertise
Derrick Adachi	Program Manager III, California Bay-Delta Authority
Rachel E. August	Environmental Scientist
Maninder Bahia	Water Resources Engineer
Katherine Bandy	Environmental Scientist
Jessica Barnes	Environmental Scientist
Banafsheh Behnam	Supervising Water Resources Engineer
Gina Benigno	Environmental Scientist
Dave Bogener	Environmental Program Manager I
Linda Bond	Engineering Geologist
Mike Bradbury	Staff Environmental Scientist
Delores Brown	Environmental Program Manager II
Jody L. Brown	Senior Environmental Planner
Rich Breuer	Environmental Program Manager I
Steven M. Brumbaugh	Environmental Scientist
Analisa M. Canepa	Environmental Scientist
Jay Chamberlin	Environmental Program Manager I
Erin Chappell	Staff Environmental Scientist
Lori E. Clamurro Chew	Staff Environmental Scientist
Kevin Clark	Staff Environmental Scientist
Louise Conrad	Senior Environmental Scientist
Mark Cowin	Director
Barbara Cross	Environmental Program Manager I
Monica Cross	Fish and Wildlife Scientific Aid
Tony Danna	Staff Environmental Scientist
Nicole Darby	Senior Environmental Scientist
Gina Skurka Darin	Environmental Scientist
Allan Davis	Supervising Land Agent
Carol Digiorgio	Staff Environmental Scientist
Chi Doan	Supervising Hydroelectric Power Utility Engineer
Gordon Enas	Principal Water Resources Engineer
Teresa Engstrom	Principal Water Resources Engineer
Cassandra Enos	Chief, Environmental Management DHCCP/BDCP
Chris Enright	Senior Water Resources Engineer
Karen Enstrom	Senior Environmental Scientist

Name	Expertise
Cliff Feldheim	Staff Environmental Scientist
Tom Filler	Program Manager II, California Bay-Delta Authority
Laura Flournoy	Staff Environmental Scientist
Teresa Fong	Water Resources Engineer
Mike Ford	Supervising Water Resources Engineer
Cindy Garcia	Environmental Program Manager I
Kim Gazzaniga	Senior Environmental Scientist
Rebecca Gilbert	Environmental Planner
Marcos Guerrero	Associate Environmental Planner
Don Guy	Staff Environmental Scientist
Lesley Hamamoto	Environmental Scientist
Bill Harrell	Program Manager II, California Bay-Delta Authority
Paul Helliker	Deputy Director
Adam Henderson	Staff Environmental Scientist
Mike Hendrick	Environmental Program Manager I
Veronica Hicks	Chief, State Water Project Power and Risk Office
Nick Hightower	Engineering Geologist
Ray Hoagland	Economic Research Program Manager III
Dale Hoffman-Floerke	Chief Deputy Director
Nekane Hollister	Senior Water Resources Engineer
Gardner Jones	Environmental Scientist
Lauma Jurkevics	Staff Environmental Scientist
Kenneth Karcher	Senior Engineer, Water Resources
Joy Khamphanh	Environmental Scientist
Jason Kindopp	Senior Environmental Scientist
Marianne Kirkland	Senior Water Resources Engineer
Gail Kuenster	Environmental Program Manager I
Ryon Kurth	Staff Environmental Scientist
Cynthia LeDoux-Bloom	Staff Environmental Scientist
John Leahigh	Principal Water Resources Engineer
Peggy Lehmen	Staff Environmental Scientist
Pamela Lindholm	Environmental Scientist
Katherine Marquez	Environmental Scientist
Paul Marshall	Principal Water Resources Engineer
Zoltan Matica	Environmental Scientist
Barbara McDonnell	Chief, Division of Environmental Services (retired)
Dennis McEwan	Environmental Program Manager I
Michelle McGowan	Office Technician
Leah McNearny	Staff Environmental Scientist
Francine Mejia	Staff Environmental Scientist
Danika Melcer	Environmental Scientist
Dean F. Messer	Chief, Division of Environmental Services
Aaron Miller	Senior Water Resources Engineer
Sonia Miller	Environmental Scientist
Javier Miranda	Staff Environmental Scientist

Name	Expertise
Jason Moore	Environmental Scientist
Jim Moose	Outside Counsel to DWR, Remy Moose Manley, LLP
Michelle Morrow	Senior Staff Counsel
Parviz Nader-Tehrani	Supervising Water Resources Engineer
Tim Nelson	Water Resources Engineer
James Newcomb	Senior Environmental Scientist
Murage Ngatia	Environmental Scientist
Bob Niblack	Senior Engineering Geologist
Robert Nozuka	Supervising Water Resources Engineer
Janis Offerman	Senior Environmental Planner
Eric Oppenheimer	Environmental Program Manager I
Mark Pagenkopp	Senior Engineering Geologist
Ganesh Pandey	Supervising Water Resources Engineer
Laura Patterson	Staff Environmental Scientist
Michael Perrone	Recreation and Wildlife Resources Advisor
David Perry	Engineering Geologist
Roy Peterson	Environmental Scientist
Michelle Phillips	Staff Environmental Scientist
Praba Pirabaroooban	Supervising Water Resources Engineer
Kristina A. Reese	Environmental Scientist
Erik Reyes	Senior Water Resources Engineer
Jim Rich	Economic Research Program Specialist II
Dan Riordan	Senior Environmental Scientist
Doug Rischbieter	Staff Environmental Scientist
Heidi Rooks	Environmental Program Manager II
Arnold Sanchez	Supervising Water Resources Engineer
Tiffany Schmid	Associate Environmental Planner
Brian Schreier	Environmental Scientist
Andrew Schwarz	Water Resources Engineer
Alicia Seesholtz	Staff Environmental Scientist
Michelle Selmon	Staff Environmental Scientist
Maureen Sergent	Senior Engineer, State Water Project Analysis Office
Tim Smith	Staff Environmental Scientist
Scott Sochar	Engineering Geologist
Ted Sommer	Program Manager II, California Bay-Delta Authority
Stephani Spaar	Environmental Program Manager II
Katherine Spanos	Senior Staff Counsel
Curtis Spencer	Principal Water Resources Engineer
Crystal Spurr	Staff Environmental Scientist
Russ Stein	Deputy Director, BDCP
Ted J. Swift	Staff Environmental Scientist
Jeff Tkach	Environmental Scientist
Danika Tsao	Environmental Scientist
Ming-Yen Tu	Water Resources Engineer
Charles A. Tyson	Environmental Program Manager I

Name	Expertise
Al Vargas	Program Manager I, California Bay-Delta Authority
Wayne Verrill	Environmental Scientist
Katie Wadsworth	Staff Environmental Scientist
Xiaochun Wang	Senior Water Resources Engineer
Chris Wilkinson	Environmental Program Manager I
Craig Williams	Environmental Scientist
Jean Witzman	Staff Environmental Scientist
Marcus Yee	Senior Environmental Scientist

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2 California Department of Fish and Wildlife

