

Meeting of the DDW Advisory Committee to the Expert Panel on DPR
November 10, 2014 ♦ San Jose, California

Update and Review of Activities of the DDW Expert Panel for Direct Potable Reuse



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NWRI | *National
Water
Research
Institute*

Presentation Overview

- NWRI Expert Panel on DPR
- Third Panel Meeting and Deliverables
- Panel Comments on DPR
- Future Panel Meetings

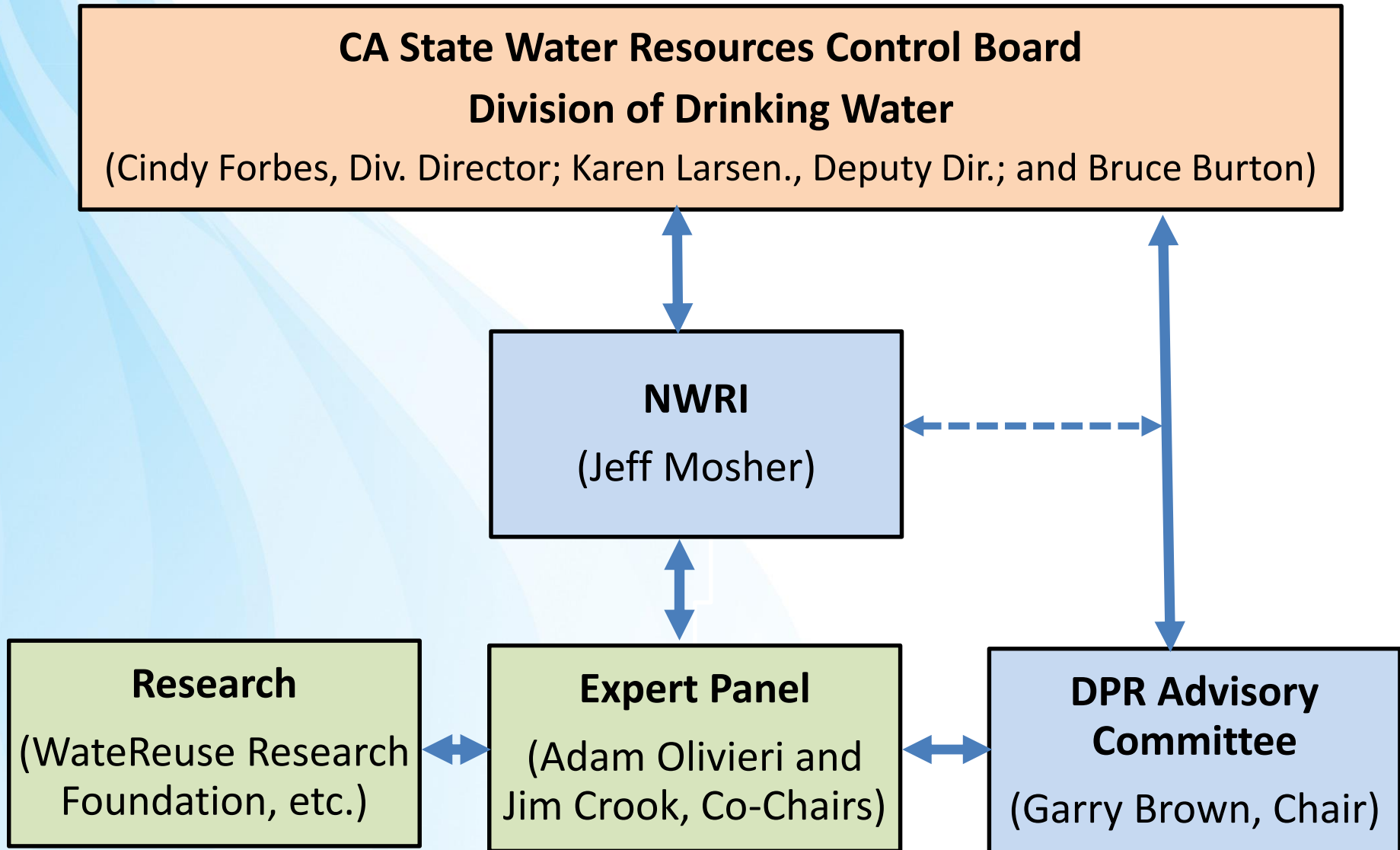




Expert Panel Tasks

1. Assess what, if any, additional areas of research are needed for establishing criteria for DPR.
2. Advise DDW on public health issues and scientific and technical matters regarding the development of surface water augmentation (IPR) criteria.
3. Advise DDW on public health issues and scientific and technical matters regarding the feasibility of developing criteria for DPR.

