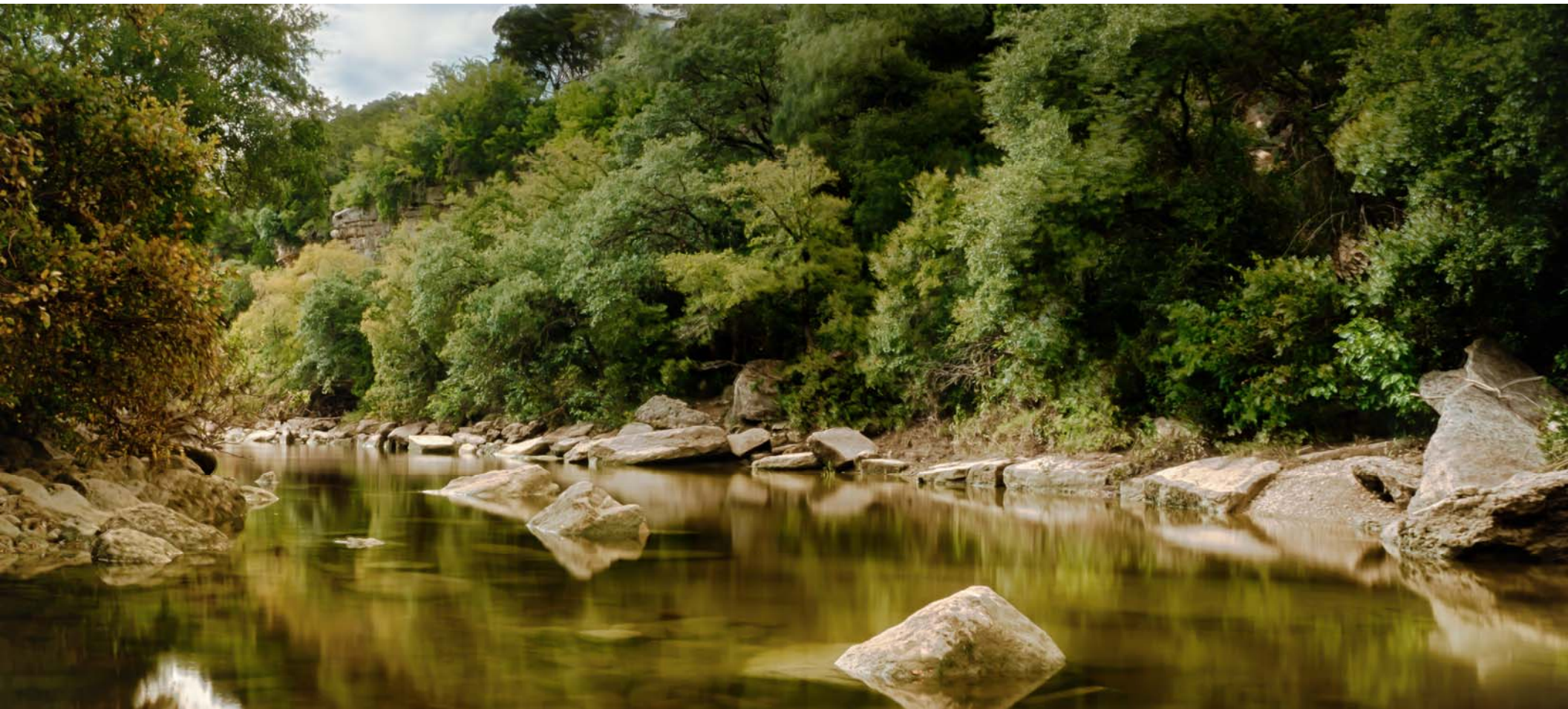
