





Pure Water Monterey

A Groundwater Replenishment Project

Welcome to the Future of Water

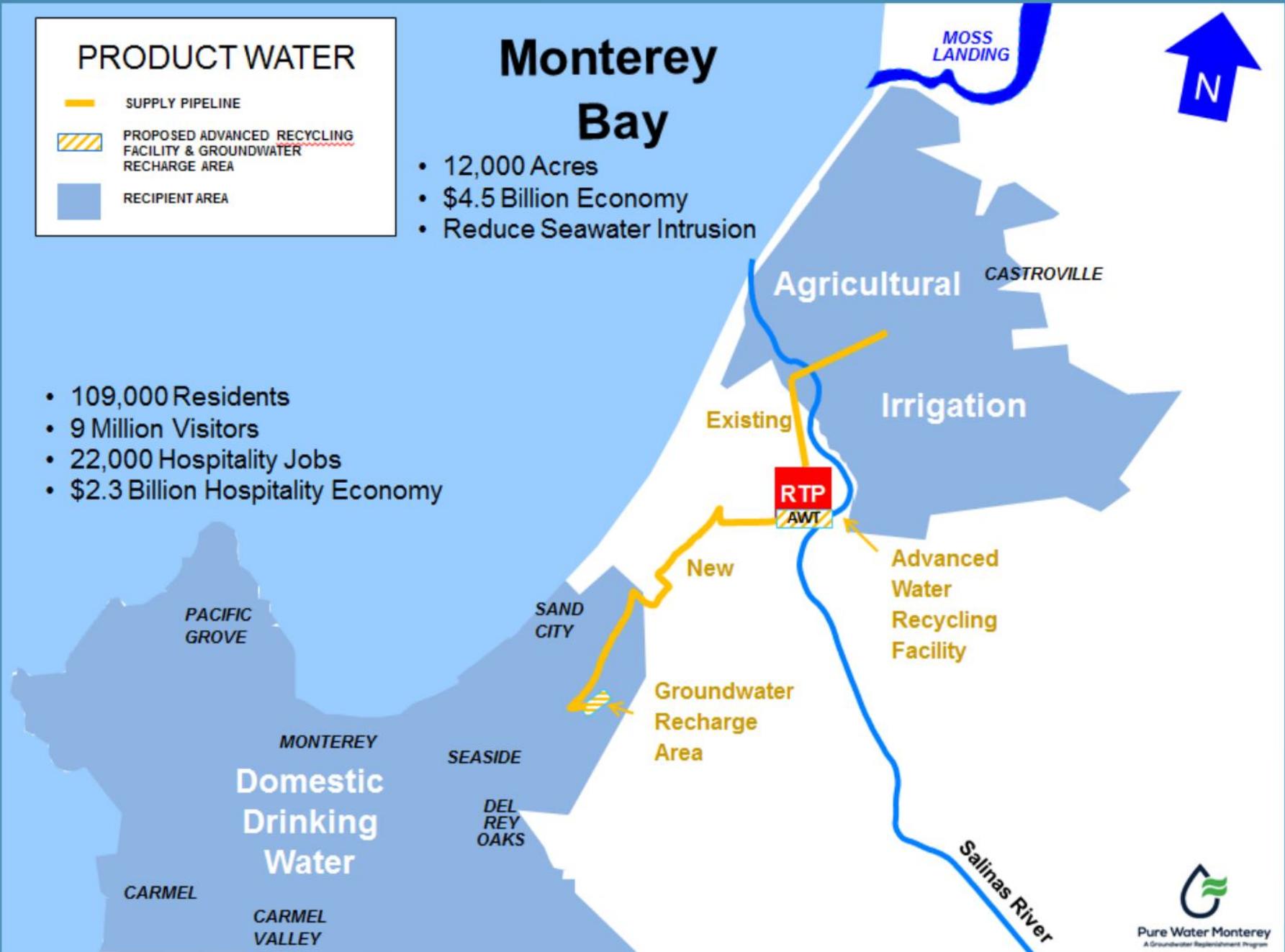
PRODUCT WATER

-  SUPPLY PIPELINE
-  PROPOSED ADVANCED RECYCLING FACILITY & GROUNDWATER RECHARGE AREA
-  RECIPIENT AREA

Monterey Bay

- 12,000 Acres
- \$4.5 Billion Economy
- Reduce Seawater Intrusion

- 109,000 Residents
- 9 Million Visitors
- 22,000 Hospitality Jobs
- \$2.3 Billion Hospitality Economy



