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
Purification Process

Multi-Barrier Water Purification Steps

1. Recycled Water
2. Membrane Filtration
3. Reverse Osmosis
4. UV / Advanced Oxidation
5. Detention Time in Reservoir
6. Treatment at Drinking Water Plant
7. Drinking Water Supply

Water Purification Process

Microfiltration & Ultrafiltration

Reverse Osmosis

Ultraviolet Light / Hydrogen Peroxide
A look inside…

This video explains the treatment processes you will see on the tour
This tour is designed to bring water to LIFE and bring KNOWLEDGE about water to a THIRSTY San Diego.

www.purewatersdsd.org