

Water Purification | Demonstration Project

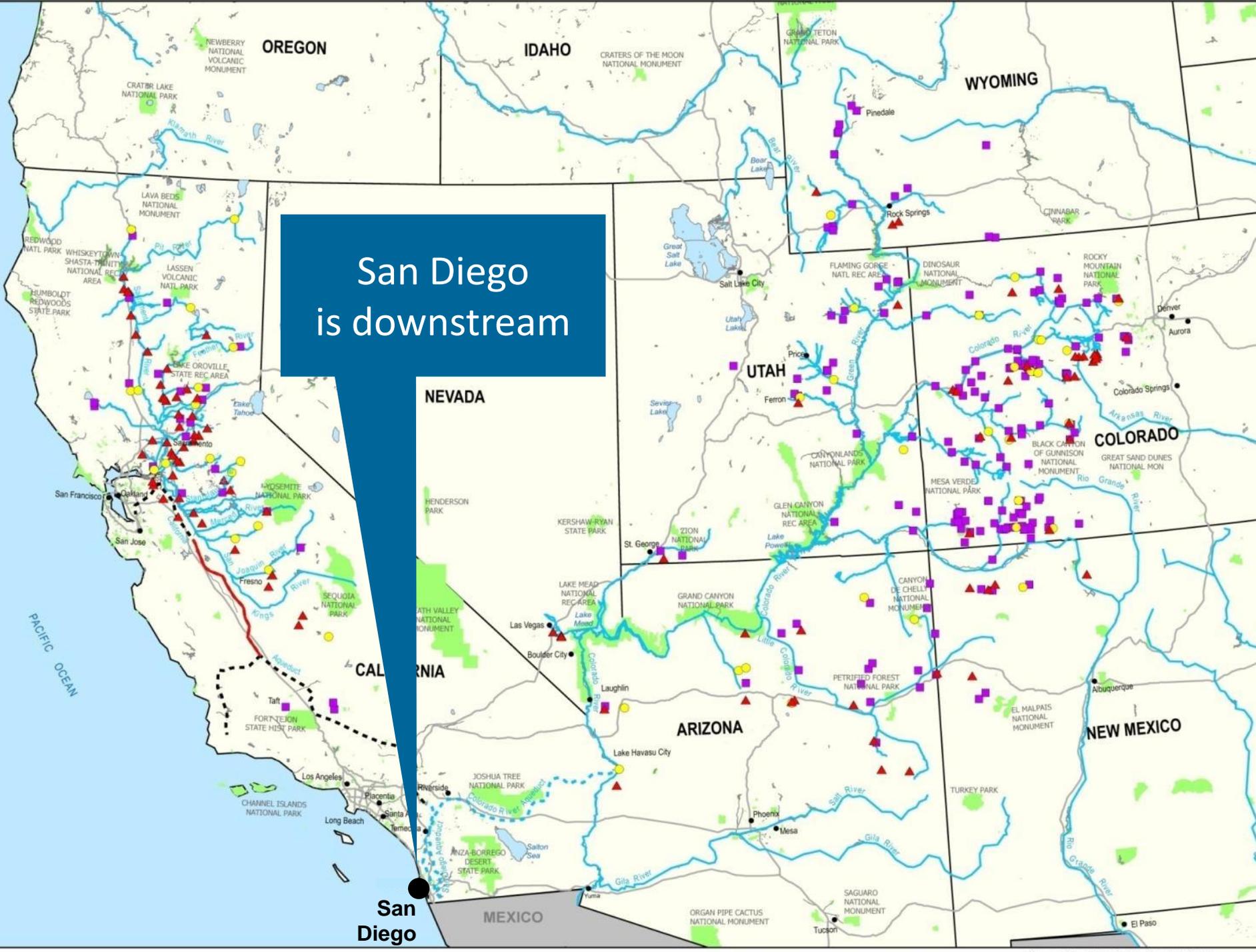


Welcome to the Advanced Water Purification Facility

Today you will learn about...

