



DREDGING AND BENEFICIAL REUSE WORKSHOP

Planning, Permitting, and Funding for 2018

November 13, 2017

Port of Oakland

AGENDA

9:00 AM – 12:30 PM
November 13, 2017
Port of Oakland
2nd Floor Board Room

Coffee and light breakfast items will be provided.

9:00 am

WELCOME AND INTRODUCTIONS

William H. Butler, *Vice President of Regulatory Affairs, Lind Marine and
Vice President, Bay Planning Coalition*

9:05 am

COMMITTEE UPDATES AND OPPORTUNITIES

BPC's annual Dredging and Beneficial Reuse Workshop is developed with input from the organization's Dredging and Beneficial Reuse Committee. We invite you to learn more about our activities to lead and inform on the region's dredging industry and policy.

Speaker: **Jaclyn Gnusti**, *Managing Engineer, Anchor QEA and Chair, Bay Planning Coalition
Dredging and Beneficial Reuse Committee*

9:10 am

UPDATE: IN-BAY AND BENEFICIAL REUSE SITES

Receive the latest information on beneficial reuse opportunities around San Francisco Bay with this expert panel, plus a quick hit on in-Bay disposal. We will hear from project managers and engineers on Cullinan and Skaggs Island, Montezuma Wetlands, Bel Marin Keys, and Eden Landing. Information will include details on costs, schedule, capacity, and more.

Moderator: **Scott Bodensteiner**, *Client Leader, Haley & Aldrich*

Panelists: **Steven Chappell**, *Executive Director, Suisun Resource Conservation District*
Steve Carroll, *Supervising Engineer, Ducks Unlimited*
Jim Levine, *Managing Partner, Montezuma Wetlands*
Amy Hutzell, *Deputy Executive Officer, California State
Coastal Conservancy*
Megan Collins, *Hydraulic & Coastal Engineer, AECOM*
Mark D'Avignon, *Project Manager, U.S. Army Corps of Engineers,
San Francisco District*

10:00 am

PERMITTING CHECKPOINTS: AVOIDING REGULATORY DELAYS ON YOUR NEXT PROJECT

Avoid delays in getting your next dredging project authorized –insights from key regulatory agencies and experienced organizations on what to look out for in the regulatory permitting process, followed by a real world applicant perspective from the Port of Oakland.

Moderator: **Josh Gravenmier**, *Vice President, Arcadis*

Panelists: **Jim Starr**, *Environmental Program Manager, California Department of Fish
and Wildlife*

Justin Semion, *Principal, WRA, Inc.*
Jaclyn Gnusti, *Managing Engineer, Anchor QEA*
Brenda Goeden, *Sediment Program Manager, San Francisco Bay
Conservation and Development Commission*
Tony Chu, *Port Associate Engineer, Port of Oakland*

11:00 am **BREAK**

11:20 am **UPDATE: MEASURE AA FUNDING**

Grant applications are now being accepted for the highly-anticipated Measure AA funding. Get a full status update and have your questions answered by Amy Hutzal, Deputy Executive Officer for the State Coastal Conservancy, a partner in placing Measure AA on the ballot and administering the San Francisco Bay Restoration Authority.

Speaker: **Amy Hutzal**, *Deputy Executive Officer, California State Coastal Conservancy*

11:40 am **DREDGE MATERIAL REUSE AND SEA LEVEL RISE – WHAT ARE OUR OPTIONS?**

Estimates of millions of tens of millions of cubic yards of material are needed to keep up with rising sea levels. Navigation dredging could provide a portion of the material needed; however, timing of dredging projects relative to that of shoreline resiliency projects, as well as incremental costs and regulatory requirements, provides challenges to developing a net environmental benefit approach. One possible key is a cost effective approach for temporary storage of clean dredged material. Speakers will address the need for this material, engineering solutions, and regulatory channels.

Moderator: **Bridgette DeShields**, *Principal, Integral Consulting*

Panelists: **Christopher Devick**, *Coastal Engineer & Project Manager, Arcadis*

Phil Trowbridge, *Program Manager, Regional Monitoring Program,
San Francisco Estuary Institute*

Naomi Feger, *Chief of Planning, San Francisco Bay Regional Water Quality
Control Board*

12:20 pm **CLOSING REMARKS**

John A. Coleman, *Chief Executive Officer, Bay Planning Coalition*

Thank you for joining us today.

