



**Pure Water Monterey**

A Groundwater Replenishment Project



**MPWMD Board Meeting • February 21, 2019**  
**Paul A. Sciuto, Monterey One Water General Manager**

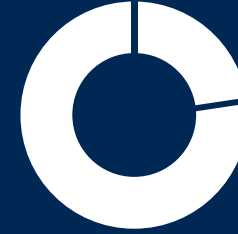


**3,500 AFY**



**of advanced purified recycled water produced  
for injection into the Seaside Groundwater Basin**

**~22%**



**of the Monterey Peninsula's  
future water supply portfolio**

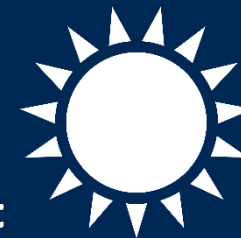


**New source waters will help increase  
tertiary treated water for agricultural  
irrigation up to**



**4,400 AFY**

**1,000 AFY**



**potable water drought  
reserve created to increase availability of  
tertiary treated water during dry years**



## Source Water Diversion Structures



## Advanced Water Purification Facility



### 4 Components to PWM



## Conveyance Pipeline



## Injection Wells



**Agricultural Drainage Water**



**Agricultural Wash Water**



**PWM Source Waters**



**Secondary Treated Wastewater**



**Urban Storm Water Runoff**





# Blanco Drain





# Reclamation Ditch





# Advanced Water Purification Facility





# Advanced Water Purification Facility







# Conveyance Pipeline





**Injection Wells**



# Monterey Pipeline

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## **DISTRIBUTION SUPER HIGHWAY**

- **Part of Monterey Peninsula Water Supply Project**
- **Allows new and existing water sources to reach all Peninsula residents (Carmel Valley to Seaside)**







# Product Water Quality Assurance

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- **Sampled Source Waters for 435 Constituents**
  - **Most were undetectable**
  - **Few were above regulatory levels**
- **Sampled Source Waters for 24 Pesticides**
  - **15 detected in at least 1 source water**
  - **2 detected above regulatory levels or public health goals**



**All to be below regulatory levels after:**

- **Blending with other source waters**
- **Primary/ Secondary Treatment**
- **Advanced Purification**
- **Time in Basin (n/a for pesticides)**

