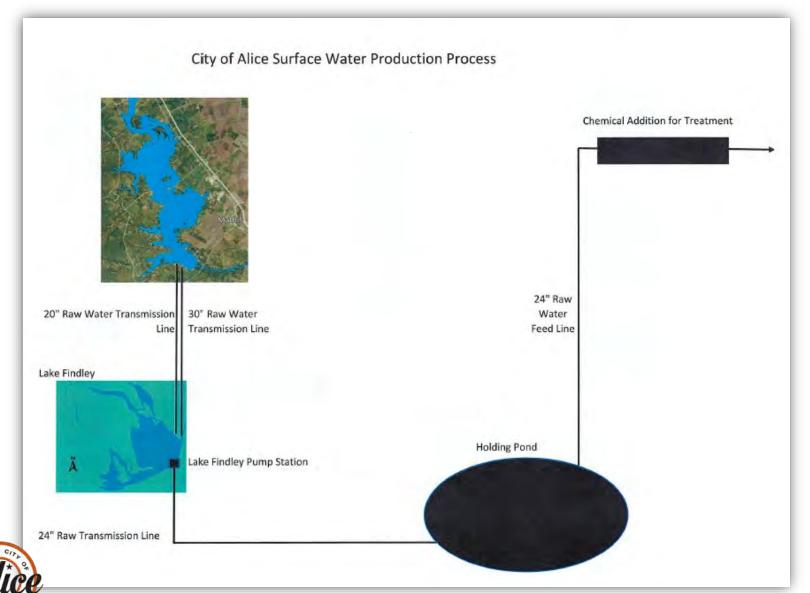


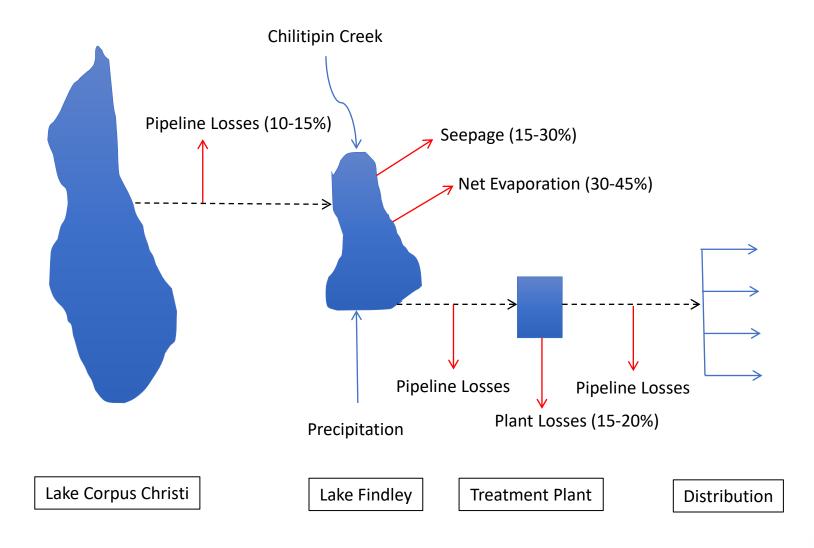
Current City of Alice Water System



To water treatment plant

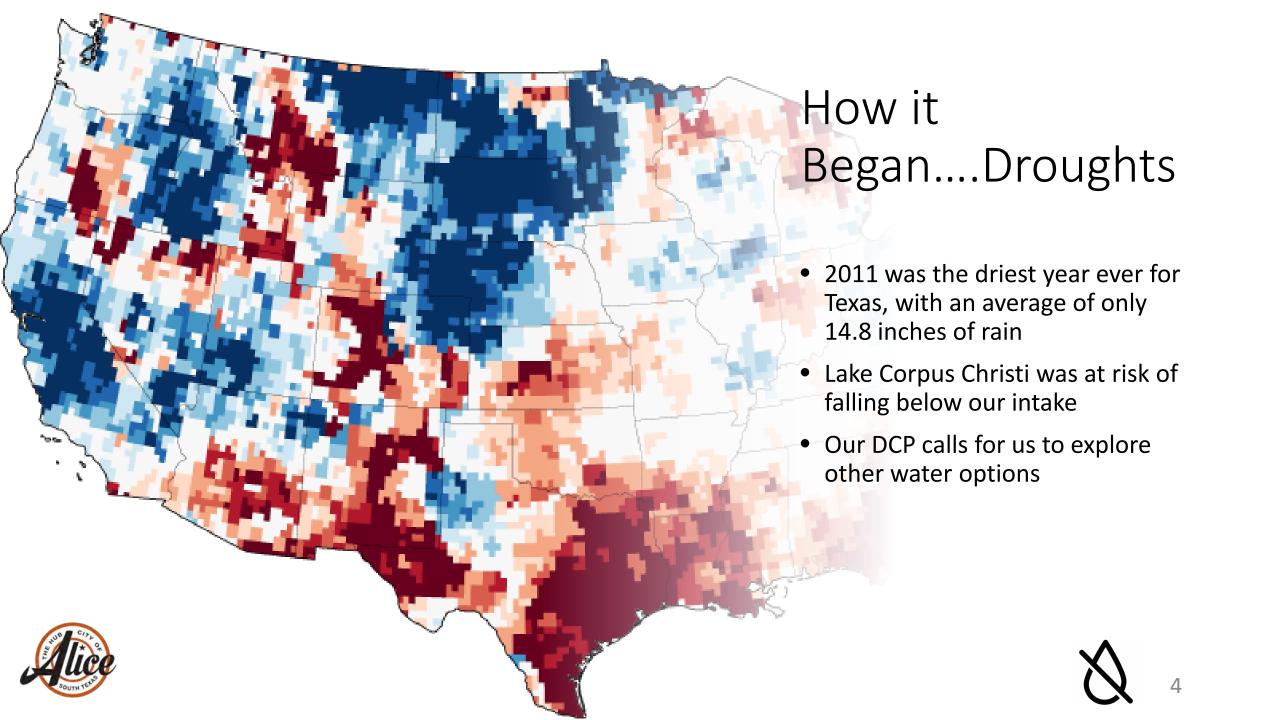


Alice Water Supply and Distribution System Loss

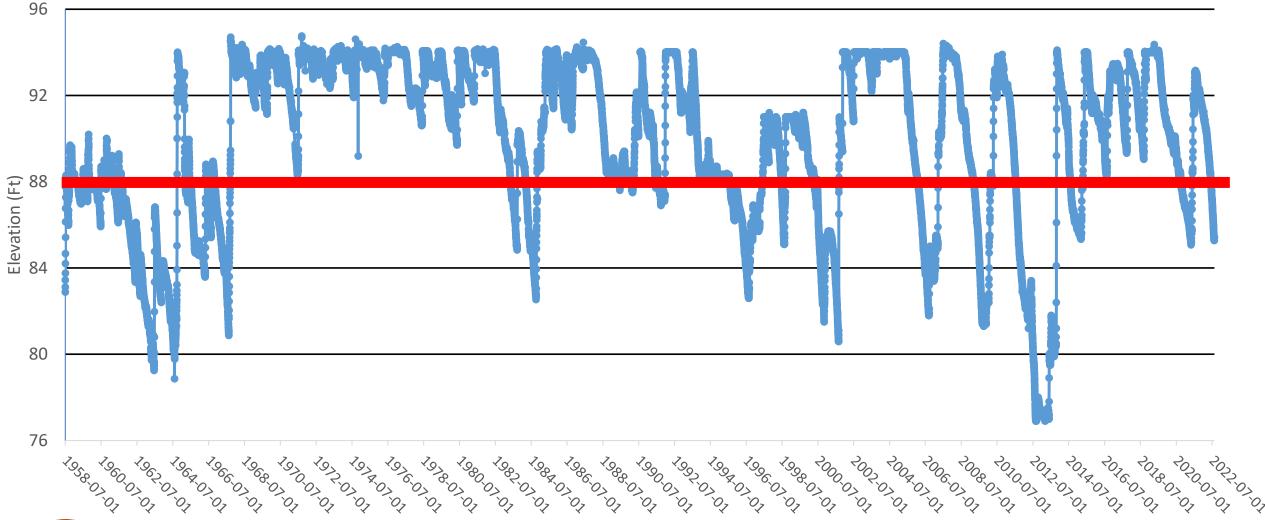








64 Year History of Lake Corpus Christi Elevation (Ft)



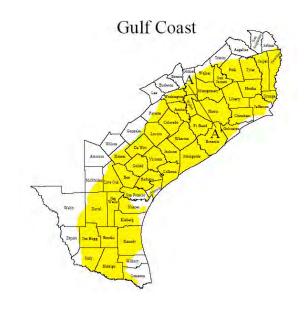


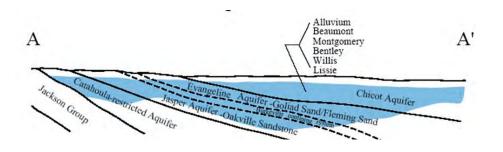




Our Options: Pros & Cons

	Drill <i>Freshwater</i> Wells Near City Water Plant	Drill <i>Freshwater</i> Wells Along 22-Mile- Long Pipeline	Drill <i>Brackish</i> Wells Near Water Treatment Plant	Seawater Desalination
	 Limited water treatment Short transmission line Drought resistant 	 Availability of fresh ground water Drought resistant 	 Co-location at existing plant Drought resistant 	Adequate Water SupplyDrought resistant
SOUTH TOLES	DrawdownAvailability	 Drawdown Availability Mixing Ground And Raw Water Evaporation Or Additional Pipeline Cost Variable Speed Drives 	Treatment costDischarge	 Permitting Water Rights Discharge Pipeline Treatment cost





Our Project: Gulf Coast Aquifer

- Jasper Aquifer*
 - Miocene Era
 - Drought proof source
 - 2,000 feet deep
 - 2,000 PPM
 - 3 MGD





