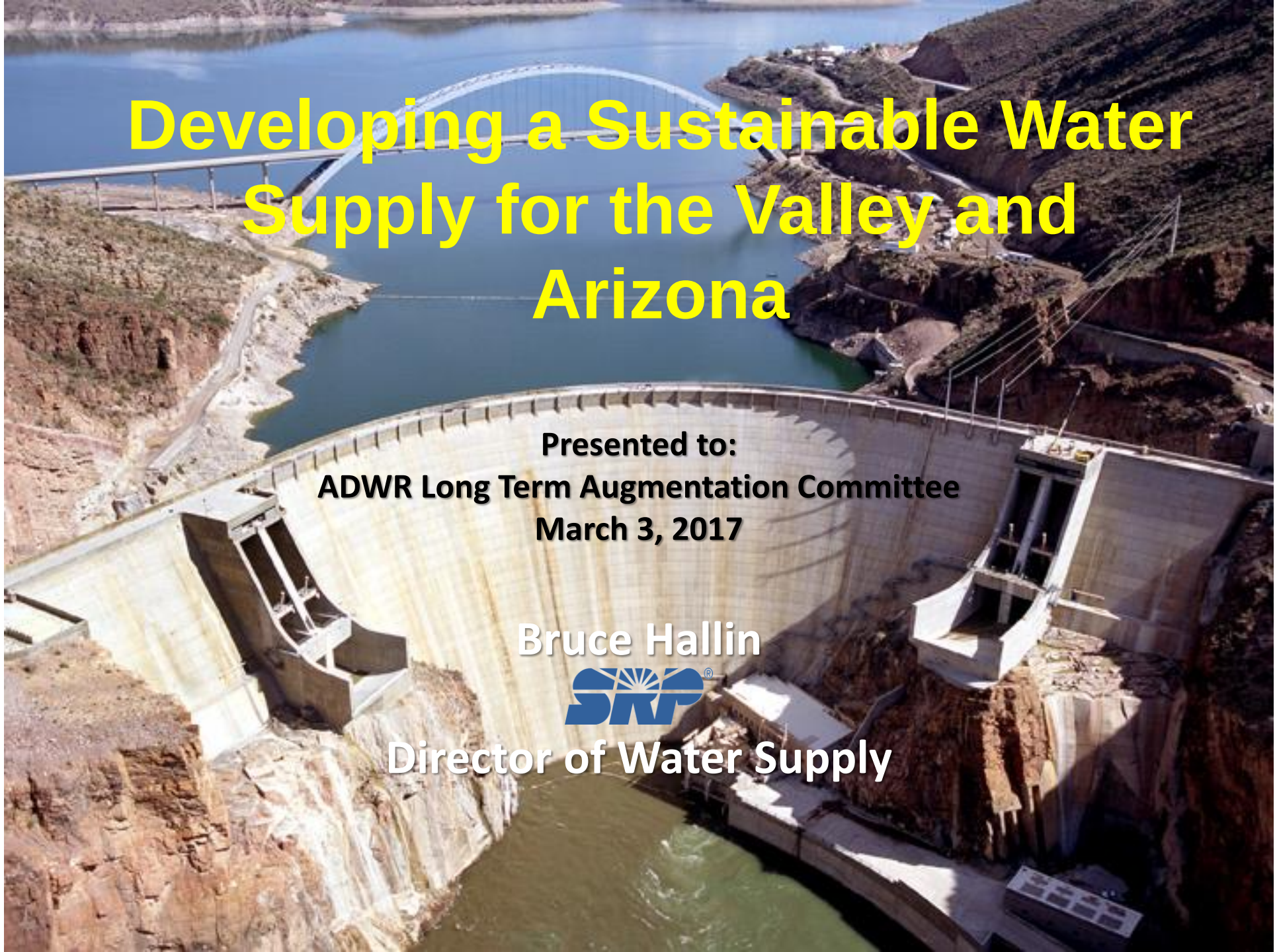


Developing a Sustainable Water Supply for the Valley and Arizona

Presented to:
ADWR Long Term Augmentation Committee
March 3, 2017

Bruce Hallin
SRP
Director of Water Supply

Principles for Project Success

Shared Objectives

- Defined Problem or Need
- Economic Sense/Fair Deal
- User Pays
- Level of Commitment
- Urgency