SWRCB Expert Panel Organization



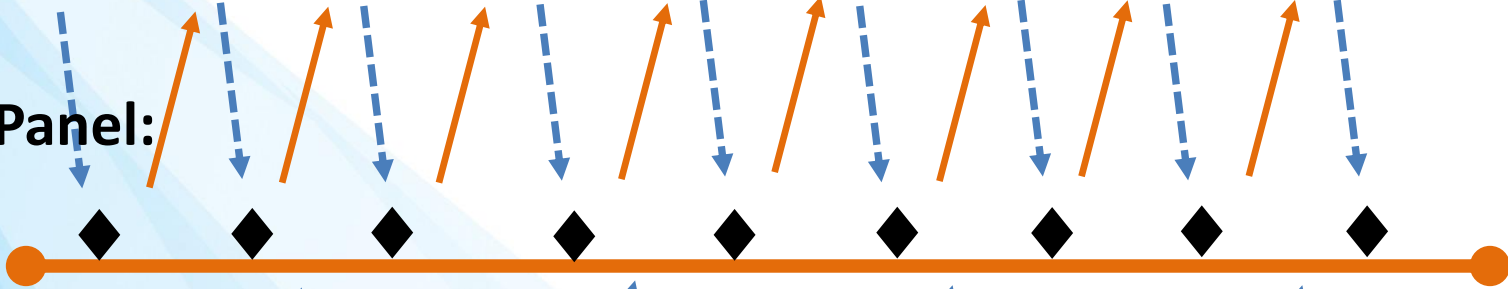
DPR Timeline

◆ = Meeting
▶ = Deadline

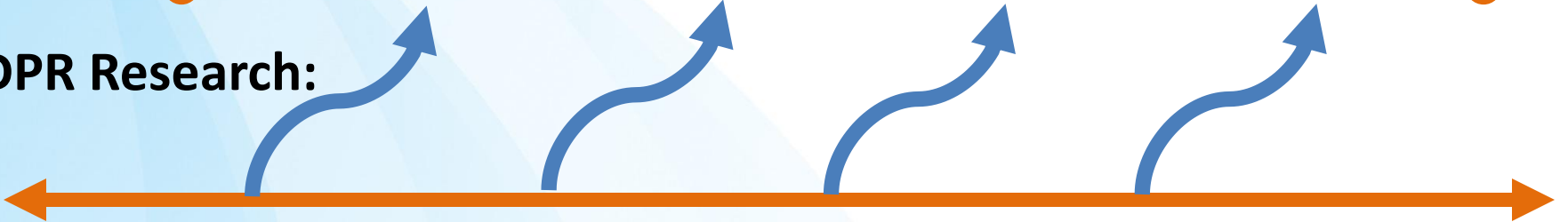
Advisory Panel:



Expert Panel:



DPR Research:



Legislated Dates:

Draft Expert Panel DPR Report ▶

Final Report on DPR Feasibility ▶



Panel Members



Panel Members

- **Co-Chair: Adam Olivieri, Dr.P.H., P.E.,** EOA, Inc. (CA)
- **Co-Chair: James Crook, Ph.D., P.E.,** Environmental Engineering Consultant (MA)
- **Michael Anderson, Ph.D.,** University of California, Riverside (CA)
- **Richard Bull, Ph.D.,** MoBull Consulting (WA)
- **Dr.-Ing. Jörg Drewes,** Technische Universität München (Germany)
- **Charles Haas, Ph.D.,** Drexel University (PA)
- **Walter Jakubowski, M.S.,** WaltJay Consulting (WA)
- **Perry McCarty, Sc.D.,** Stanford University (CA)
- **Kara Nelson, Ph.D.,** University of California, Berkeley (CA)
- **Joan Rose, Ph.D.,** Michigan State University (MI)
- **David Sedlak, Ph.D.,** University of California, Berkeley (CA)
- **Tim Wade, Ph.D.,** U.S. Environmental Protection Agency (NC)

Expert Panel Meeting #3

- Meeting held on December 11-12, 2014, at City of San Diego North City Water Reclamation Plant
- All Panel members attended except Kara Nelson
- Focused on:
 1. Surface Water Augmentation (SWA) Criteria
 - Continue to review draft SWA criteria
 - Technical briefing on City of San Diego's SWA modeling efforts
 - Translate the modeling results to draft SWA criteria
 - Discuss with DDW the intent of the SWA criteria, including the reservoir criteria
 2. DPR
 - Review comments of the DDW DPR Advisory Committee
 - Receive an update on DPR Research Initiative efforts to date

Meeting #2 Deliverable

- Meeting #2 Report Finalized:
 - Focused on Surface Water Augmentation
- Submitted to DDW – February 2015



Meeting Deliverable #2

- Expert Panel responses to comments and questions made by the DDW Advisory Committee at Meeting #2 (July 11, 2014)
 - Table provided at today's meeting



Panel's Responses to Advisory Committee Questions - 1

Bio-Analytical Tool for Chemicals (Qs 1-7)

- The Panel will address these questions at a future meeting dedicated to water quality and monitoring

Public Outreach on DPR (Qs 7-11)

- These questions and comments are directed to WateReuse Research Foundation and Project 13-02

Panel's Responses to Advisory Committee Questions - 2

Interest by EPA and State Regulators (Q 12)

- The Panel agreed that these perspectives are important.

Public Health Surveillance (Q 13)

- The Expert Panel suggested a study on public health surveillance and WaterReuse has approved a project in this area

Panel's Responses to Advisory Committee Questions - 3

Response for DPR treatment lapses/failures (Q 14)

- The Panel agreed that this is a significant question and it will be addressed by the panel.

Timeline for current research (Q 15)

- Agreed.

Panel's Responses to Advisory Committee Questions - 4

Summary of Expert Panel questions (Q 16)

- The Panel agreed that developing a list of questions they are addressing would be a benefit for the Advisory Committee. A list will be developed.

Presentations by Research Investigators (Q 17)

- Agreed.

Future Panel Meetings

- March 11-12, 2015, in Richmond, California
 - Hosted by the San Francisco Estuary Institute
 - Meeting topics will include:
 - Review Draft DDW SWA Criteria
 - Update on Advisory Committee Activities
 - Update on DPR Research Activities
 - Review WaterReuse Association 'DPR Framework' project