Approach

- Knowns
- Known Unknowns
- Unknown Unknowns
Knowns

- Legislation
  - SB 287 (February-May 2017 Session)
- Jurisdictional Authority
  - MOU between ODEQ and OCC
- Regulations
  - General requirements for construction (OKR10)
  - 24 hour oral, 5 day written reporting of spill or release (40 CFR 122.41)
  - Discharge of hydrostatic test water (OKG27)
More Knowns

- Water is heavy
- Moving water can be expensive and energy intensive
- Water chemistry can be challenging
- Using and reusing produced water in the oil and gas sector:
  - Reduces reliance on fresh water
  - Moves us closer to Water for 2060 goals
  - Makes energy production more drought resistant
Drought will be Known!

January 9, 2018
Known Unknowns

• Cost of water movement
  – Economic
  – Social
  – Psychological

• Water induced reactions in the different formations
More Known Unknowns

• Ultimate disposal costs and impacts
  – What will happen with 98th meridian discharge restriction?
  – Construction/regulation of central treatment facilities
  – Pipelines to pump “both ways”
  – ELG prohibition
  – Location of disposal wells
  – Seismicity in Oklahoma
More Known Unknowns

- Regulatory structure
  - Similar to other water reuse
  - New scheme
  - Hybrid
Unknown Unknowns

• Time will tell…
• Ground Water Protection Council, DOE, EDF current study underway