

Meeting of the DDW Advisory Group to the Expert Panel on DPR
May 1, 2015 ♦ Sacramento, California

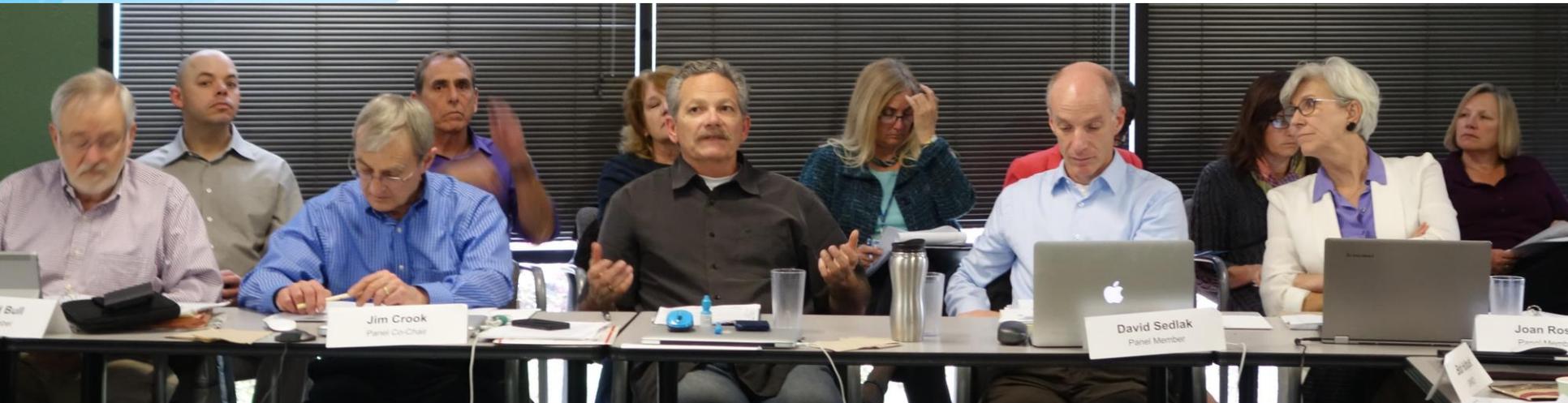
Update and Review of Activities of the DDW Expert Panel for Direct Potable Reuse

