



**Linda S. Adams**  
Secretary for  
Environmental Protection

# State Water Resources Control Board

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## Division of Water Quality

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**Arnold Schwarzenegger**  
Governor

## NOTICE OF PUBLIC HEARING

### CONSTITUENTS OF EMERGING CONCERN (CEC) MONITORING FOR RECYCLED WATER

**NOTICE IS HEREBY GIVEN THAT** the State Water Resources Control Board (State Water Board) will hold a public hearing to accept comments on the recommendations for CEC monitoring for municipal recycled water used to recharge groundwater for indirect potable reuse and used for landscape irrigation as presented in the Staff Report. The Staff Report is based on the recommendations presented in the CEC Advisory Panel's report and by the California Department of Public Health. The Staff Report also presents recommendations for additional research on CEC monitoring. Although a quorum of the State Water Board may be present, the State Water Board will not take an action during the hearing. The location and time of the hearing are provided below.

**December 15, 2010 – 9:00 a.m.**  
**Joe Serna Jr./Cal/EPA Headquarters Building**  
**Coastal Hearing Room**  
**1001 I Street, 2nd Floor**  
**Sacramento, CA 95814**

### BACKGROUND

On February 3, 2009, the State Water Board adopted the Policy for Water Quality Control for Recycled Water (Recycled Water Policy) ([Resolution 2009-0011](#)). The Recycled Water Policy presents several provisions that mandate the monitoring of CECs in municipal recycled water. The Recycled Water Policy, however, recognized that the knowledge regarding CECs is incomplete and guidance would be needed to establish requirements for CEC monitoring. Therefore, the Recycled Water Policy also directed that the State Water Board, in consultation with the California Department of Public Health (CDPH), convene a "blue-ribbon" advisory panel to guide future actions relating to CECs in municipal recycled water.

In accordance with the provision of the Recycled Water Policy, the State Water Board contracted with the Southern California Coastal Water Research Project (SCCWRP) to convene an advisory panel on CECs in municipal recycled water. The CEC Advisory Panel was charged with reviewing the scientific literature regarding CECs in recycled water, describing the current state of scientific knowledge regarding the risks of CECs to public health and the environment, and providing recommendations on monitoring CECs for various water recycling practices, including groundwater recharge/reuse to augment groundwater via percolation or subsurface injection into a drinking water aquifer and

urban landscape irrigation. The CEC Advisory Panel's assignment was conducted in collaboration with the State Water Board and CDPH, with stakeholder input from a variety of public and private entities. On June 25, 2010, the CEC Advisory Panel submitted its final report, *Monitoring Strategies for Chemicals of Emerging Concern (CECs) in Recycled Water – Recommendations of a Scientific Advisory Panel* (Panel Report), to the State Water Board.

## **DOCUMENT AVAILABILITY**

The Staff Report presenting the recommendations for monitoring CECs in municipal recycled water used for indirect potable reuse and landscape irrigation is available to view or download on the State Water Board's website at:

[http://www.waterboards.ca.gov/water\\_issues/programs/water\\_recycling\\_policy/docs/cec111610/staffreport.pdf](http://www.waterboards.ca.gov/water_issues/programs/water_recycling_policy/docs/cec111610/staffreport.pdf)

The CEC Advisory Panel report, *Monitoring Strategies for Chemicals of Emerging Concern (CECs) in Recycled Water – Recommendations of a Scientific Advisory Panel*, is available to view and download on the State Water Board's website at:

[http://www.waterboards.ca.gov/water\\_issues/programs/water\\_recycling\\_policy/docs/cec\\_monitoring\\_rpt.pdf](http://www.waterboards.ca.gov/water_issues/programs/water_recycling_policy/docs/cec_monitoring_rpt.pdf)

The letter from CDPH providing its recommendations for monitoring is available at:

[http://www.waterboards.ca.gov/water\\_issues/programs/water\\_recycling\\_policy/docs/cec111610/cdphletter.pdf](http://www.waterboards.ca.gov/water_issues/programs/water_recycling_policy/docs/cec111610/cdphletter.pdf)

For information regarding future public notices or status on CEC monitoring for recycled water, please sign up for the "Recycled Water Policy/General Permit for Landscape Irrigation" electronic mailing list at the State Water Board's Lyris List website:

[http://www.waterboards.ca.gov/resources/email\\_subscriptions/swrcb\\_subscribe.shtml](http://www.waterboards.ca.gov/resources/email_subscriptions/swrcb_subscribe.shtml)

## **SUBMISSION OF WRITTEN COMMENTS**

The State Water Board is interested in receiving comments regarding all aspects of the recommendations for CEC monitoring for recycled water. Oral comments can be made during the public hearing. Written comments must be received by **12:00 noon on December 27, 2010**, and addressed to:

Jeanine Townsend, Clerk to the Board  
State Water Resources Control Board  
1001 I Street, 24th Floor  
Sacramento, CA 95814

Comment letters may be submitted to the Clerk of the Board via email at: [commentletters@waterboards.ca.gov](mailto:commentletters@waterboards.ca.gov) (if less than 15 megabytes in total size) or by fax at (916) 341-5620. Please indicate in the subject line: **“Comment Letter – CEC Monitoring for Recycled Water”**.

Couriers delivering comment letters must check in with lobby security personnel, who can contact Jeanine Townsend at (916) 341-5600.