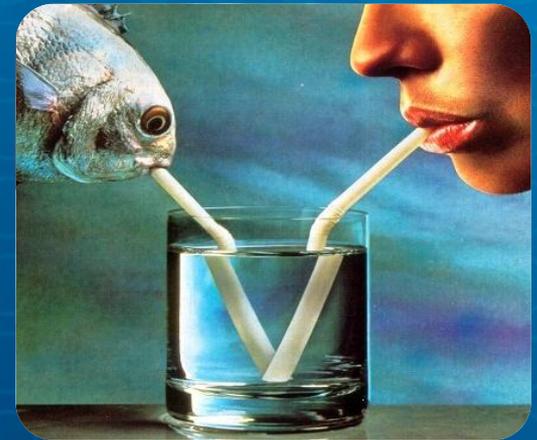
- **San Diego's need for local, reliable water sources**
- **Use of water purification technology**
- **The multiple treatment steps of the water purification process**

San Diego is downstream



Water Supply Challenges:

- Limited local supplies
- Increasing cost of imported water
- Pumping restrictions
- Recurring drought conditions
- Internal population growth
- Natural disasters



Taking Action...

- Water conservation program
- Local water supply development
 - ✓ Groundwater
 - ✓ Recycled water
 - ✓ Purified water



Water Purification Demonstration Project

Components:

- Operate 1 MGD facility
- San Vicente Reservoir study
- Define regulatory requirements
- Conduct energy and economic analysis
- Public education and outreach

Outcomes:

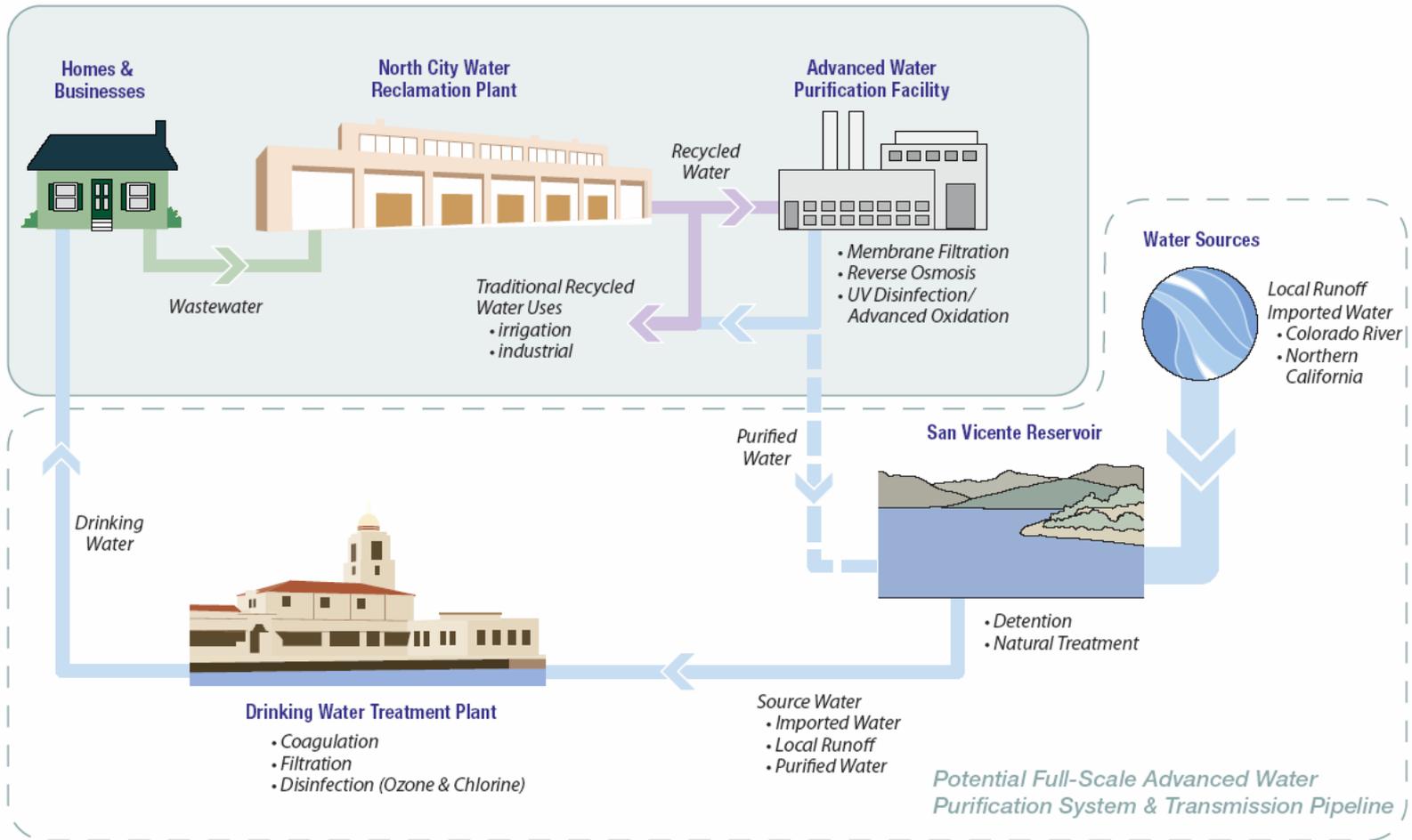
- Validate treatment process
- Gain regulatory approval
- Evaluate cost
- Public acceptance



