



Presentation Outline

- > Background
- >2007 Water Supply Strategy
- >2013 Water Supply Strategy



The Region's Water Supply

Population

• 2011: 553,000 people

• 2031: 729,000 people

≻Water System

- Integrated Urban System
- 16 Rural Systems
- 25% Groundwater
- 75% Surface Water





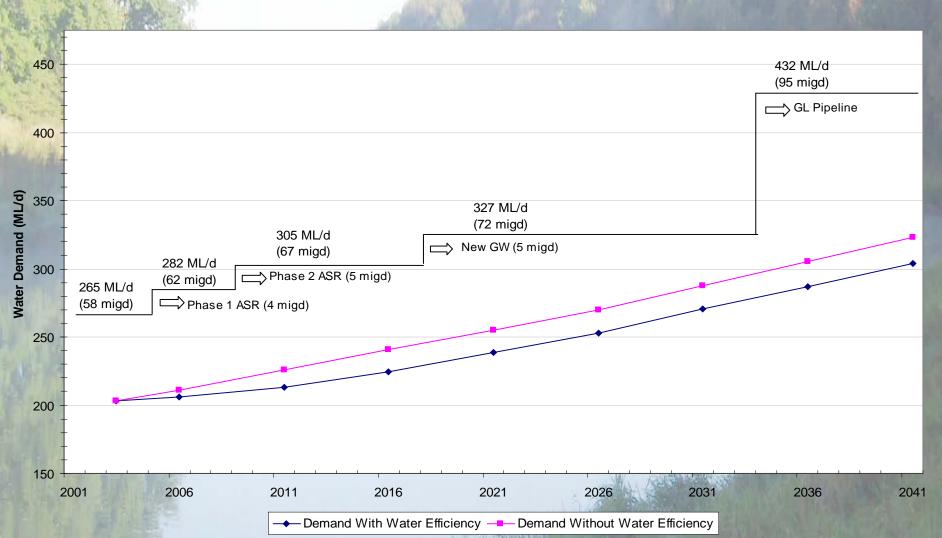
Water Supply 2007 Long Term Strategy

- >2007 Water Supply Master Plan
 - Confirmed the 2000 Strategy, including:
 - Construct 45 MLD Aquifer Storage and Recovery (ASR) facility in two phases
 - Develop up to 22.5 MLD new groundwater resources by 2018
 - Plan/construct Great Lakes Pipeline by 2035 (Lake Erie)
 - Continue with water efficiency efforts



2007 Long Term Strategy

Recommended strategy with maximum week demand effective water efficiency program & water restrictions





Water Supply 2013 Water Supply Master Plan

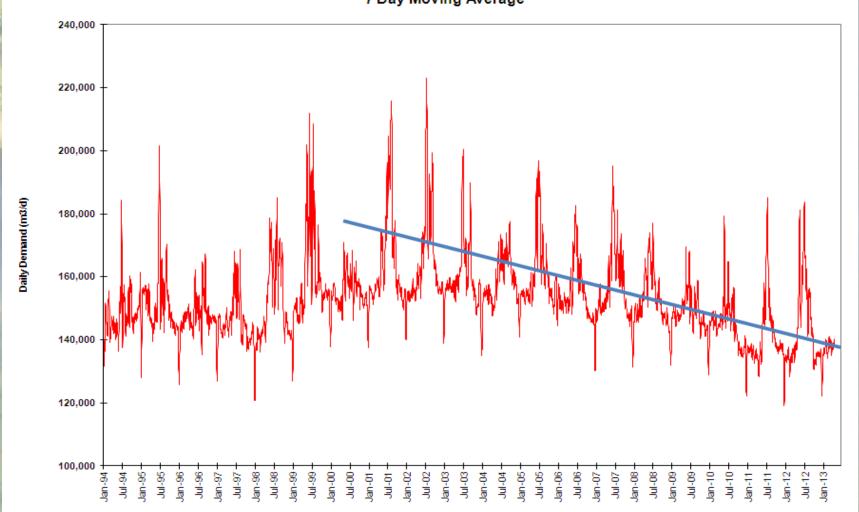
>The Big Shift

- Declining Water Demands in the Region (and in North America)
- Which components of the 2007 Master Plan are still valid?
- What do we do next?