Name	Education	Expertise	Experience	Project Role
Erin Aquino-Carhart	BS, Biological Conservation, 2008	Regulatory compliance, fish and wildlife biology	4 years	Introduction review coordination
Carol Atkins	Postgraduate research in soil physics MS, Soil Science, 1988 BS, Biological Sciences, 1984	Water quality; regulatory compliance; mercury, metals, and selenium in the environment	26 years	Water Quality
Carie Battistone	MS, Avian Science, 2005 BS, Wildlife Biology, 2001	Avian ecology	12 years	Terrestrial Biological Resources review coordination
Scott Cantrell	Masters of Public Policy and Administration, 2012 MS, Ecology, 1988 BS, Biology, 1986	CEQA compliance, regulatory compliance, fish and terrestrial wildlife	25 years	Alternative screening review coordination public outreach
Laura Cholodenko	MS, Conservation Biology, 2006 BA, Environmental Studies, 1992	Regulatory compliance, terrestrial biology	13 years	Terrestrial Biological Resources
Lori Clamurro	MBA, 2006 BS, Environmental Policy Analysis and Planning, 1997	Land use, water quality, terrestrial biology	14 years	Land Use Agricultural Resources
Neil Clipperton	MS, Biological Sciences, 2005 BS, Ecology and Systematic Biology, 1999	Conservation genetics, avian ecology, terrestrial biology	8 years	Terrestrial Biological Resources review coordination
Patrick Coulston	MS, Fisheries Science, 1977 BS, Fisheries Biology, 1974	SWP/CVP operations; fish ecology	30 years	Water Supply Fish and Aquatic Resources
Chad Dibble	BS, Biological Conservation, 2000	Water quality; fish ecology; SWP/CVP operations	12 years	Water Quality review coordination
Chandra Ferrari	JD, 2006 BA, Animal Science and Management, 2003	Regulatory compliance, legal review, CEQA compliance	6 years	Alternatives Purpose and Need Approach to Analysis
Terry Foreman	MS, Biology, 1985 BS, Zoology, 1975	Inland fisheries and ichthyology	20 years	Recreation
George Heise	BS, Civil Engineering, 1980	Water resources and fish facility engineering	23 years	Intake design and siting

Name	Education	Expertise	Experience	Project Role
Shannon Little	JD, 2008 BA, Journalism, 2000	NEPA/CEQA compliance, regulatory compliance	4 years	Agricultural Resources
Amber Pairis	PhD, Environmental Studies/Conservation Biology, 2005 BA, Environmental Studies, 1996	Climate change adaptation policy, conservation science	15 years	Climate Change
Jason Roberts	BS, Conservation Biology, 2006	Anadromous fish, SWP/CVP operations, floodplain restoration	8 years	Recreation Fish and Aquatic Resources Water Supply
Jim White	MS, Aquatic Ecology, 1978 BS, Wildlife and Fisheries Biology, 1974	SWP/CVP operations; fish ecology	33 years	Water Supply Surface Water

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2 U.S. Bureau of Reclamation

Name	Education	Expertise	Experience	Project Role
Kaylee Allen	JD, 1997	Department of Interior, Regional Solicitor's Office	16 years	Legal Reviewer
Stuart Angerer		Supervisory Physical Scientist		Hazards and Hazardous Materials
Federico Barajas		BDCP Program Manager		Program Management
Chester V. Bowling	BA, Civil Engineering	Civil Engineer	24 years	Water Supply Surface Water
Susan Black	BA, Economics	Social Science Analyst	28 years	Socioeconomics
Carolyn Bragg		Natural Resources Specialist		Socioeconomics Transportation Utilities and Public Services Hazards and Hazardous Materials Public Health
Brian Buttazoni		Natural Resources Specialist		Geology and Seismicity Soils Terrestrial Biological Resources Recreation Minerals Paleontological Resources
Ann Chrisney	MS, Natural Resources Management	Wildlife Biologist	30 years	NEPA Review Coordinator, Terrestrial Resources
Randi Field		Hydraulic Engineer		Water Supply Climate Change
Thomas Fitzhugh	MS, GIS and Remote Sensing	Hydrologist	12 years	Water Supply Surface Water
Paul Fujitani		Supervisory Hydraulic Engineer		Water Supply Climate Change
Sue Fry		Bay Delta Office Manager		Program Management

Name	Education	Expertise	Experience	Project Role
Jimmy Goodwin	BS, Civil Engineering	Civil Engineer	34 years	Alternatives
Margaret Gidding		Public Affairs Specialist		Public Outreach
Lenny Grimaldo	PhD, Ecology	Fish Biologist	15 years	Fish and Aquatic Resources
John Hannon	BS, Aquatic Ecology	Fish Biologist	22 years	Fish and Aquatic Resources
Lisa Holm	ME, Civil and Environmental Engineering	Civil Engineer	15 years	Water Supply Surface Water Water Quality Regulatory Compliance
Shane Hunt	Master of Marine Resources in Marine Resources Management	Regional Liaison Officer	10 years	NEPA Compliance
Patti Idlof	BS, Natural Resources Management	Supervisory Natural Resources Specialist	30 years	NEPA Project Manager Water Supply Surface Water Fish and Aquatic Resources Land Use Agricultural Resources Cultural Resources Energy Resources Air Quality Climate Change Cumulative Effects
Joshua Israel	PhD, Ecology BS, Biochemistry and Molecular Biology	Fish Biologist	11 years	Fish and Aquatic Resources
Liz Kiteck		Hydraulic Engineer		Water Supply Surface Water
Mary Lee Knecht		BDCP Program Manager		Program Management
Leeyan Mao		Supervisory Physical Scientist		Water Quality
George Matanga	PhD, Civil Engineering	Hydraulic Engineer	35 years	Groundwater Geology and Seismicity Modeling
Mike McCulla	PhD, Geology	Geologist	25+ years	Geology and Seismicity Soils Minerals
Andrea Meier	MS, Public Policy and Administration BS, Environmental Toxicology	Natural Resource Specialist	9 years	Socioeconomics Recreation Transportation Hazards and Hazardous Materials Environmental Justice
Ron Milligan		Central Valley Operations Manager		Water Supply Climate Change
Jim Monroe, Jr.	JD, 1992	Department of Interior, Regional Solicitor's Office	21 years	Legal Reviewer
Louis Moore		Public Affairs Specialist		Public Outreach

Name	Education	Expertise	Experience	Project Role
Barry Mortimeyer		Supervisory Electrical Engineer		Energy Resources
Michael Mosley	Master of Environmental Science and Management, Water Resources Management BS, Geological and Environmental Science	Water Quality Coordinator	5 years	Water Quality
Adam Nickels	MS, Cultural Resources Management BS, Anthropology	Archaeologist	16 years	Cultural Resources
Janice Pinero	MA, Organizational Leadership BA, Environmental Studies	Endangered Species Act Specialist	12 years	Endangered Species Resources
Patricia Rivera	MPA, JD BA, Sociology	Native American Affairs Specialist	7 years	Environmental Justice Cultural Resources
Scott Springer	BS, Wildlife Recreation Management	Outdoor Recreation Planner	21 years	Recreation
Duane Stroup	PhD, Mineral Economics	Economist	19 years	Socioeconomics
Connie Svoboda	MS, Civil Engineering	Hydraulic Engineer	10 years	Surface Water Fish and Aquatic Resources
Michael Tansey		Special Projects Coordinator		Air Quality and GHG Climate Change
Becky Victorine	BS, Agricultural Systems and the Environment	Natural Resources Specialist	15 years	Groundwater Water Quality Agricultural Resources Cultural Resources Energy Resources Air Quality Climate Change Cumulative Effects NEPA

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2 U.S. Fish and Wildlife Service

Name	Expertise
Craig Anderson	Hydrologist, San Francisco Bay-Delta Office
Aondrea Bartoo	Fish and Wildlife Biologist, San Francisco Bay-Delta Office
Barbara Beggs	Fish and Wildlife Biologist, NEPA Coordinator, San Francisco Bay-Delta Office
Dan Castleberry	Region 8 Assistant Regional Director (Fisheries), Pacific Southwest Region
Mike Chotkowski	Field Supervisor, San Francisco Bay-Delta Office
Jorie Clark	Regional Archaeologist/Regional Historic Preservation Officer, Pacific Region
Dan Cox	Region 8 Habitat Conservation Plan Coordinator, Pacific Southwest Region
Steve Culberson	Fish and Wildlife Biologist, San Francisco Bay-Delta Office
Erin Gleason	Fish and Wildlife Biologist, San Francisco Bay-Delta Office
Mary Grim	Region 8 Listing Coordinator, Pacific Southwest Region
Roger Guinee	Assistant Field Supervisor (Science, Modeling, and Water Operations), San Francisco Bay-Delta Office

