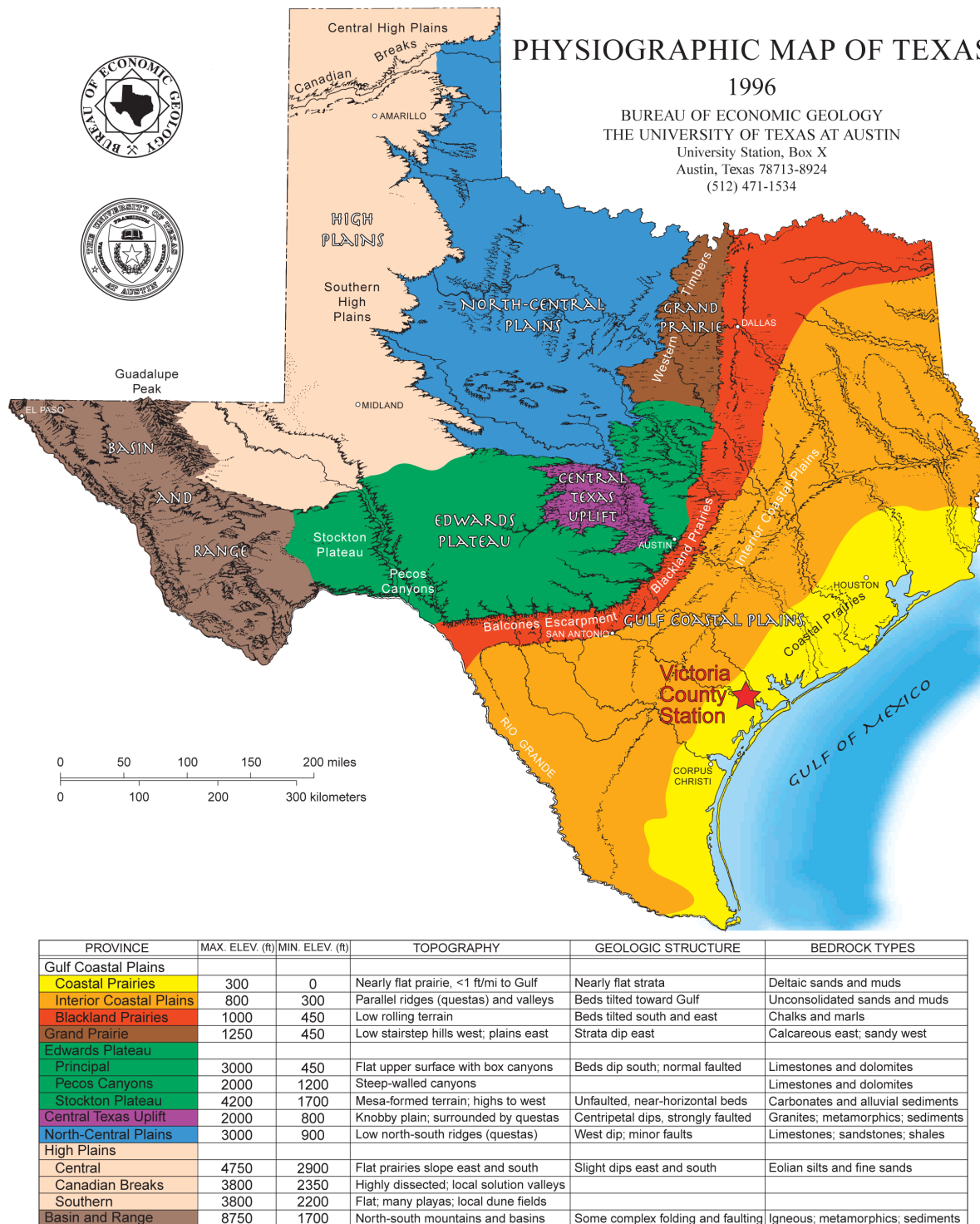




Figure 2.4.12-1 Regional Site Location Plan



Modified from [Reference 2.4.12-1](#)

