



**Pure Water Monterey**  
A Groundwater Replenishment Project

# **PURE WATER MONTEREY UPDATE**

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**GENERAL MANAGER**



# Agenda

- Why Pure Water Monterey?
- Project Overview
  - Recent Developments
- Safety
- Partnerships
- Rate Increase for MRWPCA



# Why Pure Water Monterey?

Pure Water Monterey is a:

- **multi-benefit,**
- **multi-region,**
- **multi-agency**



project that will provide purified, high quality, drinking water for the Monterey Peninsula and additional irrigation water for the Salinas Valley.



# PURE WATER MONTEREY

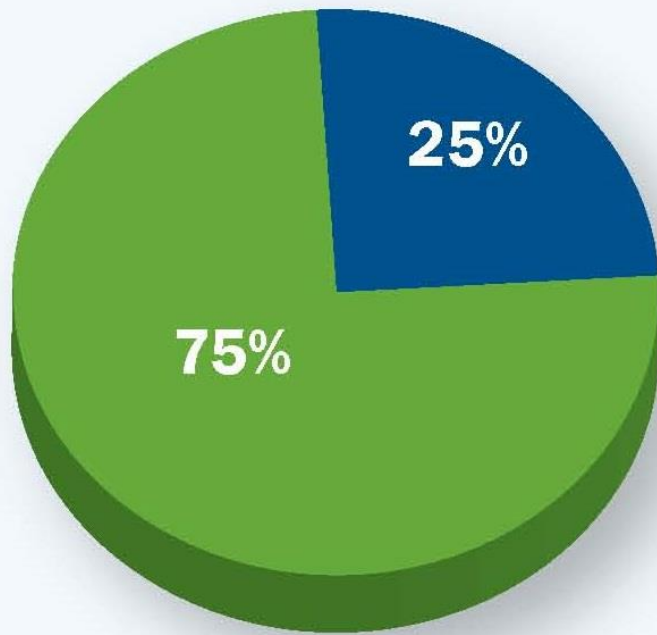
## PRIMARY OBJECTIVE

- **SWRCB Cease and Desist Order (WR 2009-0060)**
  - Requires new water supply by end of 2021
- Pure Water Monterey can reduce CalAm's Carmel River diversions by 3,500 AFY; thereby *Restoring Carmel River Habitat*
- AND can be implemented sooner than other proposals (i.e., desalination)



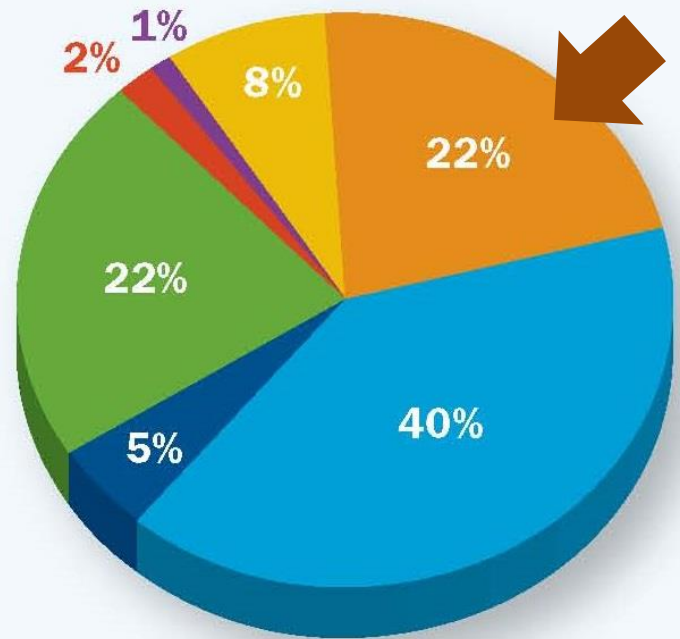
# Water Supply Diversification i.e Risk Cup