Name	Expertise
Derek Hilts	Hydrologist, San Francisco Bay-Delta Office
Mike Hoover	Assistant Field Supervisor (Bay Delta Initiatives), San Francisco Bay-Delta Office
Steve Martarano	Public Affairs Specialist, San Francisco Bay-Delta Office
Matt Nobriga	Fish and Wildlife Biologist, San Francisco Bay-Delta Office
Jeness McBride	Region 8 Habitat Conservation Plan Coordinator (former), Pacific Southwest Region
Bart McDermott	Project Leader, Stone Lakes National Wildlife Refuge
Jennifer Norris	Deputy Field Supervisor, San Francisco Bay-Delta Office
Victoria Poage	Delta Native Fishes Recovery Biologist, San Francisco Bay-Delta Office
Lori Rinek	Fish and Wildlife Biologist (Section 10 Coordinator), San Francisco Bay-Delta Office
Beatrix Treiterer	Deputy Project Leader, Stone Lakes National Wildlife Refuge
Kim S. Turner	Assistant Field Supervisor (ESA-Regulatory Division), San Francisco Bay-Delta Office
Heather Webb	Fish and Wildlife Biologist (Section 10), San Francisco Bay-Delta Office
Leanna Zweig	Fish and Wildlife Biologist, San Francisco Bay-Delta Office

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2 National Marine Fisheries Service

Name	Education	Expertise	Experience	Project Role
Cathy Marcinkevage	PhD, Environmental Engineering MS, Environmental Engineering BS, Earth and Environmental Engineering	Biological and Hydrologic Modeling	9 years	Bay Delta Conservation Plan— Biomodeler
Shelby Mendez	BS, Biology MS, Master of Marine Affairs	NEPA	10 years	Regional NEPA Coordinator
Maria Rea				Central Valley Office Supervisor
Yvette Redler	BS, Environmental Science/Biology	NEPA, Salmonid and Sturgeon Biology	9 years	Bay Delta Conservation Plan— Fisheries Biologist
David Swank	PhD, Fisheries Ecology MS, Zoology BS, Biology	Steelhead and Salmon Biology, Population Biology, and Life-History Theory	16 years	Bay Delta Conservation Plan— Lead Biologist
Michael Tucker	BS, Wildlife Ecology	Endangered Species recovery/habitat restoration & regulatory process	21 years	Bay Delta Conservation Plan— Branch Chief
Beth Wrege	PhD, Fisheries and Wildlife Management MS, Fisheries Biology BS, Biology/Geology	Hydrology, Fisheries behavior and movement modeling, GW-SW interactions	26 years	Bay Delta Conservation Plan— Hydrologist
Ryan Wulff	MAS, Marine Biodiversity and Conservation Education BA, Biology	NEPA and ESA	7 years	Senior Policy Advisor/Acting Chief of Delta Policy and Restoration

1 33.1.2 Consultant Teams (2011–Public Draft)

2 ICF International

Name	Education	Expertise	Experience	Project Role
Gregg Roy	BS, Political Economy of Natural Resources, 1982	NEPA/ CEQA compliance, economics (natural resource), water resource planning	22 years	Project Director
Steve Centerwall	BS, Environmental Policy Analysis and Planning, 1986	NEPA/ CEQA compliance, regulatory compliance, water resource planning	26 years	Project Manager
Adam Smith	MS, Urban and Regional Planning, 2011 MPA, Public Affairs, 2011 BA, Political Science, 2007	Land use planning, policy analysis, technical writing	3 years	Deputy Project Manager
Teresa Chan	JD, Law, 2005 BA, Political Science, 2002	NEPA/CEQA compliance, regulatory compliance, legal review	8 years	Project Coordinator
Kasey Allen	BA, Economics, 2003	Geographic Information Systems (GIS), database design and management, spatial analysis	9 years	GIS Coordinator
Alex Angier	AA, Computer-Aided Drafting and Design, 2006	Computer-Aided Drafting (CAD), GIS	6 years	GIS Support
Mike Aviña	JD, Law, 2005 BA, Anthropology, 1995	Cultural resources compliance, environmental planning	12 years	Cultural Resources and Environmental Justice
Victoria Axiaq	MA, English, 2002 BA, English, 1975	Project management, transportation and environmental analysis	26 years	Project Coordinator (2011–2012)
Alan Barnard		Graphic design, web design, multimedia design, and cartography	17 years	Graphics
Paola Bernazzani	MS, Ecosystem Science, 1999 BA, Environmental Studies and Anthropology, 1991	Endangered species compliance, impact assessments, conservation biology	20 years	Terrestrial Biological Resources
Ken Bogdan, Esq.	JD, Law, 1989 BS, Environmental Management, 1986	NEPA/CEQA compliance, regulatory strategy and assistance, environmental education	22 years	Project Manager (2011–2012)
Russell Brown	PhD, Civil Engineering and Water Resources, 1978 MS, Ocean Engineering, 1974 BS, Civil and Environmental Engineering, 1972	Hydrologic and water quality modeling to support fisheries and other water resource investigations	34 years	Energy
David Buehler, PE	BS, Civil Engineering, 1980	Noise and vibration impact and mitigation assessment	30 years	Noise

Name	Education	Expertise	Experience	Project Role
William Bumback	MS, Environmental Science, 2003 BS, Natural Resources Planning, 1997	Local land use planning and policy development, environmental impact assessment	16 years	Land Use
Joel Butterworth	MS, Geography, 1987 BA, Geography, 1985	Geology and soils impact assessment, soil resource evaluation, erosion and sediment control	24 years	Geology and Seismicity, Soils, Agricultural Resources
Saadia Byram		Technical editing, technical writing, document management, Section 508 compliance	21 years	Section 508 compliance
Daniel Cardoza	MS, Environmental Studies, 2011 BA, Environmental Science and Policy, 2009	CWA and California Fish and Game Code Regulatory Compliance, GIS	4 years	GIS Support
John Chadbourne	BS, Biology, 1999	GIS, spatial analysis, cartography	15 years	GIS Support
Brenda Chang	MS, Transportation Technology and Policy, 2009 BS, Mechanical Engineering, 2006	Air quality and climate change impact analysis and emissions inventory development	1 years	Air Quality and Greenhouse Gases
Kenneth Cherry	BA, English, 1980	Writing and editing	23 years	Editing
Bonnie Chiu	BA, Political Science/Public Service, 2002	Environmental justice analysis, land use analysis, project management	9 years	Environmental Justice, Public Services and Utilities
Lindsay Christensen	BS, Community and Regional Development, 2004	Planning and environmental impact analysis	7 years	Public Services and Utilities
Gary Clendenin, PG	MS, Geology, 1990 BS, Geology, 1984	Geology, hydrogeology, and hazardous waste management	26 years	Hazards and Hazardous Materials
Becky Crosswhite	BS, Community and Regional Development, 1999	GIS, spatial analysis, cartography	11 years	GIS Support
Susan Davis	MS, English Literature, 1995 BA, English Literature, 1990	Content analysis, website development, programming, electronic publishing	15 Years	Coordination
John Durnan	BS, Biochemistry, 1991	Cartography, graphical illustrations	9 years	Graphics
Edward Douglas	BA, Geography, 2006	GIS, GPS, CAD, map production	5 years	GIS Support
Nicholas Dreves	BA, Economics and Public Policy Analysis, 2004	Climate change, greenhouse gas mitigation markets, air quality impact assessment	7 years	Air Quality and Greenhouse Gases
Greg Ellis	BA, Geography, 1993	NEPA/CEQA compliance, water resources, ESA compliance	15 years	Fish and Aquatic Resources
Lesa Erecius	MS, Pharmacology and Toxicology BS, Physiology	Water resources, aquatic toxicology, environmental impact assessment, project management	6 years	Project Coordinator (2011-2012)

