



CEC Workshop Monitoring for Contaminants of Emerging Concern (CECs) in the Central Valley

Management Drivers and Questions

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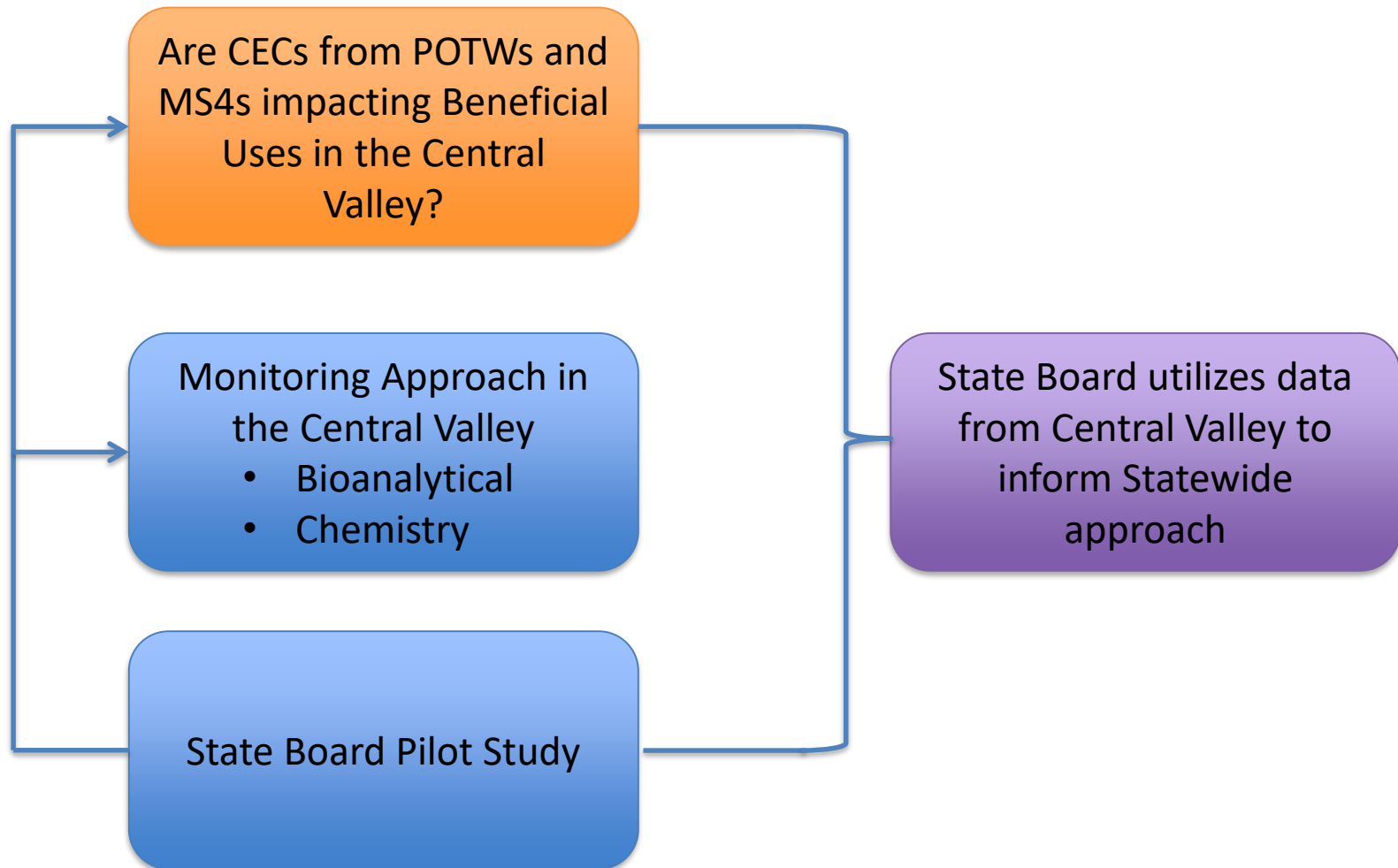
Management Drivers and Questions

Why are we here?

– Background

- Central Valley Regional Board interested in CEC monitoring for several years
- State Water Board leading statewide effort and requested Central Valley Regional Board to “wait”
- State Water Board form the Science Panel contracted with the Southern California Coastal Water Research Project (SCCWRP)
- The State Water Board Pilot Study was developed

Management Drivers and Questions



Why a Delta Workshop?

- The Delta is a high priority for the Central Valley Water Board
 - The Central Valley considers this as a starting point
 - Scenarios to be representative of the Central Valley region (i.e. effluent dominated, riverine, and integrator sites)
 - Looking for region-wide support
 - Cost effective
 - Consider limited resources

Central Valley Water Board's Workshop Goals

- Use what learned to set the stage
- Work collaboratively to provide feedback in consideration of the goals
- Determine if on right track to reasonably protect Beneficial Uses and determine if CECs from POTWs and MS4 are impacting Central Valley waters

Central Valley Water Board's Workshop Goals

- Gain knowledge to help inform the POTW and MS4 workplans to answer the following questions:
 - Are CECs from POTWs and MS4s impacting Central Valley waters
 - Are the workplans poised to begin answering the State Boards and Central Valley Water Board's questions
 - Are there better ways to gain the information
 - Phasing to consider resources
 - ambient → source → gradient
 - Other ideas?

Central Valley Water Board's Workshop Goals

- Are the draft POTW and MS4 workplans poised to answer State Board's monitoring questions?
 - POTW Questions
 1. Which CECs are detected in freshwaters and in which California watersheds are they detected?
 2. Can the CECs be shown to originate from the inland WWTP, or are they present at background concentrations?
 3. How quickly do the CECs attenuate once discharged?
 4. What are the concentrations and loadings of target CECs in the dry vs. wet seasons?
 5. Do the new occurrence data change the estimated monitoring trigger quotients?
 6. Which detected CECs have been found to accumulate in sediments and fish tissue?

Central Valley Water Board's Workshop Goals

- Are the draft POTW and MS4 workplans poised to answer State Board's monitoring questions?
 - MS4 Questions
 1. Which CECs are detected in waterways dominated by stormwater?
 2. What are their concentrations and loadings in the dry vs. wet seasons?
 3. What is the relative contribution of CECs in WWTP effluent vs. stormwater?
 4. What is the spatial and temporal variability in loadings and concentration (e.g. storm variability during the wet season; in stream attenuation rate during low flow, dry season conditions)?

Next Steps

– After workshop

- Debrief with State Board and Regional Board management
- Debrief with POTW and MS4 representatives
- Work with State Board/POTWs/MS4s to finalize workplans
- Start implementing workplans late 2017/early 2018

How does the Delta RMP fit?

- Existing structure
 - Steering committee
- High-level questions of project are similar
 - Status/trends
 - Beneficial Use protection
- Capitalize from the lessons learned from the work of the Bay RMP
 - Not looking to re-invent the wheel
- ❖ Effort to be funded by POTWs and MS4. While some Delta RMP funds may be available the effort cannot impact or take away from other RMP efforts.

Delta RMP CEC Monitoring Connections

Leverage Existing Resources-Process

- Governance structure stakeholder driven
- Planning for monitoring
- Ambient data already being collected
- Mercury fish tissue
- Locations
- QA/QC
- Communications and data analysis

Delta RMP Workshop Goals

Using lessons learned from Bay RMP and State to focus on priorities in monitoring design

Using lessons learned and feedback by interested parties and stakeholders finalize year one of pilot monitoring in the Delta to help with Central Valley wide monitoring

Questions

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