Pure Water San Diego Program

Pure Water Facility Tour
85% of our water is imported...

San Diego is downstream
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

<table>
<thead>
<tr>
<th>Year</th>
<th>Cost</th>
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<tbody>
<tr>
<td>2000</td>
<td>$400</td>
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<tr>
<td>2019</td>
<td>$1300</td>
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Multi-faceted Approach

- Conservation
- Desalination
- Groundwater Development
- Recycled Water
- Pure Water Program
What is Pure Water San Diego?

- Safe
- Reliable
- Cost-effective
Existing System…
Primarily a Single-Use System

Pure Water… Completes Our Water Cycle

Pure Water Facility

Water Sources
- Local Runoff
- Imported Water
  - Colorado River
  - Northern California

Reservoir

Drinking Water Treatment Plant

Home/Business

Point Loma WWTP / Ocean Discharge

Non-Potable Water Use
- Irrigation
- Industrial

Water Reclamation Plant
Pure Water Runs a Successful Demonstration Facility

- **50,000** lab tests: **Met all standards**
- **Water quality:** **Exceptional**
Pure Water will produce 1/3 of your water locally.

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)
Two 10.5 mile Pipelines

Pump Station

North City WRP

- 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
North City WRP Expansion

- 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
North City Pure Water Facility & Pump Station

- Treats recycled water to produce 30 mgd of purified water
- Includes a proven 5-step advanced water purification treatment process
- Construction Start: 2019
North City Pure Water Pipeline

Pure Water Facility

~8-miles of Pipeline

Pump Station

Miramar Reservoir

Pure Water to Miramar Reservoir via:
- Pump Station
- Pipeline
The purified water:

- Is released via underwater pipeline in the reservoir
- Will blend with imported and local water supplies
What Can I Do?

Join our mailing list and sign a support card

www.purewatersd.org