



PUBLIC FORUM

WEDNESDAY, NOVEMBER 8TH, 2017 | SACRAMENTO CONVENTION CENTER



Managed Groundwater Recharge to Support
Sustainable Water Management



PURPOSE

The purpose of this public forum is to identify benefits, opportunities, and barriers; gather momentum; and expand the implementation of managed groundwater recharge projects at all scales on agricultural lands and working landscapes for flood risk reduction, drought preparedness, and aquifer and ecosystem restoration.

AGENDA

8:30 am
Registration

9:00 am
Welcome, Overview, & Introductions
Speakers: Bryce Lundberg, California State Board of Food and Agriculture

9:10 am
Panel Discussion: Context
Managed Groundwater Recharge in a Post-SGMA World
Moderator: Andrew Fahlund, Water Foundation
Panelists: Timothy Parker, Groundwater Resources Association of California; Robert Swartz, Sacramento Groundwater Authority; David Guy, Northern California Water Association

9:55 am
What are others saying?
Recap of Flood Management Association Panel, Groundwater Resources Association Roundtable, and PPIC Report
Presenters: Kamyar Guivetchi, California Department of Water Resources & Ellen Hanak, PPIC

10:25 am
Break

10:40 am
Panel Discussion: Agriculture
Managed Groundwater Recharge on Agricultural Lands and Working Landscapes
Moderator: Taryn Ravazzini, California Department of Water Resources
Panelists: Don Cameron, California State Board of Food and Agriculture; Gabriele Ludwig, Almond Board of California ;Daniel Mountjoy, Sustainable Conservation; Jon Parker, Kern Water Bank Authority

11:25 am
Presentations: Potential Flood Risk Reduction and Ecosystems Benefits of Managed Groundwater Recharge
Presenters: John Carlon, River Partners & Michael Mierzwa, CA Department of Water Resources

12:05 pm
Lunchtime: Key Note Speaker
Speaker: Daniel Dooley, New Current Water and Land, LLC

AGENDA

1:00 pm

Panel Discussion: Policy

Legal, Policy, and Regulatory Opportunities and Constraints for Managed Recharge

Moderator: Gordon Burns, California Environmental Protection Agency

Panelists: David Aladjem, Downey Brand; Nicole Kuenzi, State Water Resources Control Board; Stefanie Morris, State Water Contractors; Jack Rice, CA Farm Bureau Federation

1:45 pm

Panel Discussion: Infrastructure

Infrastructure Opportunities and Constraints for Managed Recharge

Moderator: Christopher Dunn, U.S. Army Corps of Engineers

Panelists: Vanessa De La Piedra, Santa Clara Valley Water District; J. Paul Hendrix, Tulare Irrigation District; Tim O'Halloran, Yolo County Flood Control & Water Conservation District; Eric Tsai, California Department of Water Resources

2:30 pm

Panel Discussion: Governance

Scaling Up Managed Groundwater Recharge

Moderator: Arthur Hinojosa, California Department of Water Resources

Panelists: Helene Dahlke, University of California, Davis; James Gore, Sonoma County Board of Supervisors; Adam Hutchinson, Orange County Water District; Rhiannon Kucharski, U.S. Army Corps of Engineers

3:15 pm

Break

3:30 pm

Panel Discussion:

State Program Delivery to Support of Managed Groundwater Recharge Implementation

Moderator: Wade Crowfoot, Water Foundation

Panelists: Grant Davis, California Department of Water Resources; William Edgar, Central Valley Flood Protection Board; Erik Ekdahl, State Water Resources Control Board; Karen Ross, California Department of Food and Agriculture

4:25 pm

Closing/Next Steps

Speaker: Ashley Boren, California State Board of Food and Agriculture

4:30 pm Adjourn



Bryce Lundberg

Vice President of Agriculture at Lundberg Family Farms

Bryce Lundberg has been owner and partner at B and E Lundberg Farm since 1985 and has held multiple positions at Lundberg Family Farms since 1985, including owner, vice president of agriculture, director of organic certification and board member. He currently serves as chair of the Northern California Water Association and is a government affairs committee member at California Certified Organic Farmers. Lundberg is also a board member of the Western Canal Water District and of the California Farm Water Coalition. (Bryce@lundberg.com)



