Matching Water Quality to Use Overview (1st section)

- clarify that these are beneficial uses for water quality, that are different from beneficial uses for water rights
- expand the concept of in-stream use to cover biological use – instream protection of aquatic life, recreation, flows

Matching Water Quality to Use in California

- page 3, water quality exchange projects: should there be this much emphasis and discussion on CALFED? Will their goals go into the future? (check on current status – contact Leslie Estes, Oakland Watershed Program Supervisor)

Benefits of Matching Water Quality to Use

- page 4, no cost WQ exchange: Consider rewriting last paragraph before Costs section. Benefits only occur when percolating, direct injection is treated water – can't directly inject raw water.
- transaction costs include bureaucratic costs (negotiation costs); swapping place-of-use; institutional costs; also ties into salt management
- there are institutional hurdles for exchanges – exchange of groundwater out of basin requires a conveyance system to work

Major Issues Facing Matching Water Quality to Use

- page 5: Look at expanding the issue of *effluent dominated streams*. This is important issue – how does it match water quality to use? It is associated with a lot of recovery plans and links to the restoration RMS. Are there an energy costs (conveyance, treatment)?
- page 5**,** unusable water: This is the focus of the chapter, it is an important topic – needs a different title. There is some statutory language about using types of water that might be otherwise discharged (recycled water). There is existing language in statute about matching quality to use. Using lower quality water for industrial uses. Another example is lower quality water used in Southern California to prevent sea-water intrusion. Does that connect to groundwater strategies? Is there also reinjection for subsidence from petroleum extraction? [Suggestion: Perhaps in overview, discus that there is statutory guidance. There is another issue of guidance not being implemented.]
- how does ***recycled water*** connect here? In Salinas, recycled water is used to get people off of groundwater, not used for recharge.
- We don't really bring in climate change or current practices of directing recycled water (treatment, pumping). For example, in using recycled water as saline barrier – is that the best strategy, say compared to conservation? Want lower emission strategies.
- page 6, operations criteria: At “In the Delta…”– delete “only”. Perhaps consolidate paragraphs. The Delta plan has project management objectives. Might want to bring in some of the TMDLs driven by Central Valley basin plans, not operational considerations in Delta. The North Coast is doing temperature and flow studies.
- In the Water Boards’draft strategic plan, do water rights link to TMDLs?
- replace the term “THM” with “disinfection by-product”
- page 7, ecosystem restoration: say the CALFED program “has reviewed”

Recommendations for Matching Water Quality to Use

- When referring to other strategies, need to make sure they still have the supporting information. (They might have been revised and supporting information deleted.)
- Recommendation #2: Are these strategies being implemented?
- Recommendation #3, use of alternative water supplies in-lieu of permitted right: How does this help with the problem of over-allocated rights? This should have a regulatory fix, in-lieu alternatives may just complicate the situation. What's the goal? To have them forego rights that they've exercised in the past? Is this a mechanism for short-term fixes? Will it have long-term implications if we try to fix the over-allocated rights system? Might go to abandonment.
- Need two recommendations for #3: The first sentence is one recommendation; the remaining text is a separate recommendation.
- Recommendation #5: This needs to connect to issues; it is currently not supported by text.
- What about a recommendation to take into account energy and greenhouse component of exchanges?
- Similar to dry-water fixes. (Note: not sure of which recommendation this comment relates to)

Participants

Michael Buckman, State Water Board
Rebecca Kanegawa, MWH
Keith Kashi, City of Oakland
Melanie Powers, CABY
Rik Rasmussen, State Water Board
Keith Wallace, MWH
Lorraine White, Ca. Energy Commission
Betty Yee, Region 5 Water Board

<u>DWR and Facilitation Staff</u>
Kamyar Guivetchi, DWR
Lisa Beutler, CCP
Judie Talbot, CCP