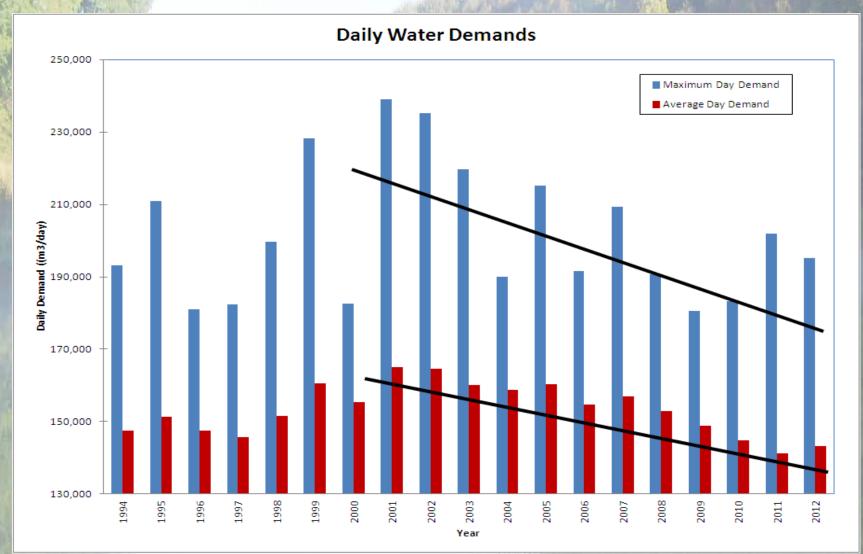
The Shift in Water Demands Long Term Trend

Total Tri-City Water Demand - 1994 to 2013 7 Day Moving Average





The Shift in Water Demands Average Day vs Max Day





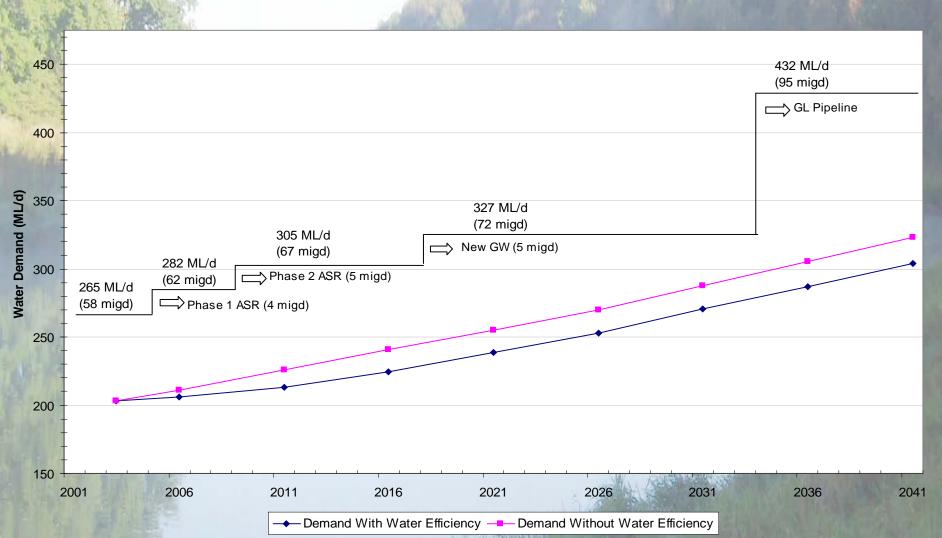
The Shift in Water Demands Why The Drop in Demands?

