Town of Payson
Comprehensive Water Management

By: Buzz Walker

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
• Tonto National Forest Public Lands Off-Limits for Public Water Supply
• Conflict with Downstream Water Rights Holders
• No Nearby Water Producer for Water Development Partnership
PAYSON WATER OPTIONS

- Groundwater – No Additional Within Town Limits
- 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
GREEN VALLEY PARK

“The Crown Jewel of Payson”

A Water Reclamation Project
(and so much more!)
Project Location Map
Cragin System Operation
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
- 235 kW Power Generation
- Sell *Green* Power Back to Grid at a Premium
- Buy Power for Plant at Lower Cost
- Net Income for the Town

New Water Treatment Plant

- Early Water Treatment Plant Design & Renderings
Treated Water Improvements

Aquifer Storage & Recovery (ASR) Wells
Questions & Comments?