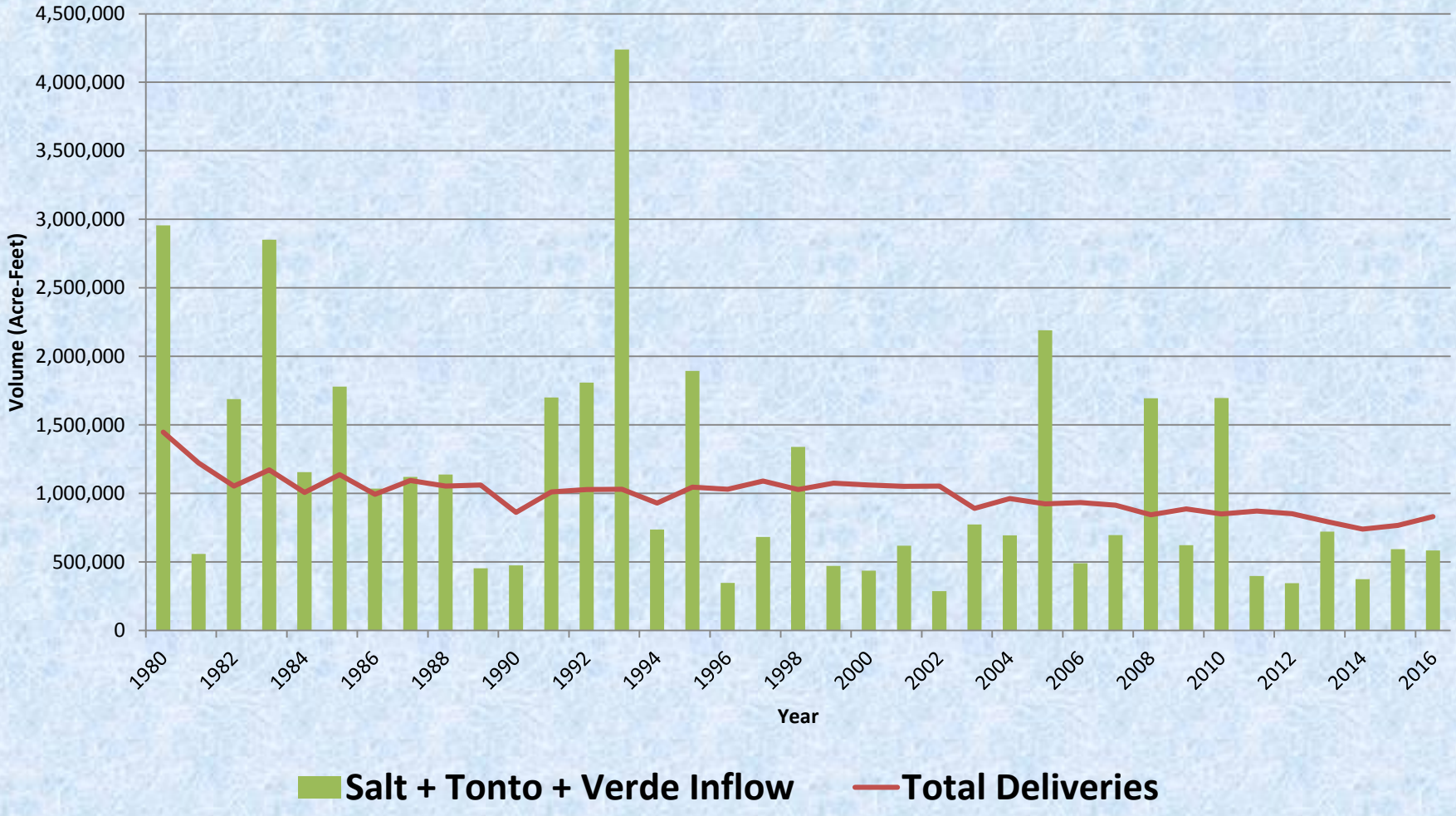
Relationships/Preparedness

- Trust
- Partnerships
- Collaboration
- Planning

Reclamation and Water Supply Development Period

SRP Surface Water Sources

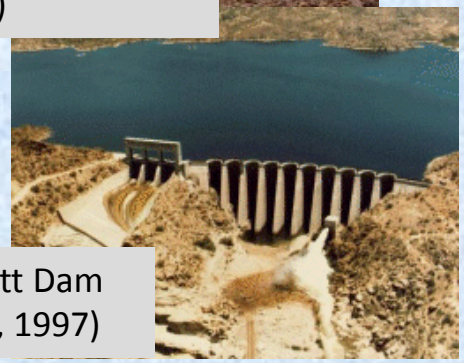
Creating Dependability from Variability



SRP Reservoir Systems

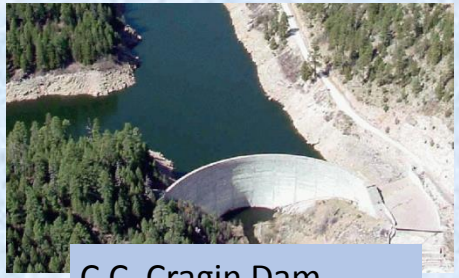
Verde River Dams

Horseshoe Dam (1951)



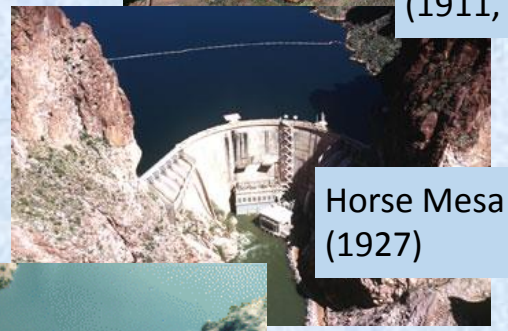
Bartlett Dam (1939, 1997)

East Clear Creek Dam



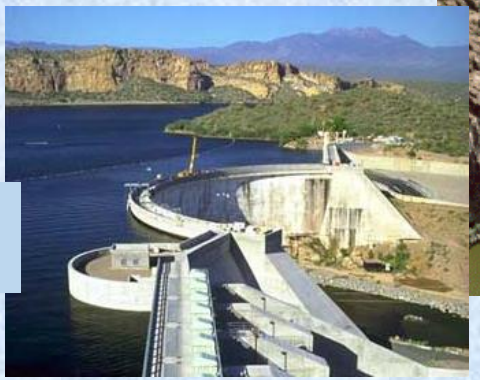
C.C. Cragin Dam (1965)

Roosevelt Dam (1911, 1996)



Horse Mesa Dam (1927)

Mormon Flat Dam (1925)