- Water Efficiency Master Plan Implementation
- Outdoor Water Use By-Law (Max Day)
- Large Users Recycling & Re-Use
- Reduction of Intensive Water Use Industries
- More Efficient Appliances and Fixtures
- More Water-Conscious Public



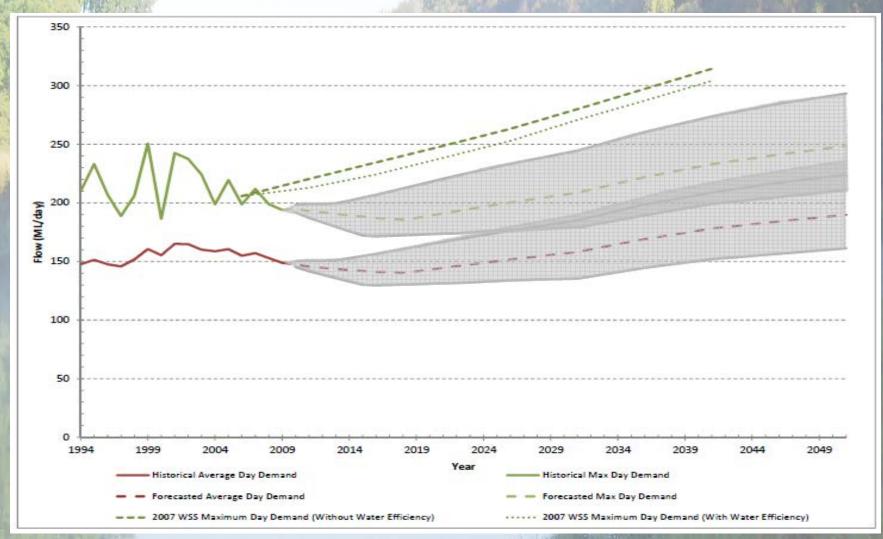
2007 Long Term Strategy

Recommended strategy with maximum week demand effective water efficiency program & water restrictions



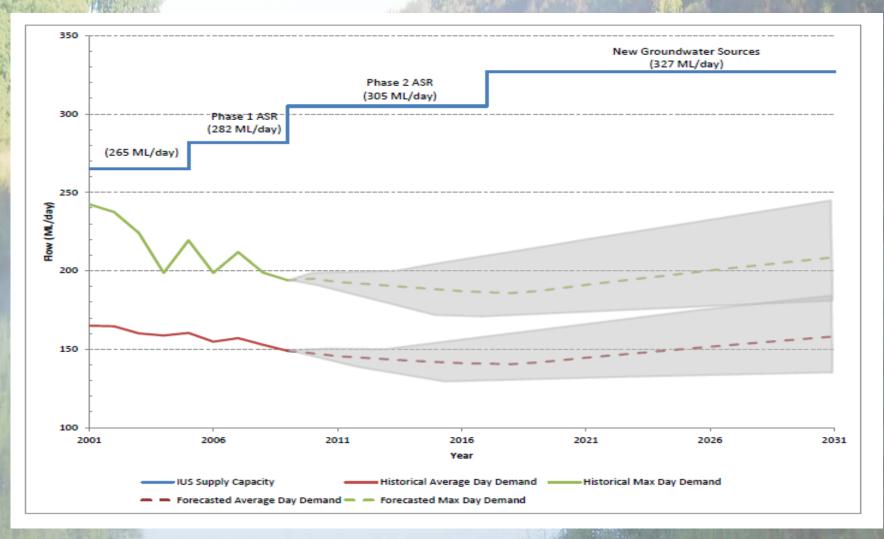


The Shift in Water Demands 2007 WSMP vs 2013 WSMP Estimates





The Shift in Water Demands 2013 WSMP – Future Demand Estimates





Water Supply 2013 Long Term Strategy

- 2013 Water Supply Master Plan
 - Detailed review of all existing water supply sources:
 - Optimize water supply in the local municipalities and pressure zones
 - Tier 3 Water Study optimize water budget
 - Re-evaluate timing Great Lakes Pipeline



Water Supply 2013 Long Term Strategy

- Preliminary Conclusions
 - Shift from growing to sustaining
 - Optimize rehabilitation and replacement of Groundwater Sources
 - Continue with water efficiency efforts
 - Optimize existing water distribution system
 - Close tracking of water demand trends
 - Great Lakes Pipeline can be deferred



Water Supply 2013 Long Term Strategy

Expected Completion

- Late 2013, early 2014
 - Depends on completion of the Tier 3 Study