*Please let Bay Planning Coalition staff know if there is anything we can do to improve your experience at the Dredging & Beneficial Reuse Workshop.
We hope to see you at another BPC event soon.*

SPEAKER BIOGRAPHIES



Scott Bodensteiner, Haley & Aldrich

Scott Bodensteiner is a Sediment and water Resources Specialist with 20 years of experience managing projects involving applied environmental sciences related to regulatory compliance and investigation for navigation and remediation dredging, wastewater discharges and habitat restoration and construction projects of varying size and complexity. Scott has expertise in designing and implementing water and sediment quality investigations, dredged material management planning, and dredge permitting with an emphasis on environmental toxicology, ecological risk assessment, biostatistics, sediment contaminants, TMDL support, and habitat restoration planning and

monitoring. Scott received a B.S. in Environmental Toxicology from U.C. Davis, and an M.S. from San Diego State in Environmental Health Sciences.



William (Bill) H. Butler, Lind Marine, Inc.

Bill Butler is an experienced building materials executive and resource developer with over 30 years of general and project management, permitting and entitlement experience. Bill is currently Vice President of Regulatory Affairs for Lind Marine Incorporated, a local family- and employee-owned marine services and materials company engaged in dredging, bulk materials barging and placement, sand and oyster shell mining, and other related marine services in San Francisco Bay. Prior to joining Lind Marine in 2012, Bill served as Vice President and General Manager of the San Francisco Bay Area region for Hanson Aggregates, part of the Lehigh Hanson and Heidelberg Cement Group, for over 12 years. In this role, Bill managed multiple

aggregate, readymix concrete, hot mix asphalt, dredging and distribution terminal operations with key market positions in the Bay Area.

Bill earned his Bachelor of Science degree in Mining Engineering from the Colorado School of Mines. He completed the Stanford Executive Leadership Course in 2000. Bill currently serves as Vice President of the Bay Planning Coalition, and is active on the Executive Committee, the Dredging and Beneficial Reuse Committee, and the Marinas and Boatyards Committee. Bill received Bay Planning Coalition's Member of the Year award in 2004. Bill is a past Chairman of the Construction Materials Association of California, and he also sits on the Port of San Francisco's Maritime Commerce Advisory Council.

Bill currently resides in Petaluma, CA with his wife Gail, where he enjoys music (listening and performing), hiking and wine tasting.



Steve Carroll, Ducks Unlimited

Steve Carroll is the supervising engineer for Ducks Unlimited's projects in the San Francisco Bay Area and coastal California. He was fundamental in the growth of the program and founded and supervises the Bay Area office and engineering services. He has over 20 years of engineering and restoration experience within the environmental field and has been directly responsible for the engineering design and construction of over 40,000 acres of seasonal and tidal wetland restoration and enhancement projects totaling \$60 million in project funding agreements. Complementary to his restoration experience, Steve has designed and implemented fisheries projects including fish screens and ladders, has extensive experience with marine construction and the delivery of tidal restorations in shallow water environments, and with the design and

implementation of ADA public use facilities. He has a strong project and construction management background, and has successfully delivered numerous wetland restoration projects of varying scope, size and complexity. Steve has also been the lead on the majority of Ducks Unlimited's dredging and beneficial reuse projects.



Steven Chappell, Suisun Resource Conservation District

Steven Chappell has worked in the Suisun Marsh for over 20 years assisting private landowner in wetland habitat management, wetland enhancement and protection. As the Executive Director of SRCD he oversees daily duties of the District including grant administration, coordination with local landowners, Agencies, and stakeholder groups, and the implementation of monitoring and scientific studies. Mr. Chappell has participated in numerous Suisun Marsh planning and regulatory programs including annual U.S. Army Corp's of Engineers wetland permitting activities, the Baylands Ecosystem Goals Project

and the 2015 update for Climate Change, the Suisun Ecological Workshop, Suisun Marsh Environmental Coordination Advisory Team, and Delta Vision Process, and currently serves as a liaison advisor to the Delta Conservancy. Mr. Chappell was a negotiator of the Suisun Marsh Preservation Agreement and was Agency Principal in preparation of the 30 year Suisun Marsh Management, Preservation, and Restoration Plan (PEIR/EIS). Mr. Chappell can be reached at 707-425-9302 or schappell@suisunrcd.org.