Name	Education	Expertise	Experience	Project Role
Yonnel Gardes	MS, Transportation Engineering, 1991 BS, Civil Engineering, 1989	Transportation planning, traffic engineering, environmental compliance	20 years	Transportation
Rachel Gardiner	MS Candidate, Wildlife Ecology BS, Biology, 2001	Avian monitoring, data analysis, scientific writing	11 years	Terrestrial Biological Resources
Teresa Giffen		Technical editing, writing, graphic design	14 years	Graphics Coordination
Paul Glendening	BA, Geography, 1999	GIS, cartography, spatial analysis	12 years	GIS Support
Lawrence Goral		Managing editor, technical writing, CEQA and NEPA document development	13 years	Managing Editor, Graphics Coordination
Joanne Grant, RPA	MA, Classical Archaeology, 2002 BA, Humanities, 1996	Prehistoric and historic archaeology, cultural resource management	7 years	Cultural Resources
Marin Greenwood	PhD, Fish Ecology, 2002 MS, Applied Fish Biology, 1997 BS, Aquatic Bioscience, 1996	Aquatic ecology, impact assessment, restoration benefit assessment	9 years	Fish and Aquatic Resources
Jennifer Haire	BS, Biology, 1995	Wildlife biology, special-status species surveys, environmental document preparation	16 years	Terrestrial Biological Resources
Kathryn Haley	MA, History (Public History), 2004 BA, History, 2001	Cultural resources management, historic resource inventories and evaluations	9 years	Cultural Resources
Erica Hall	BA, Biological Sciences, 2000	Wetland biology, natural resources impact assessment	11 years	GIS Coordination
Leila Harris	BA, Environmental Studies and English	Special-status species surveys, wildlife habitat assessments	17 years	Terrestrial Biological Resources
Shannon Hatcher	BS, Environmental Science, 2000 BS, Environmental Health and Safety, 2000	Air quality and greenhouse gas chapters review	11 years	Air Quality and Greenhouse Gases
Erin Healy	MS, Marine Science, 1988 BA, Geology/Biology, 1983	Water quality, hydrology, and contaminants analysis	20 years	Fish and Aquatic Resources
Anthony Held	PhD, Civil and Environmental Engineering, 2001 MS, Civil and Environmental Engineering, 1998 BS, Civil Engineering, 1994	Air pollution dispersion modeling, climate action planning, air quality modeling, health exposure and risk assessment analysis	17 years	Air Quality and Greenhouse Gases, Climate Change
Erin Hitchcock	BS, Wildlife, Fisheries, and Conservation Biology, 2002	Special-status species surveys and environmental document preparation	8 years	Terrestrial Biological Resources

Name	Education	Expertise	Experience	Project Role
Andrew Horn, PG	MS, Geological Sciences, 1997 BS, Geology, 1990	Environmental assessment of hazardous waste sites, environmental and water resource investigations	17 years	Hazards and Hazardous Materials
John Howe	MS, Environmental Biology, 2001 BS, Biology, 1993	Aquatic and wildlife ecology, wildlife surveys, habitat assessments	15 Years	Terrestrial Biological Resources
Jessica Hughes	MS, Botany and Plant Pathology, 2004 BS, Biology, 2000	Botanical surveys, wetland delineation, habitat-based site assessment	7 years	Terrestrial Biological Resources
Michelle Jerman, RPA	MA, Anthropology, 2005 BA, Anthropology, 2000	Cultural resources management; archaeological identification, evaluation, and data recovery	11 years	Cultural Resources
Deborah Jew	A.A. General Education 1992 C.A. Graphic Communication 2013	Lead word processor and document coordination	31 years	Production
Jody Job		Word processing and document coordination	33 years	Production for Fish and Aquatic Resources
Monte Kim	PhD, History, 2005 MA, History, 1999 BA, History, 1996	Historic resource surveys, architectural resource evaluation	10 years	Cultural Resources
Alexa La Plante	MS, Civil and Environmental Engineering, 2008 BA, Environmental Studies, 2001	Water quality permitting compliance, water resources planning, climate change	10 years	Climate Change
Leo Lentsch	MS, Fishery and Wildlife Biology, 1985 BS, Fishery and Biology and Zoology, 1979	Conservation planning and management, species status assessments, endangered species recovery planning	24 years	Fish and Aquatic Resources
Eric Link	MS Candidate, Conservation Biology BS, Ecology	GIS, spatial data analyses, assessment modeling, conservation biology	4 years	GIS Support
Stefanie Lyster	MPA, 2003 BA, Journalism, 1998	Communications, public outreach, project management	14 years	Public Involvement, Consultation, and Coordination
Donna Maniscalco	BS, Wildlife, Fish, and Conservation Biology, 2000	Fisheries impact assessment, fish population surveys, fish sampling	12 years	Fish and Aquatic Resources
Christine Martin	BA, Anthropology, 2008	GIS, archaeological survey, sampling, excavation	9 years	Cultural Resources GIS Support
Tanya Matson	BA, Environmental Studies, 1996	Natural resources management, water resource planning, watershed management	13 years	Recreation

Name	Education	Expertise	Experience	Project Role
Cory Matsui	BA, Earth and Planetary Science, 2009 AA, Physics, 2007	Air quality and climate change environmental impact analysis	4 years	Air Quality and Greenhouse Gases
Dana McGowan, RPA	MA, Anthropology, 1990 BA, Anthropology, 1984	Cultural resource practice leader, cultural resource identification and evaluation	21 years	Cultural Resources
Timothy Messick	MA, Biology, 1982 BA, Botany, 1980 AA, Natural Resources, 1977	Graphic design, illustration, cartography, botany	29 years	Graphics
Tami Mihm	BS, Environmental Policy Analysis and Planning, 1988	Editing, NEPA/CEQA, project management	20 years	Recreation, Executive Summary, Editing
Casey Mills	MA, Political Science and Communications, 2005 BA, Psychology, 2001	Environmental justice analysis, land use analysis	7 years	Climate Change
Martin Minkoff	MS, Urban and Regional Planning, 1982 BA, Geography, 1976	Transportation planning and management, environmental review	30 years	Transportation
Stephanie Monzon	MA, English, 2000 BA, English, 1998	Editing and publishing	6 years	Editing
Stephanie Myers	MS, Avian Sciences, 1987 BA, Biology, 1983	Special-status species surveys, wildlife habitat evaluation, impact assessment	25 years	Terrestrial Biological Resources
Richard Oestman	MS, Fisheries, 1991 BS, Fisheries, 1983	Fisheries and water quality, regulatory analysis, NEPA/CEQA compliance	26 years	Fish and Aquatic Resources
Corrine Ortega	AA, Communications, 1996	Document production and publication	22 years	Document Production for Terrestrial Biological Resources
Robert Preston	PhD, Botany, 1990 MA, Botany, 1983 BA, Biological Sciences and Chemistry, 1981	Botanical surveys, wetlands delineations, wetlands permitting	21 years	Terrestrial Biological Resources
Lisa Randall	MS, Landscape Architecture, 1978 BA, English, 1974	Technical editor for CEQA and NEPA documents	33 years	Editing
Alisa Reynolds	MA Candidate, Anthropology BA, Anthropology, 1995	Cultural resources compliance for NEPA/CEQA and mitigation procedures	16 years	Cultural Resources
Robert Rivasplata	BA, History, 2008	Content analysis, technical studies	4 years	Project assistant
Diana Roberts	MA, Linguistics, 1991 BS, Applied Psychology, 1982	Environmental planning, preparation of CEQA/NEPA documents	8 years	Public Services and Utilities
Anthony Rodgers-Wright	MA, Community Planning, Environmental Science, and Public Policy, 2002 BA, Environmental Science and Policy, 1999	Wetland delineation permit preparation, environmental site assessments	10 years	Hazards and Hazardous Materials

