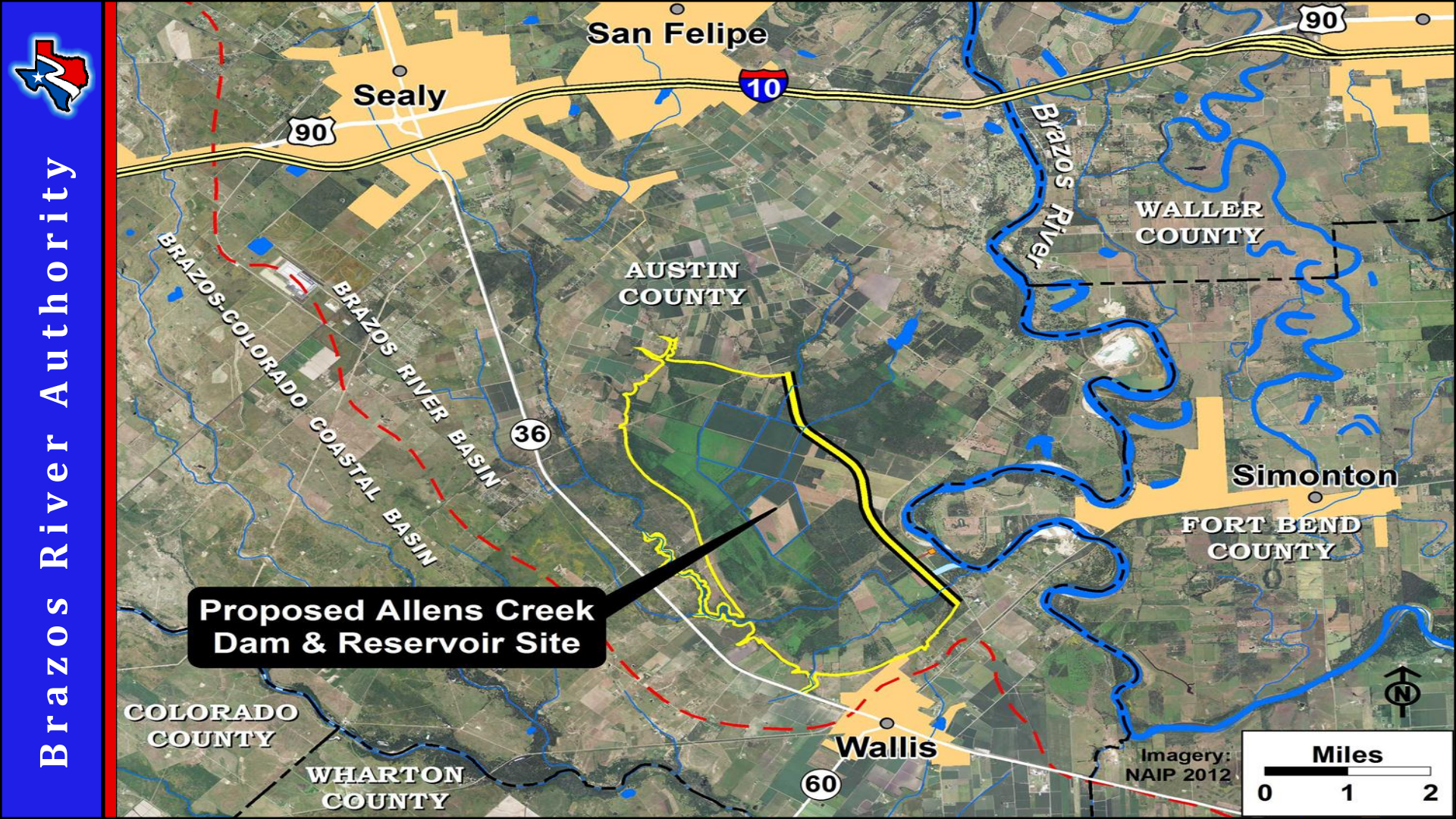




Selection of Allens Creek Reservoir Engineering Firm

