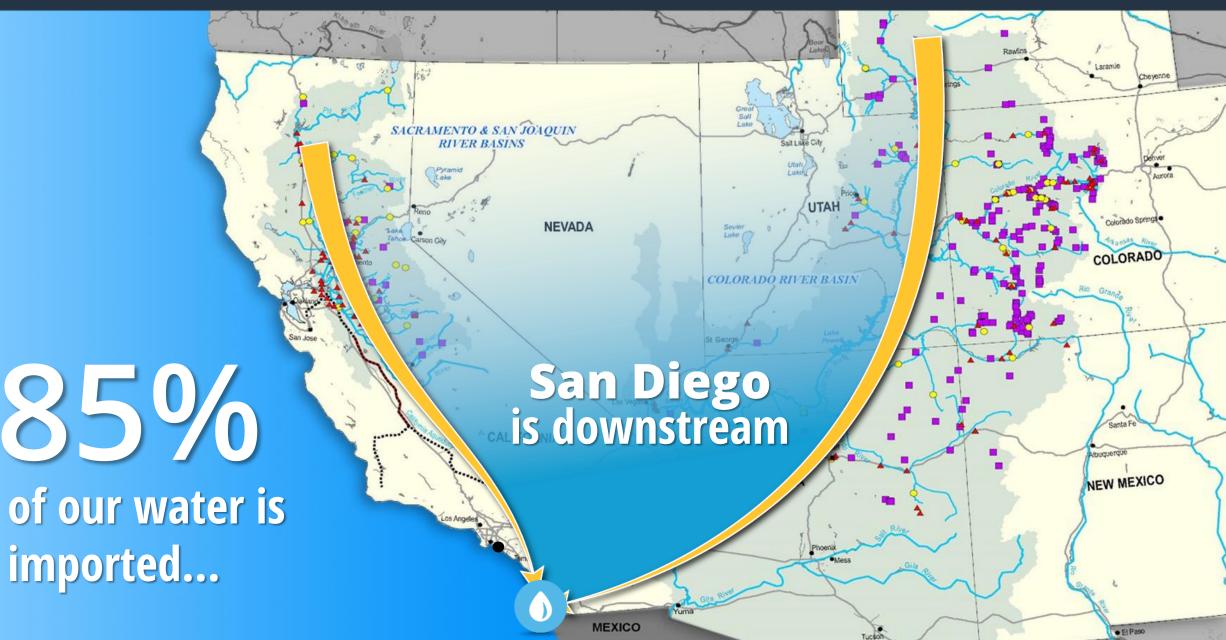
Pure Water San Diego Program Public Utilities Department