Source Waters



Urban Stormwater Runoff





Salinas Agricultural Wash Water

Secondary Treated Wastewater

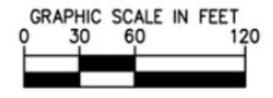
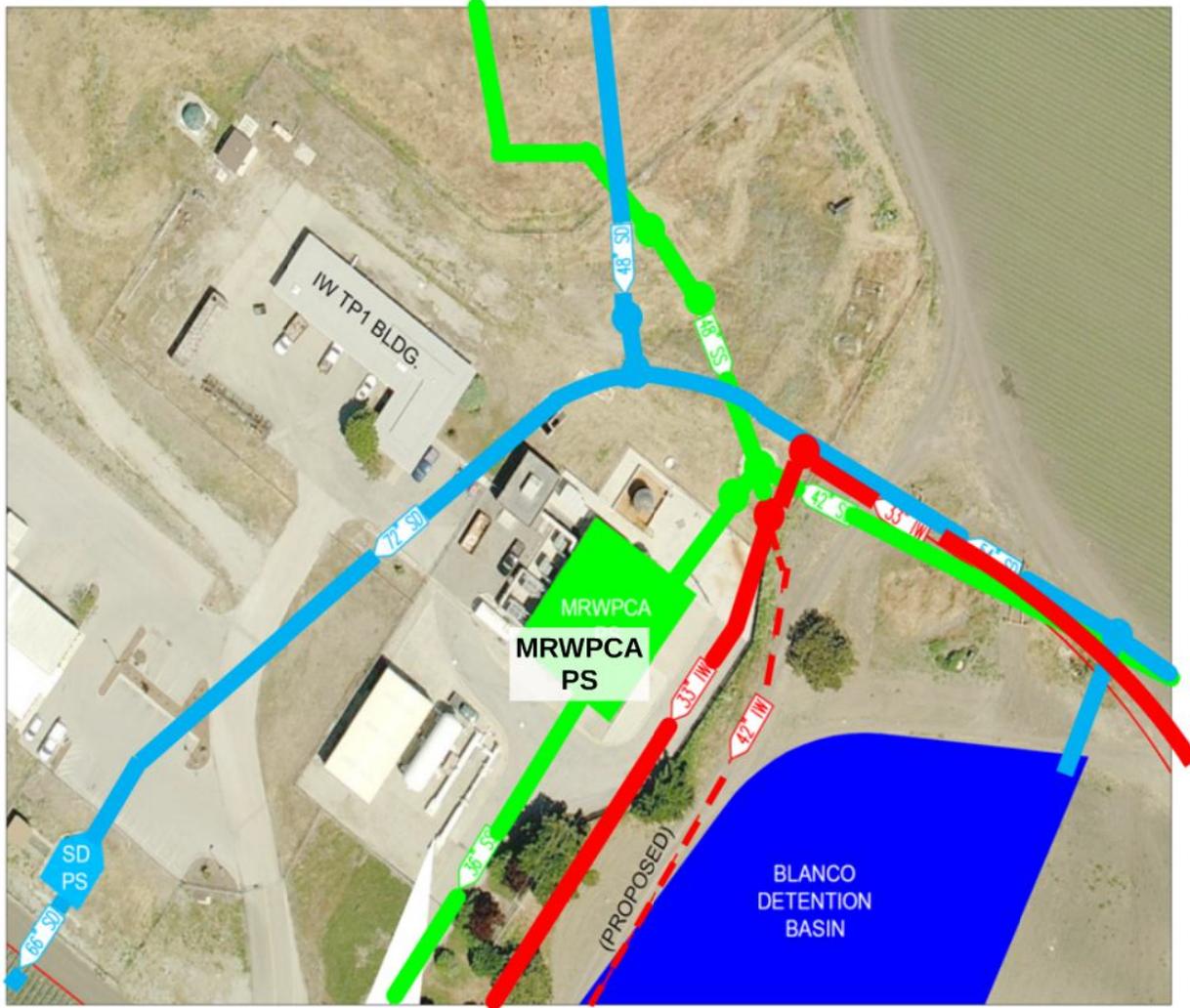


Agricultural Drainage Water



LEGEND

STORM DRAIN	
SANITARY SEWER	
AG WASHWATER	
BLANCO RETENTION BASIN	
BLANCO DETENTION BASIN	
MANHOLES	
MANHOLES	



GROUNDWATER REPLENISHMENT PROJECT
 PROPOSED GWR SOURCE WATER - CITY OF SALINAS
 EXISTING PIPELINES
 08/30/2013



One Regional Treatment Plant Creating Three Kinds of Water

Non-Potable Reuse
Agriculture Irrigation



Regulated Ocean Discharge
Predominantly Wintertime



Indirect Potable Reuse
Groundwater Replenishment



Non-Potable Reuse

Agriculture Irrigation



Regulated Ocean Discharge

Predominantly Wintertime



Indirect Potable Reuse

Groundwater Replenishment





RO Permeate

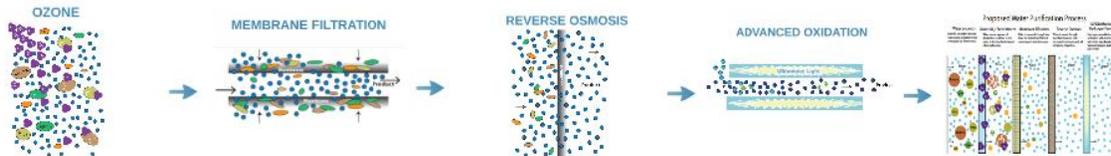
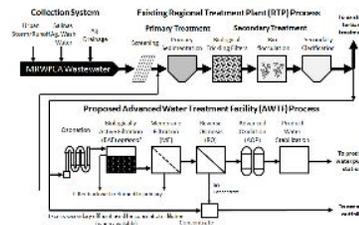
Membrane Filtrate