## Traditional Sources



- Seaside Basin
- Carmel River

## Future Sources



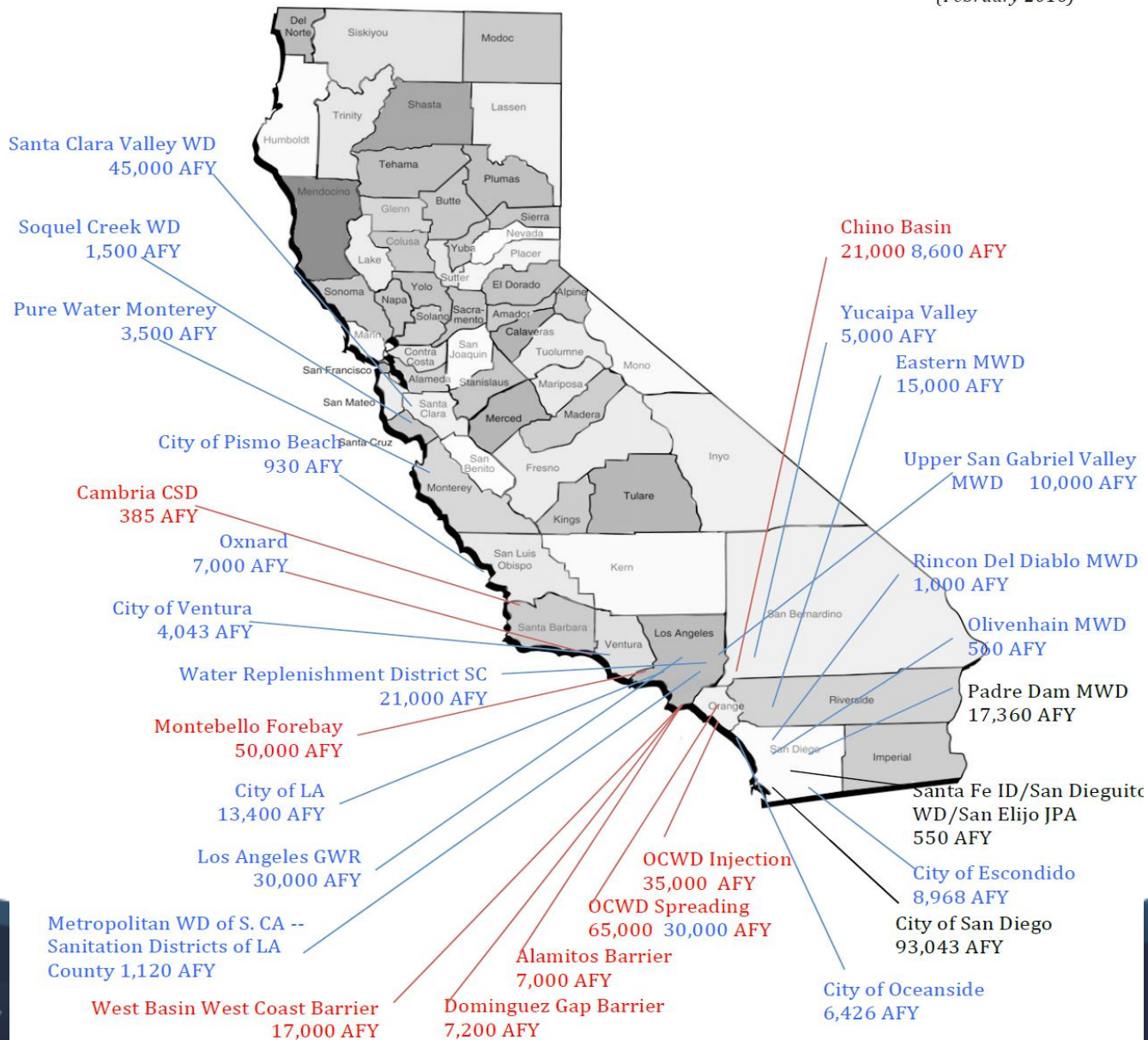
- Groundwater Replenishment
- Sand City
- Desalination
- Pacific Grove
- Seaside Basin
- Aquifer Storage Recovery
- Carmel River

Red = Permitted groundwater—202,585 AFY

Blue = Planned groundwater -- 215,447 AFY

Black = Planned surface water augmentation— 110, 910 AFY

(February 2016)