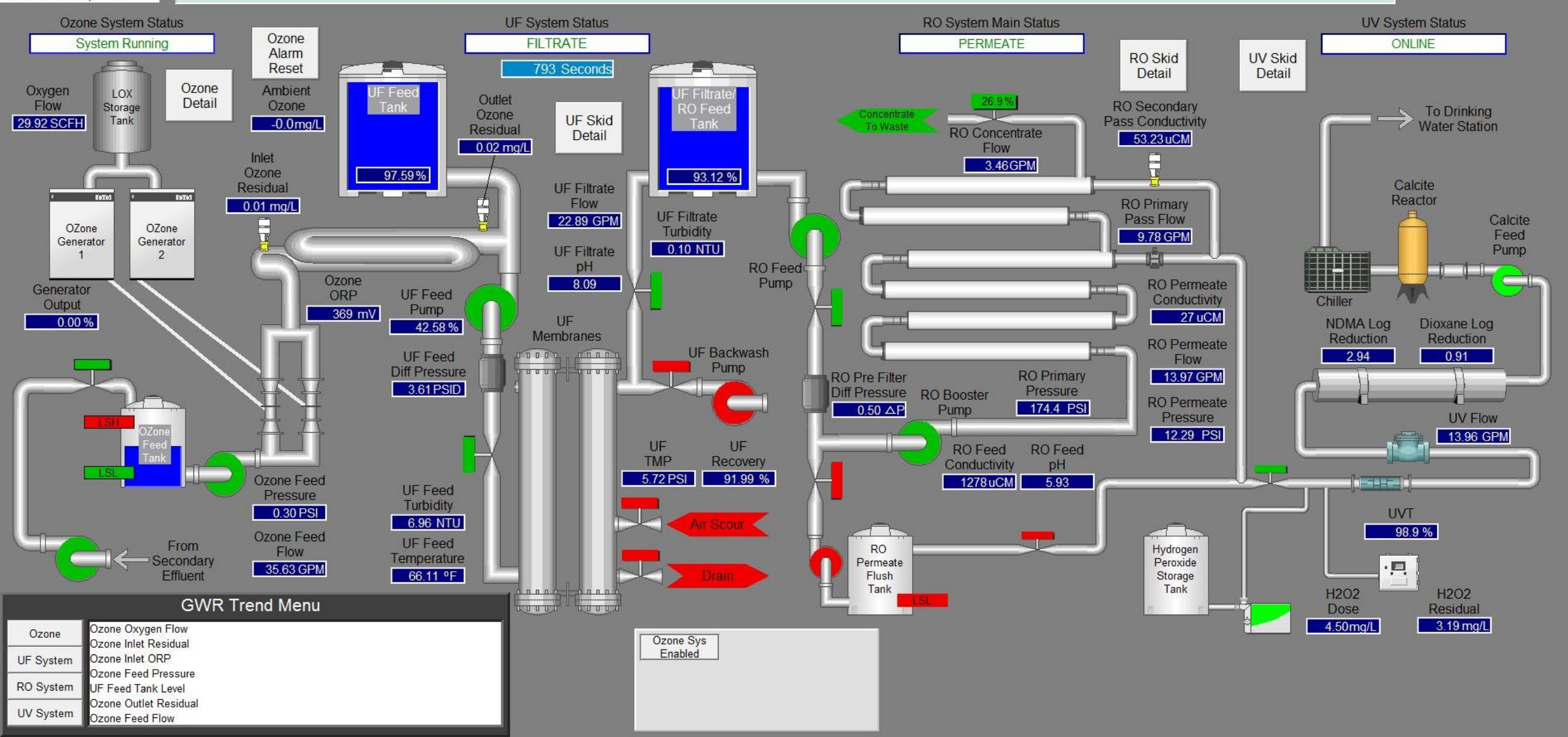




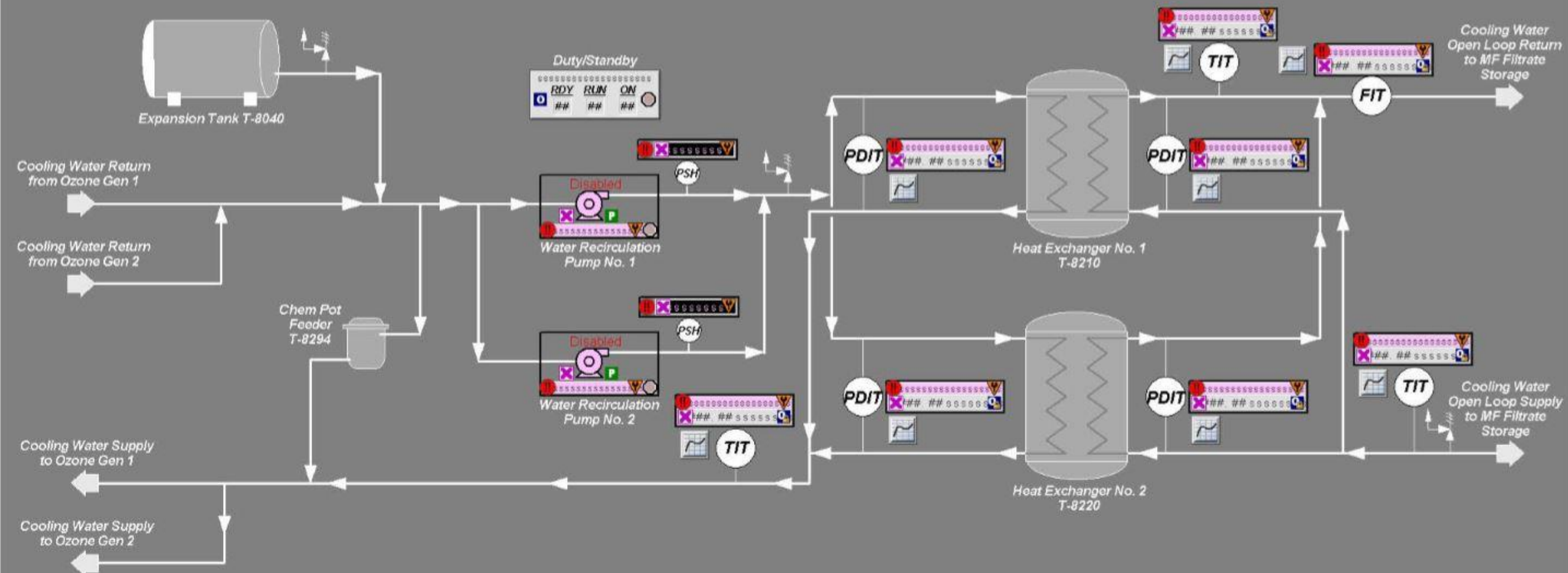
TRUPCA

Turning Wastewater Into Safe Water

PURE WATER MONTEREY DEMONSTRATION FACILITY OVERVIEW









# Product Water Quality Assurance

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- **Real-time, online monitoring throughout the treatment processes**
- **Extensive sampling and testing of product water prior to injection**
- **Continued sampling of Seaside Groundwater Basin to monitor improvements in quality**

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

**Reports and Documents – MRWPCA Advanced Water Treatment (pg 37-56)**



# Project Updates

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## **NPDES PERMIT**

**Adoption Issued (December 2018)**

- **Permit modifications to discharge PWM concentrate**