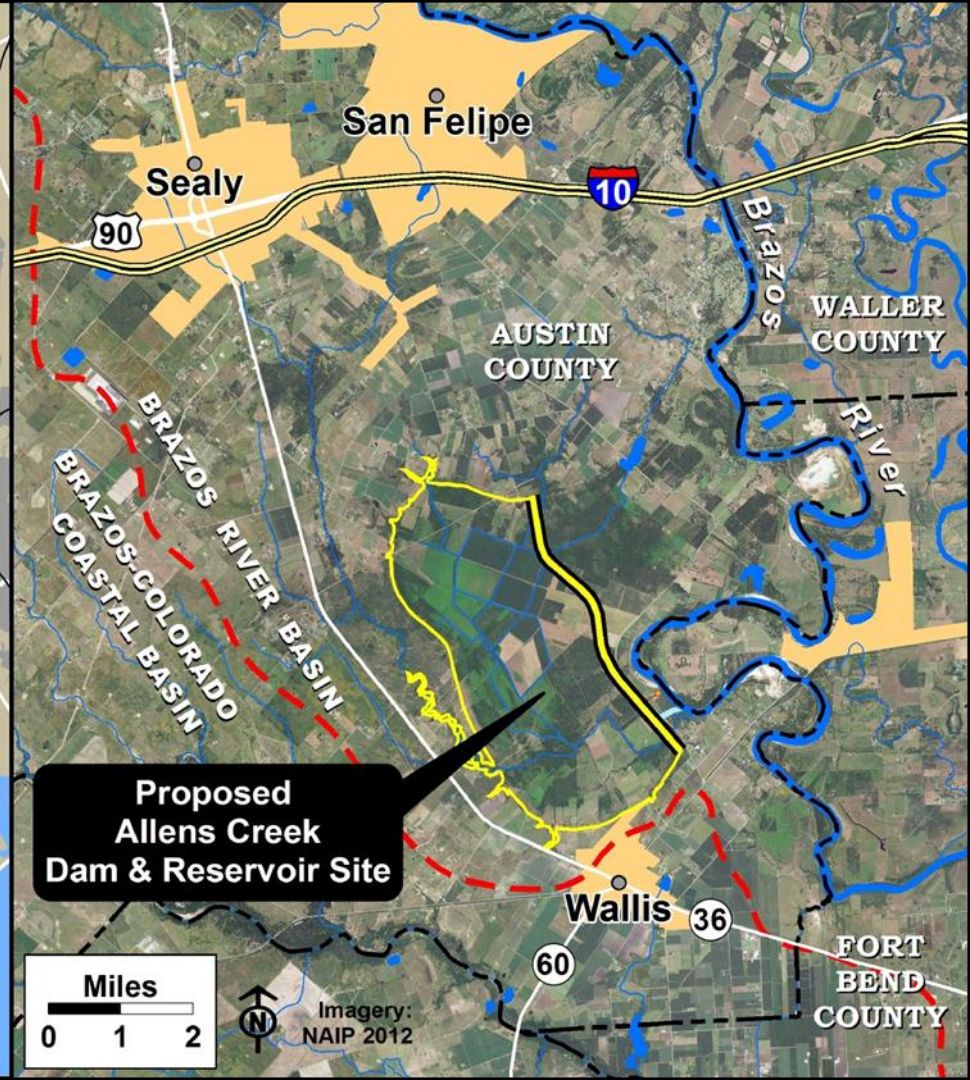
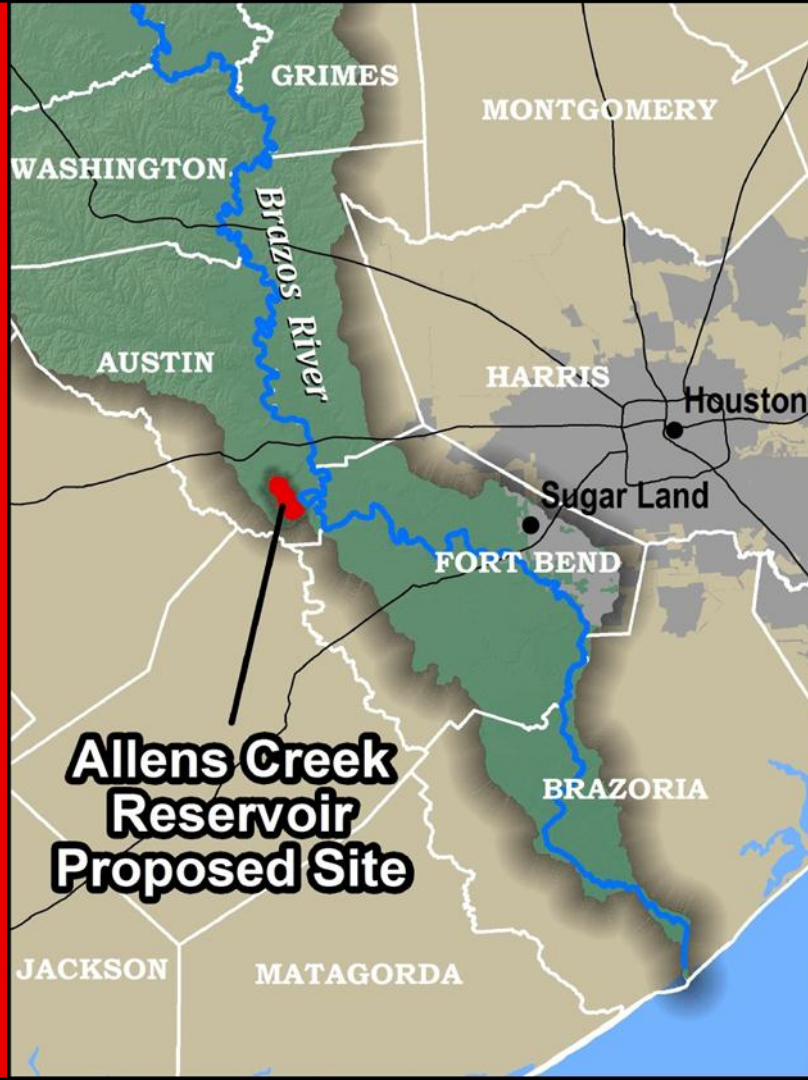
***Presented by
David Collinsworth
Central and Lower Basin Regional Manager***