# Recent Developments

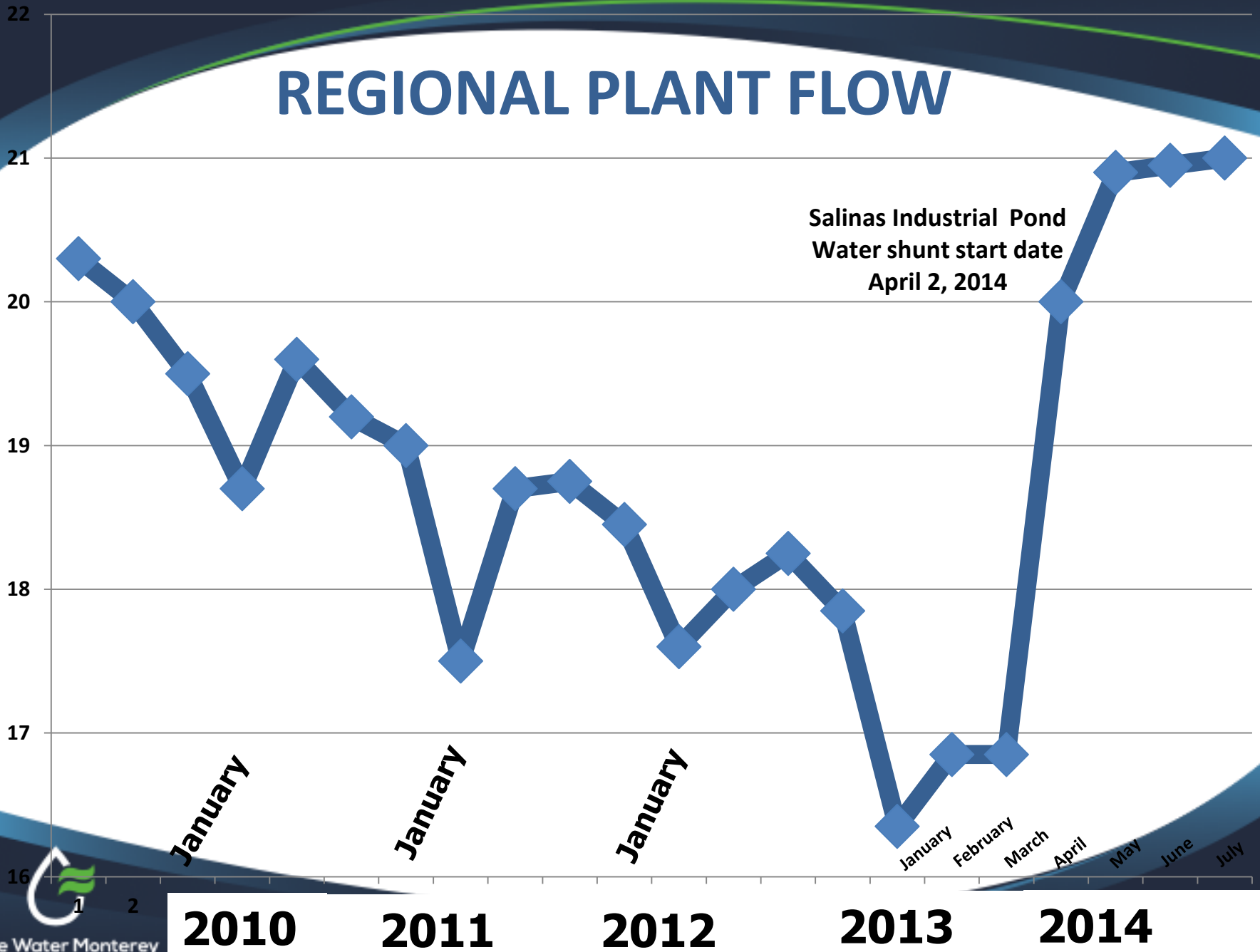
- Signed Initial Funding Agreement (Loan) with State Water Resources Control Board on April 6, 2017
- \$15 Million in a Construction Grant as part of the loan package
- Additional \$10 Million grant for Storm Water projects that benefit Pure Water Monterey
- Continuing to search for other grant opportunities
- Groundbreaking Ceremony on May 5th