Ozonated Effluent

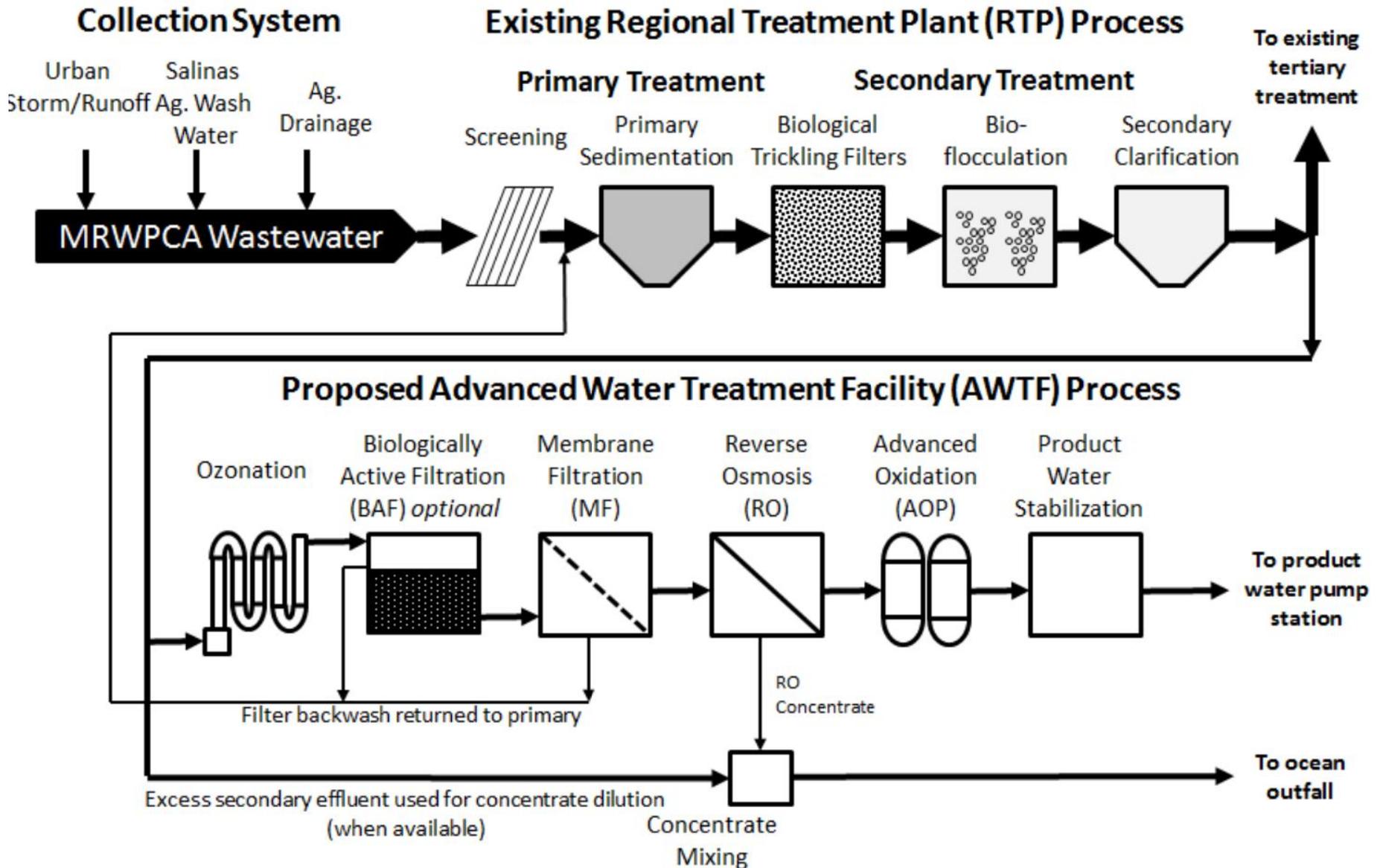
Secondary Effluent

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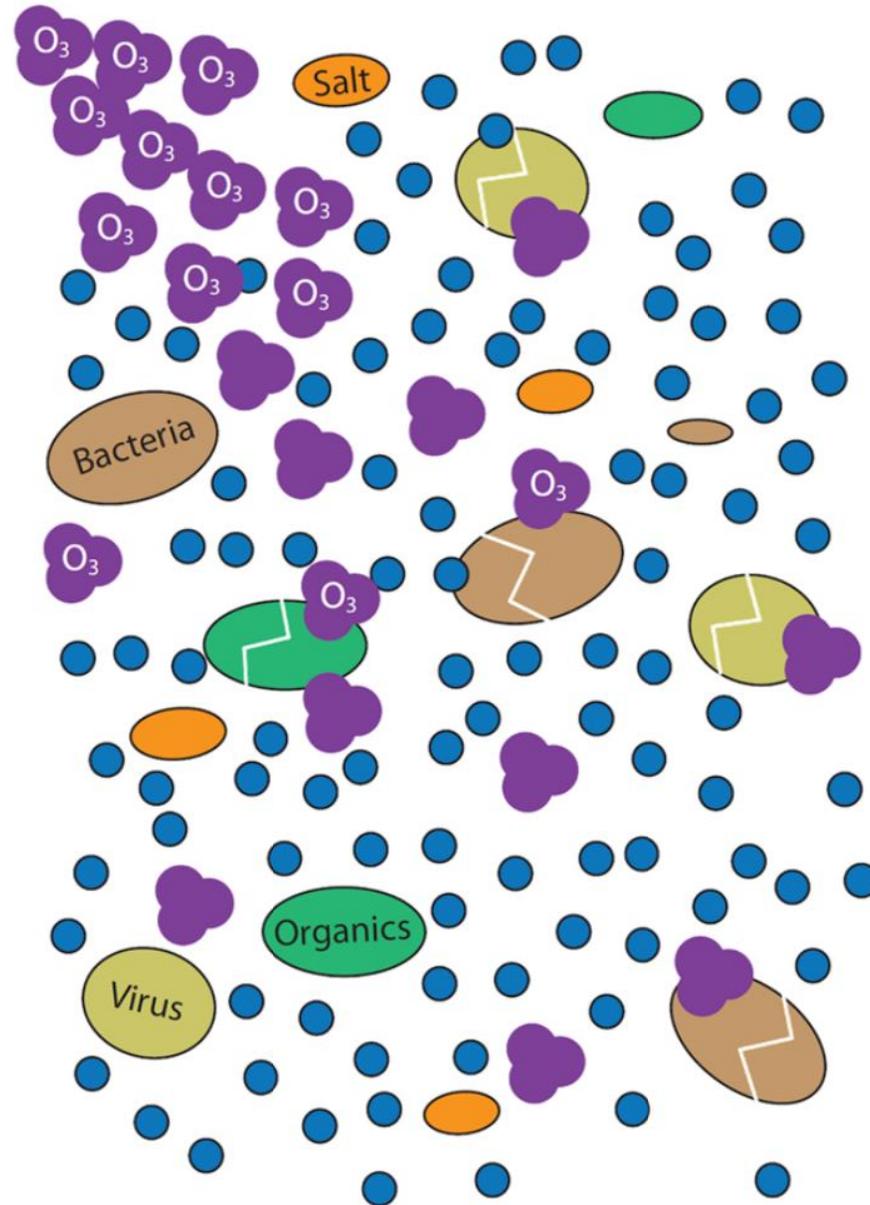
Proposed Treatment Process



