

COOPERATIVE WATER SOLUTIONS

FOR A SAFE, RESILIENT COMMUNITY



CENTRAL COAST OF CALIFORNIA

MONTEREY ONE WATER

*A public utility providing wastewater
and water reuse services in northern
Monterey County*



Monterey One Water
Providing Cooperative Water Solutions





Formed in 1972
in response to the Federal
Clean Water Act



285,000
Community Members
+ 7,000 business
in the service area

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

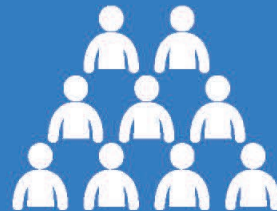


Monterey One Water
Providing Cooperative Water Solutions



29.6 MGD
Wastewater Treatment Facility
and Non-Potable Reuse Facility

5 MGD
Advanced Water
Purification Facility



108 EMPLOYEES
(Budgeted)



\$140 MILLION
Operating Budget

MONTEREY ONE WATER



MUNICIPAL WASTEWATER

Inside water usage from the residents and businesses of our 10 member cities/districts

(Consistent)



DRAINAGE WATER FROM CROP IRRIGATION

Excess water from the irrigation process which drains into channels

(As Needed/Available)



INDUSTRIAL PROCESSING WATER FROM FOOD PACKAGING

Water used to wash packaged produce, e.g. bagged salads, pre-washed veggies

(As Needed/Available)



URBAN DRY AND WET WEATHER RUNOFF

Outside water usage that drains into a city's stormwater pipe system

(As Needed/Available)

**4 SOURCE WATERS combine to form
influent into M1W's Regional Treatment Plant**

NON-POTABLE REUSE

CASTROVILLE SEAWATER INTRUSION PROJECT

Challenge: Seawater intrusion/groundwater quality

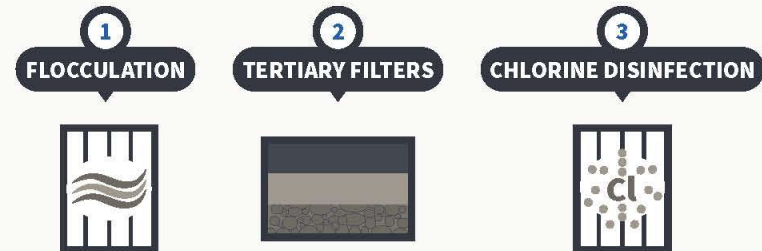
Solution: Recycled water for food crop irrigation

Production Start: April 1998

Facility Size: 29.6 million gallons per day

Influent: Secondary effluent

Treatment: Tertiary



Serves: 12,000 acres of fertile farmland

Annual Production: 12,300 acre feet (average)





Pure Water Monterey

A Groundwater Replenishment Project

Challenge: State and court-mandated reductions to surface water and groundwater due to habitat degradation and limited natural replenishment (respectively)

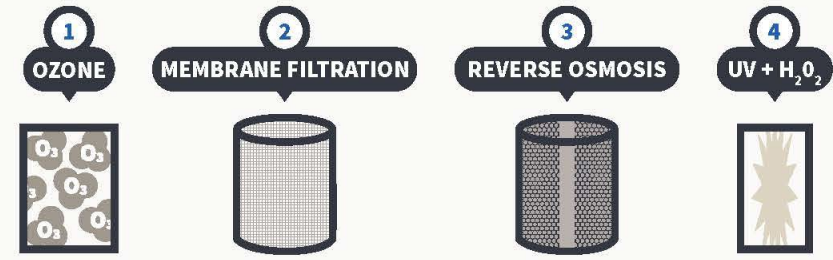
Solution: Recycled water for groundwater replenishment

Production Start: February 2020

Facility Size: 5 million gallons per day (expansion under construction)

Influent: Secondary effluent

Treatment: Advanced purification



Serves: Private water supplier's Monterey District of 104,000 residents, almost 5,000 businesses, and more than 9 million visitors a year

Annual Production: 3,500 acre feet (after expansion – 5,750 acre feet)