# REGIONAL PLANT FLOW

Salinas Industrial Pond  
Water shunt start date  
April 2, 2014

MGD





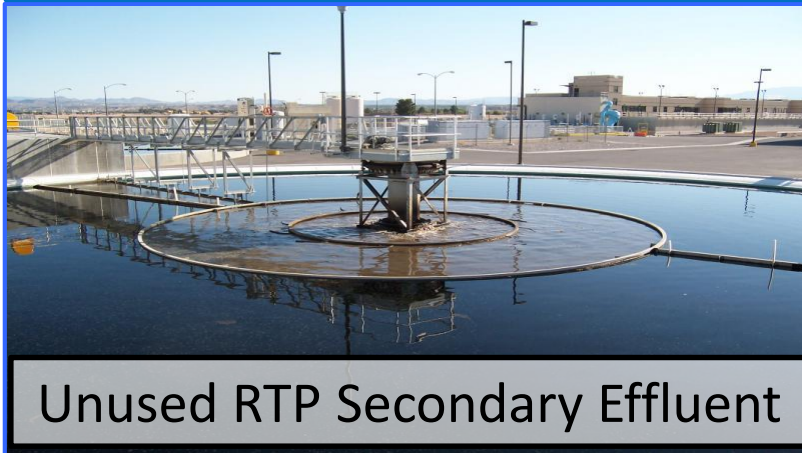
# Project Source Waters



Urban Stormwater/Runoff



Salinas Industrial Waste Water



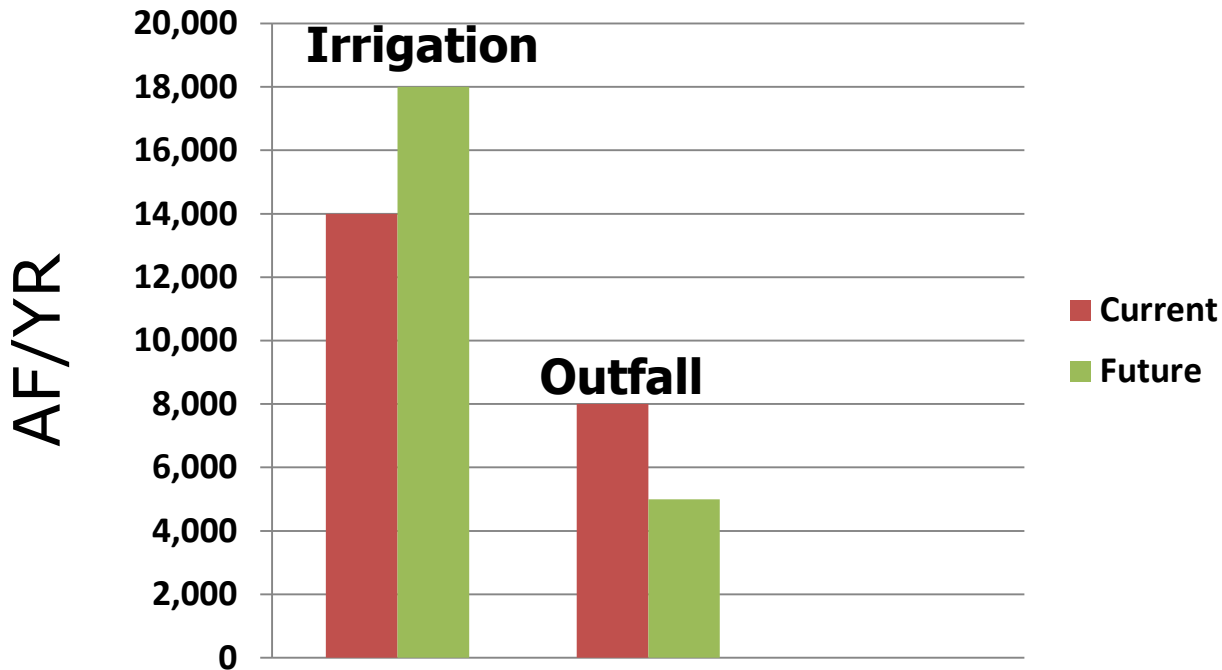
Unused RTP Secondary Effluent



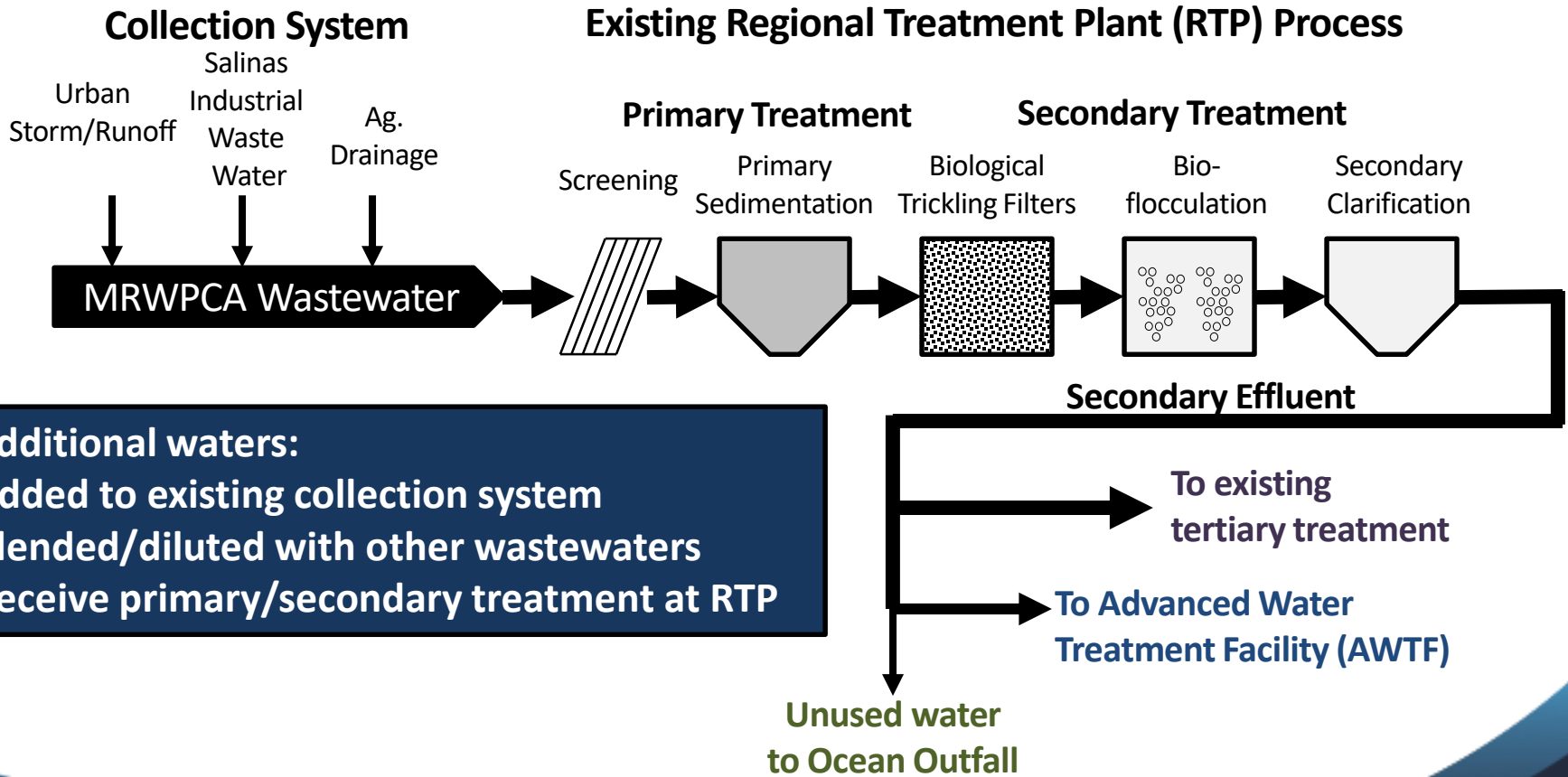
Agricultural Drainage Water



# Recycled Water Availability for Agriculture



# Incorporating Additional Sources



## All additional waters:

- Added to existing collection system
- Blended/diluted with other wastewaters
- Receive primary/secondary treatment at RTP



# Concerns about Legacy Pesticides

- Evaluated extensively in environmental review, design and DDW review processes
- Few legacy pesticides detected in RTP source waters
- Of those detected, all were below safe drinking water levels prior to being blended and treated. Will be well below safe drinking water levels after treatment in the AWPf.
- AWPf provides extra protection: >99.98% removal
- Detailed info at: <http://purewatermonterey.org/faqs/additional-questions/>