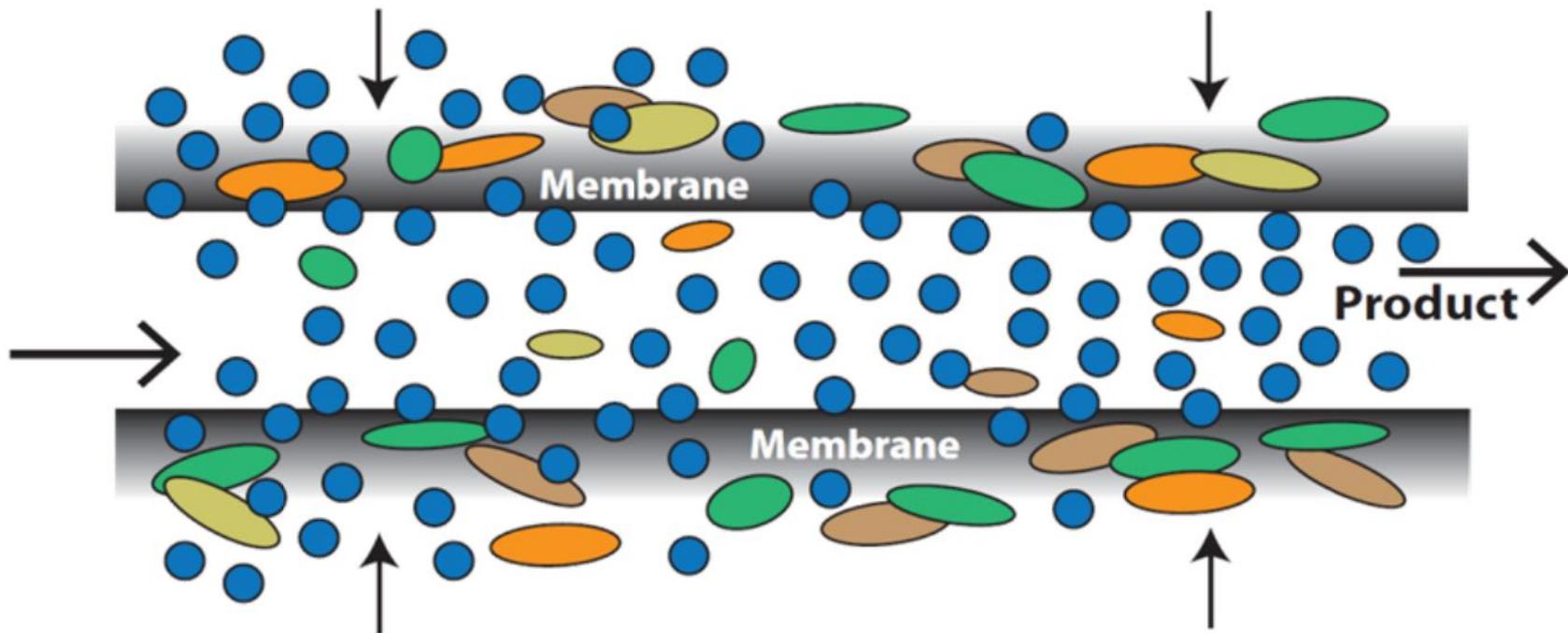
Proposed Treatment Process



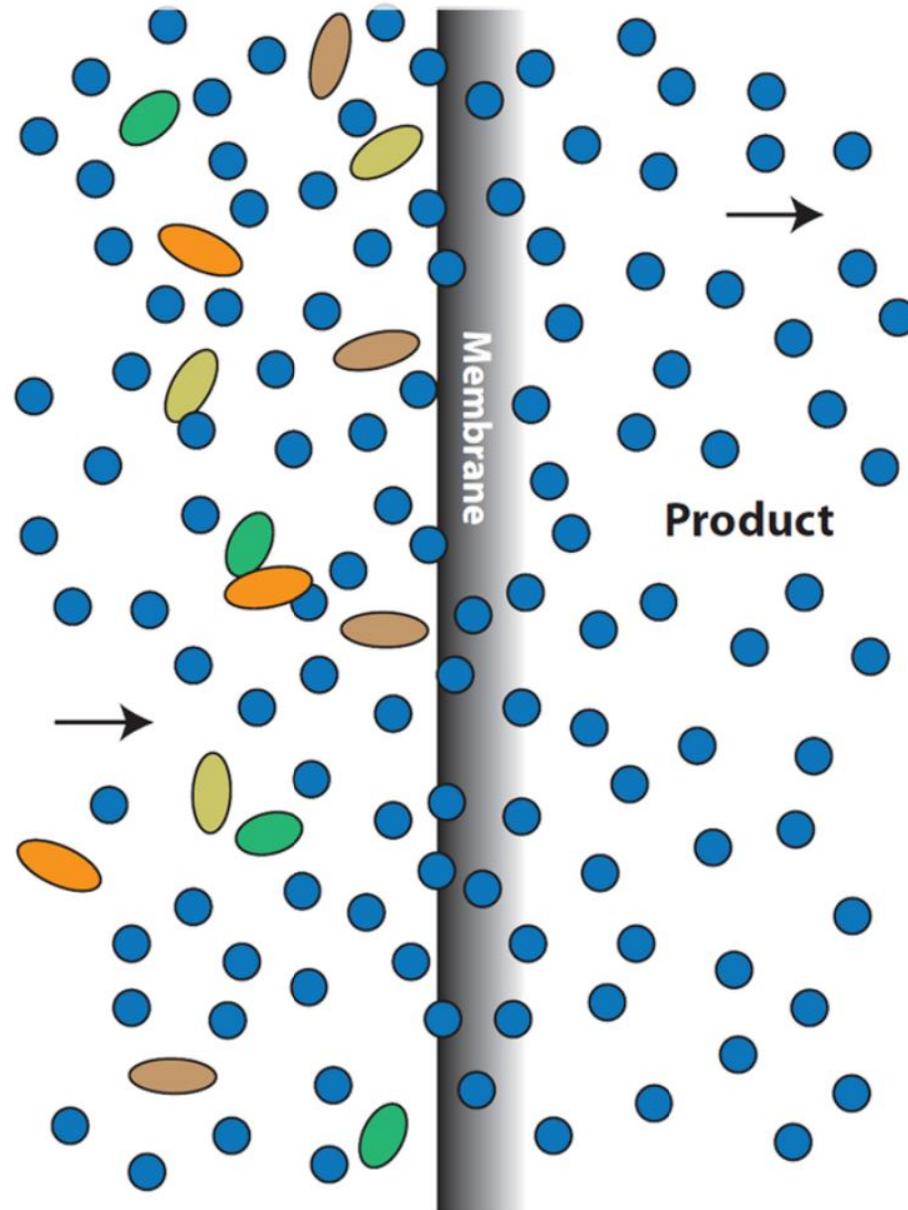
OZONE



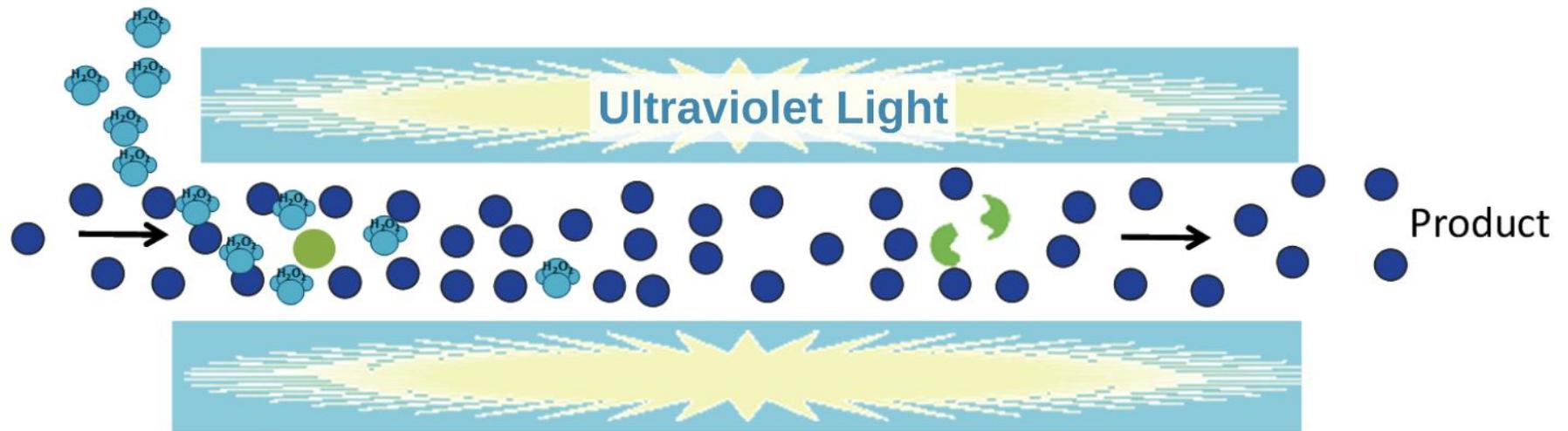
MEMBRANE FILTRATION



REVERSE OSMOSIS



ADVANCED OXIDATION



Proposed Water Purification Process

Water Source(s)
Includes secondary-treated wastewater and other water sources (to be determined).