Name	Education	Expertise	Experience	Project Role
Michael Rushton	MA, Geography, 1972 BA, Geography, 1968	NEPA/CEQA compliance, natural resources management planning, environmental permitting	39 years	Geology and Seismicity Soils Terrestrial Biological Resources Minerals Paleontological Resources
Meg Scantlebury	MA, Historic Preservation, 2003 BS, Environmental Design, 1981	Section 106 implementation, cultural resources compliance	13 years	Cultural Resources
Dan Schiff	BA, Geography, 2002	GIS, geospatial database design and management	7 years	GIS Support
Brian Schuster	BS, Atmospheric, Oceanic, and Environmental Science, 2007	Air quality impact studies, permitting support, regulatory analysis	4 years	Air Quality and Greenhouse Gas Emissions
Sacha Selim	BA, Economics/Business Management	GIS, spatial analysis, geodatabase design and topology	5 years	GIS Support
Emily Setzer	MA, Interactive Environmental Journalism, 2007 BA, English, 2003	Communications, writing and editing, publication management	9 years	Coordination, Executive Summary, Recreation, Environmental Justice
Steven Seville, PE	BS, Civil Engineering, 1997	Hydrologic modeling, topographic and bathymetric survey, hydrological data analysis	14 years	Energy
Paul Shigley	BA, Government Journalism	Writing and editing, land use planning, environmental regulation	24 years	Executive Summary, Land Use, Editing
Logan Sholar	BS, Biology, 2006	Environmental compliance documents, GIS data analysis	5 years	GIS Support
Tom Stewart	PhD, Geography, 1988 MS, Geography, 1981 BA, Geography, 1974	Energy and hydroelectric development, watershed analysis	35 years	Minerals
Jennifer Stock, LA	BLA, Landscape Architecture, 1999	Visual resources and shade/shadow analysis, habitat restoration projects	12 years	Aesthetics and Visual Resources
Jenny Tanphanich	BS, Environmental Engineering, 2009	Ozone depletion, emissions analysis	3 years	Air Quality and Greenhouse Gases
Silas Toms	MS Candidate, GIS BA, Geography, 2006	GIS, GPS, digital cartography	4 years	GIS Support
Roger Trott	MS, Agricultural Economics, 1983 BA, Economics, 1981	Socioeconomic assessments	29 years	Socioeconomics
Ellen Unsworth	MS, Interdisciplinary Studies (geology, biology, and technical communication), 1997 BA, Geology, 1989	Geology and paleontology sections for NEPA/CEQA documents	12 years	Paleontological Resources

Name	Education	Expertise	Experience	Project Role
Jason Volk	BS, Mechanical Engineering, 2000	Noise modeling and analysis, air quality modeling and analysis	11 years	Noise
Jennifer Wallis	MEM, Environmental Economics and Policy, 2010 BS, Environmental Conservation Studies, 2008	Marine coastal planning, ocean and coastal policy, water resource planning, fisheries policy	4 years	Public Health
Richard Walter	MA, International Relations/Energy, Environment, Science, and Technology, 1993 BA, History, 1985	Municipal climate action planning, environmental planning and compliance strategy	20 years	Climate Change
Paul Weller, RLA, ISA, LEED AP	BLA, Landscape Architecture, 1998	Landscape architecture, arboriculture	13 years	Recreation
Margaret Williams	PhD, Marine and Atmospheric Chemistry, 2003 BA, Environmental Science, 1997	Criteria pollutant and GHG inventories, climate change analysis	8 years	Air Quality and Greenhouse Gas Emissions Climate Change
Nicole Williams	MEM, Environmental Management, 2003 BA, Environmental Analysis and Design and Criminology, 2000	Preparation of environmental documents, project management and coordination	11 years	Public Health
Rick Wilder	PhD, Ecology, Evolution, and Marine Biology, 2003 BS, Biology, 1994	Fisheries biology	17 years	Fish and Aquatic Resources
Danielle Wilson	Business and Management, 1986	Stakeholder engagement, public education	26 years	Appendices
Barbara Wolf	MA, Anthropology, 2003 BA, Geography and Anthropology, 1997	Editing, formatting, publishing	14 years	Editing
Andrew Wones	MS, General Science (Biological Science), 1988 BS, Biology, 1984	Ecological studies, environmental impact assessments, permit applications	29 years	Fish and Aquatic Resources
Laura Yoon	MS Candidate, Environmental Management BA, Environmental Studies, 2009	Air quality impact studies, conformity analysis, dispersion modeling	2 years	Air Quality and Greenhouse Gases Climate Change
Teal Zeisler	BA, Environmental Studies, 2006	GIS, spatial analysis, mapping	5 years	GIS Support

1

2 CH2M Hill

Name	Education	Expertise	Project Role
Lucas Bair	MS, Agricultural and Resource Economics, 2001 BS, Forestry, 1997	Resource Economics	Socioeconomics
Jeanne Brantigan, PE	MS, Civil and Environmental Engineering, 2002; BS, Mechanical Engineering, 1999	Water Resources Engineering	Water Supply Surface Water Groundwater

Name	Education	Expertise	Project Role
Nathan Brown, PG, CHg	MS, Hydrogeology, 1995 BS, Geology, 1993	Hydrogeology	Groundwater
Gwendolyn Buchholz, PE	MS, Civil Engineering, 1976 BA, Physics, 1974	Water Resources Engineering CEQA/NEPA Physical Science	Water Supply Surface Water Groundwater Socioeconomics
Earl Byron, Senior Ecologist	PhD, Ecology and Limnology BA, Marine Biology,	Environmental Science	Surface Water Quality
Chandra Chilmakuri, PE	PhD, Hydrodynamics and Environmental Modeling, 2005 MS, Civil and Environmental Engineering, 2002 BS, Civil Engineering, 2000	Water Resources Engineering	Water Supply Surface Water Groundwater Quality
Dillon Cowan, PE	MS, Cornell University, 2008 BS, Colorado State University, 2005	Water Resources Engineering	Water Supply Surface Water
Steven Hatchett	PhD, Agricultural Economics, 1984 MA, Administration, 1980 BS, Forestry, 1977	Resource Economics	Socioeconomics
Wendy Haydon	MS, Recreation Administration BA, Environmental Studies	Environmental Planning	Water Supply
Allan Highstreet	MS, Agricultural Economics BS, Agricultural Business Management	Resource Economics and Financial Management	Socioeconomics
Justin LaNier	MS, Civil Engineering, 2006 BS, Civil Engineering, 2002	Hydrogeology	Groundwater
Peter Lawson, PG, CHg	MS, Hydrology, 1988 BS, Geology, 1985	Hydrogeology	Groundwater
Robert Leaf, PE	MS, Civil Engineering, 1994 BS, Civil Engineering, 1992 BS, Forest and Resource Management, 1987	Water Resources Engineering	Water Supply Surface Water
Duncan Mac Ewan	PhD, Economic Geography, 2011 MS, Agricultural and Resource Economics, 2008 BS, Mathematical Economics and Economic Theory, 2006	Resource Economics	Socioeconomics
Armin Munevar, PE	MS, Civil and Environmental Engineering, 1997 BS, Civil Engineering, 1991	Water Resources Engineering	Water Supply Surface Water
Harry Ohlendorf, CWB, Senior Ecologist	PhD, Wildlife Science, 1971 MS, Wildlife Science, 1969 BS, Wildlife Science, 1962	Ecological Risk Management	Surface Water Quality
Heather Perry	MS, Hydrogeology, 2001 BS, Geology, 1996	Hydrogeology	Groundwater
Lisa Porta, PE	MS, Environmental Science and Engineering, 2007 BS, Biological Systems Engineering, 2004	Water Resources/ Hydrogeologic Engineering	Groundwater Water Supply Surface Water

