The Groundwater Replenishment System
Final Expansion Project

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by
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ORANGE COUNTY WATER DISTRICT (OCWD)

- Formed in 1933 by California Legislature
  - Manage the OC Groundwater Basin
  - Protect rights to Santa Ana River water
- Provide groundwater
  - 19 municipal and special water districts
  - 2.5 million customers in north & central OC
- Basin provides 77% of the water supply for north & central OC
OCWD and the Groundwater Replenishment System
Highly Treated Wastewater

Microfiltration (MF)

Reverse Osmosis (RO)

Ultraviolet Light (UV) with Hydrogen Peroxide

Backwash Sent to OC San

Brine Sent to OC San

Seawater Barrier (36 well sites)

Recharge Basins in Anaheim
Current GWRS Facility:
- Produces **100 MGD** of purified water
- Influent is from OCSD Plant No. 1
- Designed to accommodate a final expansion

Expanded GWRS Final Expansion Facility:
- Will produce **130 MGD** of purified water
- Influent will be from OC San Plant No. 1 and OC San Plant No. 2 (Huntington Beach)
- Includes Conveyance Facilities from OC Sab Plant No. 2
- Includes segregated non-reclaimable influent flows
Construction Phase of the GWRSFE Project

- Design Completed in February 2019
- Construction Awarded to Shimmick Construction Company, Inc. in November 2019
- Construction Contract Amount: $199.9 million
- Construction Completion: February 2023
Questions?

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