Our Project

- Partnership
- Co-locating at existing plant
- City
 - Two wells
- Partner
 - Brackish plant & treatment
 - Discharge permit











Financials

• Original Projected cost: \$17,000,000 (100% City of Alice)

• Final Project Cost: \$12.5 million

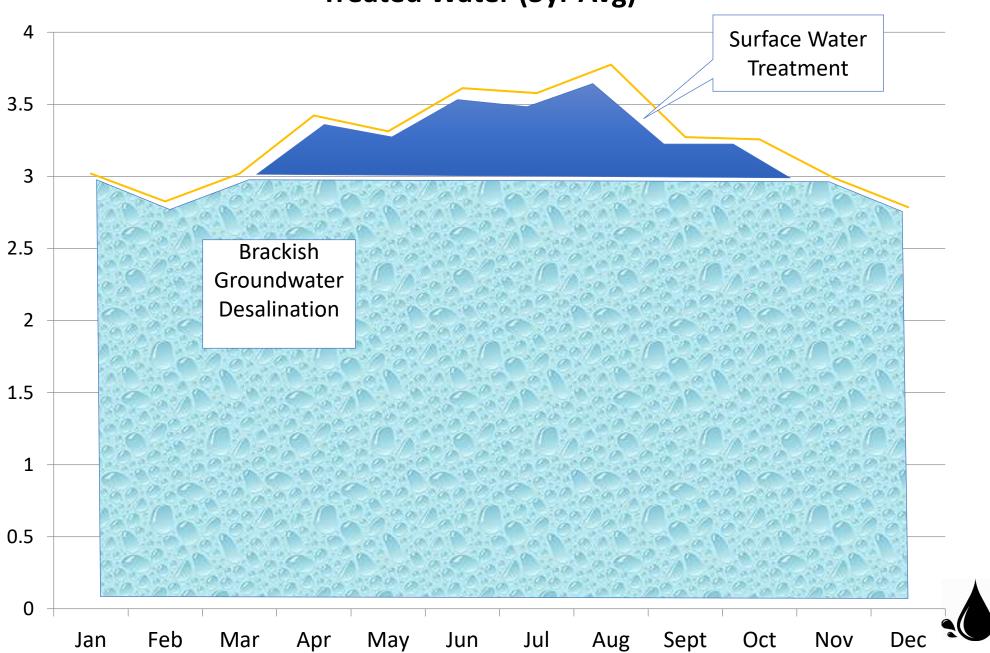
• Phase 1: \$5.5 million

• Phase 2: \$7 million





Treated Water (3yr Avg)



Surface v. Ground Cost/1,000



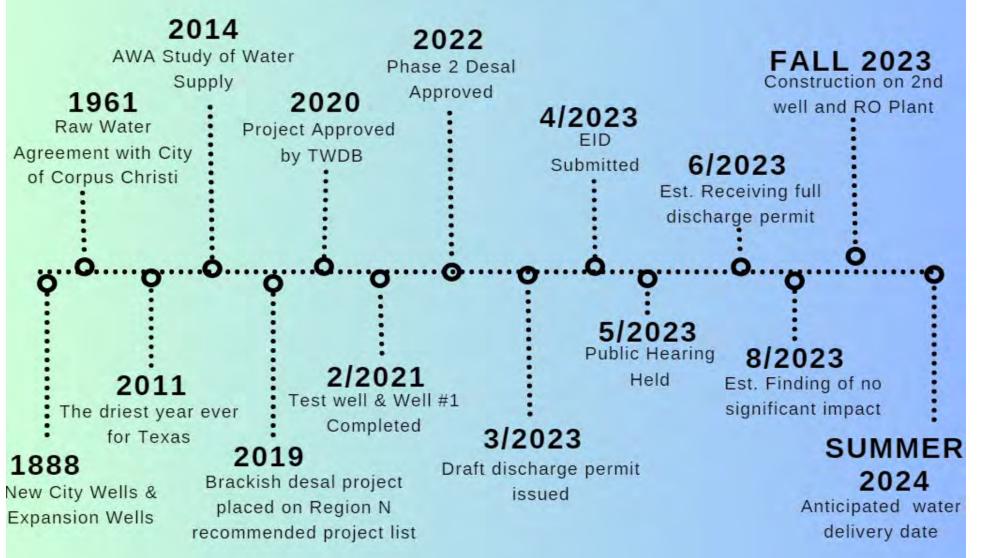


SURFACE WATER RANGE FROM \$3.35 TO \$4.05

GROUND WATER COSTS \$3.65/1,000 GALLONS



Timeline



Cost sof existing system operations with recommended improvements

- For every year an alternative is not implemented, it will cost more than converting to treated brackish groundwater
 - Phase 1: Replace 8 miles of 20-inch pipeline
 - Phase 2: Replace 12 miles of 20-inch pipeline & rehabilitate existing pump station at Lake Corpus Christi
 - \$6.46 million/year or an average \$1.71 million per year more than the 3 MGD brackish groundwater option.
 - Slipline transmission line
 - Evaporation mitigation
 - Still not drought resistant





WHAT IS THE COST OF NOT HAVING WATER?