Name	Education	Expertise	Project Role
Ashraf Shaqadan	PhD, Civil and Environmental Engineering–Water Resources, 2008 MS, Biological and Irrigation Engineering–Wastewater Treatment, 2003 BS, Soils and Irrigation, 1995	Water Resources Engineering	Water Supply Surface Water
Derya Sumer, PE	PhD, Civil Engineering–Water Resources, 2007 MS, Civil Engineering–Water Resources, 2002 BS, Civil Engineering, 1999	Water Resources Engineering	Water Supply Surface Water
Robert Tull, PE	MSE, Environmental Engineering, 1986 BS, Environmental Planning, 1981	Water Resources Engineering	Water Supply Surface Water
Fatuma Yusuf	PhD, Agricultural Economics, 2000 MS, Statistics, 1999 MA, Agricultural Economics, 1994 BSc, Range Management, 1990	Resource Economics	Socioeconomics

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2 Black & Veatch

Name	Education	Expertise	Experience	Project Role
Steve Brockhoff	BS, Geography	Geographic Information Systems	8 Years	GIS Analyst Mapbooks
Diana Cregar	BS, Urban and Regional Planning and Historic Preservation	Geographic Information Systems	15 Years	GIS Implementation Mapbooks
Crystal Schiffbauer-Bowles	MS, Environmental Information Systems and Project Management BS, Environmental Science and Environmental Biology	Geographic Information Systems	7 Years	GIS Analysis Mapbooks

3

4 RBI Consulting, Inc.

Name	Education	Expertise	Experience	Project Role
Michelle Brown, PE	MS, Civil Engineering, 1996 BS, Civil Engineering, 1993	Water quality and water resources assessments related to CEQA compliance and NPDES permitting	15 years	Water Quality
Michael Bryan	PhD, Environmental Toxicology and Fisheries Biology, 1993 MS, Fisheries Biology, 1989 BS, Fisheries	Water quality, fisheries biology, aquatic toxicology research and CEQA/NEPA assessments	25 years	Water Quality
Casey Fallon	MBA, Business Administration, 2010 BBA, Finance Operations, 2004	Energy and power use data organization and analysis	8 years	Water Quality

Name	Education	Expertise	Experience	Project Role
Satya Gala, PE	PhD, Civil Engineering, 2006	Hydrology modeling, water quality modeling, wetland delineation	7 years	Water Quality
Ben Giudice	PhD Candidate, Environmental and Water Resources Engineering, 2008 MS, Environmental Engineering, 2007 BSE, Civil Engineering, 2005	Environmental fate and transport, risk assessment, ecotoxicology	6 years	Water Quality
Brant Jorgenson	PhD Candidate, Agricultural and Environmental Chemistry BS, Environmental Toxicology, 1995	Water quality analysis and characterization, contaminated sediments, water suitability assessments	14 years	Water Quality
Jeff Lafer	MS, Environmental Science, 1992 BS, Environmental Science, 1985	Water quality and water resources studies and impact assessment	20 years	Water Quality
Joan McHale	BS, Soil and Water Science, 1982	Technical editor, format and design	20 years	Water Quality
Andrew Sayers-Fay	PhD, Environmental Chemistry, 2006 BS, Chemistry, 1992	Environmental fate and transport, ecotoxicology research and technical assistance	11 years	Water Quality
Keith Whitener	BS, Wildlife and Fisheries Biology, 1988	Aquatic studies, biological assessments, land stewardship operations	16 years	Water Quality

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2 **ESA**

Name	Education	Expertise	Experience	Project Role
Leslie Moulton	BA, Human Biology	Water resource management; CEQA/NEPA compliance	24 years	Growth Inducement
Catherine McEfee	MS, Water Science, 1988 BS, Environmental Policy Analysis and Planning, 1983	Water resource management; drainage, surface, groundwater quantity and quality	20 years	Growth Inducement
Bradley Allen	BA, Geography	GIS, geography, aerial photography	10 years	Growth Inducement
David Beecroft	BA, Geography	GIS, GPS, spatial analysis	5 years	Growth Inducement
Allison Chan	BS, Environmental Biology and Management	Water resources, CEQA document preparation	5 years	Growth Inducement
Nisha Chauhan	BA, Environmental Studies	Environmental document preparation	10 years	Growth Inducement
Shana DeClercq	BA	Technical support		Growth Inducement
Josh Ferris	BA, Environmental Studies and Anthropology	Project planning, alternatives analysis, agency coordination	8 years	Growth Inducement

Name	Education	Expertise	Experience	Project Role
Paul Garcia	BS, Environmental Policy Analysis and Planning	Land use planning and compatibility, hydrology and water quality	6 years	Growth Inducement
Todd Gordon	BS, Animal Science and Management	Data sampling, QA/QC, data review	2 years	Growth Inducement
Jill Hamilton	BS, Political Science, 1989	Water supply, recycled water, and wastewater projects	18 years	Growth Inducement
Mariah Mills	MESM, Environmental Science and Management BA, Environmental Studies	Water quality, stormwater management, wetland permitting and mitigation		Growth Inducement
Christine Mueller	MCP, Environmental Policy and Planning BA, Earth Sciences and Environmental Studies	Growth inducement, water supply and demand analysis	13 years	Growth Inducement
Victor Mullins	MLS, Library and Information Science BA, English Literature	Administrative and library support		Growth Inducement
Logan Sakai	AS, Electronics Technology	Desktop publishing and editing		Growth Inducement
Andrea Thorpe	BA Candidate, Interdisciplinary Studies	Administrative and technical support	13 years	Growth Inducement
Thomas Wyatt	AA, Art and Photography	Graphics, web site design		Growth Inducement

1 SAIC

Name	Education	Expertise	Experience	Project Role
Vanessa Emerzian	MS Natural Resources Planning, 2008 BS, Natural Resources Planning, 1997	Conservation ecology	13 years	Fish and Aquatic Resources
Juan Pablo Galván	MS Sustainable Development and Conservation Biology 2008 BS, Ecology, Behavior, and Evolution, 2005	Ecology and conservation biology	7 years	Fish and Aquatic Resources
Chris Hunt	MS Environmental Science, 2001 BS, Biology, 1998	Fisheries biology	12 years	Fish and Aquatic Resources
Monica Stillman	MS Earth Science/Oceanography, 1991 BS, Geology, 1985	NEPA coastal ecology	21 years	Fish and Aquatic Resources

