Pure Water San Diego Program

Public Utilities Department
of our water is imported...

San Diego’s Water Supply

San Diego is downstream

85%
We Face Numerous **Water Challenges**

- Limited local & imported supplies
- Population growth
- Bay Delta constraints
- Natural disaster risk
- Rising imported water costs
- Recurring drought

**Imported water cost per acre-foot**

- **2000**
  - $400
- **2019**
  - $1300
Multi-faceted Approach

- Conservation
- Desalination
- Groundwater Development
- Recycled Water
- Pure Water Program
Existing System...
Primarily a Single-Use System

Pure Water...
Completes Our Water Cycle

San Diego’s Water Supply System
Pure Water will produce $\frac{1}{2}$ of your water locally

**Phase 2**
- 2035 Completion
- 53 mgd
- Central Area PWF to San Vicente or Lake Murray
Pure Water Runs a Successful Demonstration Facility

- 50,000 lab tests: Met all standards
- Water quality: Exceptional
North City will produce 30 mgd of purified water.

100% Design Completed on all Phase 1 projects.

MBC = Metro Biosolids Center
NCWRP = North City Water Reclamation Plant
NCPWF = North City Pure Water Facility
Morena Pump Station and Pipelines

- Conveys wastewater to North City Water Reclamation Plant (WRP)
- Supports Phase 1 purified water and recycled water production
- Trenchless construction will be used to avoid:
  - environmentally sensitive areas
  - freeway crossings
- Construction is underway
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

Early site work is being completed

Construction is underway
- Treats recycled water to produce 30 mgd of purified water
- Includes a proven 5-step advanced water purification treatment process
- Construction began in April 2021
North City Pure Water Facility

- Ozonation
- Biological Activated Carbon Filters
- Membrane Filtration
- Reverse Osmosis
- Ultraviolet Disinfection / Advanced Oxidation
North City Pure Water Pipeline

- Pure Water to Miramar Reservoir via:
  - Pump Station
  - Pipeline
- Water will be dechlorinated before release to reservoir
- Construction is underway

~8-miles of Pipeline

Dechlorination Facility

Pump Station

Miramar Reservoir

Pure Water Facility
The purified water:
- Is released via underwater pipeline in the reservoir
- Will blend with imported and local water supplies

The Miramar Reservoir Pump Station is being upgraded
Pure Water provides the City with a safe, reliable and sustainable water supply.
Who Supports Pure Water?
Want to take a guided tour of the Pure Water Demonstration Facility? Learn all about the five-step process from members of the Pure Water team by viewing the Pure Water Virtual Tour at one of the links below.

virtualtour.purewatersd.org
YouTube.com/PureWaterSD
What Can I Do?

Sign up for construction updates and take the virtual tour

purewatersd.org
phase1.purewatersd.org

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