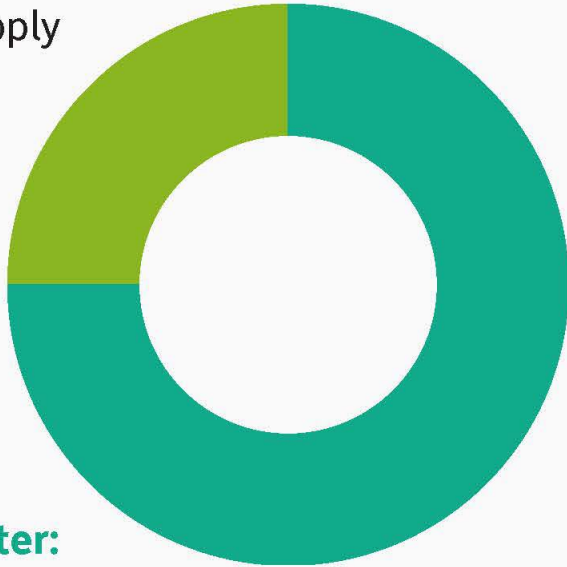
POTABLE REUSE

A CHANGING WATER SUPPLY

Historic Sources

Groundwater:
Seaside Basin
25% of supply

Surface Water:
Carmel River
75% of supply



New Supply Portfolio

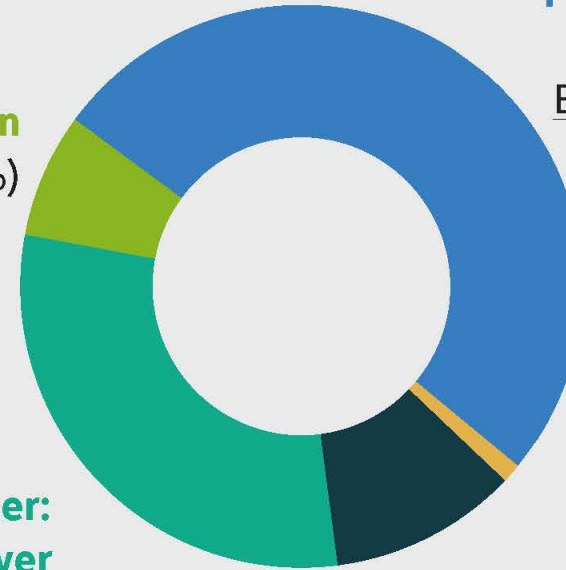
Groundwater: Seaside Basin
774 AFY (7%)

Surface Water:
Carmel River
3,376 AFY (30%)

Potable Reuse:
Pure Water Monterey
Base: 3,500 AFY
Expansion: 2,250 AFY
Total: 5,750 AFY
(51%)

Desalination:
City of Sand City
94 AFY (1%)

Aquifer Storage & Recovery
1,300 AFY (12%)



Desalination also under consideration by private water purveyor

RECYCLED WATER POWERED BY RENEWABLE ENERGY

PIPELINE FROM REGEN MONTEREY TO THE ADVANCED WATER PURIFICATION FACILITY (AWPF)

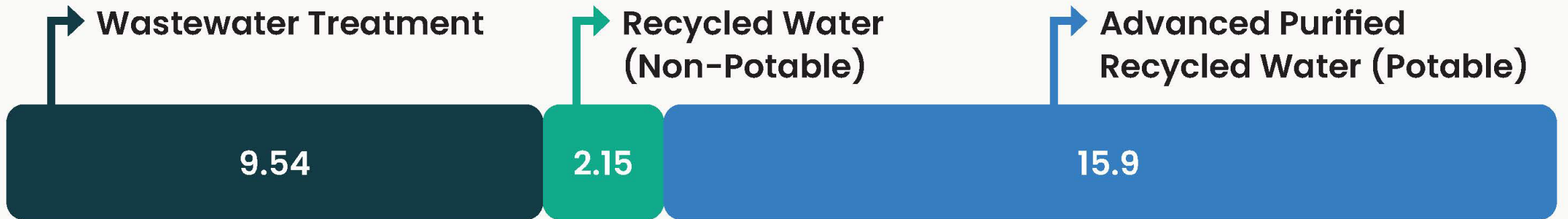
Construction: Underway

Estimated Completion: 2024



ENERGY DEMANDS

● Annual Average (GWh/yr)



Advanced purified
recycled water production
**INCREASES ENERGY
DEMAND BY ~136%**



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THANK YOU

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