Solution San Diego's **Water Supply**



SD We Face Numerous Water Challenges



- Limited local & imported supplies
- Population growth
- Bay Delta constraints

- Natural disaster risk
- Rising imported water costs

2000

Recurring drought

\$1300

2018

Solution Multi-faceted **Approach**



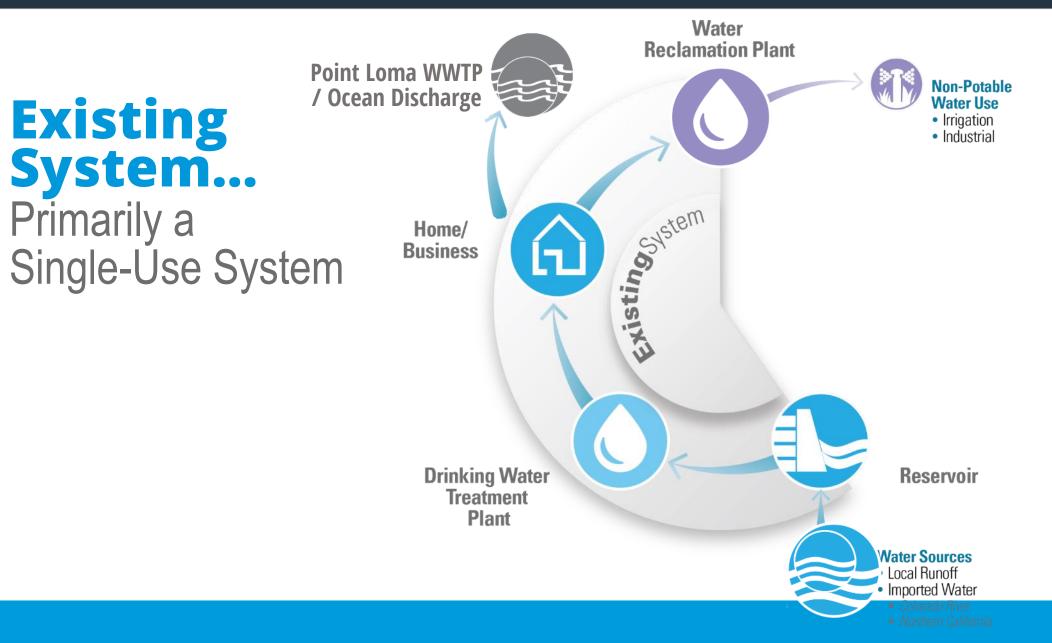
ConservationDesalination

Groundwater
 Development

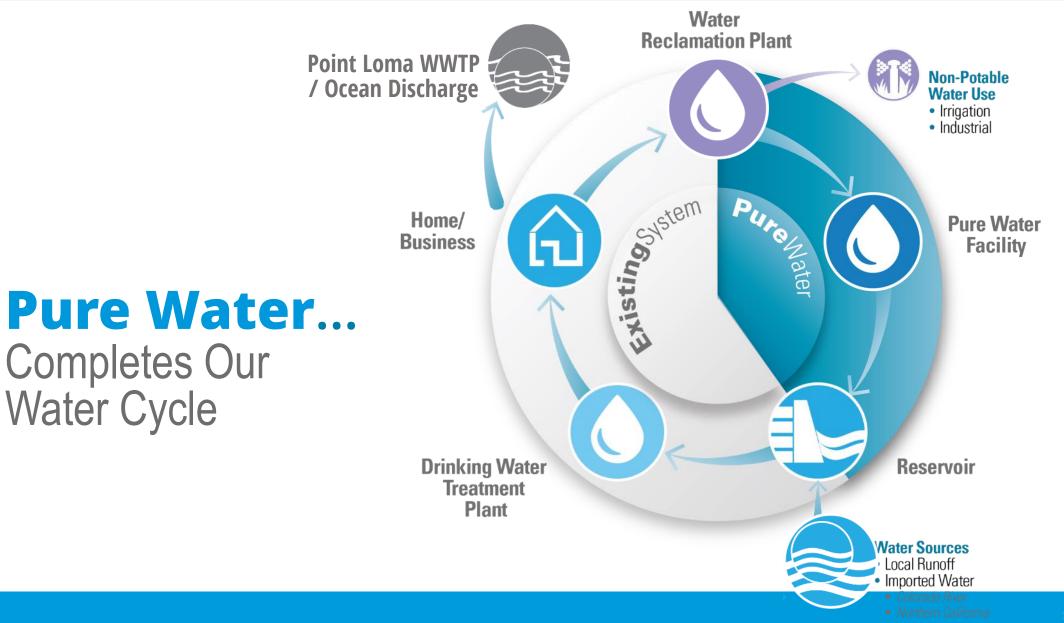
Recycled Water

Pure Water
 Program

San Diego's Water Supply System



San Diego's Water Supply System



SD Pure Water Runs a Successful Demonstration Facility



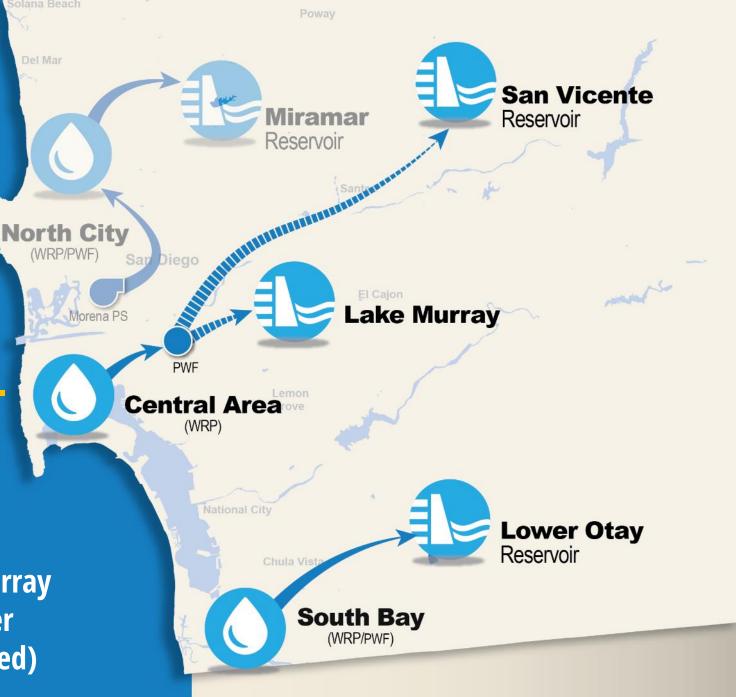
- 50,000 lab tests: Met all standards
- Water quality: Exceptional
- Energy use: Renewable

Poway Pure Water will produce Miramar Reservoir Santee 1/3 **North City** (WRP/PWF) mants El Cajon of your water **locally** Morena PS Grove Phase 1 2023 Completion 30 mgd North City PWF to Miramar