Andrew Fahlund

Senior Program Officer, Water foundation

Andrew Fahlund serves as senior program officer for the Water Foundation, which advances innovations in freshwater policy and practice throughout the West. Mr. Fahlund provides leadership in the ongoing development and implementation of organizational vision, mission, and strategic priorities, and engages in grantmaking and partnership cultivation. Mr. Fahlund received an MS in Natural Resource Policy from the University of Michigan, School of Natural Resources and Environment and a BA in Anthropology from Colorado College. (afahlund@waterfdn.org)



Timothy Parker

Director, Groundwater Resources Association of CA

Tim Parker is a nationally recognized groundwater expert and currently is an independent technical and policy consultant with Parker Groundwater in Sacramento, California, founded in 2009. He is a California Professional Geologist, Certified Engineering Geologist, and Certified Hydrogeologist. Tim serves the Groundwater Resources Association of California as a Director and Legislative Chairman, the California Groundwater Coalition as Director, and is a Director on the National Ground Water Association - Scientists and Engineers Division. (tparkergwguy@aol.com)



Robert Swartz

Manager of Technical Services, Sacramento Groundwater Authority

Rob Swartz is Manager of Technical Services with the Sacramento Groundwater Authority. Rob's responsibilities include managing development and implementation of SGA's Groundwater Management Program. Prior to joining SGA in 2003, Rob was with the California Department of Water Resources where he co-authored DWR's 2003 update to California's Groundwater - Bulletin 118, developed regional groundwater models, and conducted feasibility studies of regional-scale conjunctive use programs. Rob is a Professional Geologist and Certified Hydrogeologist in California.



David Guy

President, Northern California Water Association

David Guy is the President of the Northern California Water Association (NCWA). For the past several decades he has worked in various capacities to advance economic interests that promote the conservation of California's special places and their precious water and land resources. He has practiced water and land use law throughout California and he is an adjunct professor at San Joaquin College of Law. He currently serves on the Water Education Foundation Board of Directors.
(dguy@norcalwater.org)



Kaymar Guivetchi

Manager, Statewide Integrated Water Management California Department of Water Resources

During his time with DWR, Mr. Guivetchi has worked on numerous projects with the Central District, the Bay-Delta Office, the Division of Environmental Services, and the Division of Planning and Local Assistance. He currently manages the DWR staff work and the public comment process for the California Water Plan. (kamyar.guivetchi@water.ca.gov)

Ellen Hanak, PhD.

Senior fellow, Director, Water Policy Center Public Policy Institute of California



Ellen Hanak is director of the PPIC Water Policy Center and a senior fellow at the Public Policy Institute of California. Under her leadership, the center has become a critical source of information and guidance for natural resource management in California. She has authored dozens of reports, articles, and books on water policy, including *Managing California's Water*. Her research is frequently profiled in the national media, and she participates in briefings, conferences, and interviews throughout the nation and around the world. Her other areas of expertise include climate change and infrastructure finance. Previously, she served as research director at PPIC. (hanak@ppic.org)

Taryn Ravazzini

Deputy Director of Special Initiatives, Department of Water Resources



Taryn Ravazzini was appointed as the Department of Water Resources' Deputy Director of Special Initiatives in December 2015. This position is responsible for complex projects related to implementation of the California Water Action Plan, with emphasis on the Sacramento-San Joaquin Delta. Taryn is the Executive Lead for the Department's implementation of the landmark 2014 Sustainable Groundwater Management Act. She also serves as Executive Advisor to the California Water Commission, having previously held the position of Acting Executive Officer for the Commission in 2016-2017. (taryn.ravazzini@water.ca.gov)



Don Cameron

Vice President and General Manager, Terranova Ranch

Since 1981, Mr. Cameron has been Vice President and General Manager of Terranova Ranch Inc, located 25 miles SW of Fresno, California, farming approximately 6,000 acres, in addition to 1,500 acres custom farmed for other clients. The farm has a mix of conventional, organic and biotech crops ranging from organic pima cotton, walnuts, seed product, and tomatoes to biotech alfalfa, corn and pima and upland cotton, along with a diversity of other annual crops. Perennial crops grown include organic and conventional walnuts, conventional wine grapes, almonds, pistachios, olives, and prunes. In all, 26 crops are grown on the farm. (dcameron@terranovaranchinc.com)