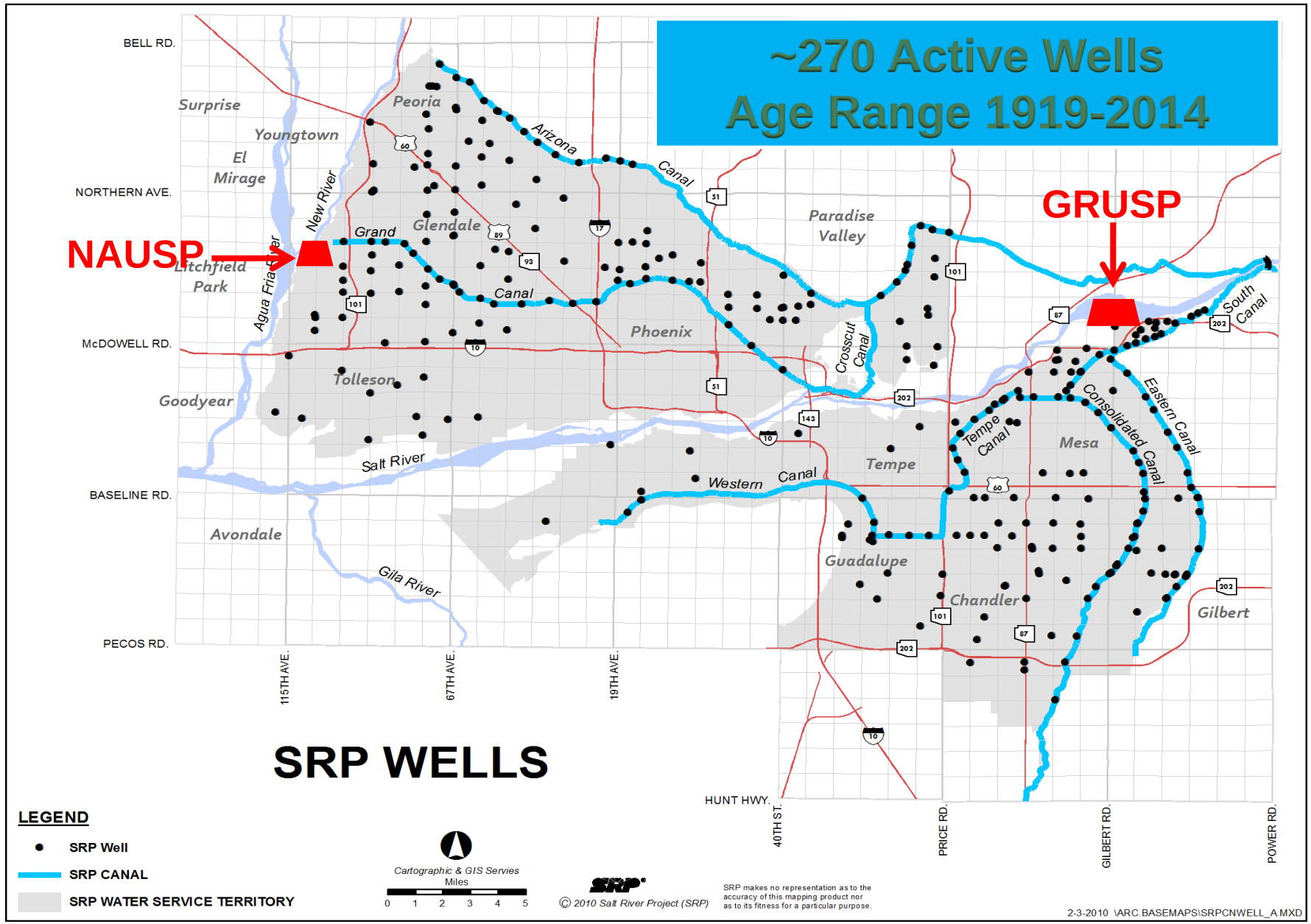


Stewart Mt Dam (1930, 1992)

