Town of Payson
Comprehensive Water Management
PAYSON WATER CHALLENGES

• 43 Drought Sensitive In-town Groundwater Wells
• Growth Pressure on Limited Water Supply
• State Laws Not Conducive to Growth Management vis a vis Available Water Supply
• Surrounding Tonto National Forest Public Lands Off-Limits for Public Water Supply
• Conflict with Downstream Water Rights Holders
• No Nearby Water Supplier for Water Development Partnership
PAYSON WATER OPTIONS  
*(circa 1990)*

- Groundwater – No Additional Within Town Limits
- Out of Town Private Land Groundwater – Available but Politically Unpopular
- Wastewater – Available
- Contaminated Groundwater – Available
- Surface Water – Available but $50M Distant
- Water Conservation
PLAN OF ACTIONS

• 1994 - Pursue Blue Ridge Reservoir Surface Water Supply
• 1998 - Payson Water Resources Management Plan
• 1998 - Construction of Green Valley Park Water Reclamation Project
• 2000 - Construction of WQARF Groundwater Treatment Plant
• 2002 - Enacted Water Conservation Resolution #1742
• 2008 - Partner with SRP for Blue Ridge Reservoir Surface Water Use
GREEN VALLEY PARK
A WATER CONSERVATION PROJECT
A TOWN OF PAYSON &
NORTHERN GILA COUNTY SANITARY DISTRICT JOINT VENTURE
GREEN VALLEY PARK

“The Crown Jewel of Payson”

A Water Reclamation Project
(and so much more!)
11-mile Pipeline; 33”/24” diameter
3MW Hydro Powerhouse at Washington Park
Project Overview

- Tailrace Connection
- Raw Water Pipeline
- New Hydro Generator Facility
- Water Treatment Plant
- Treated Water Pipeline
- In-Town System Improvements
- Aquifer Storage & Recovery Wells
ARRA-FUNDED PIPE PURCHASE
New Hydroelectric Facility

- Raw Waterline Creates a Penstock Perfect for a Hydro Facility
- Study Performed
- Pelton Type Turbine
- 220 kW Power Generation
- Use Green Power Back for Water Treatment Plant
- Reduce purchase of APS Power
- Sell Renewable Energy Credits Nationwide
New Water Treatment Plant

- Early Water Treatment Plant Design & Renderings
Treated Water Improvements
Aquifer Storage & Recovery (ASR) Wells
Questions & Comments?