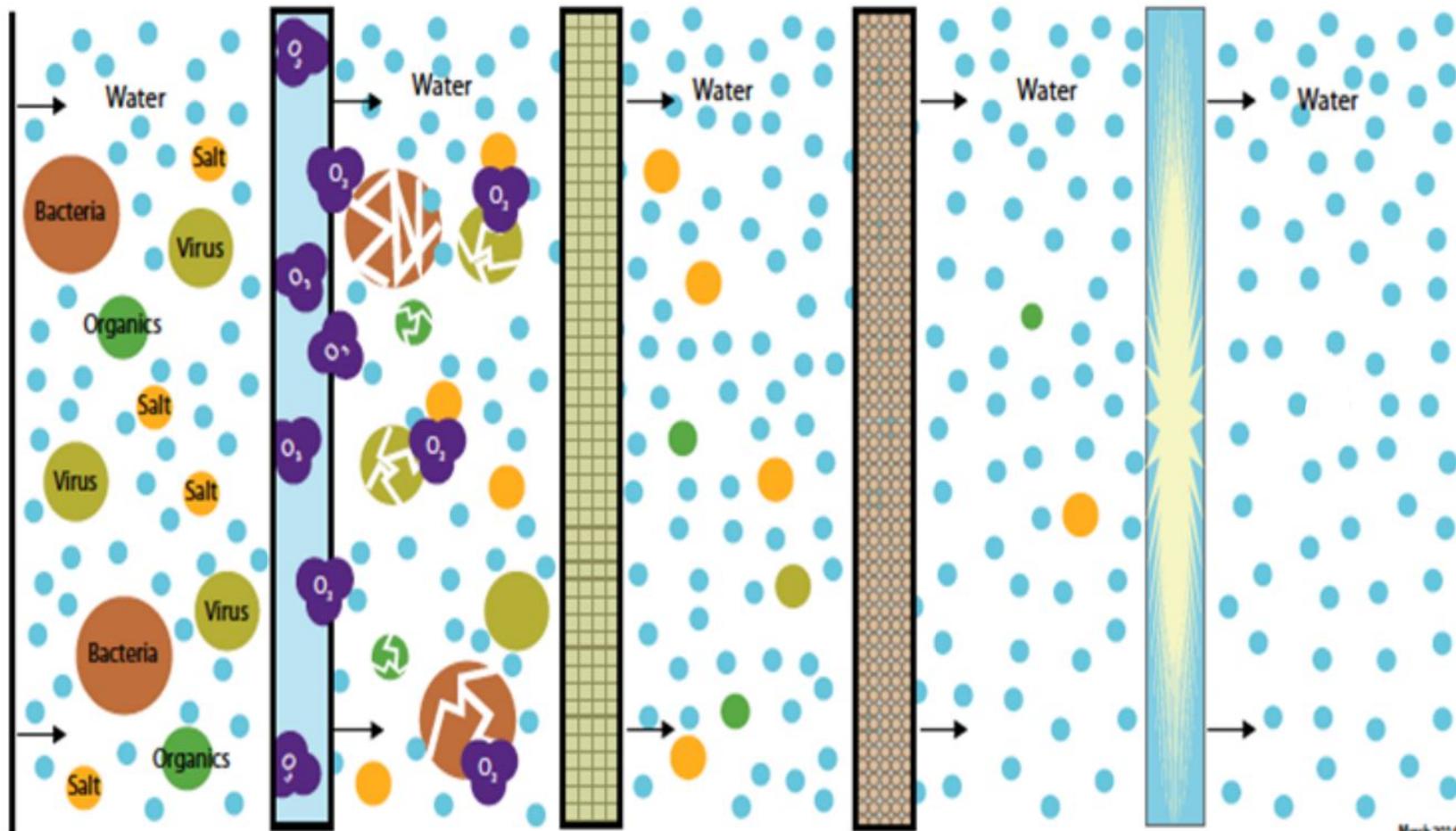
Ozone (O₃) Pretreatment
When ozone, a powerful disinfectant, is added to the water, it destroys bacteria and other pathogens.

Membrane Filtration
Water is pumped through tiny straw like tubes that filter out contaminants from the water.

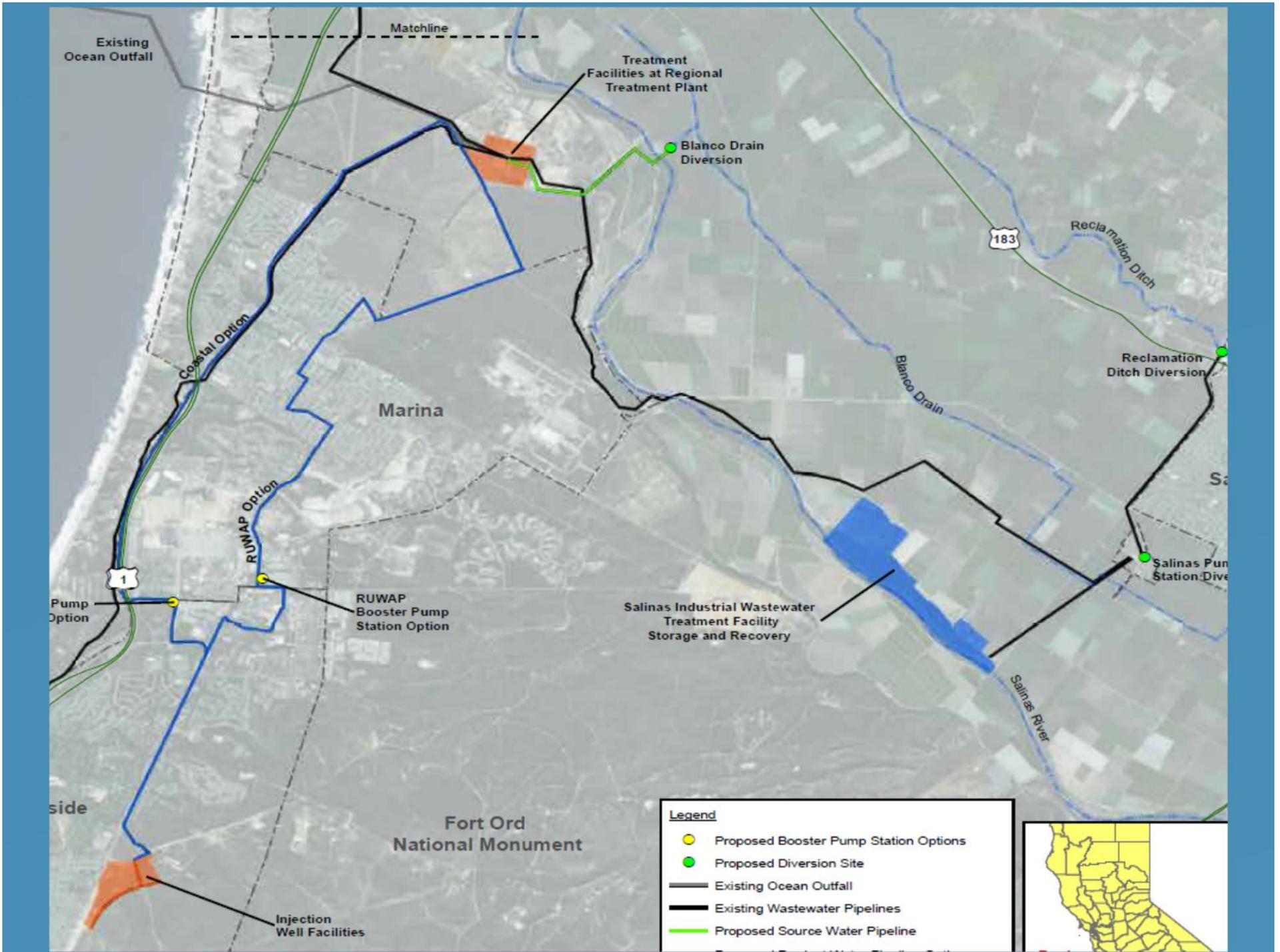
Reverse Osmosis
Water is forced through membranes under high pressure to remove nearly all remaining impurities.

