

Overview of Water Recycling in California California Department of Public Health

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Drinking Water

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September 19, 2008

California Dept of Public Health

Division of Drinking Water and Environmental Management

- Our primary role is the regulation of Public Water Systems
- Recycled water is another important role
- Field Operations Branch (North & South)
 - 22 District field offices statewide
- Technical Programs Branch
 - Recycled Water Unit

California Department of Public Health

- Sets standards for wastewater reuse to protect public health
 - “Water Recycling Criteria” in Title 22 of California Code of Regulations
- These regulations specify treatment and use requirements for various recycled water uses
 - Landscape Irrigation
 - Agricultural Irrigation
 - Cooling towers & other industrial uses
 - Dual plumbed (toilet flushing & residential)

CDPH – SWRCB - RWQCB

- Due to the potential for confusion and duplication of effort between CDPH and RWQCBs, CDPH and SWRCB signed a Memorandum of Agreement (MOA) in 1996
- MOA delineates responsibilities of each agency in review and approval of RW projects
- Submission of engineering report to RWQCB is considered a “request” for CDPH review
- CDPH requirements for permit approval are to be incorporated in RWQCB permit
- CDPH will meet with RWQCB staff and attend RWQCB hearings as necessary to explain any CDPH requirements or recommendations

CDPH DDWEM - Drinking Water Program

- Reviews recycled water proposals for compliance with Title 22 Criteria
- Collects fees from project applicants for CDPH reviews
- Provides requirements and recommendations to RWQCB for recycled water permits
- Coordinates with other agencies
- Interfaces with recycled water industry
- Develops guidance and training materials for CDPH staff
- Reviews new and emerging technologies

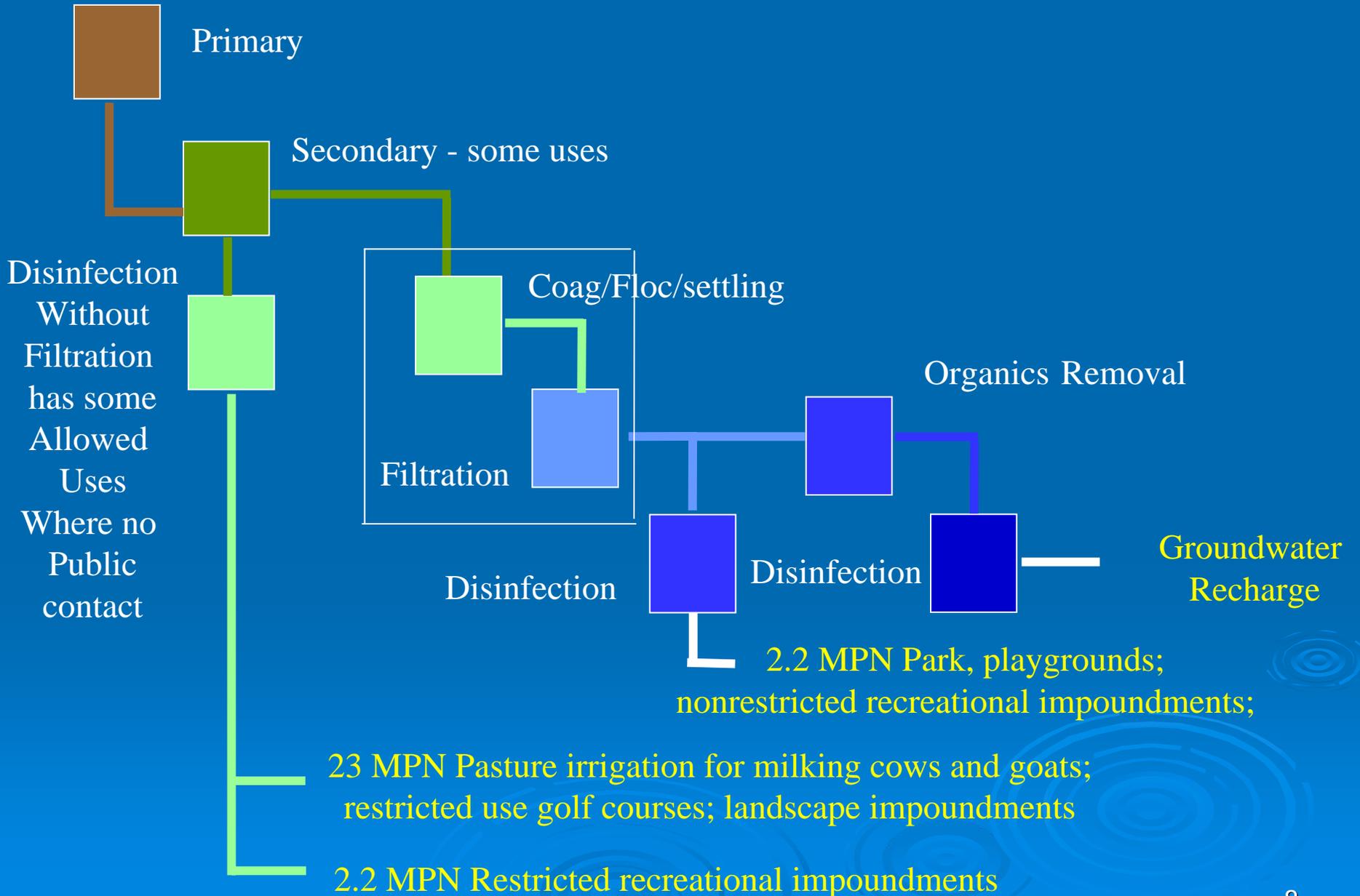
Drinking Water Program

- Field Operations Branch
 - 22 field offices from San Diego to Redding
 - 22 District Engineers that will work with the local RWQCB
- Technical operations Branch
 - Recycled Water Unit to provide technical assistance and review new technologies

Is it a Recycled Water Project?