## **PROCEDURAL MATTERS**

The hearing will be informal. There will be no sworn testimony or cross-examination of participants, but the State Water Board and its staff may ask clarifying questions. Participants are encouraged to submit written comments prior to the hearing. At the hearing, participants will be given an opportunity to summarize and supplement their written materials with oral presentations. To ensure a productive and efficient process in which all participants have an opportunity to participate, oral presentations may be time-limited. For other presentation recommendations, go to: [http://www.waterboards.ca.gov/board\\_info/meetings/board\\_presentations.shtml](http://www.waterboards.ca.gov/board_info/meetings/board_presentations.shtml) at the State Water Board’s website.

## **PARKING AND ACCESSIBILITY**

Joe Serna Jr./California Environmental Protection Agency Building (Cal/EPA), Sacramento.

A parking garage is located across from the Cal/EPA building with entrances on 10th and 11th Streets between “I” and “J” Streets. Metered parking spaces are also available in the vicinity of the building. For a map, refer to the State Water Board Web site: <http://www.calepa.ca.gov/EPAbldg/location.htm>.

Please note: All visitors to the Cal/EPA Building are required to sign in and receive a badge at the Visitor Services Center located inside the main entrance (10th Street entrance). Valid picture identification may be required due to the security level. Please allow up to 15 minutes for receiving clearance before proceeding to the Coastal Hearing Room on the 2nd floor.

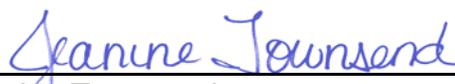
The Cal/EPA Building is accessible to persons with disabilities. Individuals who require special accommodations are requested to call (916) 341-5880 at least 5 working days prior to the meeting date. Persons with hearing or speech impairments can contact us by using the California Relay Service Telecommunications Device for the Deaf (TDD). TDD is reachable only from phones equipped with a TDD Device.

HEARING IMPAIRED RELAY SERVICE: TDD to voice 1 800-735-2929; voice to TDD 1-800-735-2922.

**ADDITIONAL INFORMATION**

Any further questions regarding this Notice should be directed to Gary Dickenson at, (916) 341-5585 or e-mail: [gdickenson@waterboards.ca.gov](mailto:gdickenson@waterboards.ca.gov).

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November 18, 2010  
Date

  
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Jeanine Townsend  
Clerk to the Board

# DRAFT

## STATE WATER RESOURCES CONTROL BOARD BOARD MEETING SESSION – DIVISION OF WATER QUALITY DECEMBER 15, 2010

### ITEM

#### SUBJECT

PUBLIC HEARING - CONSTITUENTS OF EMERGING CONCERN (CEC) MONITORING FOR RECYCLED WATER

#### DISCUSSION

The Recycled Water Policy ([Resolution 2009-0011](#)) adopted by the State Water Resources Control Board (State Water Board) on February 3, 2009 required the establishment of a panel of scientific experts to guide future actions relating to CECs. To implement the Recycled Water Policy, State Water Board Division of Water Quality (DWQ) staff contracted with the Southern California Coastal Research Water Project (SCCWRP) to recruit, form and support the CEC Advisory Panel. After consultation with the California Department of Public Health (CDPH), the CEC Advisory Panel was convened on May 4, 2009, pursuant to State Water Board direction. The panel consists of six scientific experts in the areas of human health toxicology, environmental toxicology, epidemiology, biochemistry, civil engineering with expertise in design and construction of recycled water treatment facilities, and chemistry with familiarity with laboratory methods for the detection of emerging constituents. The panel was tasked with addressing a number of questions posed in the Recycled Water Policy regarding appropriate monitoring of recycled water for CECs and related issues.

The draft report, *Monitoring Strategies for Chemicals of Emerging Concern (CECs) in Recycled Water – Recommendations of a Scientific Advisory Panel* was released for public comment on April 15, 2010. On May 21, 2010, the CEC Advisory Panel conducted a public meeting to respond to comments received from the public and revised the draft report.

On June 25, 2010, the CEC Advisory Panel submitted a final report, *Monitoring Strategies for Chemicals of Emerging Concern (CECs) in Recycled Water – Recommendations of a Scientific Advisory Panel* (Panel Report), to the State Water Board. The Report focused on establishing monitoring requirements for CECs in municipal recycled water used for groundwater recharge/reuse and landscape irrigation. The Panel Report is available at:

[http://www.waterboards.ca.gov/water\\_issues/programs/water\\_recycling\\_policy/docs/cec\\_monitoring\\_rpt.pdf](http://www.waterboards.ca.gov/water_issues/programs/water_recycling_policy/docs/cec_monitoring_rpt.pdf)

DWQ staff has reviewed the Panel Report and has prepared a [Staff Report](#) that provides recommendations for implementing the Panel Report. DWQ Staff is recommending implementing the recommendations of the CEC Advisory Panel for monitoring CECs. It is also recommending monitoring for certain additional CECs as recommended by the CDPH.

Finally, DWQ staff is recommending support for research on bioanalytical methods for use as screening tools to monitoring CECs. This was one of a number of research recommendations made by the CEC Advisory Panel. These methods would screen for potential toxicological effects such as genotoxicity and endocrine disruption.

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## **POLICY ISSUE**

N/A – Public Hearing only.

## **FISCAL IMPACT**

N/A – Public Hearing only.

## **REGIONAL BOARD IMPACT**

N/A – Public Hearing only.

## **STAFF RECOMMENDATIONS**

N/A – Public Hearing only.

State Water Board action on this item will assist the Water Boards in reaching Goals 2, 3 and 6 of the Strategic Plan Update: 2008-2012. Goal 2 is to improve and protect groundwater quality in high-use basins by 2030. Goal 3 is to promote sustainable local water supplies. Goal 6 is to enhance consistency across the Water Boards, on an ongoing basis.