UV Disinfection & Hydrogen Peroxide

Hydrogen peroxide is added and reacts with exposure to ultraviolet light, breaking down trace compounds and leaving pure water.



March 2014

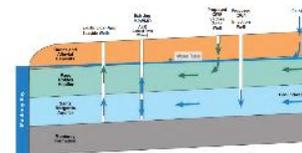


Injection

Drilling Monitoring Well



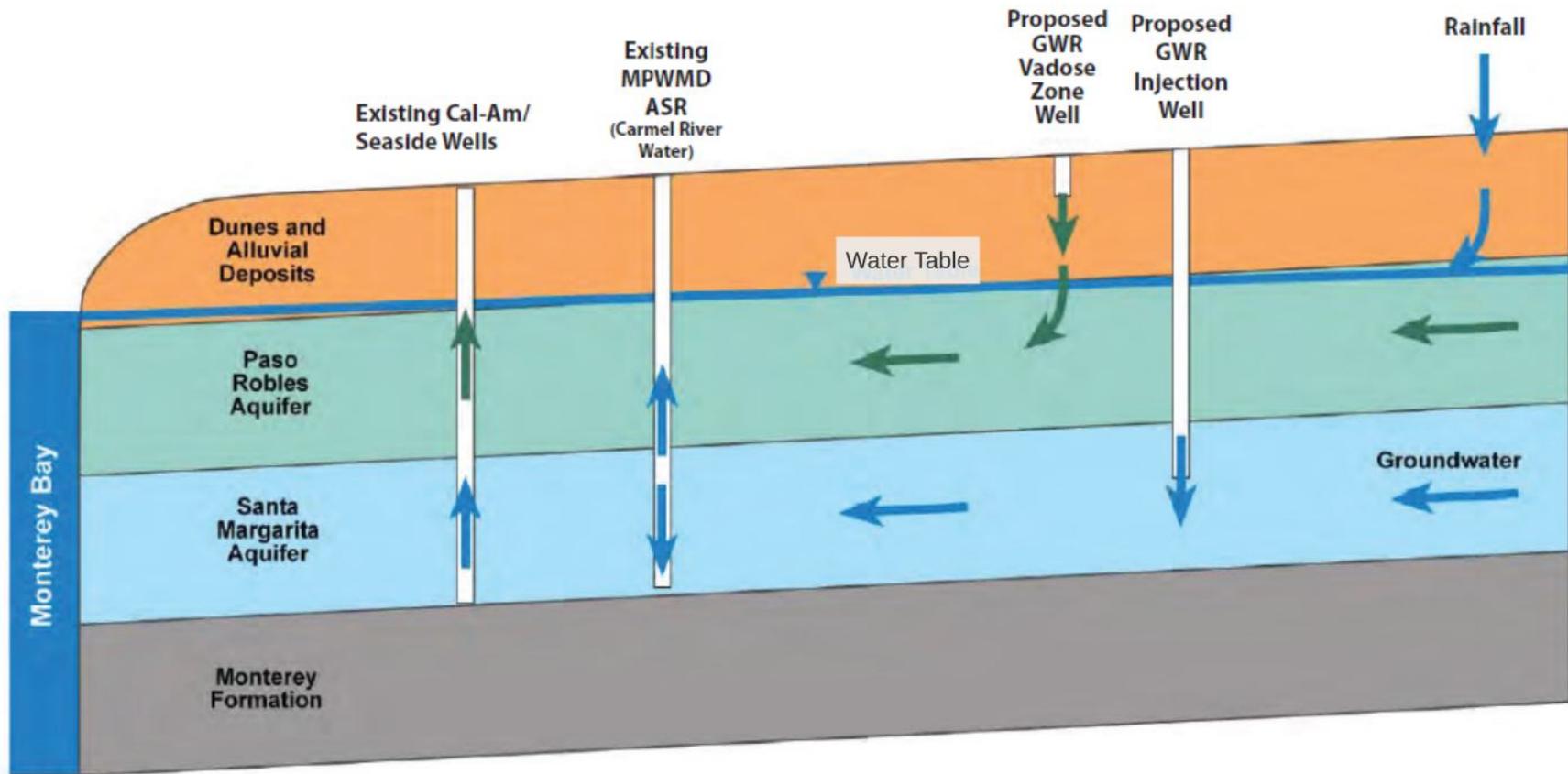
Seaside Groundwater Basin



Drilling Monitoring Well



Seaside Groundwater Basin





RON CHAPMAN, MD, MPH
Director & State Health Officer

State of California—Health and Human Services Agency
California Department of Public Health