Tony Chu, Port of Oakland

Tony Chu is currently a Port Associate Engineer at the Port of Oakland and has been an Engineer with the Port since 1999 and has been involved with dredging for most of that time. Additionally, he has experience in managing terminal redesigns, wharf upgrades, and pavement management on behalf of the Port. Tony graduated from UC Berkeley and has lived in the Bay Area since 1994. He currently lives in San Ramon with his wife and two children.



John A. Coleman, Bay Planning Coalition

John Coleman is the Chief Executive Officer of the Bay Planning Coalition, a non-profit, public benefit, membership corporation, to advocate for the balanced regulation and use of Bay-Delta resources to ensure that commerce, recreation and the environment thrive in the region. The Coalition's 175 members represent a broad spectrum of public and private Bay-Delta entities, including ports, maritime and shoreline industry, labor unions, local government, residential and commercial builders, recreational users and engineering, planning, environmental science, construction and legal professionals.

Coleman was elected in 1990 and since re-elected to the Board of Directors of the East Bay Municipal Utility District (EBMUD). Coleman was elected to serve as the President of the Association of California Water Agencies (ACWA) in December 2013. Coleman currently serves in the following capacities: Board Member of the Marine Exchange of the San Francisco Bay Region; member of the Freeport Regional Water Authority (FRWA); Chair of the Upper Mokelumne River Watershed Authority (UMRWA); Board Member of the East Bay Leadership Council; member of the San Francisco Bay Restoration Authority Advisory Committee; member of the East Bay Economic Development Alliance Legislative Committee, and Board Member of DERWA, the joint powers authority for recycled water service provided by EBMUD and the Dublin-San Ramon Services District.

**Megan Collins, AECOM**

Megan Collins is a coastal and water resources engineer based in the Oakland AECOM office. She has 10 years' experience in the field of civil and environmental engineering with a focus in marsh restoration design, dredging design and construction, beneficial reuse of dredged material, dam removal, river and inter-tidal system hydrodynamic modeling, environmental permitting, and industrial stormwater treatment. Current projects include the South Bay Salt Pond Restoration Project at the Southern Eden Landing Ponds and the Searsville Dam & Reservoir Alternatives Study in Santa Clara County. Mrs. Collins obtained her MS and BS in Civil and Environmental Engineering from Stanford University, with a focus in environmental fluid mechanics and hydrology. She has also earned a coastal engineering certificate from Old Dominion University.

**Mark D'Avignon, U.S. Army Corps of Engineers**

Mark D'Avignon is a fisheries biologist working in the Corps Dredged Material Management Office (DMMO). He has been with the Corps for 27 years and the federal government for 30 years. Mark graduated from the University of Massachusetts in 1982 and served in the US Coast Guard from 1983 – 1987. He joined the DMMO in 2009 and before that was a senior project manager in the Corps Regulatory Division and a Supervisor for 5 years before accepting a voluntary downgrade to join the DMMO as a non-supervisory project manager.

**Bridgette DeShields, Integral Consulting, Inc.**

Bridgette DeShields, a Principal Scientist with Integral Consulting Inc., has over 30 years of experience and is a specialist in regulatory strategy, site investigation, risk assessment, site remediation, sediment and water quality management, and environmental toxicology. Her work has been focused on sediment assessments and waterfront projects with natural resource components and complex regulatory frameworks. She also has technical expertise in the area of bioaccumulation and bioavailability and has managed dredging programs in the Bay Area and on the west coast, for maintenance, new construction, and remediation projects. Ms. DeShields serves as chair of the Regional Monitoring Program (RMP) Technical Review Committee.

**Christopher Devick, Arcadis**

Christopher Devick is a Coastal Engineer and Project Manager for Arcadis who has spent the past 10 years working on a variety of Civil and Coastal Engineering projects in the San Francisco Bay Area. He received his Bachelor of Science in Civil Engineering from Northeastern University and his Masters of Science in Coastal and Oceanographic Engineering from the University of Florida. He is a licensed California Professional Engineer. His work has included analysis and design of shore protection, wetland and beach restoration, wave attenuation, marina, and flood protection projects. Chris is presently serving as the lead coastal engineer for the Port of San Francisco Seawall Resiliency Project as a part of the CH2M/Arcadis team and is a part of the Public Sediment Team for the Resilient by Design Bay Area Challenge.