- “Recycled water”--water which, as a result of treatment of *waste*, is suitable for a *direct beneficial use* or a controlled use that would not otherwise occur....
- Direct Beneficial Use - The use of recycled water which has been transported from the point of production to the point of use without an intervening discharge to waters of the state....
- CDPH has adopted regulatory requirements for recycled water that is from municipal wastewater (domestic sewage) only.

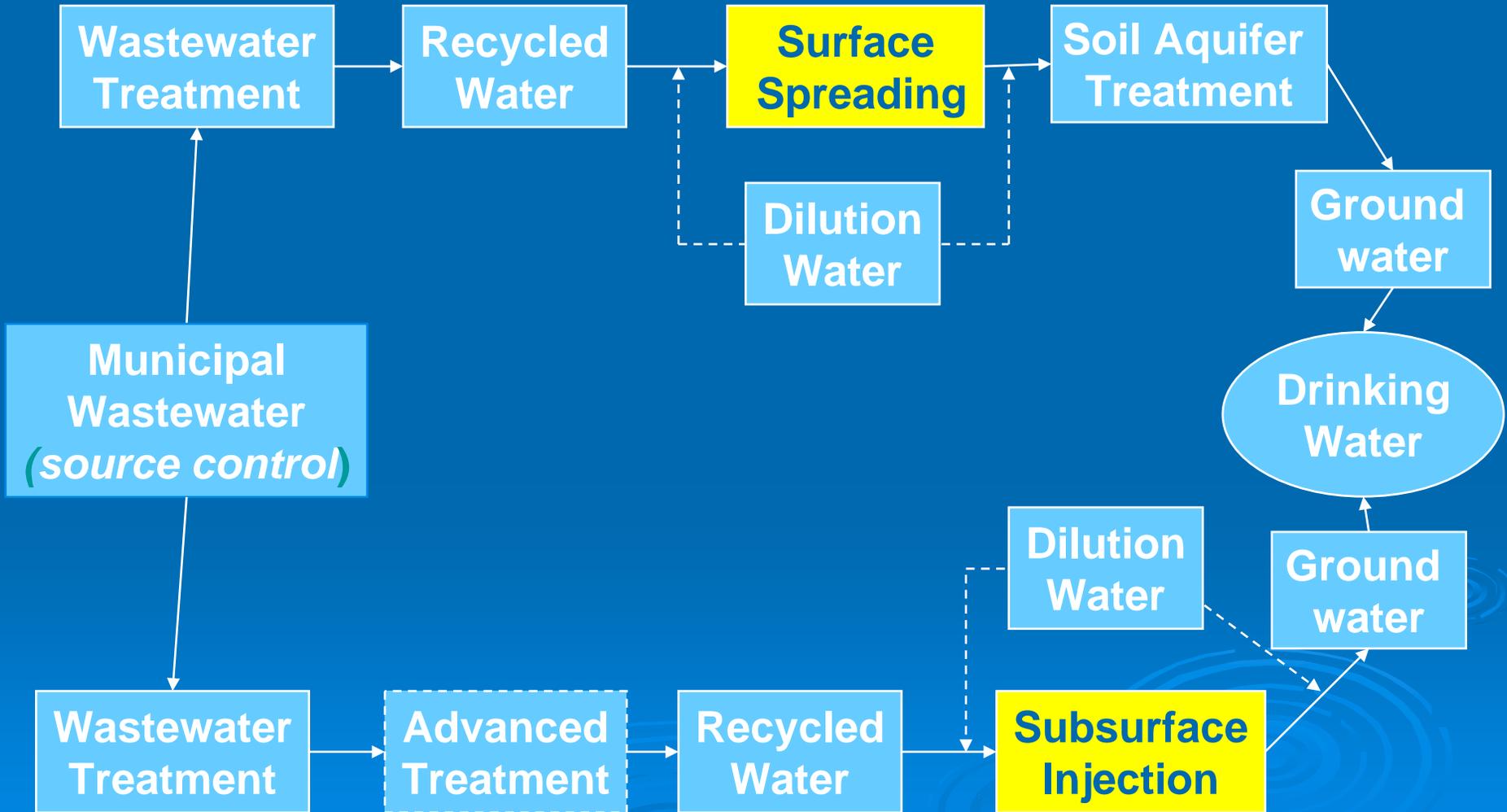
Source Control



Groundwater Recharge with Recycled Water

- For indirect potable reuse ONLY
- CDPH draft regulations address:
 - Wastewater source control programs
 - Treatment processes
 - Water quality
 - Dilution (% Recycled Water)
 - Recharge methods
 - Operational controls
 - Residence time underground
 - Travel distance to extraction
 - Contingencies
 - Monitoring wells
 - Engineering report

Wastewater to Drinking Water through Groundwater Recharge



ADDITIONAL INFORMATION

➤ CDPH Recycled Water website:

➤ http://www.cdph.ca.gov/HealthInfo/environhealth/waterB/Pages/Water_recycling.aspx

➤ CDPH Recycled Water staff

- Jeff Stone, RW Specialist
 - Jeffrey.stone@cdph.ca.gov
- Brian Bernados, RW and Treatment Technology Specialist
 - Brian.bernados@cdph.ca.gov
- Or your local CDPH district office