Figure 2.4.12-2 Physiographic Map of Texas

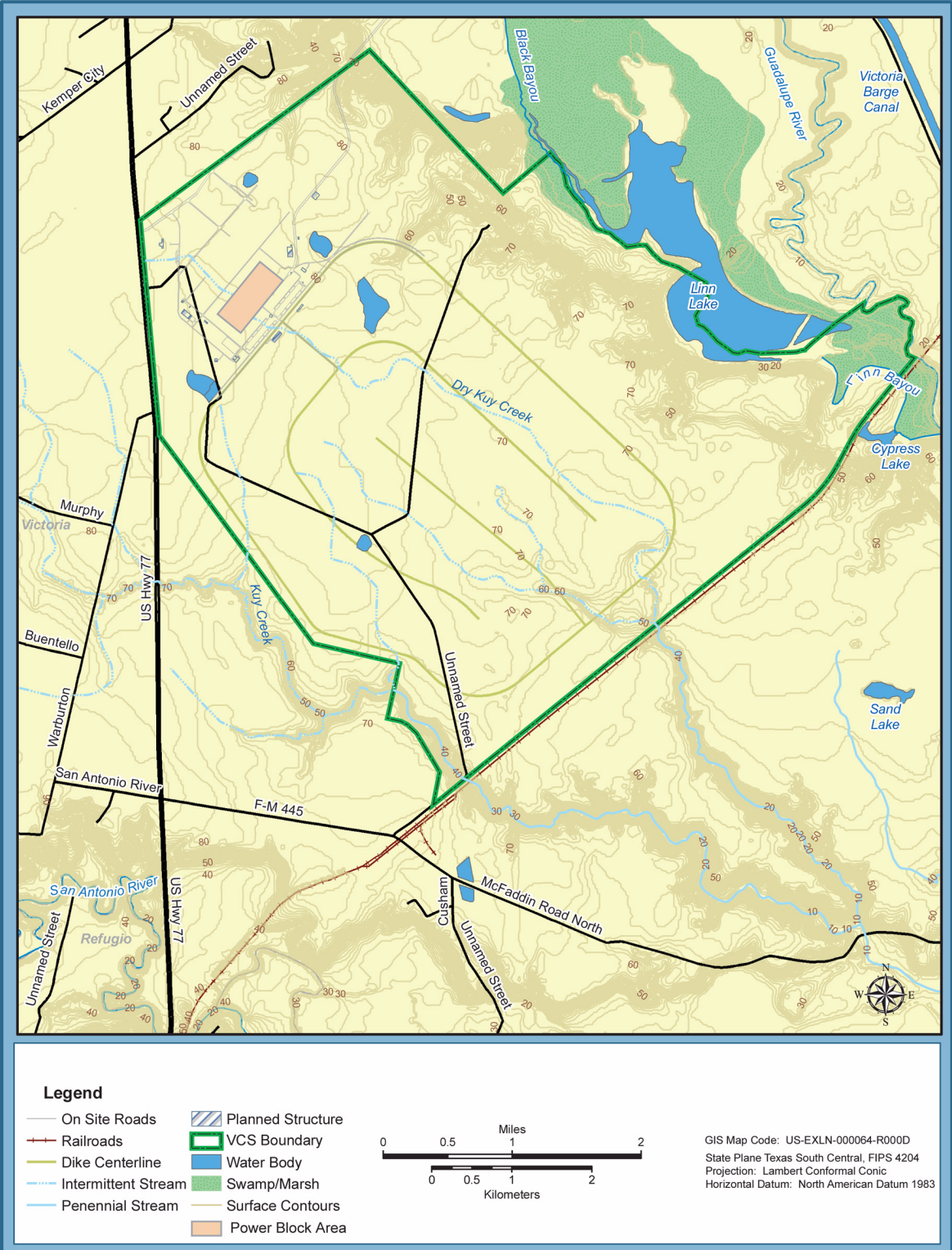
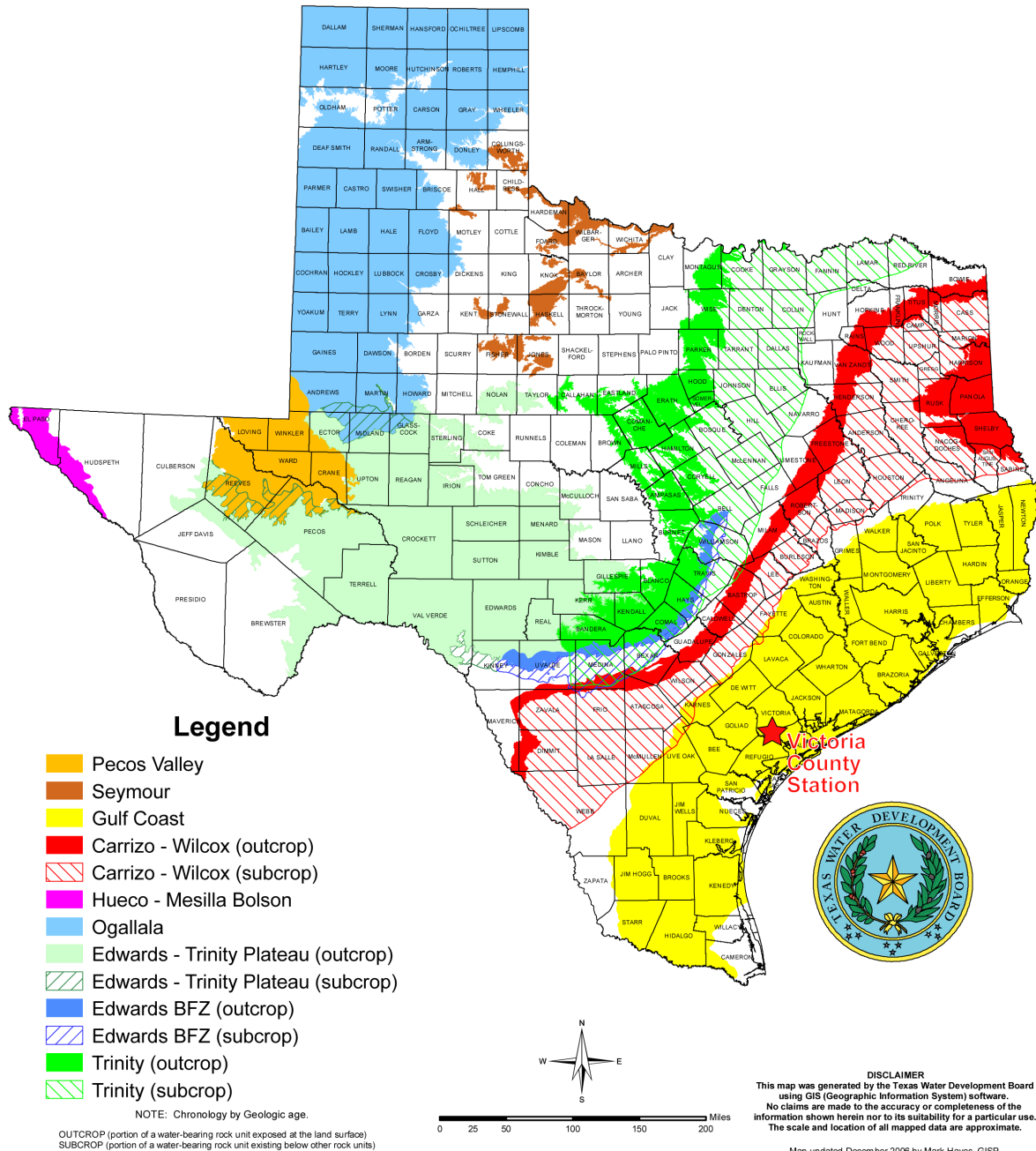