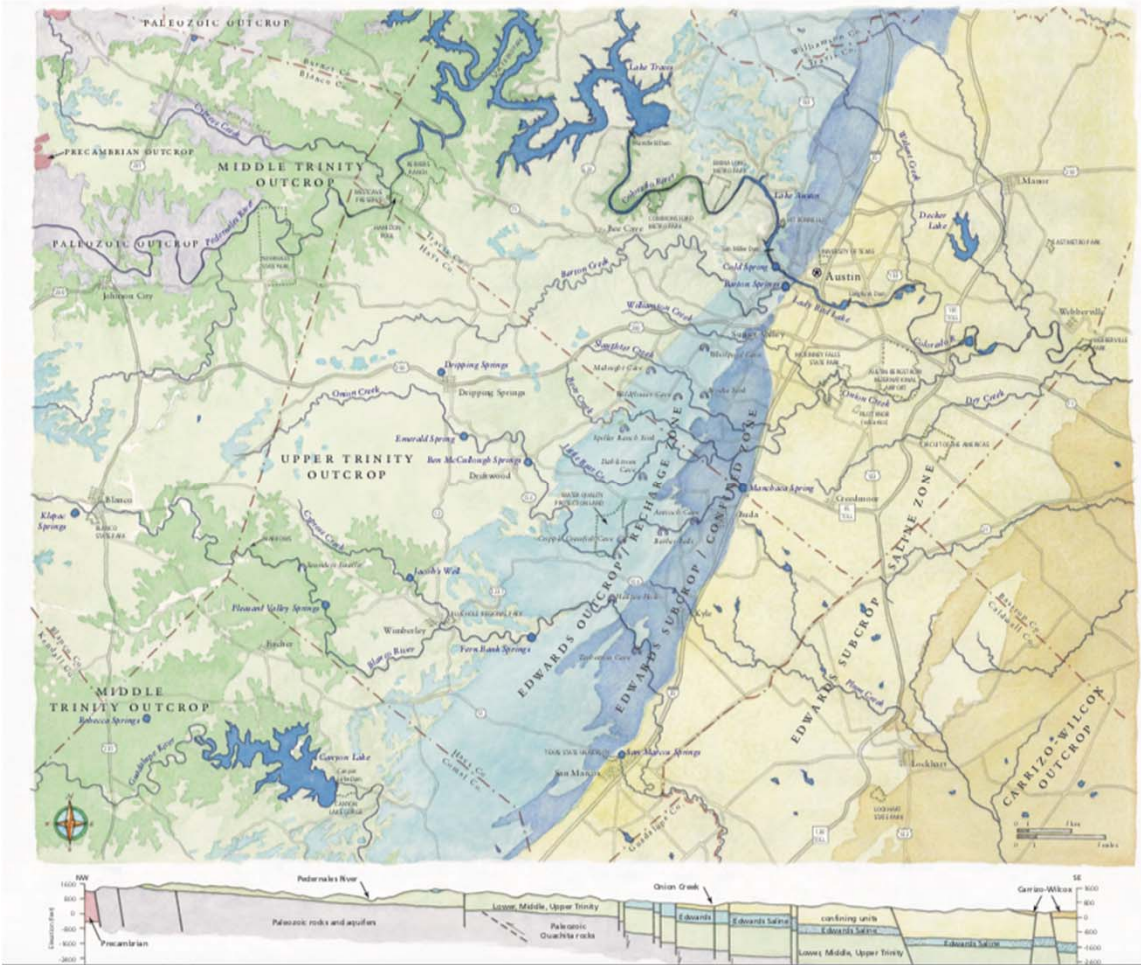