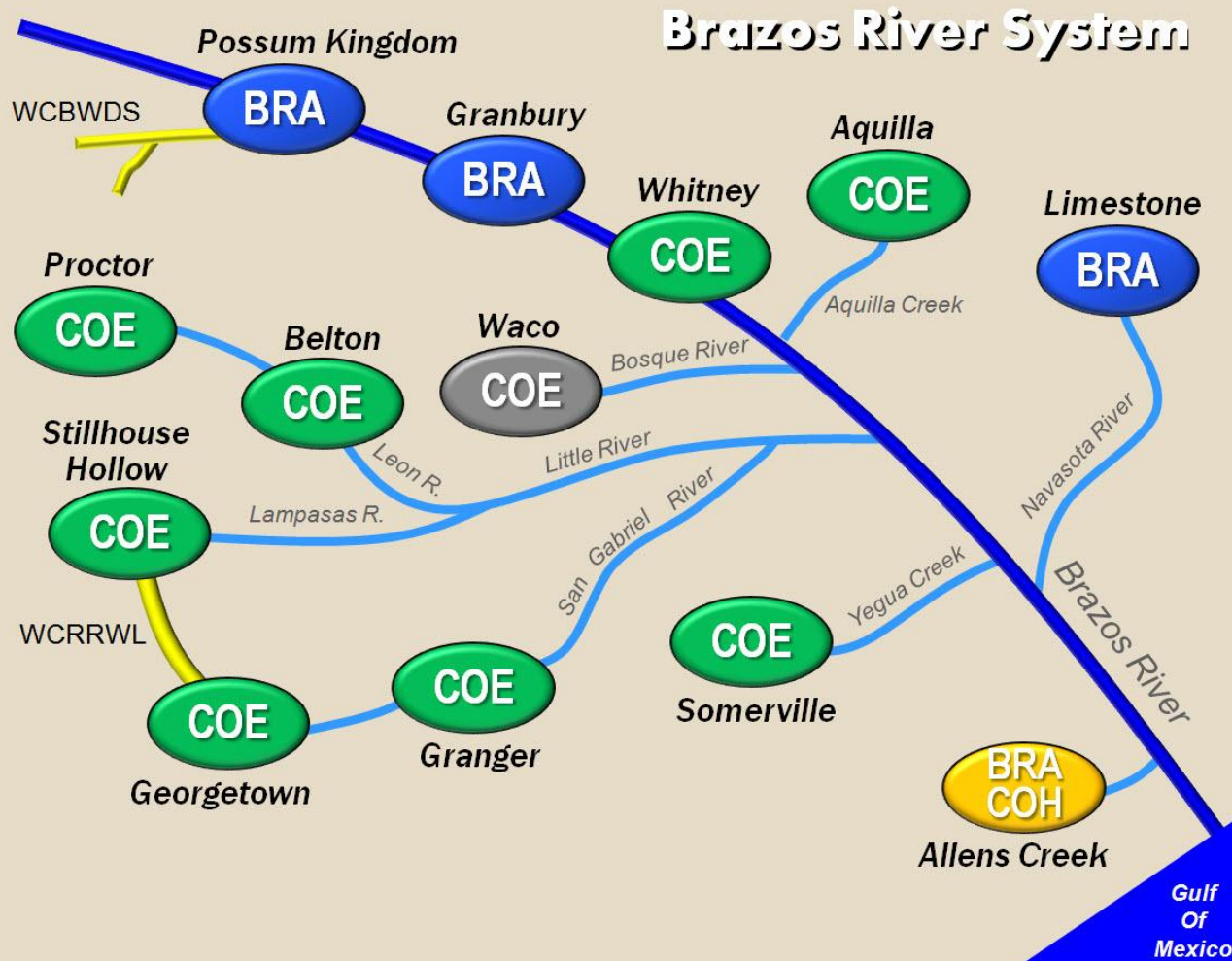


Brazos River Authority

**Proposed Allens Creek
Dam & Reservoir Site**







Allens Creek Reservoir

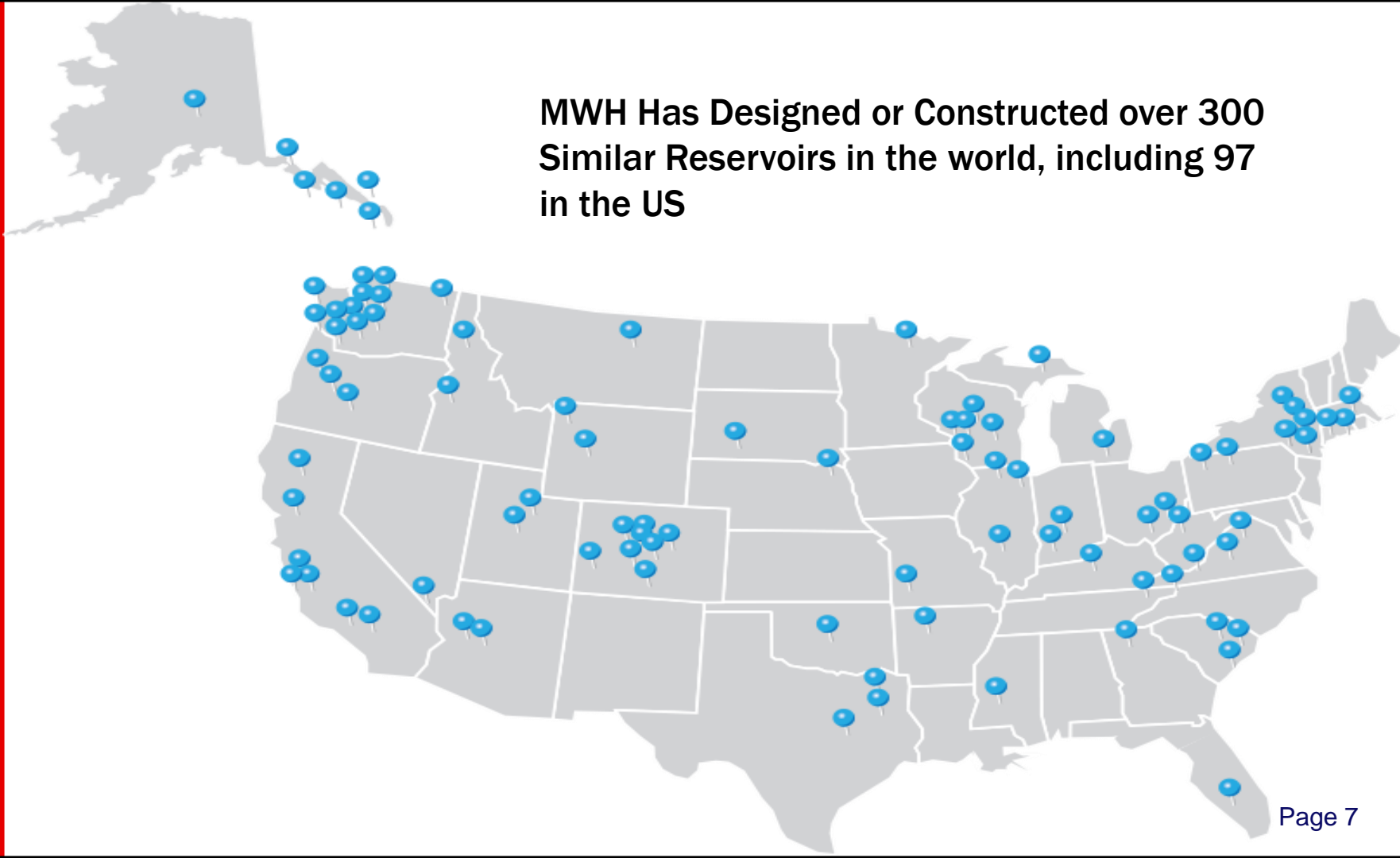
- **Montgomery Watson Harza**
 - **97 Reservoir Projects in USA**
 - **Project Manager: Completed 5 Similar Projects in 10 Years**
 - **Lead Designer: 9 Off-Channel Reservoirs**
 - **Lead Pump Designer: 40 Years Experience**

Allens Creek Reservoir

- **SWCA**
 - **Permit Manager: 50 Permits in Galveston USACE Office in 10 Years**
 - **Over 65 Staff in Houston Office**
- **Fugro, Carollo, Arts+Labor, John Chance, Inc., Northwest Hydraulic Consultants, & Percheron**