Figure 2.4.12-3 Detailed Site Location Plan

Major Aquifers of Texas



Modified from [Reference 2.4.12-4](#)

Figure 2.4.12-4 Major Aquifers of Texas

Era	System	Series	Stratigraphic unit <small>Modified from Baker, 1979</small>	Lithology	Hydrogeologic unit commonly used in Texas <small>Modified from Baker, 1979</small>	Hydrogeologic nomenclature used by USGS <small>Modified from Weiss, 1992</small>	
Cenozoic	Quaternary	Holocene	Alluvium				Coastal lowlands aquifer system
		Pleistocene	Beaumont Formation Montgomery Formation Bentley Formation Willis Sand	Sand, silt, and clay	Chicot aquifer	Permeable zone A	
				Sand, silt, and clay		Permeable zone B	
	Tertiary	Pliocene	Goliad Sand		Evangeline aquifer	Permeable zone C	
		Miocene	Fleming Formation	Clay, silt and sand	Burkeville confining unit	Zone D confining unit [1]	
			Oakville Sandstone				
			Catahoula Sandstone or Tuff [2]	Sand, silt, and clay	Catahoula confining unit (restricted)	Permeable zone D	
			Anahuac Formation [1]	Clay, silt and sand		Zone E confining unit [1]	
			Frio Formation [1]	Sand, silt, and clay		Permeable zone E	
		Oligocene	Frio Clay [3]		Vicksburg-Jackson confining unit		
			Vicksburg Formation [1]				
		Eocene	Jackson Group Whitsett Formation Manning Clay Wellborn Sandstone Caddell Formation	Clay and silt			

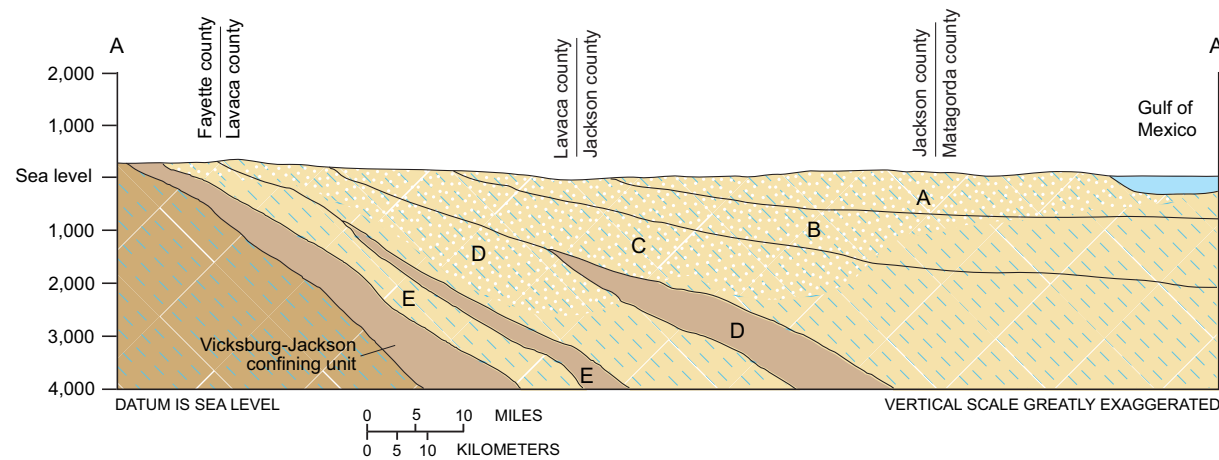
[1] Present only in the subsurface

[2] Called Catahoula Tuff west of Lavaca County




[3] Not recognized at surface east of Live Oak County

Modified from [Reference 2.4.12-3](#)