# How Does Advanced Purification Work?

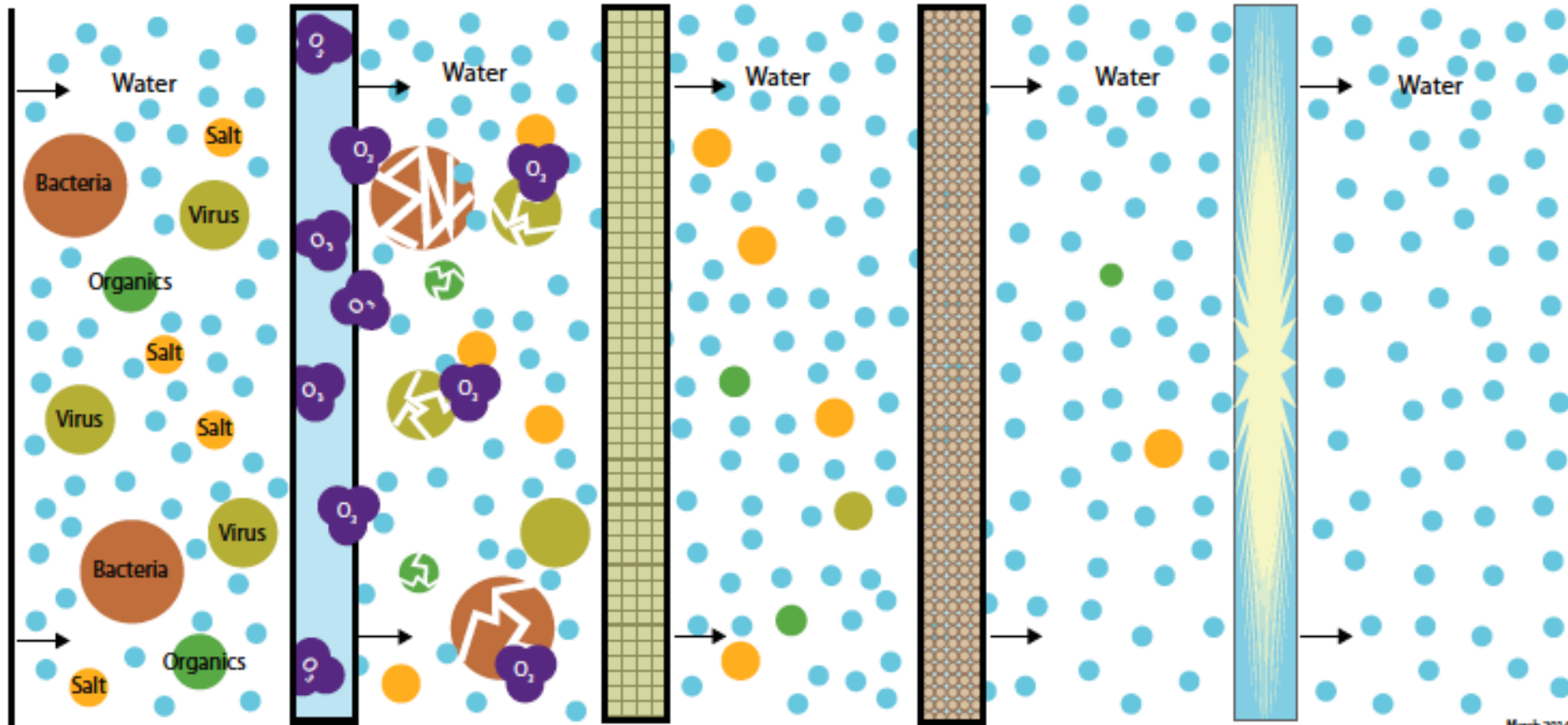
Treated Source Waters

Ozone Treatment

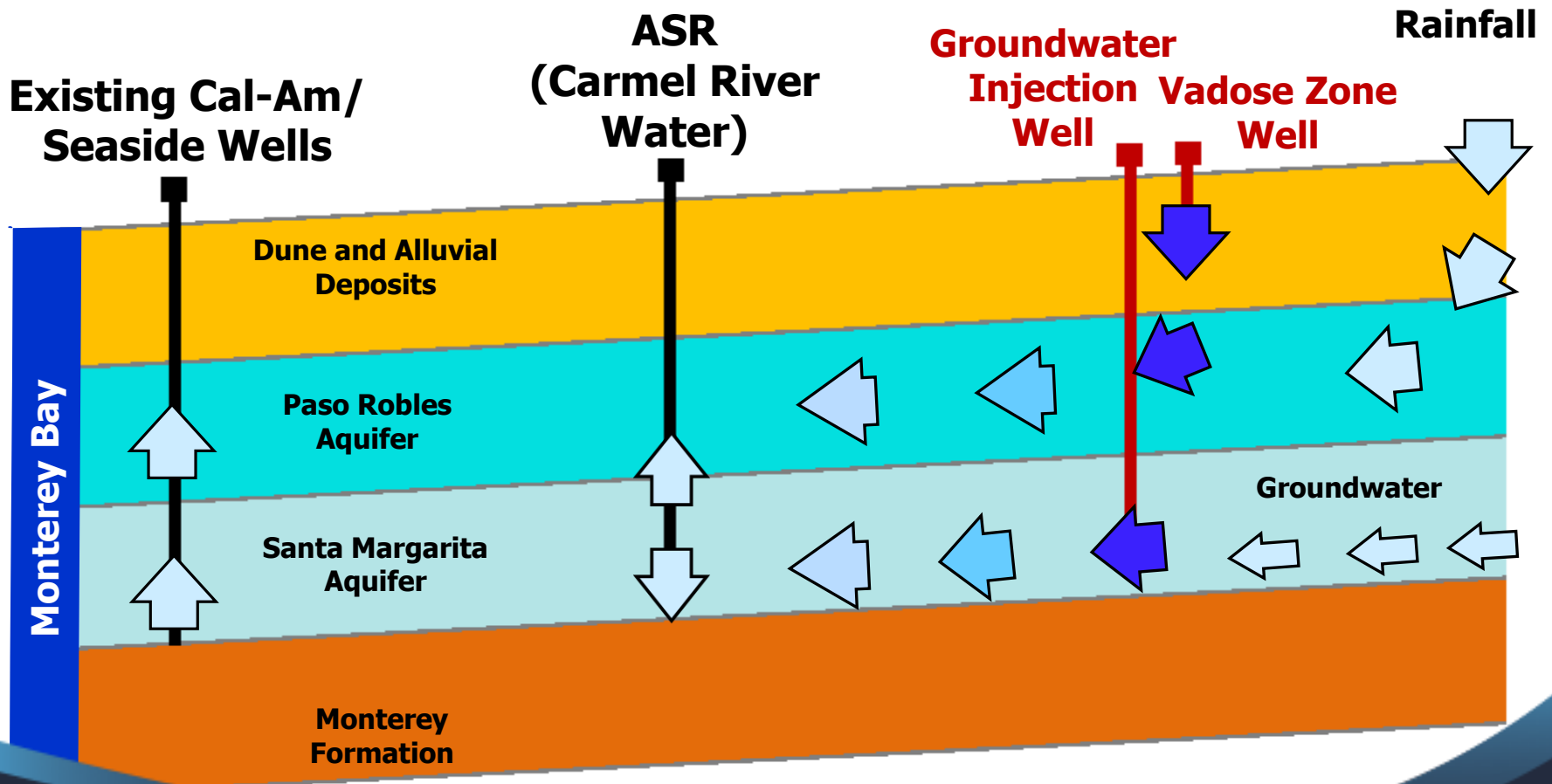
Membrane Filtration

Reverse Osmosis

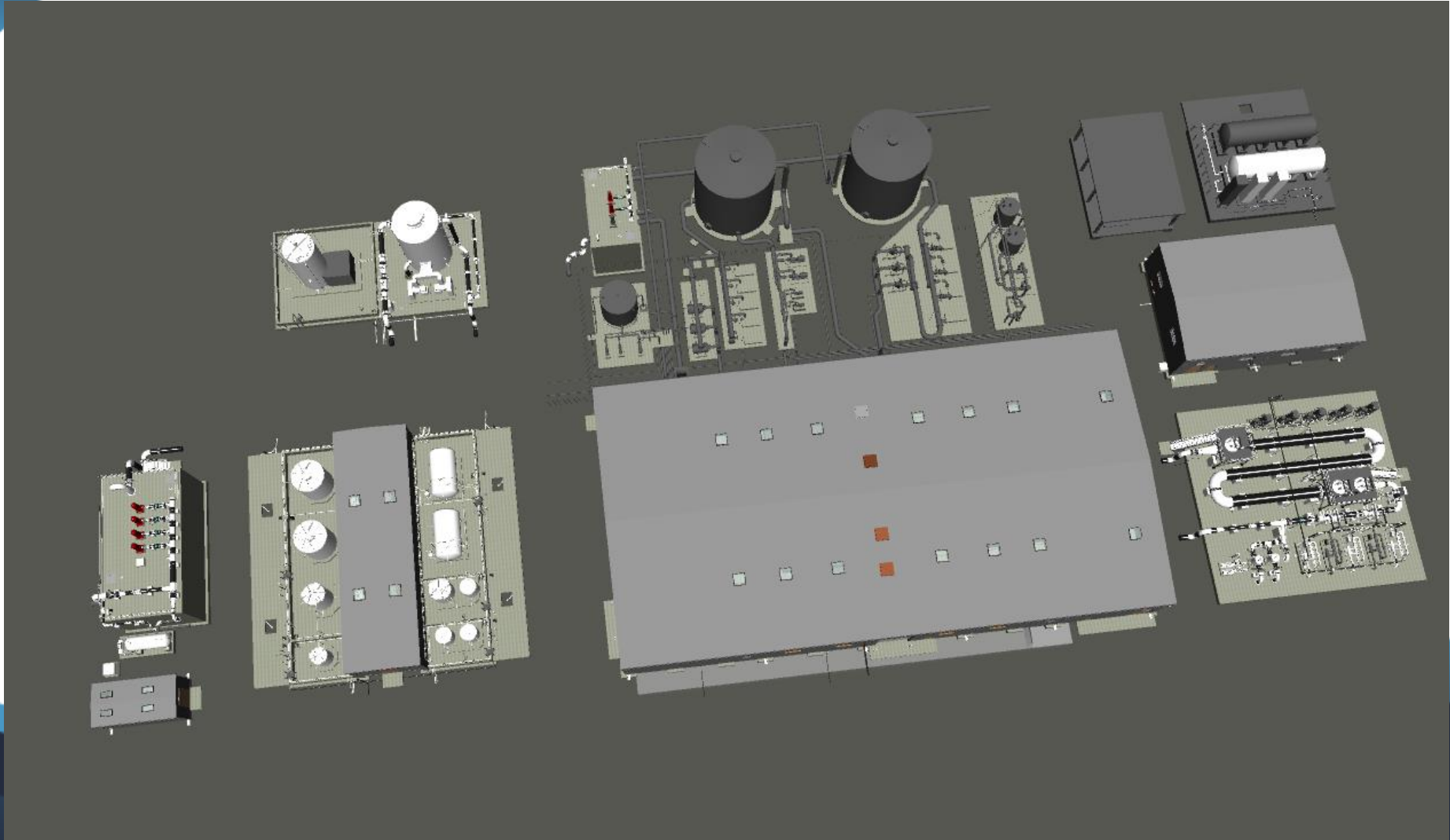
UV Disinfection and Hydrogen Peroxide



# Groundwater Replenishment Schematic



# AWPF Overview



# Renewable Energy for the AWPf

- Regional Landfill Next Door
  - Co-Gen Power available
  - AWPf needs power
  - Shared Board Members
  - Viola..... Power Purchase Agreement





# PWM PROJECT PARTNERS



# PROJECT PARTICIPANTS



# Pure Water Monterey Demonstration Facility



Drinking is Believing