Why Groundwater Pumping in Hays County Impacts Austin

June 19, 2019





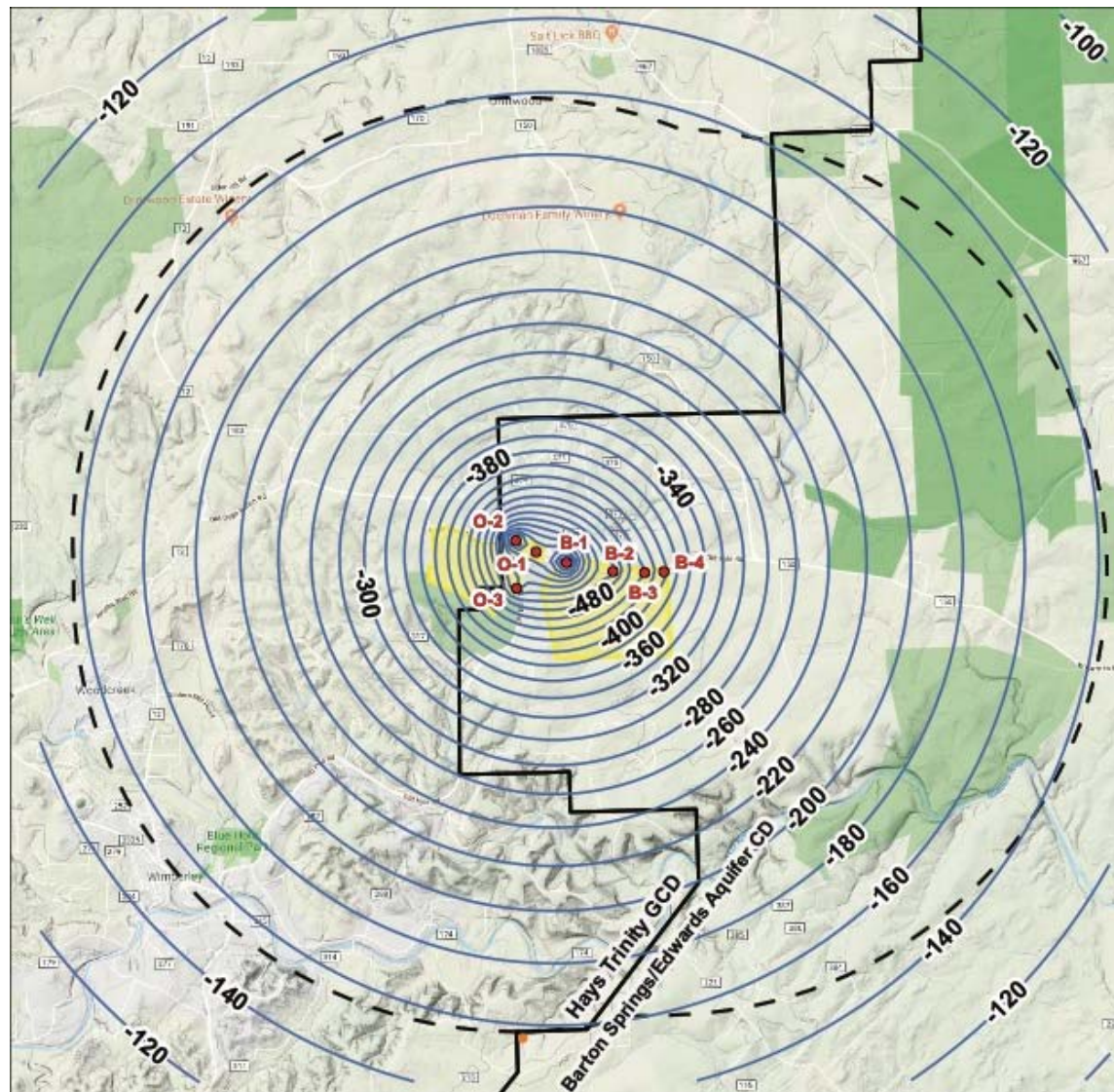
Central Texas Water Resources

geologic age	hydrogeologic group	group	formation	stratigraphic column
Tertiary 65 - 2 million years ago	CARRIZO-WILCOX AQUIFER		Carrizo Wilcox Taylor Austin Chalk Eagle Ford Brewster San Jose Gonzalesville	
Upper Cretaceous 100 - 65 million years ago	confining units and paired aquifers			
	EDWARDS AQUIFER	Edwards Group	Edwards Pecaneta Brewster Wichita Falls	
	UPPER TRINITY AQUIFER			
	MIDDLE TRINITY AQUIFER			
	LOWER TRINITY AQUIFER			
Paleozoic 250 - 250 million years	PALAEZOIC AQUIFERS			
Precambrian > 540 million years ago	CRYSTALLINE ROCK AQUIFERS			