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Water
Research
Institute*

Presentation Overview

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

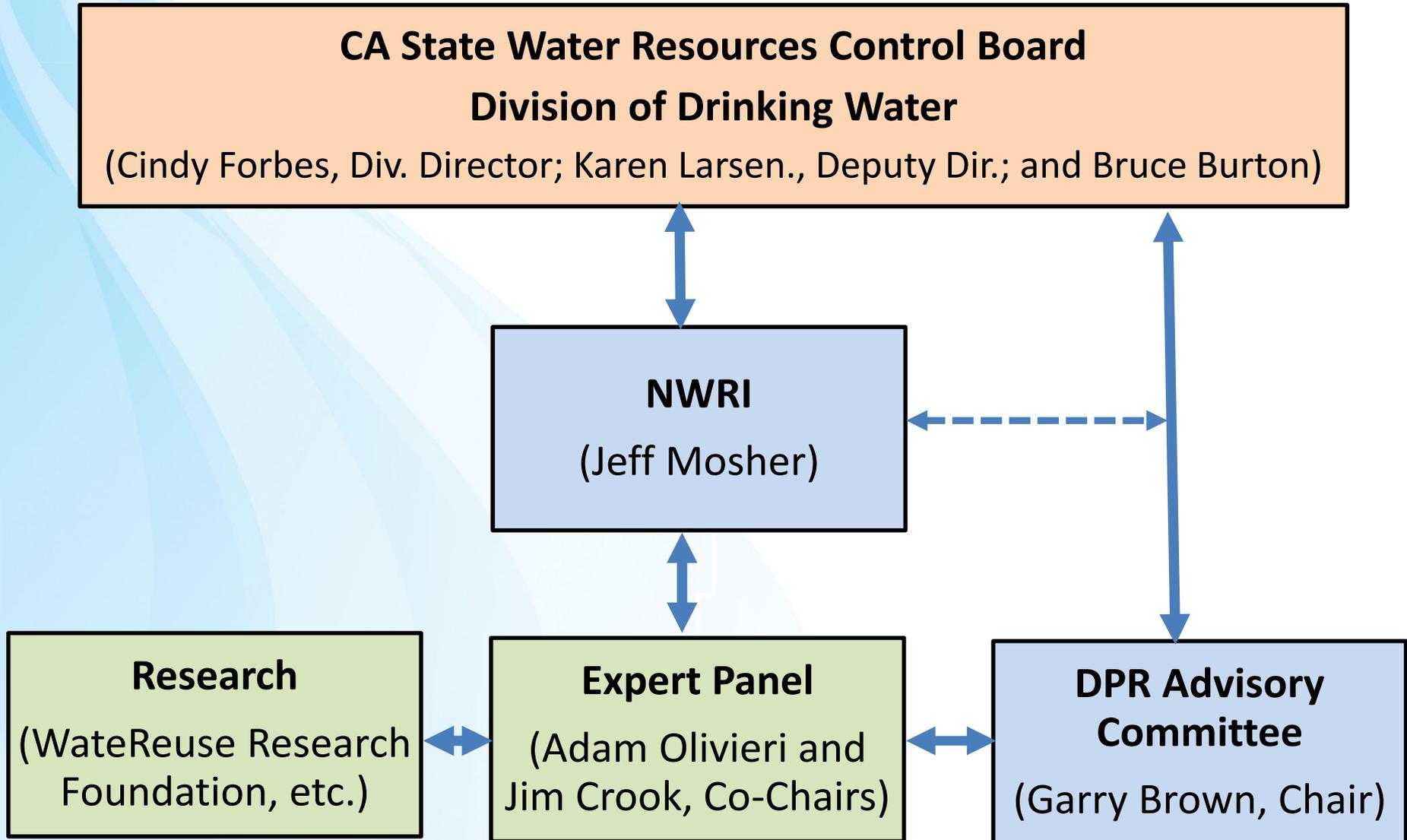




Expert Panel Tasks

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

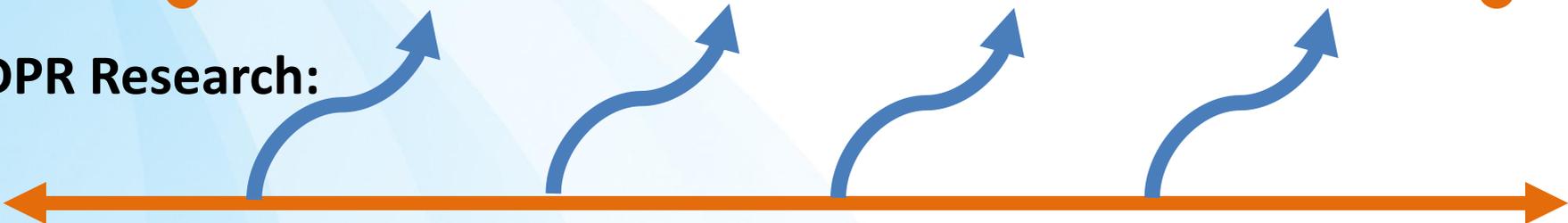
Advisory Panel:



Expert Panel:



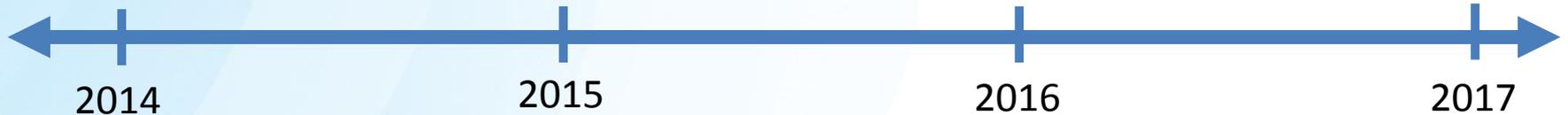
DPR Research:



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 #4

- Date: March 11-12, 2015
- Location: San Francisco Estuary Institute in Richmond, California



Expert Panel Meeting #4

Day 1 focused on:

- Finalizing Panel Report from Meeting #2 (June 2014)
- Completing the Draft Panel Report from Meeting #3 (Dec 2014)
 - Presentation by Dr. Michael Anderson, Panel Member
 - Timeline of the surface water augmentation criteria
 - Focused on reservoir criteria
 - Discussed worst-case scenario and how that fits into the State criteria

Expert Panel Meeting #4

Day 2 focused on DPR Research:

- Presentation by Dr. George Tchobanoglous on Developing of WRA DPR Framework
- Presentation by Marsi Steirer on DPR Advisory Subcommittee efforts on Terminology and Operator Certification



Expert Panel Meeting #4

Next Steps

- Finalize Reports from Meeting #2 (June 2014) and Meeting #3 (December 2014)
- Prepare and submit Report from Meeting #4 (March 2015)
- Request that DDW supply a polished SWA criteria regulatory text by May 13, 2015



Expert Panel Meeting #4 Deliverable

- Draft Report from Meeting #4
- Submitted to DDW on April 8



Future Panel Meetings

June 2-3, 2015, in Orange County

- Meeting topics will include:
 - Review Draft DDW SWA Criteria
 - Presentations on DPR Technologies
 - Discussion on Feasibility of Developing Criteria for DPR
 - Discussion and Outline for Report #5

Future Panel Meetings

September 23-24, 2015, in Berkeley

- Day 1: Symposium on DPR (open to the public; nominal fee to attend)
- Day 2: Closed session of Expert Panel