## **INDEPENDENT ADVISORY PANEL**

**Panel Update (October 2018)**

- **Leading independent industry experts provide impartial feedback**



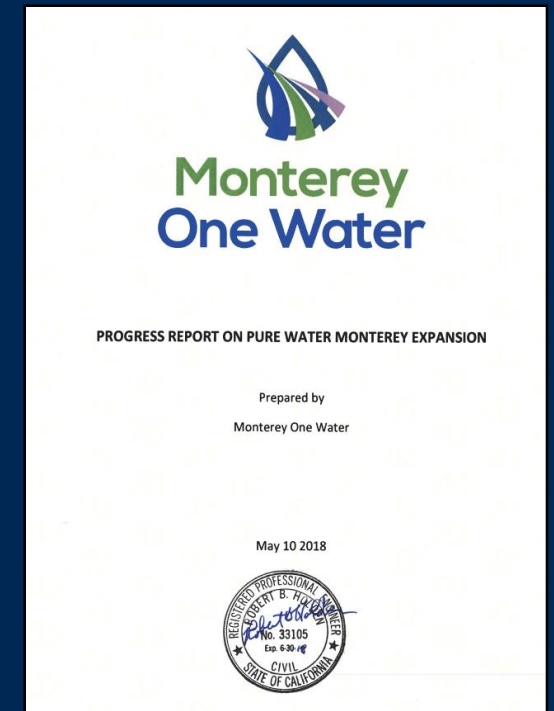
# Continued Collaboration

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## CPUC REQUEST Expansion

- Requested exploration in August 2017
- Submitted Motion in May 2018 with findings for Scenario B – addition of 2,250 AFY
  - Created Progress Report
  - Developed Financing Package
  - Cal-Am response decision March 22, 2019





# Continued Collaboration

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## MONTEREY PENINSULA WATER SUPPLY PROJECT

- Brine mixing structure: facility to mix desal brine with the Agency's wastewater to send out to ocean outfall
- Modify and upgrade M1W's Ocean Outfall Pipeline





# Questions