EDMUND G. BROWN JR.
Governor

June 5, 2014

Robert Holden, Principal Engineer
Monterey Regional Water Pollution Control Agency
5 Harris Court, Building D
Monterey, CA 93940

Dear Mr. Holden:

**Pure Water Monterey Groundwater Replenishment Project Concept
Monterey Regional Water Pollution Control Agency- Recycled Water System No. 2790002**

The California Department of Public Health (CDPH) has reviewed the DRAFT May 19, 2014 *Monterey Regional Water Pollution Control Agency, Pure Water Monterey Groundwater Replenishment Project, Proposal to Inject Highly-Treated Recycled Water into the Seaside Groundwater Basin*. The purpose of this letter is to respond to the Monterey Regional Water Pollution Control Agency (MRWPCA)'s request for CDPH review and approval of the project concept. CDPH has developed draft groundwater replenishment regulations. MRWPCA has committed to meet the requirements specified in the CDPH draft groundwater replenishment regulations.

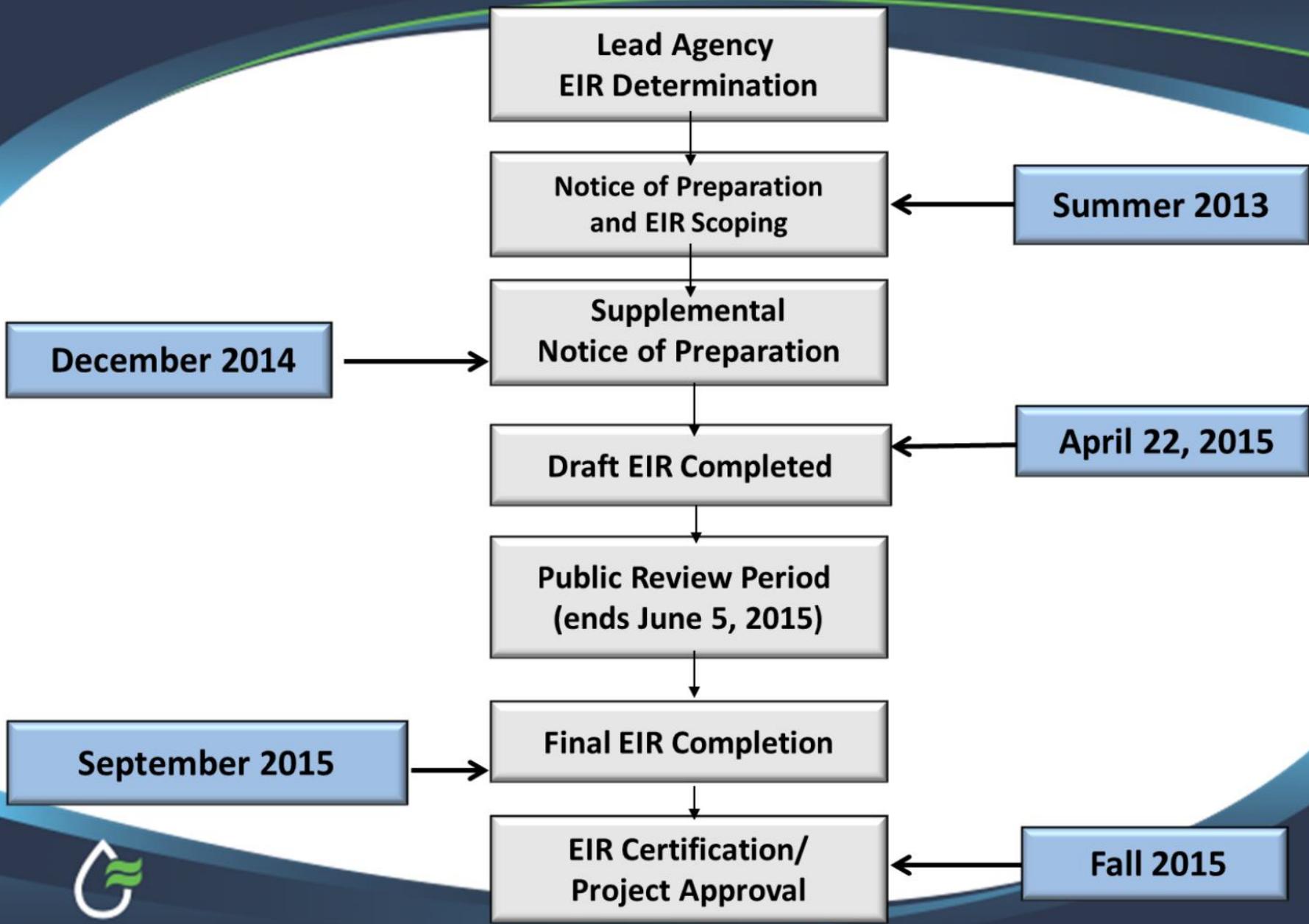
Transparent Oversight

*Regional Board
Monterey County Env. Health
CA DDW
State Board
IAP*



***Regional Board
Monterey County Env. Health
CA DDW
State Board
IAP***





Replacement Water Supply



Reduced Footprint

Multi-Benefit

