

# Pure Water Monterey Advanced Water Purification Facility and Groundwater Replenishment Project

Order No. R3-2017-0003

Central Coast Regional Water Quality Control  
Board Meeting - March 9, 2017



# Agenda Item # 16

## R3-2017-0003

Pure Water Monterey Advanced Water  
Purification Facility

and

Groundwater Replenishment Project



# Monterey Regional Water Pollution Control Agency

## Project Overview



# R3-2017-0003 Highlights

- Seaside Basin
  - Protecting Beneficial Uses
    - Calculating Assimilative Capacity
    - Effluent Limits



# Permit Development

- Collaboration with Division of Drinking Water
  - Title 22 Engineering Report
  - Responses to comments
- NPDES Permit Revision

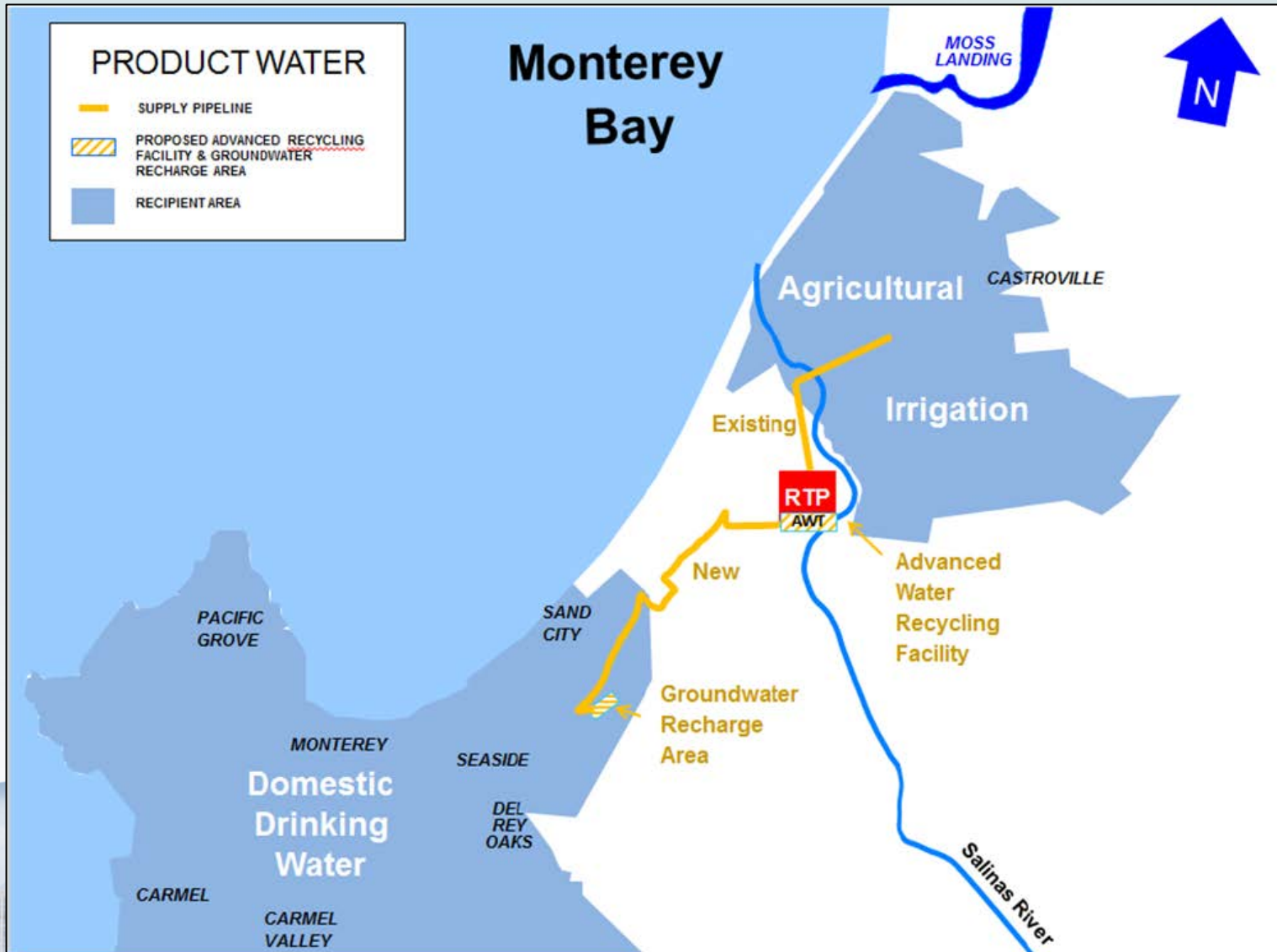


# Comment Letters

- A total of three comment letters were received regarding these WDRs
  - Monterey Regional Water Pollution Control District
  - California American Water Company
  - Seaside Basin Watermaster



# Conclusion



# Questions?



## ATTACHMENT 2

### MATHEMATICAL RELATIONSHIP

#### ASSIMILATIVE CAPACITY USE AND FRACTION OF RECYCLED WATER

$$\text{Fraction of assimilative capacity used} = \frac{\left( \frac{\text{Recycled water blended with ambient}}{\text{WQO} - \text{Ambient}} \right) - \text{Ambient}}{\text{WQO} - \text{Ambient}}$$

Where,

$$\text{Recycled water blended with ambient} = \left( \frac{\text{Fraction of recycled water}}{\text{recycled water}} \right) \text{WQO} + \left( 1 - \frac{\text{Fraction of recycled water}}{\text{recycled water}} \right) \text{Ambient}$$

assuming the recycled water quality is equal to the WQO.

$$\text{Fraction of assimilative capacity used} = \frac{\left( \frac{\text{Fraction of recycled water}}{\text{recycled water}} \right) \text{WQO} + \left( 1 - \frac{\text{Fraction of recycled water}}{\text{recycled water}} \right) \text{Ambient} - \text{Ambient}}{\text{WQO} - \text{Ambient}}$$

$$\text{Fraction of assimilative capacity used} = \frac{\left( \frac{\text{Fraction of recycled water}}{\text{recycled water}} \right) \text{WQO} + \text{Ambient} - \left( \frac{\text{Fraction of recycled water}}{\text{recycled water}} \right) \text{Ambient} - \text{Ambient}}{\text{WQO} - \text{Ambient}}$$

$$\text{Fraction of assimilative capacity used} = \frac{\left( \frac{\text{Fraction of recycled water}}{\text{recycled water}} \right) \text{WQO} - \left( \frac{\text{Fraction of recycled water}}{\text{recycled water}} \right) \text{Ambient}}{\text{WQO} - \text{Ambient}}$$

$$\text{Fraction of assimilative capacity used} = \frac{\left( \frac{\text{Fraction of recycled water}}{\text{recycled water}} \right) (\text{WQO} - \text{Ambient})}{\text{WQO} - \text{Ambient}}$$

$$\text{Fraction of assimilative capacity used} = \text{Fraction of recycled water}$$