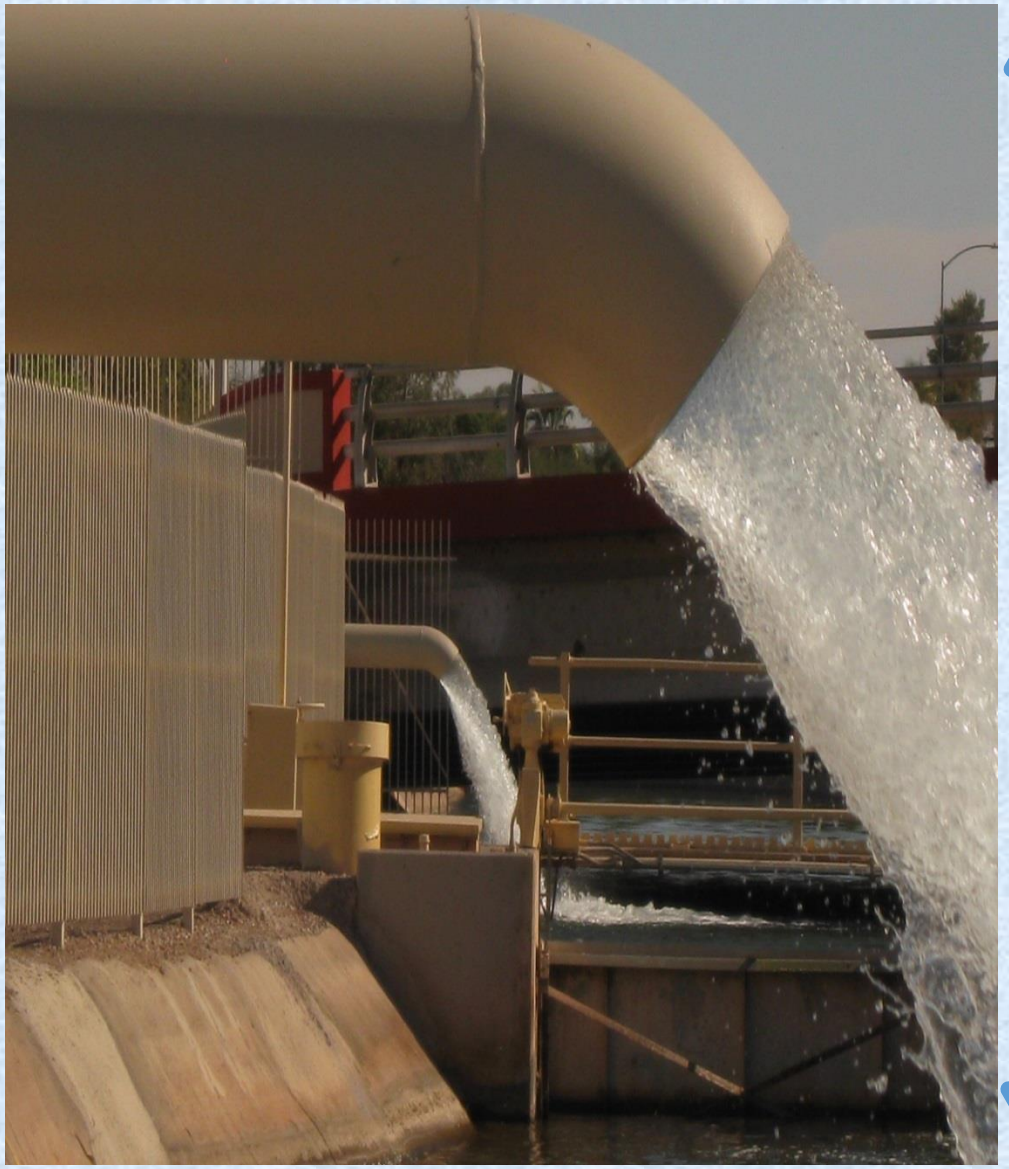
Salt River Dams

Regulatory Development Period

SRP Wells & Recharge Facilities

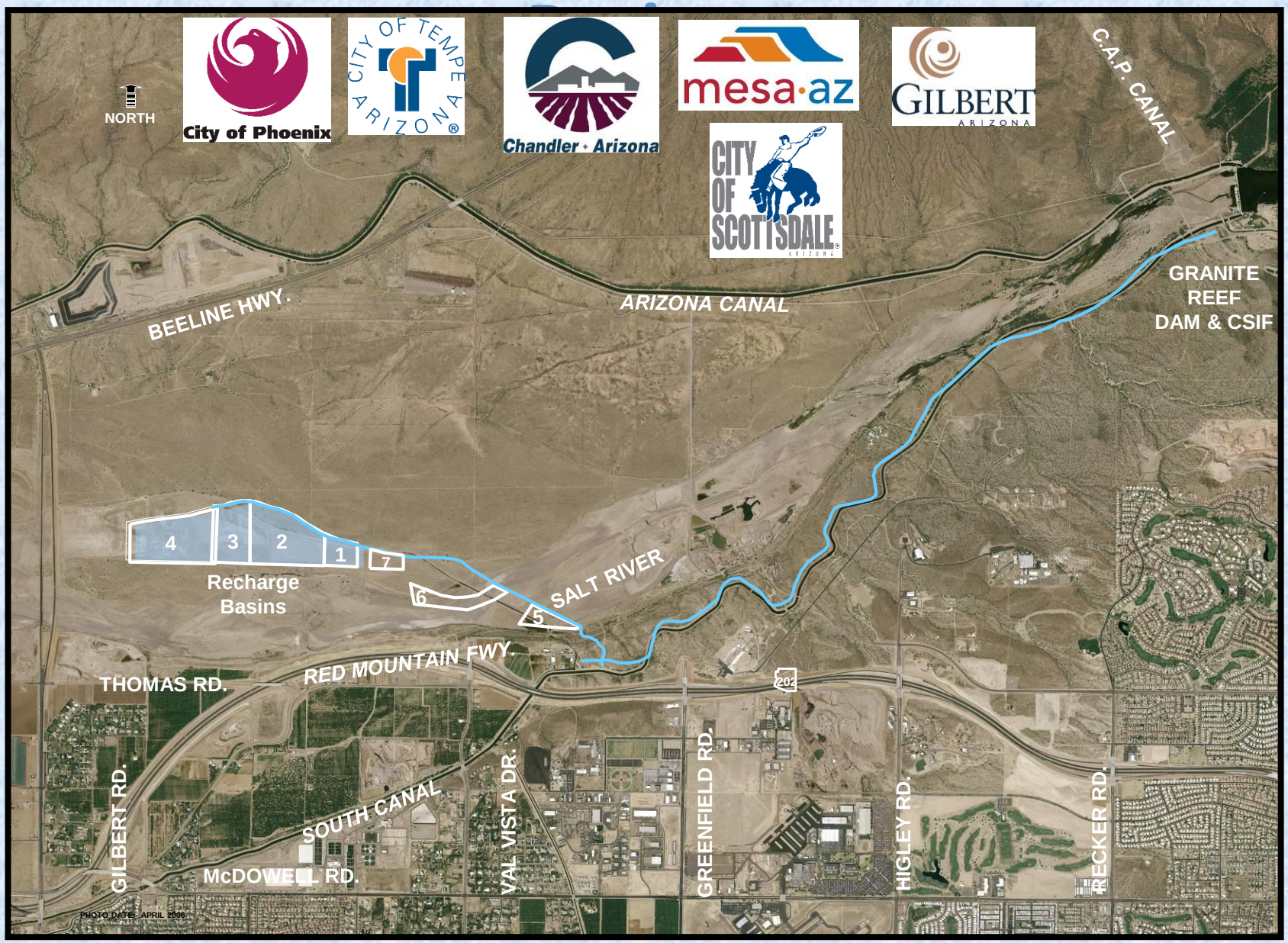


Typical Water Well



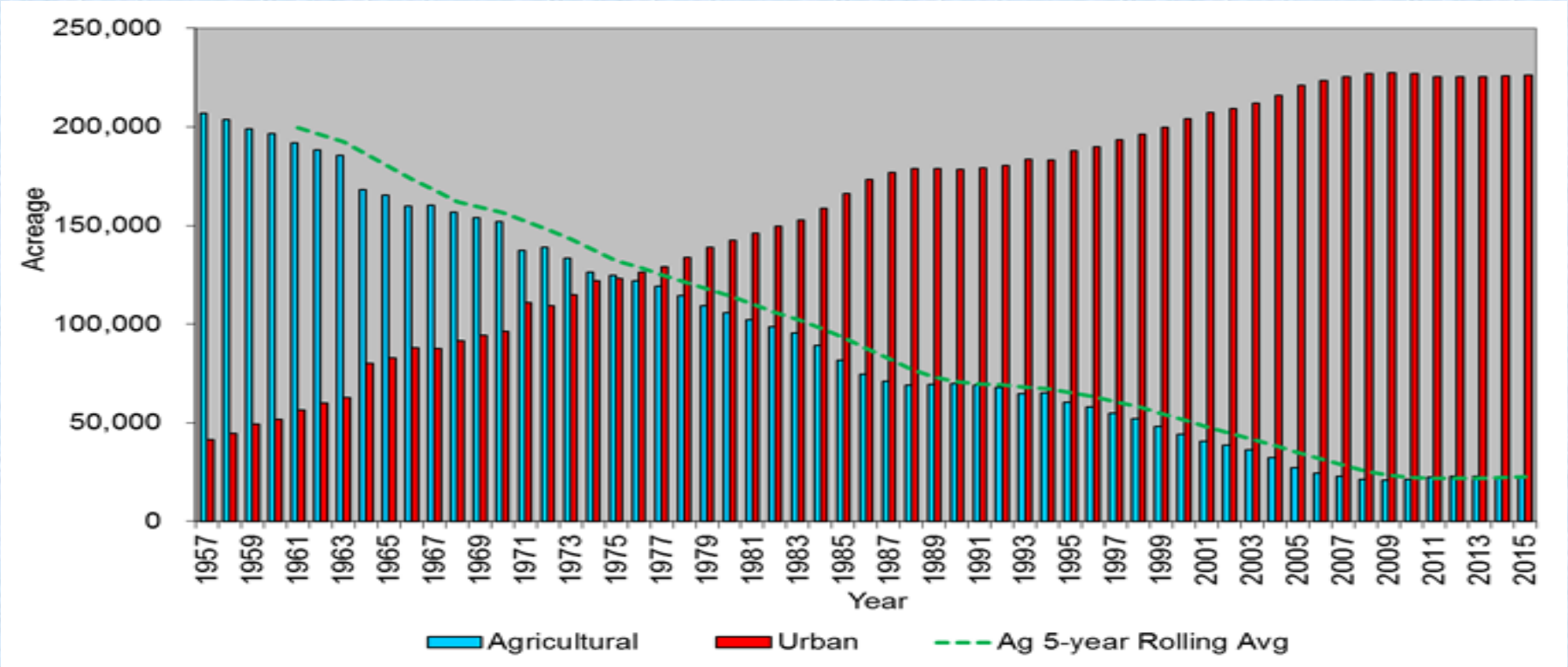
1000 Feet

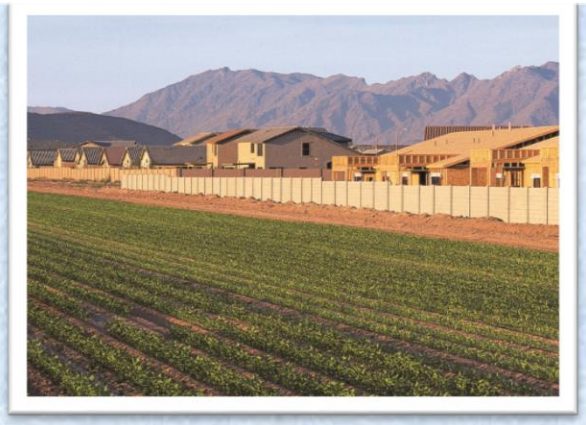