Naomi Feger, San Francisco Bay Regional Water Quality Control Board

Naomi Feger is an Environmental Program Manager with the Regional Board and serves as the Chief of the Planning Division, overseeing Policy development that informs the San Francisco Bay Region Water Quality Control Plan. She also oversees Bay Dredging, Total Maximum Daily Loads (TMDLS), Non-point Source, and the Region's Surface Water Ambient Water Quality Monitoring Programs. She has been actively engaged in developing climate change and nutrients regulatory policies for the San Francisco Baylands and has worked on a number of projects involving Bay tidal marsh and wetland restoration, e.g., Former Hamilton Army Airfield and South Bay Salt Ponds.



Jaclyn Gnusti, Anchor QEA, LLC

Jaclyn Gnusti is a civil engineer with Anchor QEA, LLC, in San Francisco. For the past 18 years, she has specialized in the planning, design, cost estimating, contracting, and construction support of dredging and beneficial reuse projects. Her work has spanned the Gulf Coast, New York, British Columbia, and Africa; however, her core dredging focus has been the dynamic and complicated environment of the greater San Francisco Bay Area. Her regional project experience ranges from deep-water ship channels to small, shallow-water marinas and docks. In her role as the chair of the Dredging and Beneficial Reuse Committee, her focus has been to develop and support regional initiatives that balance both environmental and economic responsibility.



Brenda Goeden, San Francisco Bay Conservation and Development Commission

Brenda Goeden is the Sediment Program Manager for the San Francisco Bay Conservation and Development Commission. She supervises the day-to-day sediment related projects and operations in the Bay, while implementing the Long Term Management Strategy for the Placement of Dredged Material in the San Francisco Bay Region (LTMS) as BCDC's Program Manager and a member of the Dredged Material Management Office (DMMO), oversees the aggregate mining activities. She and the

BCDC Sediment Management Team have recently worked in partnership with SFEI, SFEP and the SF Bay Joint Venture on Flood Control 2.0, a multi-benefit approach to flood protection. She is the BCDC manager for large scale wetland restoration projects, including Hamilton, Bair Island, Montezuma, and the South Bay Salt Ponds, and works to maximize beneficial reuse of sediment in these projects whenever feasible, supporting rapid marsh vegetation development. She has twelve years of experience developing and facilitating California marine conservation programs, as well as teaching marine education. Her degree is a Bachelor of Arts in marine biology from Occidental College. She participates in the Great Farallones National Marine Sanctuary Beach Watch Program and Oil Spill Response Team. She joined BCDC's staff in 2000 as a member of the sediment management team and served as BCDC's Bay-Delta Program Analyst from 2000 until 2006 when she was promoted to her current position as Sediment Program Manager.

**Josh Gravenmier, Arcadis**

Josh Gravenmier is a Vice President / Principal Scientist / Technical Expert with Arcadis in Concord, California. Mr. Gravenmier has more than 27 years of experience specializing in large, complex, multi-stakeholder sediment and water quality investigations, dredging programs, beneficial reuse of dredged material, wildlife and natural resources management programs, environmental planning/permitting/compliance, ecological risk assessments, bioassay and toxicity studies, and emergency response. He is an aquatic toxicologist and risk assessor with extensive experience designing, implementing, managing, permitting, and interpreting extensive sediment evaluations as well as providing environmental compliance during sediment construction management and restoration. Mr. Gravenmier also serves as a Manager for the Arcadis' Emergency

Response and Recovery Service Team and he has been an active member of the Bay Planning Coalition for many years, currently serving on the Board of Directors as an Executive Board Member and on the Dredging and Beneficial Reuse Committee. Josh received his undergraduate degree in Soil & Water Science from U.C. Davis and his masters in Environmental Management from the University of San Francisco.

**Amy Hutzel, California State Coastal Conservancy**

Amy Hutzel is a Deputy Executive Officer at the Coastal Conservancy, which works to protect open space, increase public access and recreation, and restore wildlife habitats along the Coast and in the Bay Area. She worked in the San Francisco Bay Area Program of the State Coastal Conservancy for 15 years, on such projects as the Hamilton Restoration, Napa River Salt Marsh and the South Bay Salt Ponds. She is the current chair of the San Francisco Estuary Partnership and the Bay Area Ecosystems Climate Change Consortium. She has a bachelor degree in urban and

environmental planning from the University of Virginia. She worked as an educator at the San Francisco Bay National Wildlife Refuge, Kilauea Point National Wildlife Refuge, and Save The Bay prior to joining the Coastal Conservancy.