# Capital Improvement Projects

- Current rates generate roughly \$3.9 million per year for capital improvement expenses & capital equipment
  - Includes roughly \$3.4 million CIP + \$500K for capital equipment
  - Historical average = \$4.3 million annual average over past 5 years
- Aging facilities
  - Require more maintenance, rehabilitation and replacement
  - Treatment plant 27 years old, pump stations older
- Future 10-Year CIP projected at roughly \$10 million per year
  - Engineering studies will fine tune & prioritize CIP



# FUTURE IMPACT

- Prop 218 process
  - Up to a 10% increase for three years or \$1.55, \$1.75 and \$1.90 respectively.
  - After the 3 year 218 process concludes, the monthly bills will be \$5.20 higher per month.
  - Public Hearing on the Prop 218 will occur on June 5<sup>th</sup> at 6:00 p.m. at the MRWPCA Administrative Offices in Ryan Ranch.



# Cost Centers

- None of the rate increase goes to support Pure Water Monterey
- Pump Station upgrades in Moss Landing, Salinas, Pacific Grove, and Monterey
- Rehabilitation of Wastewater Treatment Facilities
- Supervisory Control and Data Acquisition (SCADA) Upgrade (improve efficiencies and active operation control)



# For More Information

*Project Website:*

**[www.purewatermonterey.org](http://www.purewatermonterey.org)**

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# Questions