Granite Reef Underground Storage



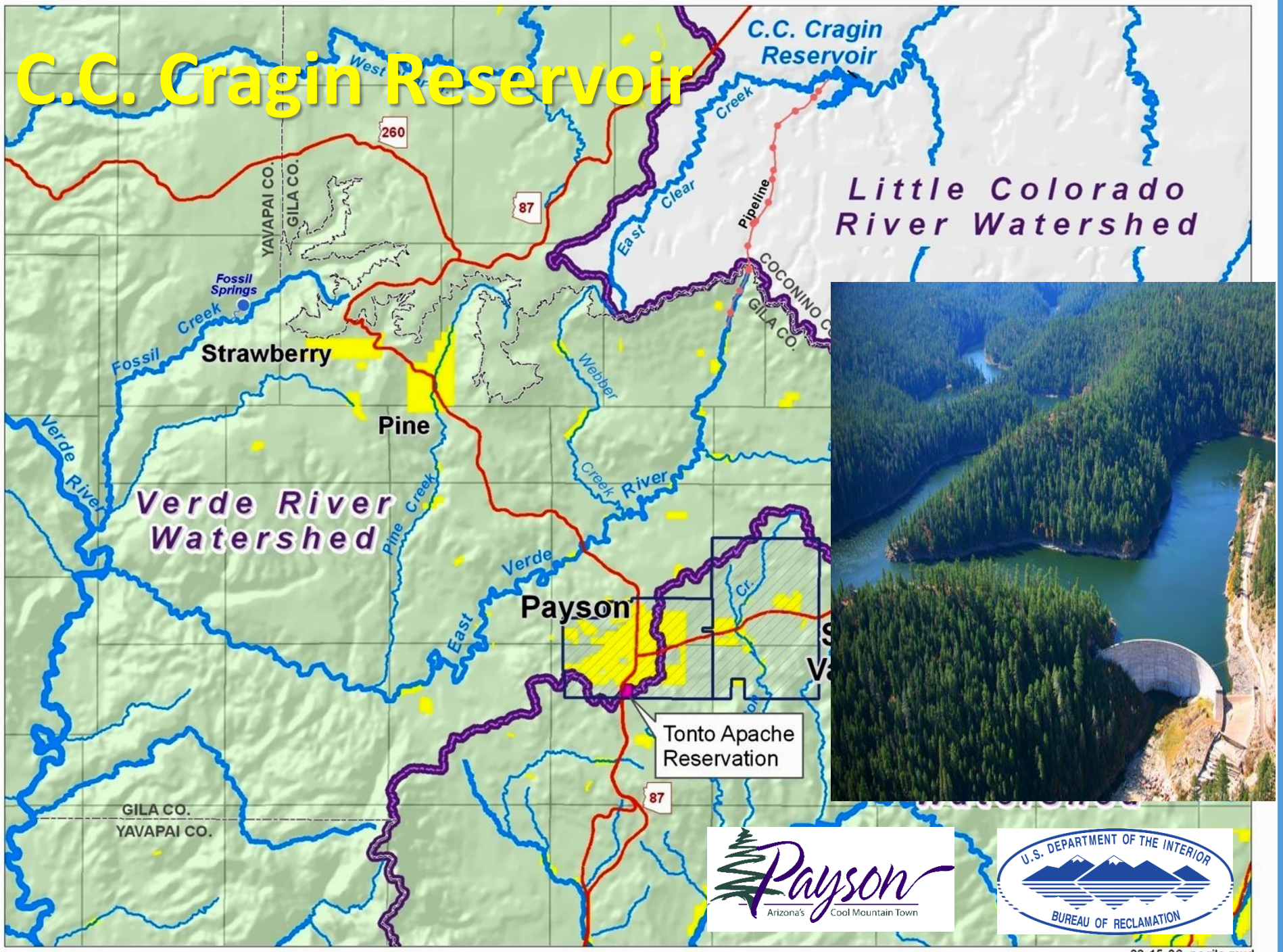
SRP Lands Are More than 90% Urban

Major transition from agricultural to urban land use from 1957 - 2016

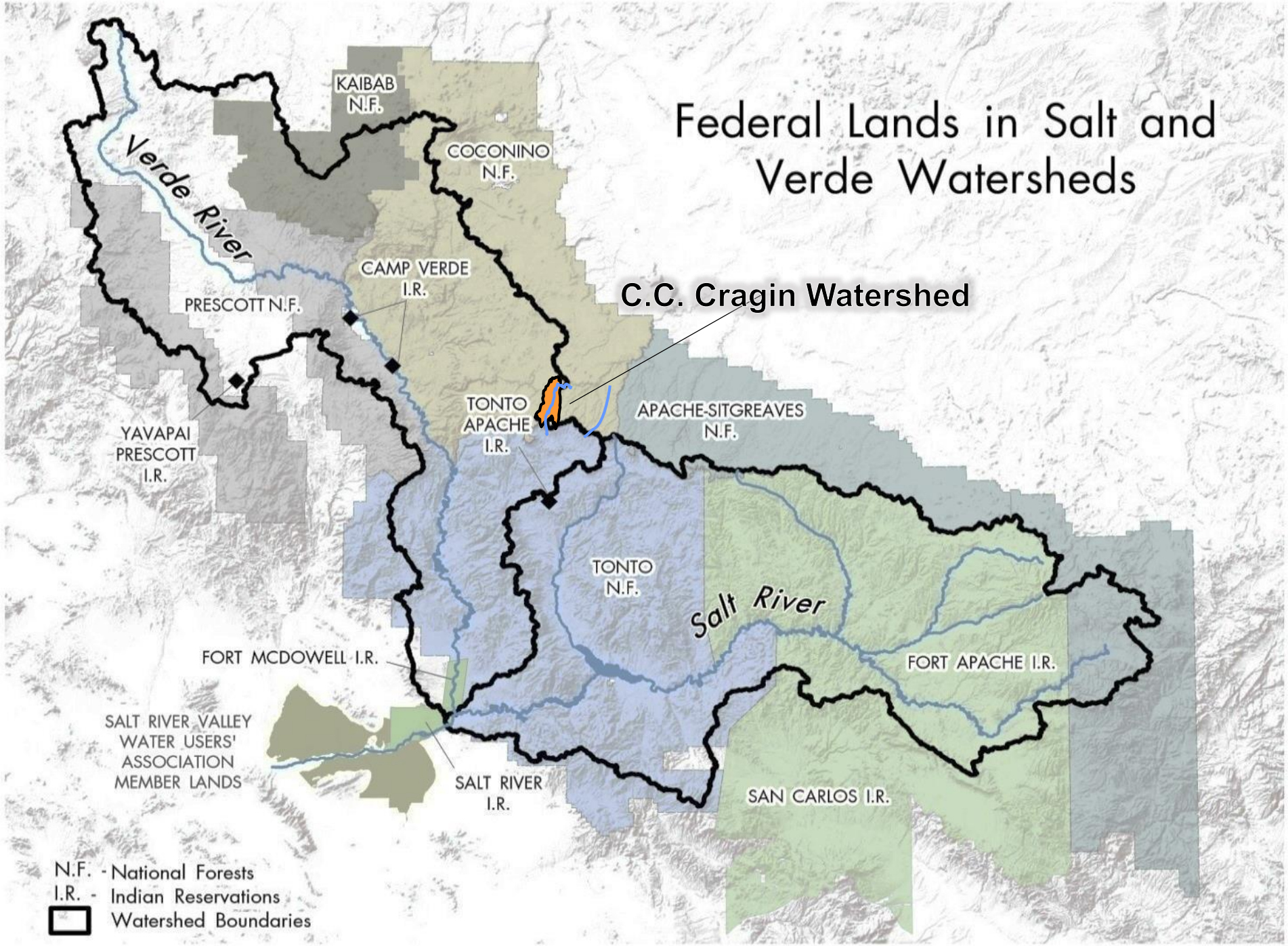




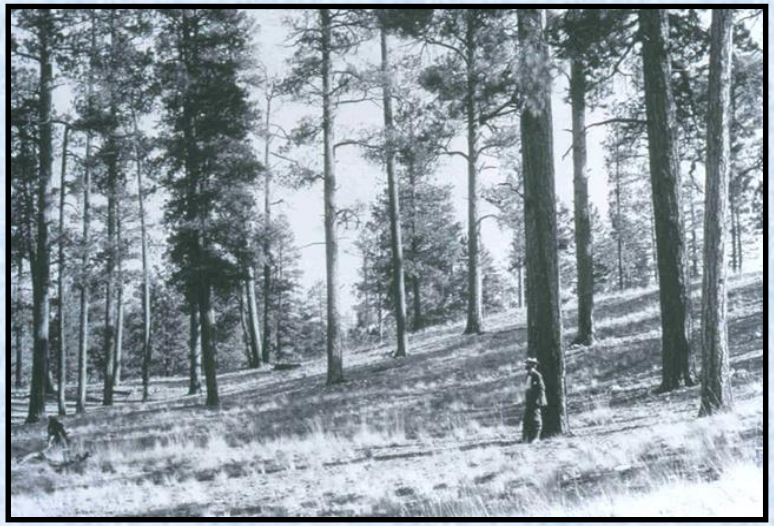