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1 Fehr & Peers

Name	Education	Expertise	Experience	Project Role
Ronald Milam	BS, Environmental Policy Analysis and Planning	Travel demand modeling, traffic operations analysis, transportation impact studies	20 years	Transportation
David Robinson, PE	BS, Civil Engineering	Traffic operations, travel demand analysis, environmental analysis	16 years	Transportation
Joe Anderson, EIT	BS, Civil Engineering, 2008	Traffic signal design, lighting design	3 years	Transportation
Gloria Brill		Contract administration, project coordination	20 years	Transportation
Carrie Carsell	BA, Geography and Environmental Studies, 2003	GIS, GPS, graphic design, cartography	8 years	Transportation
David Carter	MCRP, City and Regional Planning, 2008 BS, International Affairs, 2003	Transportation planning, environmental impact studies	3 years	Transportation
Robert Hananouchi	BS, City and Regional Planning, 2009	Traffic operations and impact analysis	2 years	Transportation
Steven Rhyne		GIS, visual communications	20 years	Transportation
Amy Smith	MA, Geography and Regional Studies, 2009 BA, Geography and Regional Studies, 2006	GIS, visual communications	2 years	Transportation
Lindsay Soza		Accounting support	10 years	Transportation

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3 Apple One

Name	Education	Expertise	Experience	Project Role
Sokhom Curry	AA Language and Literature, 1997	Data entry	5 years	Air Quality and Greenhouse Gases
James Lee		Administrative support	4 years	Air Quality and Greenhouse Gases
John Lee		Data entry	3 years	Air Quality and Greenhouse Gases
Stella Reyes	BS, Commerce	Financial analysis and accounting	16 years	Air Quality and Greenhouse Gases
Hannah Wasserman	BA, Sociology, 2010	Data entry and administrative support	4 years	Air Quality and Greenhouse Gases

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5 egret, inc.

Name	Education	Expertise	Experience	Project Role
Joan Lynn		Technical writing, editing, and document production	25 years	Editing

1 **Estep Environmental Consulting**

Name	Education	Expertise	Experience	Project Role
James Estep	BS, Wildlife and Fisheries Biology, 1984	Resource conservation and wildlife management planning	28 years	Terrestrial Biological Resources

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3 **Loren Bottorff**

Name	Education	Expertise	Experience	Project Role
Loren Bottorff				Water Supply Groundwater

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5 **Cardno Entrix**

Name	Education	Expertise	Experience	Project Role
Ramona Swenson	Ph.D., Integrative Biology, 1995 B.A., Biology, 1986	Adaptive management & monitoring, conservation biology, fisheries biology, project management	20 years	Fish and aquatic resources
Daniel Huang	MESM, Environmental Science and Management, 2011 B.S., Aquatic Biology, 2007	Aquatic ecology, natural resources management, water resources	2 years	Fish and aquatic resources
Michael Aceuituno	M.S., Biological Sciences, 1974 B.S., Biologic Sciences, 1971	Aquatic ecology, biological assessments, Endangered Species Act, fish habitat assessments and analyses	40 years	Fish and aquatic resources
Tom Taylor	M.S., Aquatic Ecology, 1978 B.A., Biology, 1970	Aquatic ecology, fishery biology, water resources development, aquatic habitat assessment, restoration of aquatic systems	34 years	Fish and aquatic resources
Melissa Klungle	B.S., Fisheries and Wildlife Management, 2004	Aquatic and terrestrial ecological risk, data analysis, database management, Endangered Species Act, habitat conservation plans	10 years	Fish and aquatic resources
Lorraine Woodman	Ph.D., Anthropology, 1981 M.A., Anthropology, 1978 B.A., Anthropology, 1975	CEQA/NEPA, project management, water resources, habitat conservation, ports and harbors	25 years	Water supply

Name	Education	Expertise	Experience	Project Role
Duane Paul	Ph.D. , Agricultural Economics, 1976 M.S., Agricultural Economics, 1969 B.S., Agricultural Management, 1968	Agricultural economics, natural resources economics, benefit-cost analysis	35 years	Water supply
Rob Thomson	M.S., Ecology, 1977 B.S., Zoology, 1973	Endangered Species Act, permitting and compliance, water restoration	30 years	Water supply
Laurie Warner Herson	B.A., Anthropology, 1977	CEQA/NEPA permitting, transportation projects, regulatory specialist, cultural resources compliance	30 years	Water supply
Mark Horne	B.A., Geography-Ecosystems, 1980	Integrated water resource management, watershed planning, CEQA/NEPA analysis	31 years	Water supply

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2 33.1.3 Consultant Teams (before 2011)

3 AECOM

Name	Education	Expertise	Experience	Project Role
Phil Dunn	MS, Fisheries Biology, 1981 BS, Zoology, 1979	CEQA/NEPA compliance, project management	30 years	AECOM project director
Richard Hunn	MS, Natural Resource Planning, 1979 BS, Conservation of Natural Resources, 1975	CEQA/NEPA compliance, project management, water resources planning	31 years	AECOM project manager
Madeline Bowen	MA, History, 1992 BA, Liberal Studies, 1987	Historian, cultural resources assessment	15 years	Cultural Resources
Jennifer Burt	PhD, Restoration Ecology, 2009 MS, Conservation Biology, 2000 BS, Biology, 1999	Terrestrial ecology	10 years	Terrestrial Biology
Rudy Calderon	MA, Urban Planning, 1998 BA, Anthropology, 1992	Visual/aesthetics analysis and assessment	10 years	Visual Resources
Anne Ferguson	MS, Environmental Sustainability, 2002 BS, Natural Resource Recreation and Tourism, 2001	Recreation analysis and assessment	8 years	Recreation
Steve Heipel	BS, Anthropology, 1978	Archaeology, cultural resources	32 years	Cultural Resources
Jenifer King	BS, Wildlife Biology, 1995	Land use planning and assessment	15 years	Land Use

Name	Education	Expertise	Experience	Project Role
Dennis Larson	MA, Economics, 2003 BA, Geography, 2001	Economic planning, assessment	7 years	Socioeconomics Environmental Justice
Thomas Leeman	MS, Natural Resources (Wildlife Option), 2000 BS, Biological Science, 1992	Wildlife biology	18 years	Terrestrial Biology
George Lu	BS, Environmental Resources and Science, 2005	Air quality	5 years	Greenhouse Gas Emissions
Brian Ludwig, Ph.D.	PhD, Anthropology, 1999 MA, Anthropology, 1992 BA, Anthropology, 1985	Archaeology, cultural resources	28 years	Cultural Resources
Jim Merk	MA, English, 1989 BA, English, 1983	Writing, editing, document production management	21 years	Technical Editor
Gerrit Platenkamp	PhD, Ecology, 1989 MS, Animal and Plant Ecology, 1982 BS, Biology, 1978	Terrestrial biology, ecology	20 years	Terrestrial Biology
Alexander Quinn	MA, City Planning, 1998 BA, Politics, 1994	Economic planning, assessment	14 years	Socioeconomics
Dave Rader	MA, Business Economics, 1991 BA, Print Journalism, 1984	CEQA/NEPA Compliance, Air quality	7 years	Greenhouse Gas Emissions
Barry Scott	MS, Anthropology, 1988 BA, Anthropology, 1983	Archaeology, cultural resources assessment	20 years	Cultural Resources
Ben Sigman	MS, Agricultural and Resource Economics, 2003 BA, Economics, 1999	Economic planning, assessment	10 years	Socioeconomics
Jessica Sisco	BA, Environmental Sciences, 1998	Planning, public outreach, environmental justice	10 years	Environmental Justice
Natalie Smith	BS, Environmental Science, 2002	CEQA/NEPA Compliance	9 years	Recreation, Environmental Justice, Socioeconomics
Petra Unger	MS, Botany (minors in Soil Science and Zoology), 1994	Terrestrial ecology	18 years	Terrestrial Biology
Jim Vogel	MS, Forest Recreation Resource Management, 1993 BS, Forest Recreation Resource Management, 1987	Recreation analysis and assessment	18 years	Recreation
Stev Weidlich	MS, Anthropology, 2006 BA, Anthropology, 2003	Ethnography, social sciences	5 years	Environmental Justice
Mark Winsor, Ph.D.	PhD, Physical Geography/ Geomorphology, 1985 BA, Geography, 1968	Visual/aesthetics analysis and assessment	25 years	Visual Resources