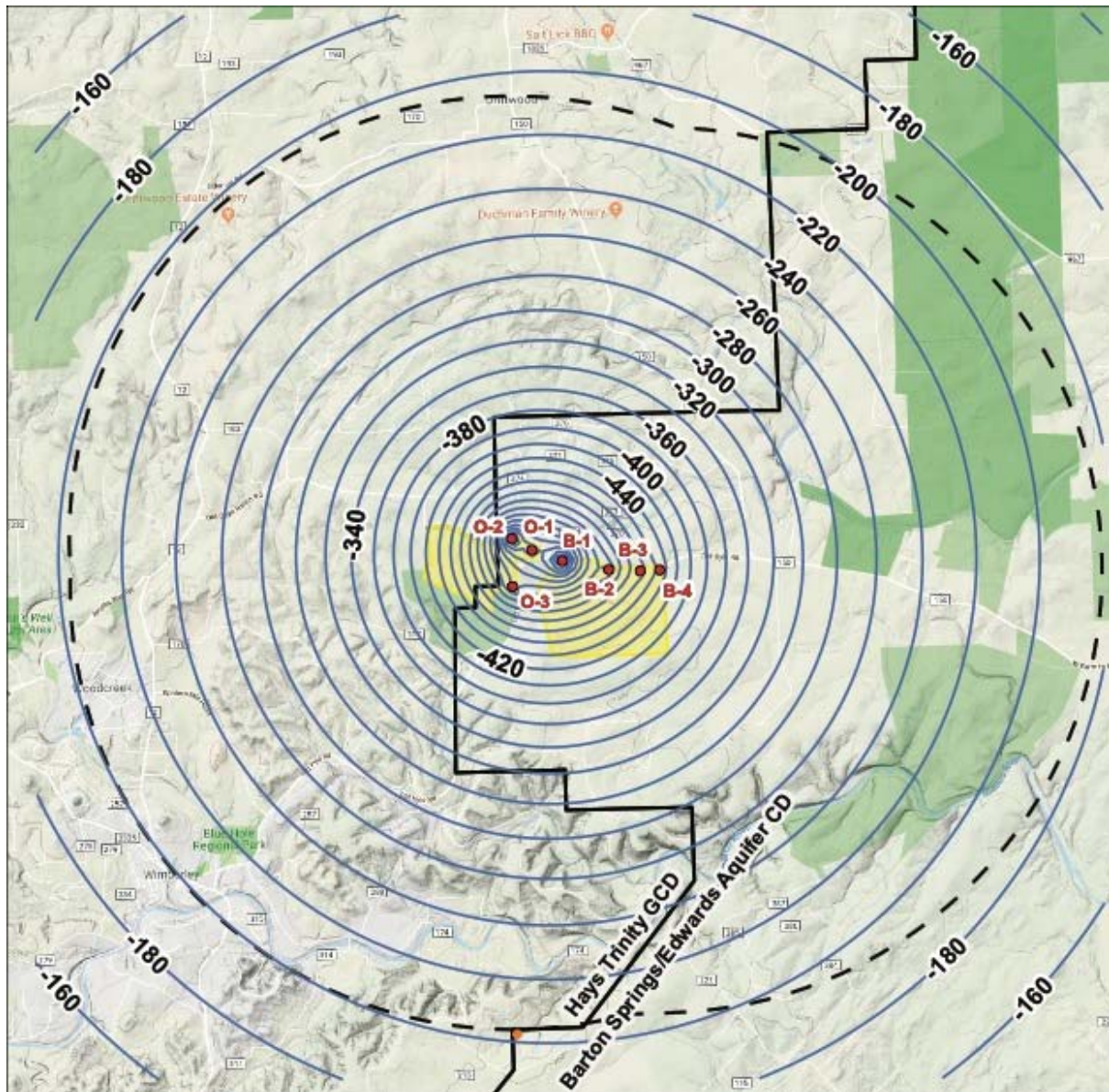
Credits & Citations
 Photo credit: iStockphoto.com