**Jim Levine, Montezuma Wetlands**

Jim Levine is a Bay Area entrepreneur with a UC Berkeley graduate degree in environmental engineering. For four years, during and after graduate school, Jim was a proud member of the staff of the RWQCB in Oakland, working there on emergency response, site cleanup, and treatment plant field operations and recovery.

Jim then went on to co-found the Levine*Fricke group of companies, of which the US-wide environmental consulting and contracting firm was sold in 1998. Levine*Fricke successfully remediated California's first Superfund site, worked on over 2,500 projects and worked with the US Army and Navy to pioneer technologies to stabilize nuclear materials.

Twenty years ago, Levine began the Montezuma Wetlands restoration project, helping to pioneer the use of dredged sediment to accelerate the restoration of tidal wetlands and other habitat, influencing federal policy on dredging, wetlands and funding around the country. Montezuma has since received close to 7 million cubic yards of sediment while readying the first 500-acres of wetlands for full restoration.

For four years, Jim served as the Legislature's appointed Commissioner to the SF Bay Conservation and Development Commission, served as a Trustee for the Oakland Children's Hospital, a board member for organizations helping at-risk youth, a long-time trustee for Ecole Bilingue of Berkeley, and was a long-time advisory board member for UC Berkeley's College of Engineering. Jim is currently a member of the Bay Area

Council Executive Committee and co-chair of the Council's Water Committee. He has also served as a long-time Board member for the Bay Planning Coalition.

Jim has also worked as an owner, developer, consultant and mediator on real estate projects over the past fifteen years.



Justin Semion, WRA, Inc.

Justin Semion received his undergraduate training at the University of Michigan School of Natural Resources and Environment (1998) and completed his graduate work at the Presidio Graduate School, completing a MBA in Sustainable Management in 2014. This background provides a unique set of skills and perspective combining environmental science with business management skills focused on integrating the needs of the environment and society into the decisions of private and public organizations. Justin has worked at WRA since 2001 and during his time he has managed hundreds of diverse projects involving the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA), permitting, restoration and habitat management, habitat mitigation planning and monitoring, and essential fish habitat evaluation. His broad environmental science expertise includes eelgrass and subtidal estuarine habitats, wetland delineation, ecosystem functions and services evaluation, stream and riparian habitat assessments, rare and endangered species surveys and evaluations, wildlife corridor evaluation, vegetation ecology, and fisheries ecology.

Justin's experience with environmental permitting includes Bay Conservation and Development Commission (BCDC) permits, Corps of Engineers Clean Water Act Section 404 permits, Endangered Species Act Section 7 and Essential Fish Habitat consultations, Regional Water Quality Control Board (RWQCB) Water Quality Certifications, California Department of Fish and Wildlife (CDFW) Streambed Alteration Agreements, and San Francisco Bay Dredge Material Management Office (DMMO) permits, as well as implementing permit compliance, mitigation and monitoring requirements of these permits.

Jim Starr, California Department of Fish and Wildlife, Bay Delta Region

Jim Starr has worked with the California Department of Fish and Wildlife for the past 27 years and currently oversees the eastern portion of the Bay Delta Region's Habitat Conservation Program with responsibility for managing three programs. These programs are the Delta Levees Program, Fish Restoration Program, and the Delta Habitat Conservation Program. Jim's area of responsibility is the Sacramento-San Joaquin Delta, the Suisun Marsh, Contra Costa County, and the waterway from the City of Sacramento to the Carquinez Bridge.



Phil Trowbridge, San Francisco Estuary Institute

Phil Trowbridge is the Program Manager for the Regional Monitoring Program for Water Quality in San Francisco Bay. The Bay RMP (www.sfei.org/rmp) is a novel, multi-faceted regional monitoring program that uses pooled resources from dischargers and dredgers of San Francisco Bay to conduct and coordinate studies aimed at evaluating ecosystem health, characterizing sources and fate of contaminants, and informing potential management actions. Phil is responsible for managing RMP staff, budgets, and deliverables; facilitating discussion of technical issues; designing studies; and presenting results to stakeholders and technical collaborators. Phil received his Bachelor of Science in Geology from the University of Washington and his Masters Degree in Civil and Environmental Engineering from the Massachusetts Institute of Technology. He is a licensed Professional Engineer

Thank you to Anchor QEA for its special sponsorship of the Dredging & Beneficial Reuse Workshop.



The 2017 Dredging and Beneficial Reuse Workshop is also generously supported by the following sponsors.

PRESIDENT'S CLUB



Thank you for attending BPC's Dredging & Beneficial Reuse Workshop