

CALIFORNIA
COASTKEEPER[®]
ALLIANCE

Recycled Water Science Advisory Panel – CEC Monitoring

Sean Bothwell
Policy Director
California Coastkeeper Alliance



**Humboldt BAYKEEPER
Klamath RIVERKEEPER
Russian RIVERKEEPER
Yuba River WATERKEEPER
Monterey COASTKEEPER
Santa Barbara CHANNELKEEPER
Los Angeles WATERKEEPER
Orange County COASTKEEPER
Inland Empire WATERKEEPER
San Diego COASTKEEPER**



SWIMMABLE



FISHABLE



DRINKABLE



General Policies and Orders

- 2009 Recycled Water Policy
- 2013 Recycled Water Policy Amendment
- 2014 Emergency General Order
- 2016 Reclamation Order

Legislative Efforts

- 2010 SB 918 (Pavley) – Set the stage for the State Water Board to adopt groundwater replenishment regulations, surface water augmentation regulations, and a direct potable reuse feasibility report.
- 2013 SB 322 (Hueso) – Helped support SB 918 efforts and created a Public Advisory Group.
- 2016 AB 2022 (Gordon) – Allowed for sample bottling of potable reuse for outreach and education purposes.
- 2017 AB 574 (Quirk) – Would set a deadline for DPR regulations by 2023.

Importance of Robust CEC Monitoring

- To ensure public safety
- If California is going to be at the cutting-edge for water recycling, then we need cutting-edge CEC monitoring.
- We need to build public confidence.

Concerns with 2013 Amendment

- Limited set of monitoring constituents/proxies.
 - U.S. EPA List
 - CDPH Recommended Constituents
 - Regional Boards Discretion to Add Constituents
- Lack of “on-ramps” to increase monitoring constituents.
- Removal of clearly defined monitoring parameters.
- Focus only on human health.

New Recommendations

- Investigate the relative risk and potential health exposure to CECs— particularly cumulative CECs at low levels.
 - Research the possible need for treatment that would reduce cumulative exposures.
- How can source control and pretreatment programs reduce CEC exposure.
- Review bioassays and opine on their feasibility to evaluate the safety of recycled water in conjunction with conventional monitoring.

Conclusion



Sean Bothwell, sbothwell@cacoastkeeper.org