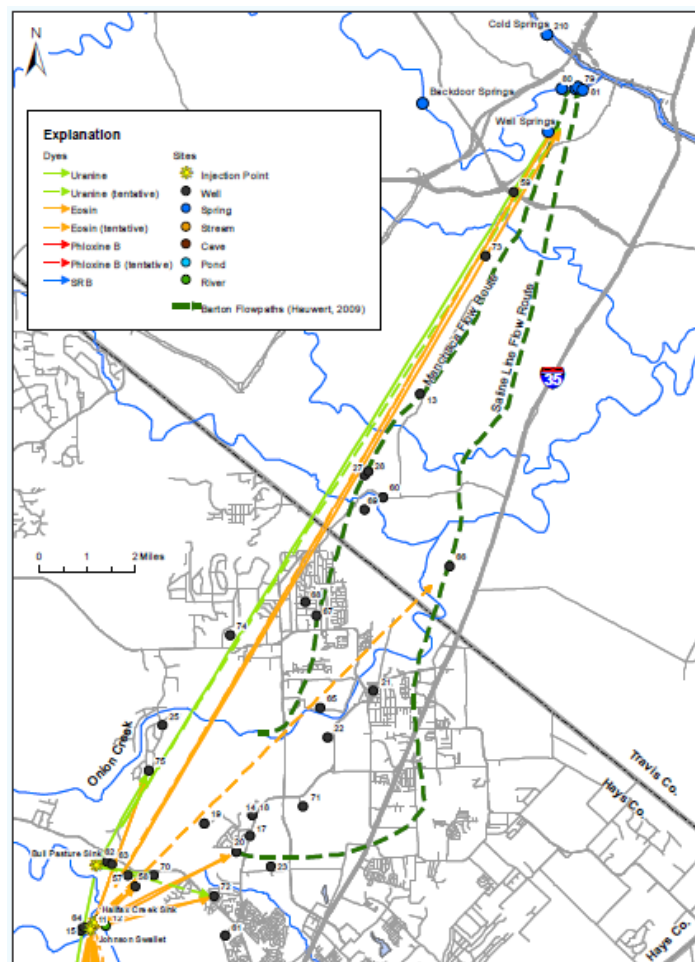
**TTIM Analysis Drawdown
Map in Cow Creek
Pumping Rate: 2.5 MGD
Pumping Time: 7 Years**

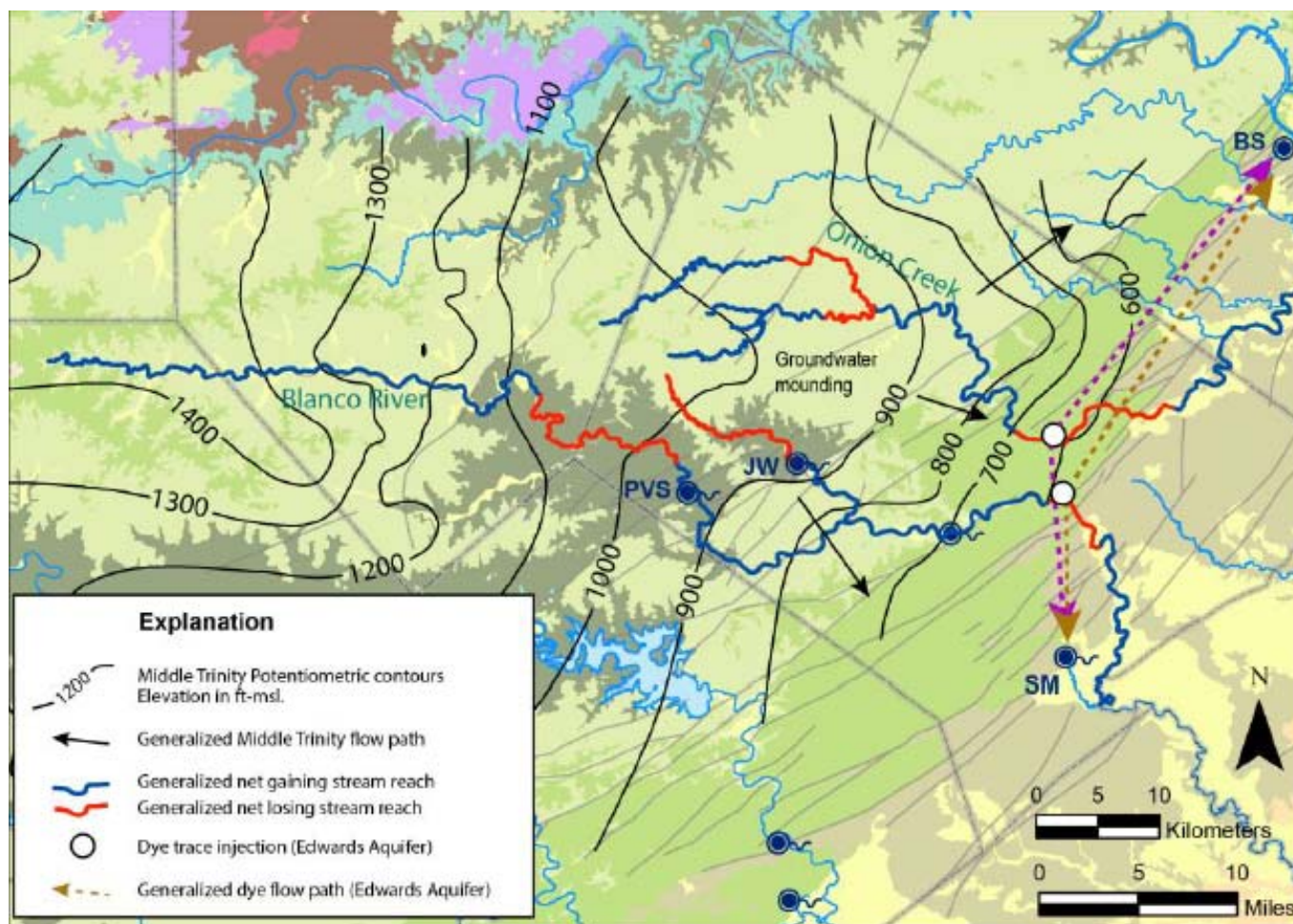
- Electro-Purification Wells
- Needmore Well
- 5 Mile Radius Around EP Test Wells
- Drawdown (feet) - Estimated Drawdown in the Cow Creek
- Odell & Bridges Property Boundaries
- City of Austin Land/Parks/Conservation Easements