Figure 2.4.12-5 Correlation of USGS and Texas Nomenclature

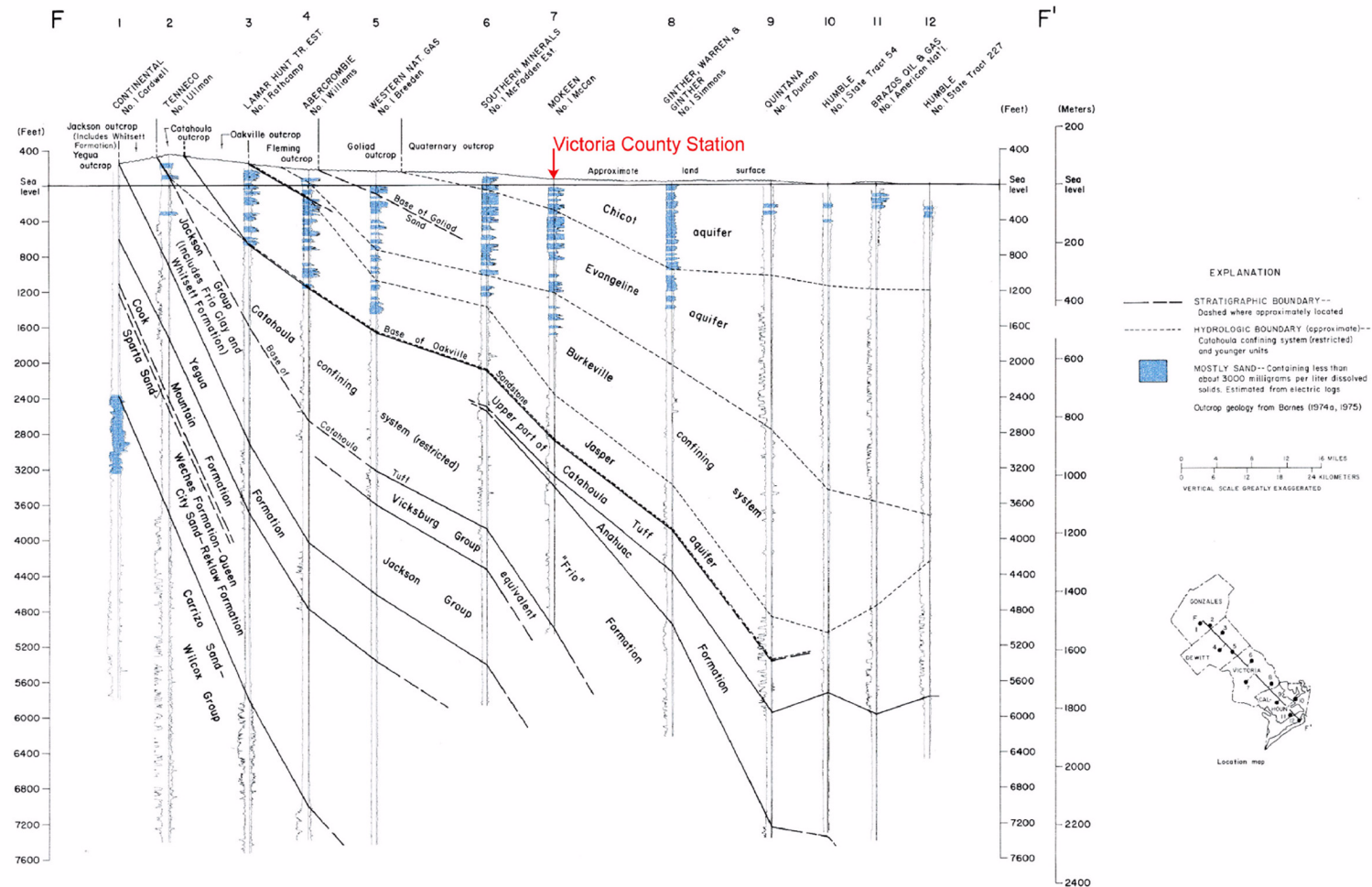


Notes:

-  Coastal lowlands aquifer system—Dot patterned area indicates freshwater
-  Texas coastal uplands aquifer system
-  Confining unit
- D Hydrogeologic unit—See Figure 2.4.12-5