1	33.2 Preparers by Chapter	
2	Executive Summary	Teresa Chan
3		Gregg Roy
4		Lesia Erecius
5		Emily Setzer
6	1 Introduction	Ken Bogdan
7		Adam Smith
8	2 Purpose and Need/Project Objectives	Ken Bogdan
9	3 Description of Alternatives	Ken Bogdan
10		Lesia Erecius
11		Adam Smith
12		Jennifer Wallis
13	4 Approach to the Environmental Analysis	Ken Bogdan
14		Lesia Erecius
15		Teresa Chan
16		Victoria Axiaq
17	5 Water Supply	Gwendolyn Buchholz
18		Earl Byron
19		Chandra Chilmakuri
20		Dillon Cowan
21		Wendy Haydon
22		Robert Leaf
23		Armin Munevar
24		Harry Ohlendorf
25		Ashraf Shaqadan
26		Derya Sumer
27		Robert Tull
28		Loren Bottorff
29	6 Surface Water	Gwendolyn Buchholz
30		Earl Byron
31		Chandra Chilmakuri
32		Dillon Cowan
33		Wendy Haydon
34		Robert Leaf
35		Armin Munevar
36		Harry Ohlendorf
37		Ashraf Shaqadan
38		Derya Sumer
39		Robert Tull
40		

1	7	Groundwater	Gwendolyn Buchholz
2			Peter Lawson
3			Nathan Brown
4			Heather Perry
5			Lisa Porta
6			Justin LaNier
7			Jeanne Brantigan
8			Loren Bottorff
9	8	Water Quality	Michelle Brown
10			Michael Bryan
11			Casey Fallon
12			Satya Gala
13			Ben Giudice
14			Brant Jorgenson
15			Jeff Lafer
16			Joan McHale
17			Andrew Sayers-Fay
18			Keith Whitener
19			Earl Byron
20			Harry Ohlendorf
21	9	Geology and Seismicity	Joel Butterworth
22			Teresa Chan
23			Michael Rushton
24	10	Soils	Joel Butterworth
25			Michael Rushton
26	11	Fish and Aquatic Resources	Rick Oestman
27			Gregg Ellis
28			Marin Greenwood
29			Leo Lentsch
30			Erin Healy
31			Rick Wilder
32			Donna Maniscalco
33			Andrew Wones
34			Tom Stewart
35			Bob Sullivan
36			Stefanie Lyster
37			Jennifer Pierre
38			

1	12	Terrestrial Biological Resources	Stephanie Myers
2			Robert Preston
3			John Howe
4			Paola Bernazzani
5			Rachel Gardiner
6			Jennifer Haire
7			Leila Harris
8			Erin Hitchcock
9			Jessica Hughes
10			Michael Rushton
11			James Estep
12			Paul Shigley
13	13	Land Use	Adam Smith
14			Lesla Erecius
15			Paul Shigley
16			William Bumback
17	14	Agricultural Resources	Adam Smith
18			Joel Butterworth
19	15	Recreation	Tami Mihm
20			Tanya Matson
21			Paul Weller
22			Emily Setzer
23	16	Socioeconomics	Gwendolyn Buchholz
24			Allan Highstreet
25			Stephen Hatchett
26			Fatuma Yusuf
27			Lucas Bair
28			Duncan Macewan
29			Roger Trott
30			Adam Smith
31	17	Aesthetics and Visual Resources	Jennifer Stock
32			Tami Mihm
33			Paul Weller
34	18	Cultural Resources	Alisa Reynolds
35			Mike Aviña
36			Joanne Grant
37			Kathryn Haley
38			Michelle Jerman
39			Monte Kim
40			Christine Martin
41			Dana McGowan
42			Meg Scantlebury
43			

1	19	Transportation	Yonnel Gardes
2			Martin Minkoff
3			Victoria Axiaq
4			Robert Rivasplata
5			Joe Anderson
6			Gloria Brill
7			Carrie Carsell
8			David Carter
9			Rob Hananouchi
10			Ron Milam
11			Steve Rhyne
12			David Robinson
13			Amy Smith
14			Lindsay Soza
15	20	Public Services and Utilities	Bonnie Chiu
16			Lindsay Christensen
17			Teresa Chan
18			Diana Roberts
19	21	Energy Resources	Steve Seville
20			Russell Brown
21			Laura Yoon
22			Gregg Roy
23	22	Air Quality and Greenhouse Gases	Laura Yoon
24			Shannon Hatcher
25			Brenda Chang
26			Nicholas Dreves
27			Anthony Held
28			Cory Matsui
29			Brian Schuster
30			Jenny Tanphanich
31			Margaret Williams
32			Angela Woodward
33			Victoria Axiaq
34			Sokhom Curry
35			James Lee
36			John Lee
37			Stella Reyes
38			Hannah Wasserman
39			Adam Smith
40	23	Noise	Jason Volk
41			David Buehler
42			Victoria Axiaq
43			Teresa Chan
44			

1	24 Hazards and Hazardous Materials	Lesa Erecius
2		Adam Smith
3		Anthony Rodgers-Wright
4		John Horn
5		Gary Clendenin
6	25 Public Health	Nicole Williams
7		Lesa Erecius
8		Teresa Chan
9		Jennifer Wallis
10	26 Mineral Resources	Tom Stewart
11		Michael Rushton
12	27 Paleontological Resources	Ellen Unsworth
13		Michael Rushton
14	28 Environmental Justice	Bonnie Chiu
15		Mike Aviña
16		Emily Setzer
17	29 Climate Change	Anthony Held
18		Alexa La Plante
19		Casey Mills
20		Margaret Williams
21		Laura Yoon
22		Richard Walter
23		Victoria Axiaq
24	30 Growth Inducement	Catherine McEfee
25		Bradley Allen
26		David Beecroft
27		Allison Chan
28		Nisha Chauhan
29		Shana DeClercq
30		Joshua Ferris
31		Paul Garcia
32		Todd Gordon
33		Jill Hamilton
34		Karen Lancelle
35		Mariah Mills
36		Leslie Moulton
37		Christine Mueller
38		Victor Mullins
39		Logan Sakai
40		Andrea Thorpe
41		Thomas Wyatt
42		

1	31 Other CEQA/NEPA Required Sections	Victoria Axiaq
2		Steve Centerwall
3		Adam Smith
4		Lesia Erecius
5		Ellen Unsworth
6	32 Public Involvement, Consultation, and Coordination	Stefanie Lyster
7	33 List of Preparers	Lawrence Goral
8		Adam Smith
9	34 Glossary	Lawrence Goral
10		Paul Shigley
11	GIS	Kasey Allen
12		Silas Toms
13		Alex Angier
14		Daniel Cardoza
15		John Chadbourne
16		Becky Crosswhite
17		Edward Douglas
18		Paul Glendening
19		Erica Hall
20		Eric Link
21		Christine Martin
22		Dan Schiff
23		Sacha Selim
24		Logan Sholar
25		Teal Zeisler
26	Graphics	Alan Barnard
27		Teresa Giffen
28		Timothy Messick
29		John Durnan
30		Senh Selee
31	Editors	Lawrence Goral
32		Tami Mihm
33		Paul Shigley
34		Barbara Wolf
35		Stephanie Monzon
36		Lisa Randall
37		Kenneth Cherry
38		Joan Lynn
39		

