Formed in 1972 and previously known as the Monterey Regional Water Pollution Control Agency

10 Member Entities Serving 250,000 Community Members

29.6 MGD Primary/Secondary/Tertiary treatment capacity

Monterey One Water
Providing Cooperative Water Solutions

17 MILLION Gallons, on average, of wastewater processed each day

90 EMPLOYEES

$60 MILLION Operating Budget
JOINT RESPONSIBILITY
WASTEWATER
What happens to your used water?
ONE REGIONAL TREATMENT PLANT

Regulated Ocean Discharge
*Predominantly Wintertime*

Non-potable Reuse
*Agriculture Irrigation*

Indirect Potable Reuse
*Groundwater Replenishment*
PRIMARY/SECONDARY TREATMENT

1. HEADWORKS
2. PRIMARY CLARIFIERS
3. TRICKLING FILTERS
4. BIOFLOCCULATION
5. SECONDARY CLARIFIERS
OCEAN OUTFALL

• Secondary Effluent Quality: Meets CA Ocean Plan
• Outfall Distance: RTP to Coastline + 2 miles into the Monterey Bay, 100 ft below the water’s surface
• 60 inch diameter
• Last ~1,000 ft include ports to disperse effluent
WHERE DOES THE WATER GO?

- Distributed to 12,000 acres of farmland in northern Monterey County → CSIP
AGRICULTURE IRRIGATION WATER

WHY DO WE NEED RECYCLED WATER FOR IRRIGATION?

- A decrease in groundwater pumping near the coast helps prevent seawater from moving into our clean supply.
AGRICULTURE IRRIGATION WATER

WHY DO WE NEED RECYCLED WATER FOR IRRIGATION?

- A secure water supply has diversified the type of crops grown in the CSIP area, including artichokes, cauliflower, strawberries, broccoli, lettuce, celery, and more
WATER SUPPLY PROJECT

3,500 ACRE FEET / YEAR of Advanced Purified Recycled Water produced for injection into the Seaside Groundwater Basin

1 Acre Foot = 325,851 Gallons

~22-33% of the Monterey Peninsula’s future water supply portfolio

1,000 ACRE FEET potable water drought reserve created to increase availability of recycled water for ag use during dry years

New Source Waters will help increase tertiary treated recycled water for agricultural irrigation up to 4,400 ACRE FEET / YEAR

Partners for Pure Water Solutions
WHY DO WE NEED PWM?

Water supply diversification and sustainability

**Traditional Sources**
- Seaside Basin: 25%
- Carmel River: 75%

**Proposed Water Sources**
- Seaside Basin: 40%
- Desalination: 22%
- Groundwater Replenishment: 8%
- Sand City: 2%
- Aquifer Storage Recovery: 1%
- Pacific Grove: 5%
WHY DO WE NEED PWM?

Water supply diversification and sustainability

PRODUCT WATER
- Supply Pipeline
- Advanced Purification Facility & Groundwater Recharge Area
- Recipient Area

Monterey Bay

- 12,000 Acres
- $4.25 Billion Ag Economy
- Reduce Seawater Intrusion

- 109,000 Residents
- 9 Million Visitors
- 22,000 Hospitality Jobs
- $2.8 Billion Hospitality Economy

Irrigation
Agricultural

Groundwater Recharge Area
Advanced Water Purification Facility

Existing
New
RTP

Seaside
Del Rey Oaks
Carmel Valley
Carmel
Monterey
Pacific Grove

Pure Water Monterey
PURE WATER MONTEREY

4 Components to PWM

Source Water Diversion Structures
Advanced Water Purification Facility
Conveyance Pipeline
Injection Wells
PURE WATER MONTEREY

PWM Source Waters

Municipal Wastewater

Agricultural Wash Water

67%

17%

Agricultural Drainage Water

Urban Storm Water Runoff

16%
PURE WATER MONTEREY

[Diagram showing the stages of water treatment: 1. Ozone, 2. Membrane Filtration, 3. Reverse Osmosis, 4. UV + H₂O₂]
PURE WATER MONTEREY

CAL AM EXTRCTION WELLS ~9-12 Months INJECTION WELLS

SEASIDE GROUNDWATER BASIN
CROSS-DISTRICT COLLABORATION

FIND TIME

FIND OPPORTUNITIES

FIND RESOURCES
PURE WATER MONTEREY

OCEAN OUTFALL
- RTP to Coastline
- 2 miles into the Monterey Bay
- 100 ft below the water’s surface
- Effluent meets CA Ocean Plan

SOURCE WATERS
1. Wastewater (67%)
2. Agricultural Drainage Water (16%)
3. Agricultural Wash Water (17%)
4. Stormwater

PWM AWPF: Advanced Purification (Indirect Potable Reuse)
- Daily Capacity: 5 MGD
- Annual Yield: 3,500 AF + 200 AF (drought reserve)
- 6,500 AF Product Water
- RO Concentrate ~20% Rejection Rate

M1W REGIONAL TREATMENT PLANT (Primary/Secondary)
- Max Capacity: 29.6 MGD
- Min Operational Production: 5 MGD

SVRP: Tertiary Treatment (Ag Irrigation)
- Max Capacity: 29.6 MGD
- Min Operational Production: 5 MGD

DISTRIBUTION SYSTEM
- 12,000 acres of farmland
- 9 wells + booster stations

CONVEYANCE PIPELINE
- ~10 mile pipeline
- Lead Partner: Marina Coast Water District
- Turnouts included for future MCWD landscape irrigation customers

INJECTION WELLS
- Injection wells located near General Jim Moore Blvd and Coe Ave
- Travel time between injection and extraction wells is ~9-12 months

SEASIDE GROUNDWATER BASIN

CAL AM EXTRACTION WELLS
- ~9-12 Months

Pure Water Monterey
A Groundwater Replenishment Project