C.C. Cragin Reservoir



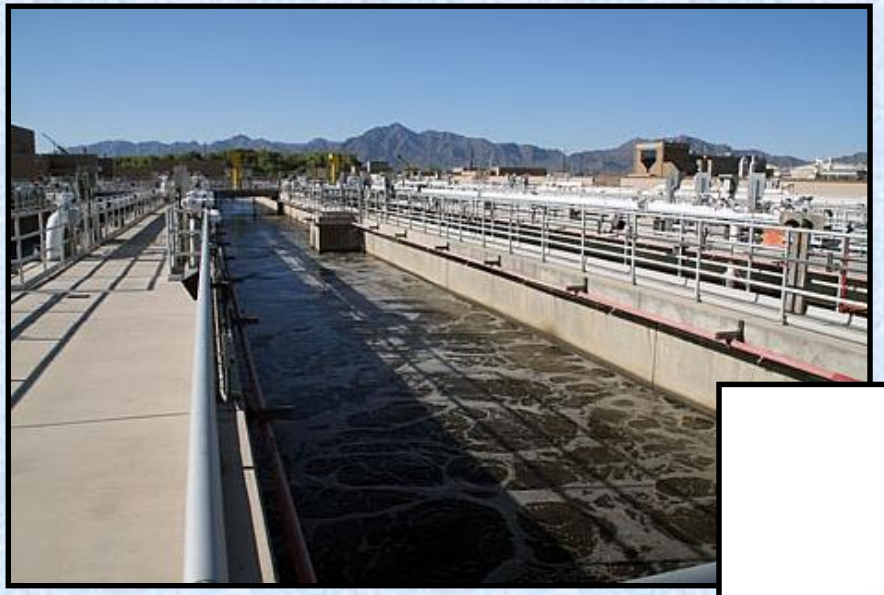
Resource Sustainability Period

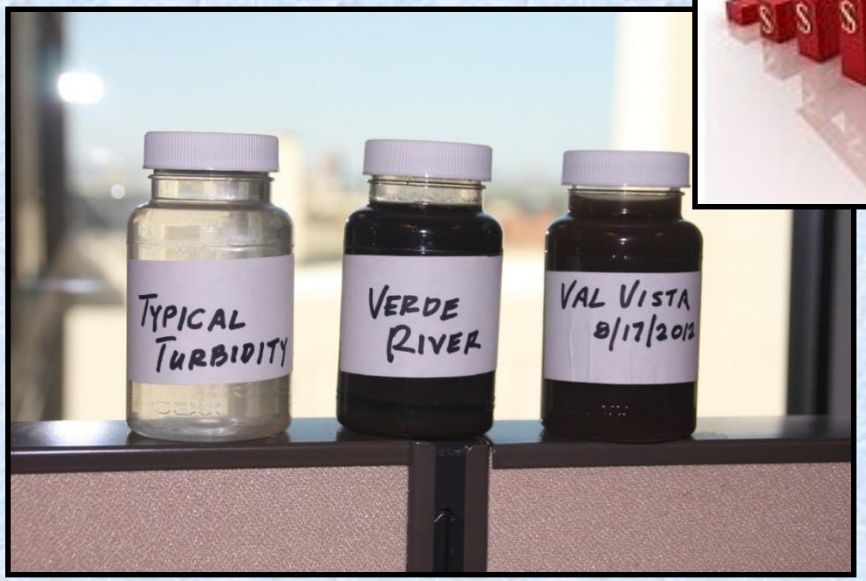

Federal Lands in Salt and Verde Watersheds
C.C. Cragin Watershed
KAIBAB N.F.
COCONINO N.F.
Verde River
CAMP VERDE I.R.
PRESCOTT N.F.
YAVAPAI PRESCOTT I.R.
TONTO APACHE I.R.
APACHE-SITGREAVES N.F.
TONTO N.F.
Salt River
FORT MCDOWELL I.R.
FORT APACHE I.R.
SALT RIVER VALLEY WATER USERS' ASSOCIATION MEMBER LANDS
SALT RIVER I.R.
SAN CARLOS I.R.
N.F. - National Forests
I.R. - Indian Reservations
Watershed Boundaries