Gabriele Ludwig, PhD

Director of Sustainability, Almond Board of CA

Gabriele Ludwig has been working for the Almond Board of California for some 12 years. At the Almond Board, Gabriele gets to combine her passion for agriculture and the environment with research and policy. As Director for Sustainability and Environmental Affairs, she was instrumental in the development of the California Almond Sustainability Program, and continues to encourage a diverse range of research on almonds and environmental issues. (gludwig@almondboard.com)



Daniel Mountjoy, PhD

Director of Resource Stewardship, Sustainable Conservation

Daniel is the Director of Resource Stewardship at Sustainable Conservation and is responsible for leadership of two program areas: Water for the Future and Accelerated Restoration. He works to integrate technical knowledge, decision support tools, and policy in support of groundwater sustainability and habitat restoration through collaboration with farmers, researchers, and agencies. (dmountjoy@suscon.org)



John Carlon

Co-founder, River Partners

Mr. Carlon has worked protecting and restoring rivers in California since 1991. In 1998, he and another local farmer started River Partners, an organization dedicated to the restoration of California's rivers and floodplains. Over the last 18 years, Mr. Carlon has overseen the implementation of over \$100 million worth of habitat protection and restoration in California. (jcarlon@riverpartners.org)



Michael Mierzwa

Lead Flood Management Planner, California Department of Water Resources

Michael Mierzwa, a California licensed P.E., is the lead flood management planner for the State of California's California Department of Water Resources (DWR). He is currently leading the development of the 2017 Central Valley Flood Protection Plan Update (CVFPP Update), which will outline a long-term path for implementing improvements in the State's Central Valley flood management system. (michael.mierzwa@water.ca.gov)



Daniel Dooley

Principal in New Current Land and Water, LLC.

Dan is currently a Principal in New Current Land and Water, LLC. Dan has over 35 years of experience in agricultural, resources and water policy/legal issues. From January of 2008 to the end of December 2014, Dan served the University of California, Office of the President, first as the Vice President of Agriculture and Natural Resources and then as the Senior Vice President for External Relations. (ddooley@newcurrentwater.com)



Gordon Burns

Undersecretary, California Environmental Protection Agency

Gordon Burns was appointed Undersecretary for the California Environmental Protection Agency by Governor Edmund G. Brown Jr. in December 2011. Prior to his appointment, Gordon spent most of his career as an attorney in the California Attorney General's Office, where he focused on complex natural resources cases, writs, and appellate practice. (Gordon.burns@calepa.ca.gov)



David Aladjem

Partner, Downeybrand

David Aladjem helps clients throughout California manage and resolve water resources management problems, especially those at the intersection of water rights, endangered species, and CEQA/NEPA. He represents water districts, cities, counties and private companies in obtaining, developing and protecting their water rights. He regularly represents clients in connection with water transfers and about the conjunctive use of surface water and groundwater. (daladjem@downeybrand.com)



Nicole Kuenzi

Office of Chief Counsel, State Water Resources Control Board

Nicole Kuenzi is a Staff Counsel with the State Water Resources Control Board, where she advises the Division of Water Rights and the Board's Groundwater Management Unit. Previously, she was at the water law firm of Petros & White in Denver, Colorado. (Nicole.kuenzi@waterboards.ca.gov)



Stefanie Morris

Partner, Best Best & Krieger LLP

Best Best & Krieger LLP Partner Stefanie Morris served four years as the in-house general counsel for the State Water Contractors before rejoining the firm in 2017. The State Water Contractors is the umbrella group representing the 27 water agencies that obtain water from the State Water Project. Stefanie has practiced almost exclusively in the area of water rights, but also has experience with environmental litigation. (smorris@swc.org)



Jack Rice

Associate Counsel, California Farm Bureau Federation

Jack Rice is an Associate Counsel of the California Farm Bureau Federation. He represents Farm Bureau membership in a variety of environmental matters, with a particular focus on water and endangered species issues. Jack grew up in agriculture, and maintains those roots with a small hay and cattle operation in Humboldt County and a grassfed beef business. He is a graduate of the University of California at Davis School of Law. (jrice@cfbf.com)