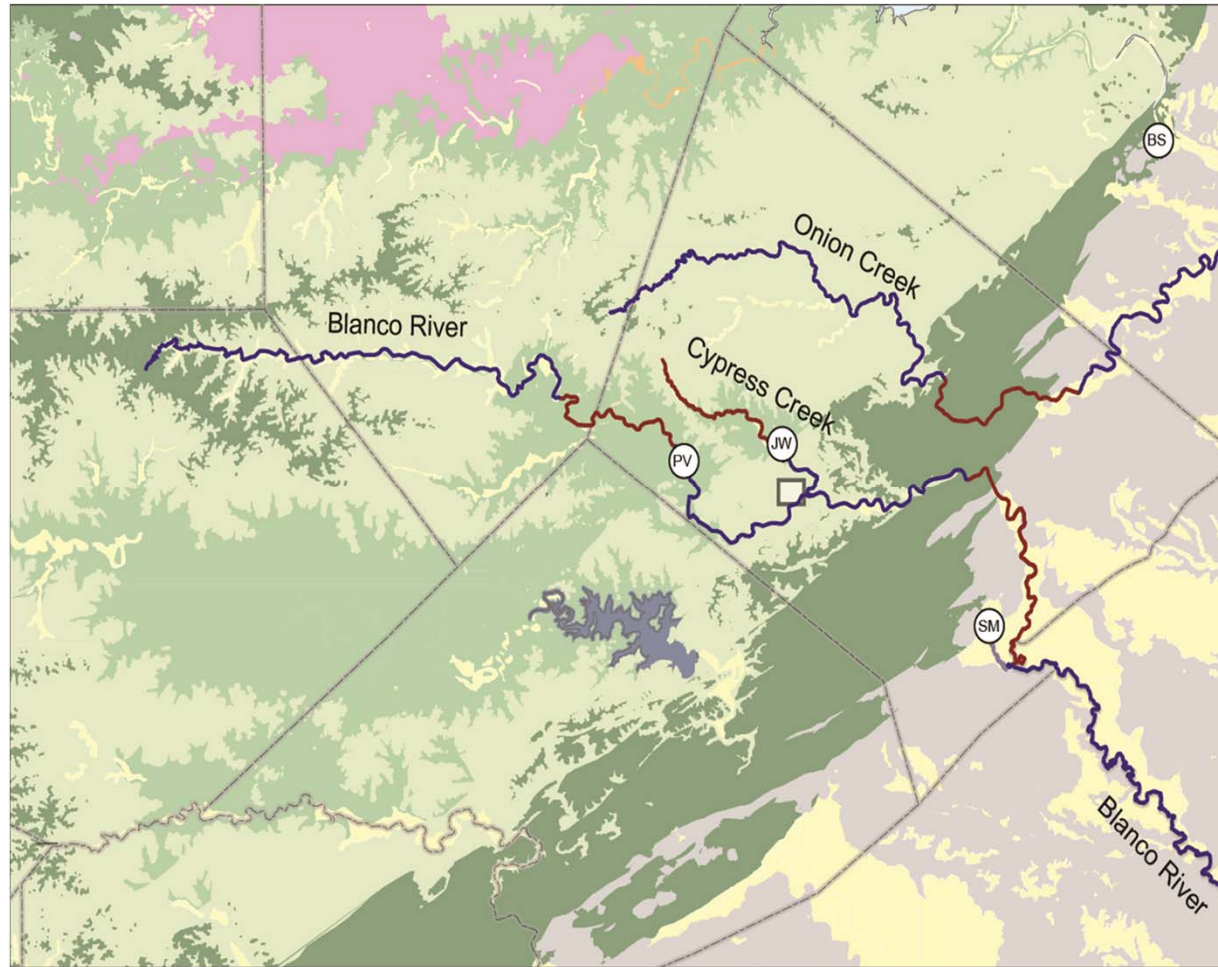


**TTIM Analysis Drawdown
Map in Cow Creek
Pumping Rate: 2.5 MGD
Pumping Time: 30 Years**

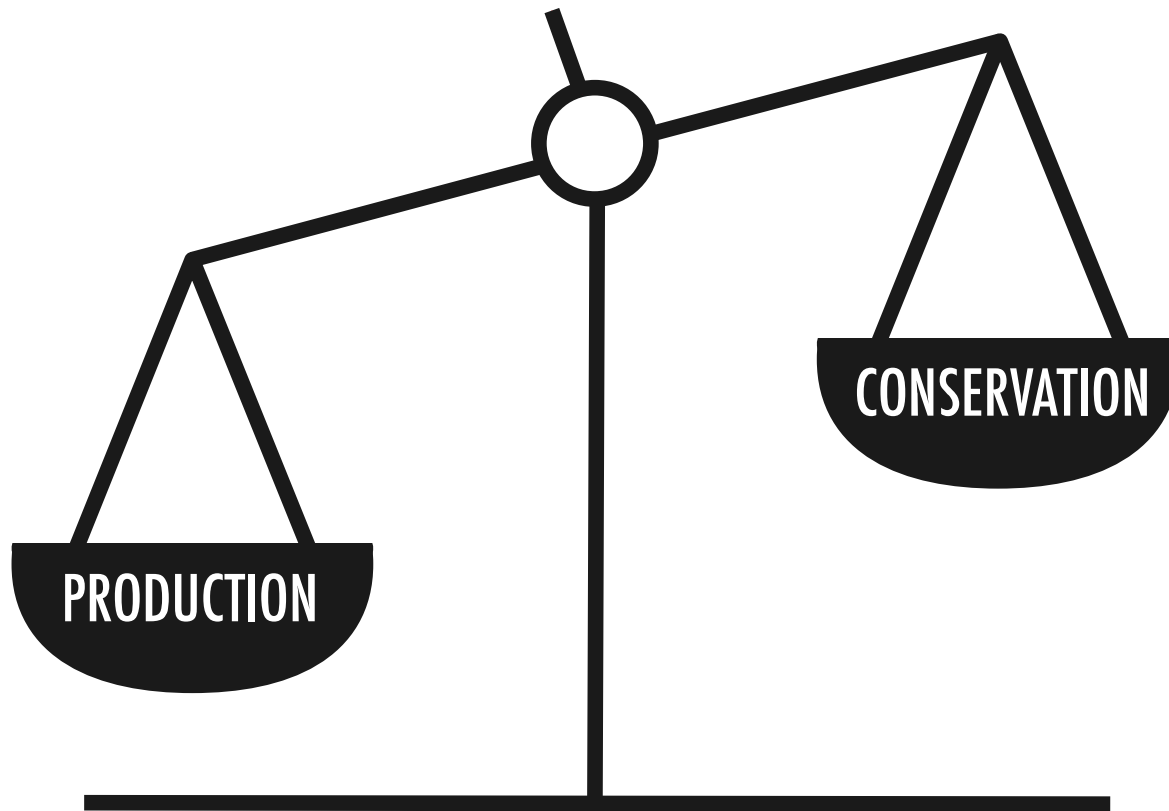
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Groundwater Law in Texas



TESPA

**Trinity Edwards Springs
Protection Association**

www.tespatexas.org