Watershed Health and Function

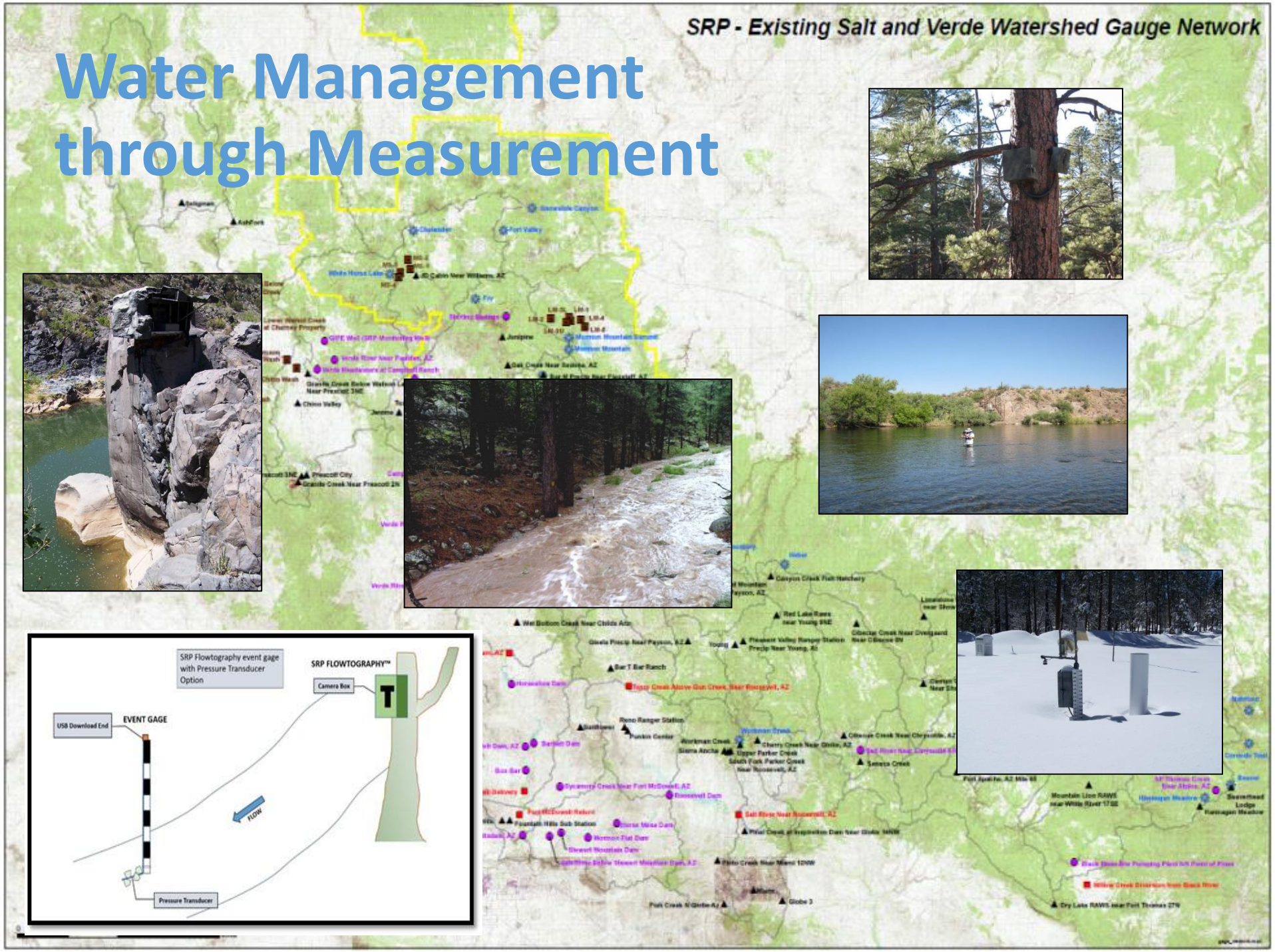


Water Resource Impacts

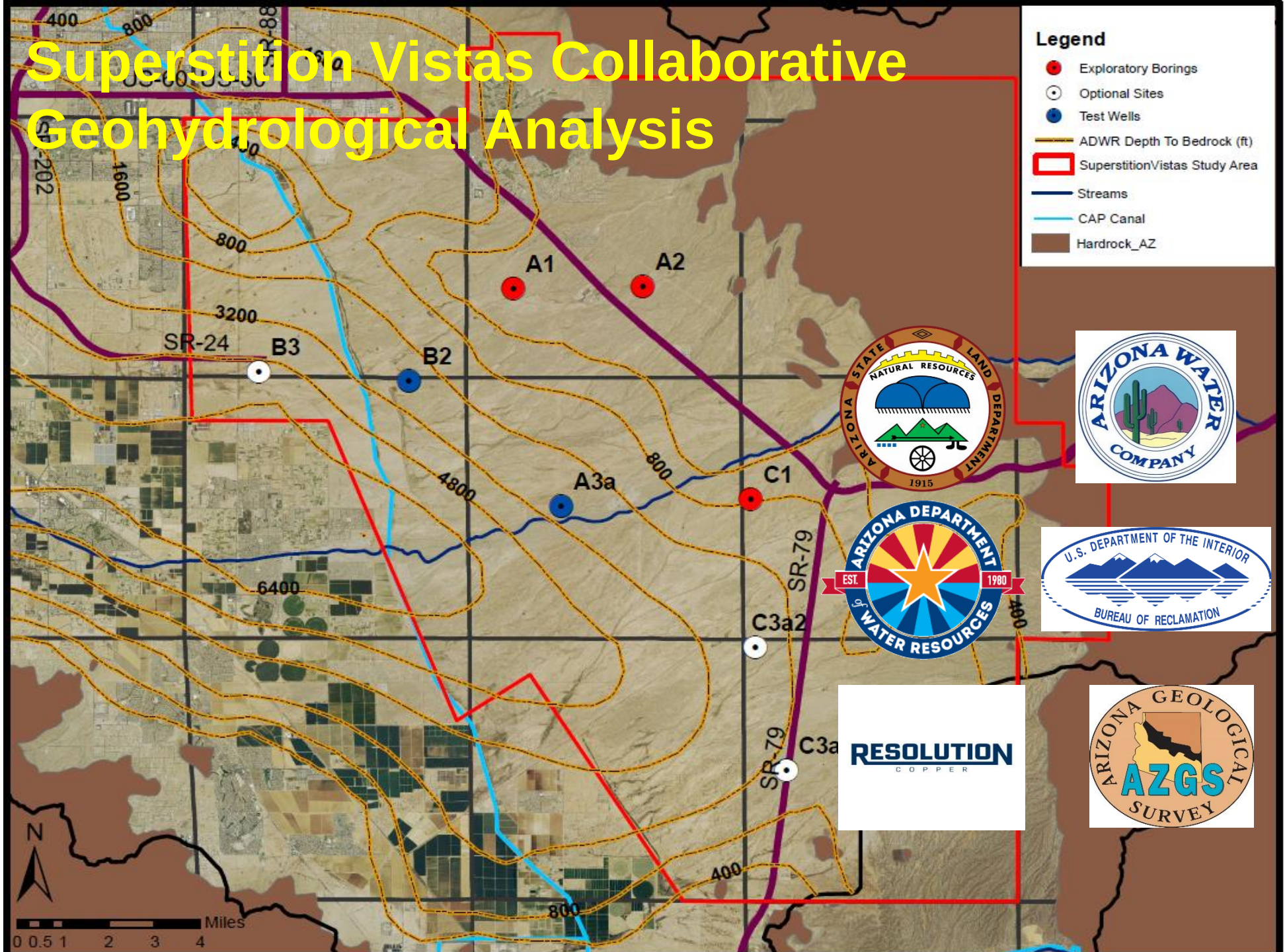




Water Management through Measurement



Superstition Vistas Collaborative Geohydrological Analysis



Water Augmentation Partnership

- **Gila River Water Storage, LLC (GRWS)**
  - 30,000 acre-feet per year of CAP under 100 year leases
  - Commitment to store 2,000,000 acre-feet between now and 2029 to create long-term storage credits (LTSC)
  - Total of 5,000,000 acre-feet of CAP water equal to 50,000 acre-feet/year for 100 years
  - Enough to support a population of around 450,000

Resource Management Partnership

- **Goodyear-SRP Water Transportation**
  - Goodyear currently unable to take direct delivery of their CAP water into their service area
  - Goodyear to transport their CAP water through SRP system
  - Delivered to future water treatment plant in Goodyear
  - Goodyear will build infrastructure connecting Goodyear system to SRP system and any necessary improvements to SRP system
  - Phase 1 (2020) = 8 MGD, Phase 2 = 16 MGD

Questions?