Christopher Dunn

Director, Hydrologic Engineering Center Institute for Water Resources

Mr. Dunn has been the Director of the Hydrologic Engineering Center (CEIWR-HEC) since May 2006, leading a staff of about 45 FTEs, consisting primarily of hydraulic engineering specialists, and overseeing an annual budget of approximately \$15 million. CEIWR-HEC's diverse program focuses on hydrologic and hydraulic engineering and planning analysis encompassing research, software development, special projects, training and technology transfer, and technical assistance to USACE field offices, HQUSACE, other agencies, and other nations. (Christopher.dunn@usace.army.mil)



Vanessa De La Piedra **Groundwater Management Unit Manager** **Santa Clara Valley Water District**

Vanessa De La Piedra is the Groundwater Management Unit Manager at the Santa Clara Valley Water District, overseeing efforts to protect Santa Clara County's groundwater resources. This includes monitoring and forecasting basin conditions, protecting water quality, collaborating with external agencies and stakeholders, and engaging on policy and legislation. Under Vanessa's leadership, the District maintains a comprehensive Groundwater Management Plan and ensures compliance with the Sustainable Groundwater Management Act.
(vdelapiedra@valleywater.org)



J. Paul Hendrix **General Manager - Tulare Irrigation District**

J. Paul Hendrix (PE) is the General Manager of Tulare Irrigation District. He possesses a broad background in water resources engineering, planning and management, having held positions with various consulting engineering firms engaged water resources projects. In addition to his current capacity, he has also served with several other public water agencies, including The Metropolitan Water District of So. Calif. in Los Angeles and Belridge Water Storage District in Kern County.
(jph@tulareid.org)



Tim O' Halloran **General Manager - Yolo County Flood Control and** **Water Conversation District**

Tim currently serves as the General Manager for the Yolo County Flood Control & Water Conservation District (District), which manages water supplies for a significant part of Yolo County. This region has been at the forefront of efforts to preserve farms, rural communities and the environment. He has also been a statewide leader in creatively managing the surface and groundwater resources in a conjunctive manner.
(tohalloran@ycfcwcd.org)

Eric Tsai

Acting Branch Chief, Flood Planning Branch, California Department of Water Resources



Eric Tsai is Acting Branch Chief of the Flood Planning Branch within the California Department of Water Resources. He focuses on leading integrated flood management planning studies at the watershed scale. For the past 7 years, he has supported both the 2012 Central Valley Flood Protection Plan (CVFPP) and the 2017 CVFPP Update, including basin-wide feasibility studies in the Sacramento River Basin and San Joaquin River Basin. Before coming to DWR, he worked on a wide variety of water resources planning projects as an engineer with MWH Global, which is now Stantec. (eric.tsai@water.ca.gov)

Arthur Hinojosa

Div Chief, Integrated Regional Water Mgmt. CA Dept. of Water Resources



As Chief for the Division of Integrated Regional Water Management (IRWM), Arthur's responsibilities include the management of the many local and regional assistance programs the California Department of Water Resources provides to promote and support regional sustainability. These efforts include support for regional IRWM planning efforts, providing technical and planning assistance to local groups and agencies, drought response, administering financial assistance grant programs, environmental restoration, water master services, surface and groundwater data collection, analyses, and evaluations. (Arthur.hinojosa@water.ca.gov)



Helene Dahkle, PhD

Associate Professor in Integrated Hydrologic Sciences

Dr. Dahlke's research goal is to contribute to a better mechanistic understanding of hydrological processes and their links to climate and biogeochemical cycling. Her current research interests include surface water – groundwater interactions, water resources management, vadose zone transport processes, hydrologic response functions and applications of DNA nanotechnology in hydrology. (hdahlke@ucdavis.edu)



James Gore

Supervisor James Gore, Sonoma County's 4th

James Gore currently serves as the 4th District Sonoma County Supervisor. Prior to that Supervisor Gore served as a presidential appointee as Assistant Chief of the U.S. Department of Agriculture's (USDA's) Natural Resources Conservation Service (NRCS). During this service, he led nationwide conservation efforts at the intersection of agriculture, business, and the environment. (district4@sonoma-county.org)



Adam Hutchinson

Orange County Water District

Adam Hutchinson is the Recharge Planning Manager for the Orange County Water District in southern California. He is responsible for testing and evaluating new methods to increase the capacity of the existing recharge system, planning for future expansion of the recharge system, and assisting recharge operations in developing optimization strategies. He has over 25 years water resources experience with 16 at OCWD. Prior to working at the District, Adam spent seven years as a Senior Hydrogeologist for CH2M HILL working on a wide variety of water resources projects, with most having an artificial recharge component. (ahutchinson@ocwd.com)