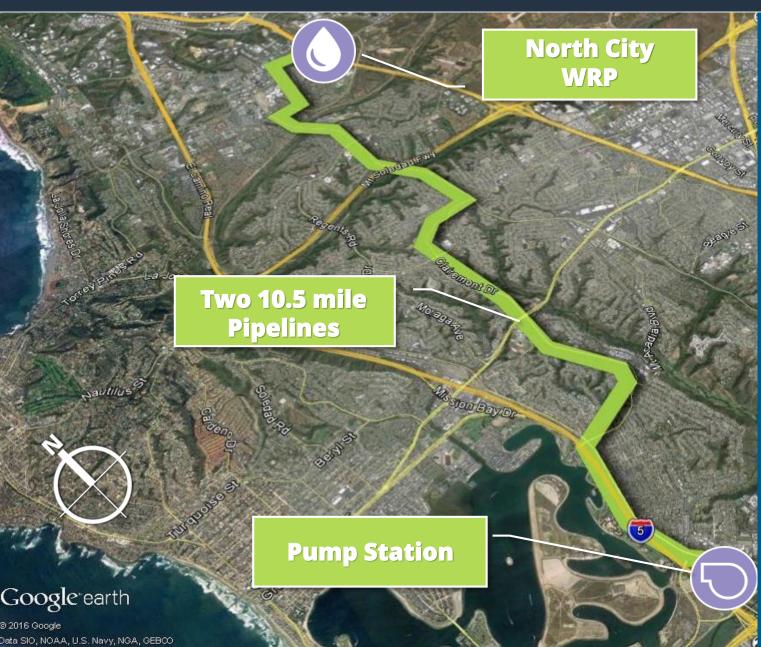
Pure Water will produce

Phases 2 & 3

- 2035 Completion
- 53 mgd
- Central Area PWF to San Vicente or Lake Murray
- South Bay PWF to Lower Otay Reservoir (if needed)



Solution Morena Pump Station and Pipelines



- Conveys wastewater to North City Water Reclamation Plant (WRP)
- Supports Phase I Pure Water and recycled water production
- Trenchless construction will be used to avoid:
 - environmentally sensitive areas
 - freeway crossings
- Design completion: Early 2019
- Construction: 2019 2023

Solution North City WRP Expansion

Pure Water Facility CWRP rena Pipeline

Treats wastewater to recycled water standards Expansion nearly doubles the amount of recycled water produced to meet needs of: Pure Water Facility Recycled Water System Design Completion: Early 2019 Construction: 2019 - 2023

so North City Pure Water Facility

Pure Water Facility

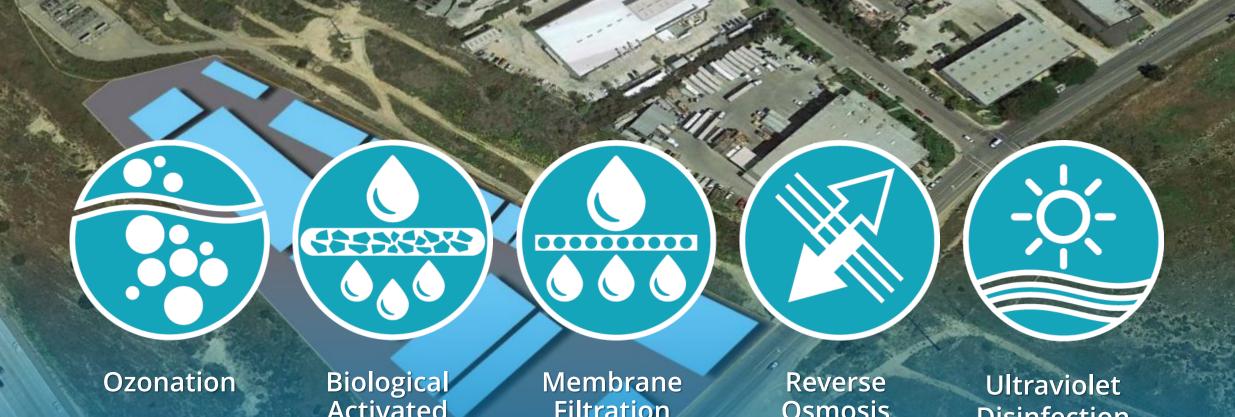
NCWRP

 Treats recycled water to produce 30 mgd of purified water

 Includes a proven 5-step advanced water purification treatment process

 Design Completion: Late 2018
 Construction: 2019 – 2023

SD North City Pure Water Facility



Activated Carbon **Filters**

Filtration

Osmosis

Disinfection /Advanced Oxidation

Construction completed in 2023



SD North City Pure Water Pump Station and Pipeline

Miramar

Reservoir

~8-miles of Pipeline

805

Pure Water to Miramar Reservoir via:
Pump Station
Pipeline

163

Pump Station

Pure Water Facility

Google

SD Miramar Reservoir

Miramar Water Treatment Plant The purified water:

- Is released via underwater pipeline in the reservoir
- Will blend with imported and local water supplies
- Design Completion: Early 2019
- Construction: 2019 2023

De-chlorination Facility

Solution North City Renewable Energy

Renewable Energy

Pure Water

Miramar Landfill

Metro Biosolids Center **Produces Renewable Energy**

Supports GHG reduction

~16 MW

Sustainability is Key



Pure Water provides the City with a safe, reliable and sustainable water supply.

🔊 Who Supports Pure Water?



SD What Can I Do?