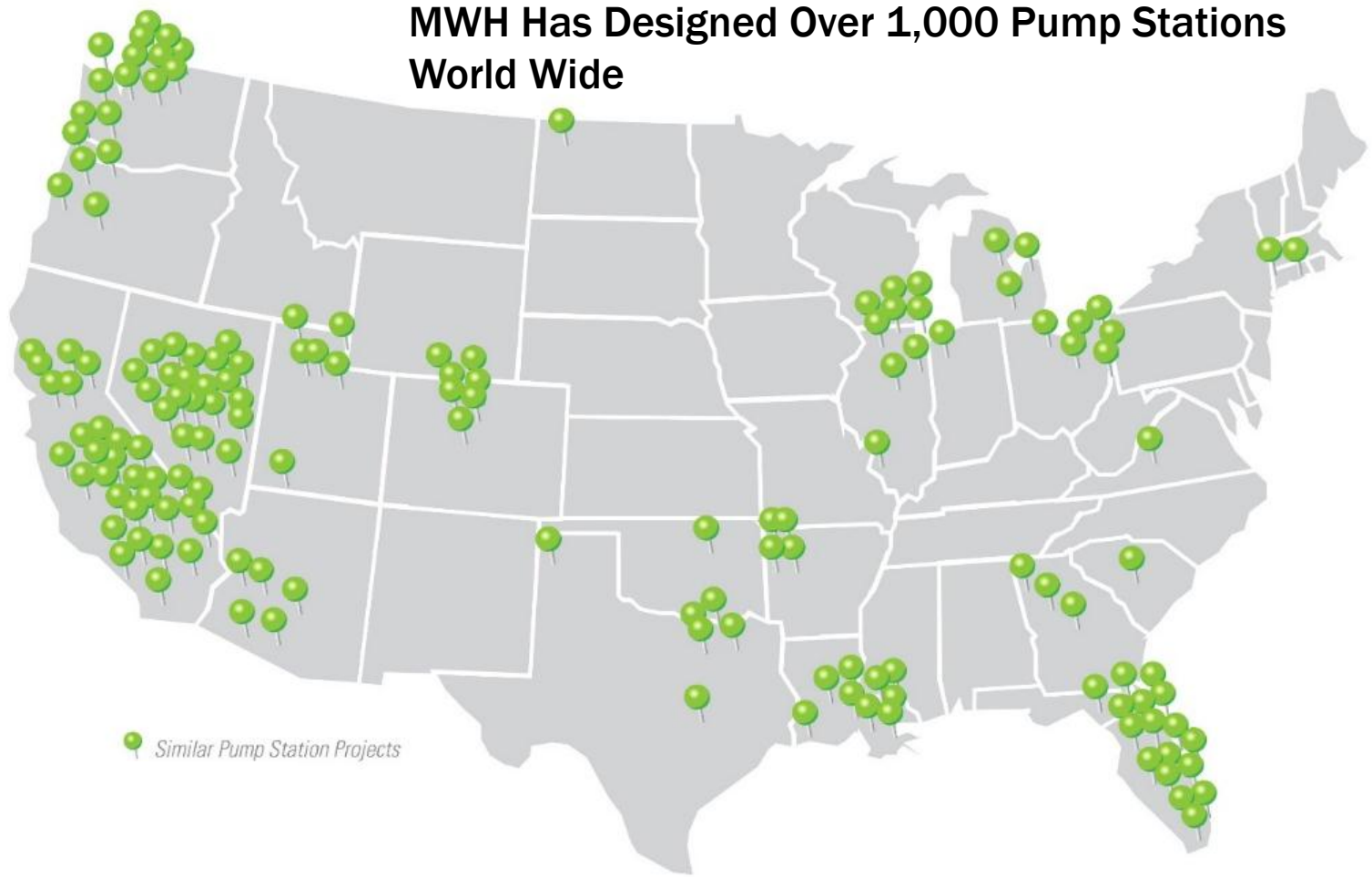


**MWH Has Designed or Constructed over 300
Similar Reservoirs in the world, including 97
in the US**





MWH Has Designed Over 1,000 Pump Stations World Wide



 *Similar Pump Station Projects*



Challenges

Numerous Puzzle Pieces

- Reservoir Design & Constructability
- River Pump Station
- Reservoir Release Issues
- Mitigation
- Environmental Impacts

404 Permitting



Allens Creek Reservoir

Project Timeline:

- **404 Permit Requirements** - At a *minimum*, permitting process takes 2 to 4 years, including, but not limited to, the following:
 - **Archaeological Investigations**
 - **Wetlands Delineation & Mitigation**
 - **Threatened & Endangered Species Surveys & Mitigation**
 - **Habitat Review**
- **Facility Design** – 3 years
- **Facility Construction** – 3 years



**Brazos
River
Authority**