Rhiannon Kucharski

Chief of the Watershed Assessment and Ecosystem Restoration planning, U.S. Army Corps of Engineers

Rhiannon Kucharski is Chief of the Watershed Assessment and Ecosystem Restoration planning section at the Sacramento District (SPK) of the U.S. Army Corps of Engineers. Rhiannon started her career with the U.S. Army Corps of Engineers in 2009 as a Water Resources Planner for the Los Angeles District (SPL). She completed developmental details to Construction, Programs and Project Management and Regulatory Divisions, served as the Endowed Chair to the Southwestern Division (SWD) Regional Integration Team (RIT) in Washington, DC during her time at SPL. She moved to SPK as a Senior Planner in 2013 and completed a developmental assignment to South Pacific Division Planning and Policy in 2015. (rhiannon.l.kucharski@usace.army.mil)



Wade Crowfoot

Chief Executive Officer, Water Foundation

Mr. Crowfoot brings more than 20 years of public policy and environmental experience to his role, with expertise in water, climate and sustainability issues. He came to the Water Foundation from California Governor Jerry Brown's Administration, where he served since 2011, most recently as deputy cabinet secretary and senior advisor to Governor Brown, leading the administration's drought response efforts. Before joining the Brown Administration, Wade was west coast regional director for the Environmental Defense Fund and a senior environmental advisor to former San Francisco Mayor Gavin Newsom. (wcrowfoot@waterfdn.org)



Grant Davis

Director, California Department of Water Resources

Grant Davis was appointed Director of the California Department of Water Resources by Governor Edmund G. Brown Jr. in August 2017. Davis oversees the Department and its mission to manage and protect California's water resources, working with other agencies in order to benefit the State's people and to protect, restore and enhance the natural and human environments. (grant.davis@water.ca.gov)



William Edgar

President, Central Valley Flood Control Protection Board

Under Board President Edgar's leadership, the Central Valley Flood Protection Board adopted the Central Valley Flood Protection Plan in 2012, and has been instrumental in furthering the implementation of the Flood Plan. The Board has also made great strides in its enforcement of removing problematic encroachments, and reviewing and approving projects that enhance flood management in the Central Valley. (William.edgar@cvflood.ca.gov)



Erik Ekdahl

Director, State Water Resources Control Board

Erik Ekdahl is the Director of the State Water Board's Office of Research, Planning and Performance. Erik joined the State Water Board in 2008, where he focused on nitrate and groundwater contamination issues and development of GeoTracker GAMA, an on-line data tool, as part of the Board's Groundwater Ambient Monitoring and Assessment (GAMA) Program. Most recently, Erik was Program Manager for the Board's new Groundwater Management Unit, which is responsible for developing and implementing the Board's responsibilities under the Sustainable Groundwater Management Act. (erik.ekdahl@waterboards.ca.gov)



Karen Ross

Secretary, California Department of Food and Agriculture

Karen Ross was appointed Secretary of the California Department of Food and Agriculture on January 12, 2011 by Governor Edmund G. Brown Jr. Secretary Ross has deep leadership experience in agricultural issues nationally, internationally, and here in California. Prior to joining CDFA, Secretary Ross was chief of staff for U.S. Agriculture Secretary Tom Vilsack, a position she accepted in 2009. Before her time at the United States Department of Agriculture, Secretary Ross served more than thirteen years as President of the California Association of Winegrape Growers (CAWG), based in Sacramento. (karen.ross@cdfa.ca.gov)



Ashley Boren

Executive Director, Sustainable Conservation

Ashley Boren is the Executive Director of Sustainable Conservation, a nonprofit organization dedicated to partnering with business, agriculture and government to find practical ways that the private sector can protect clean air, clean water and healthy ecosystems. The organization leads powerful collaborations that produce real solutions and sustain the vitality of both California's economy and environment. Ashley previously worked at Smith & Hawken, a mail order and retail gardening company, and The Nature Conservancy. Ashley has a BA in human biology, an MA in applied economics and an MBA from Stanford University. (aboren@suscon.org)