City of San Diego's Water Purification Demonstration Project

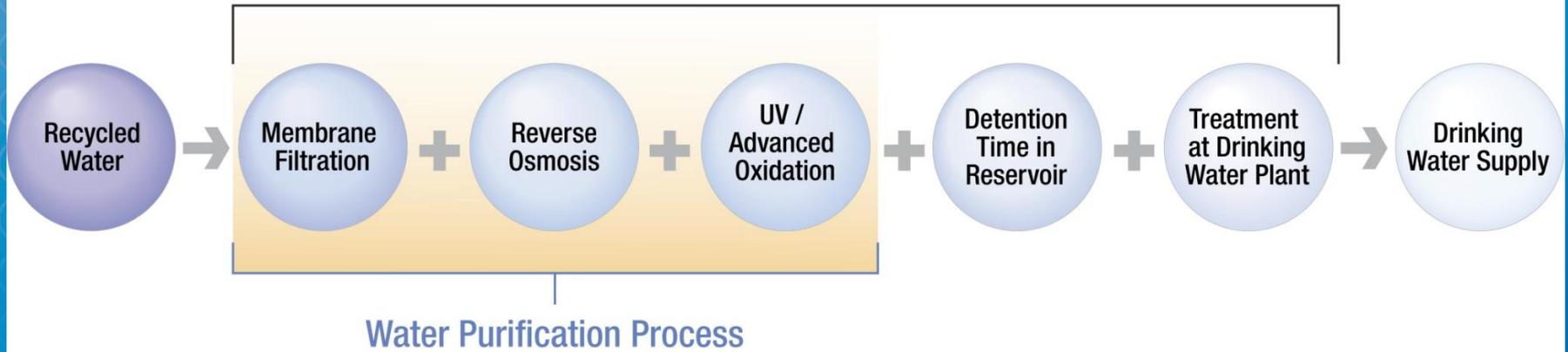
Purification Process

Demonstration-Scale Project



Purification Process

Multi-Barrier Water Purification Steps



Microfiltration & Ultrafiltration



Reverse Osmosis



Ultraviolet Light / Hydrogen Peroxide



A look inside...

This video explains the treatment processes you will see on the tour



Water Purification | Demonstration Project



**This tour is designed to
bring water to LIFE
and bring KNOWLEDGE
about water to a THIRSTY
San Diego.**

www.purewatersd.org