This presentation premiered at WaterSmart Innovations

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Managing Stormwater at a Residential Level

Doug Pushard

Santa Fe, New Mexico

- Founded: 1610
- Population: ~84,000
- Elevation: ~ 7,500
- City: ~ 37 square miles
- Annual Precipitation: 12” – 15”
- Temperature Range
  - Average High 86°
  - Average Low 17°
- Unique mixture of old and new

Santa Fe River

- River runs from Santa Fe Watershed to the Rio Grande
- No dedicated stormwater runoff system, the river is the system
- City growth has impacted water flows into the river
- City growth with associated hardscapes has had negative impact on the river
- City now dedicates water from watershed to keep the river flowing

Santa Fe

- About 30,000 households
- Average lot size ~ 100’ x 150’ ~ 15,000 square feet
- Average 1” rain = 9,345 gallons of rain
- University of CO found only 5% of runoff gets to a river
- Assume 10%
- 30,000 x 9,345 gallons x 10% = **28,000,000 GALLONS**

Santa Fe Developing Stormwater Plan

- In California it effects the economy
  - Beach closures and health risks
  - LA area developed stormwater holding requirements for new construction
- Several states have instituted a rainwater tax – Maryland, West Virginia
- EPA has new construction Best Management Practices
- Some locales have a Stormwater Management Impact fee for new Commercial developments

Questions for YOU!

- Does your community regulate Residential Runoff
  - Don't
  - Land Use Code - What
  - Have a Rainwater Tax?
  - Recommendation of Best Practices
  - Other

Questions for YOU!

- Do you have different requirements for Commercial and Residential
  - Yes
  - No

Questions for YOU!

- Are you considering implementing a Stormwater Runoff Requirement
  - Yes
  - No

Questions for YOU!

- Do you have requirements for new construction versus existing homes?
  - Yes
  - No

Questions for YOU!

- In a perfect world what would you do?

Questions for YOU!

- With Harvey and Irma and Maria how do we turn a negative (too much stormwater) into a positive?

Questions?

Santa Fe

- Typical southwest city with high density sections
- Mixed with lower density sections
- City has a mixture of dirt and paved roads
- Dirt roads slow the runoff but increase the sediment put into the river