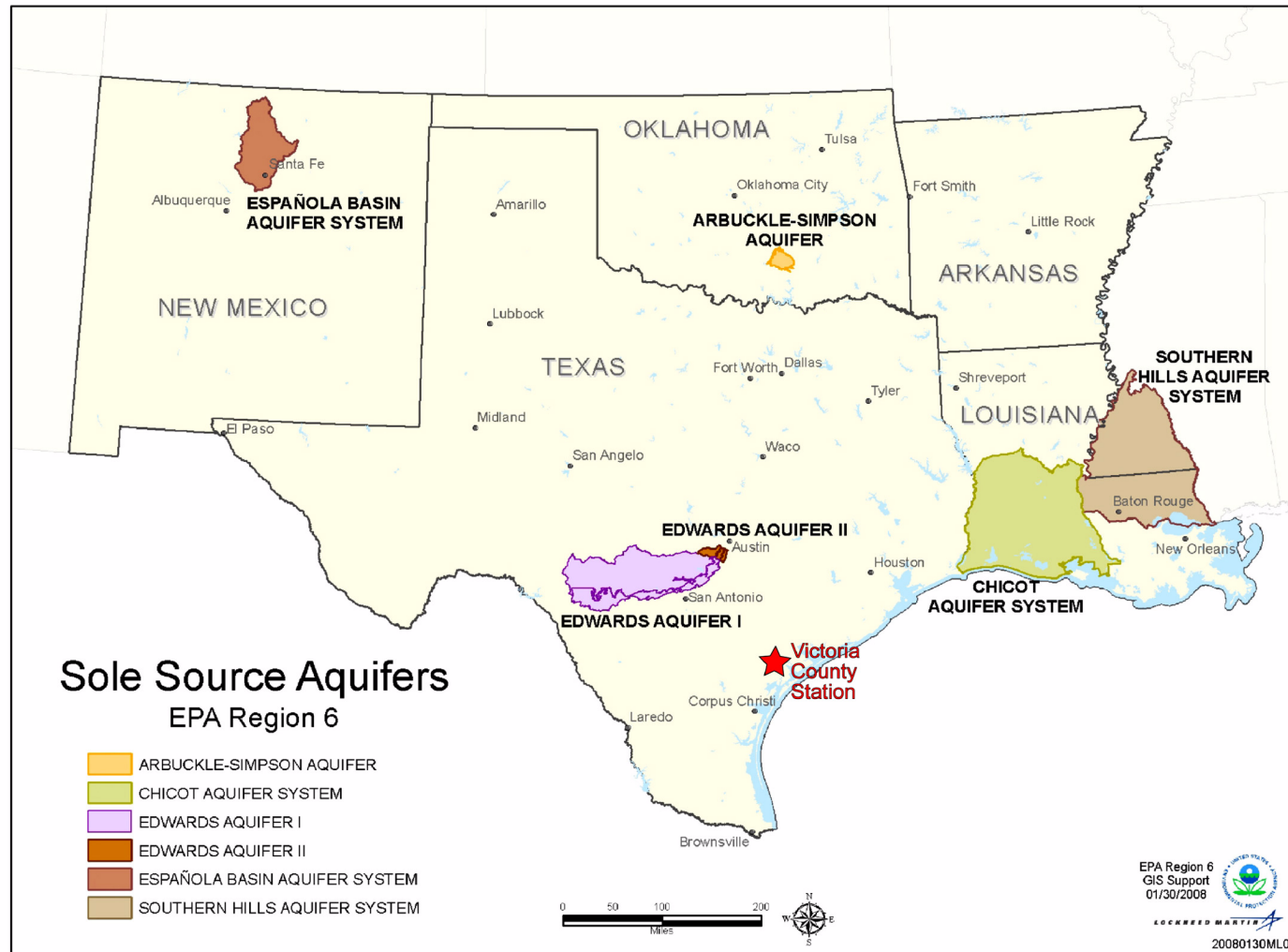
Modified from [Reference 2.4.12-3](#)

Figure 2.4.12-6 Generalized Cross Section through the Coastal Lowlands/Coastal Uplands Aquifer Systems



Modified from [Reference 2.4.12-5](#), Stratigraphic and Hydrogeologic Section F-F'

Figure 2.4.12-7 Regional Hydrogeologic Cross Section through the Gulf Coast Aquifer System

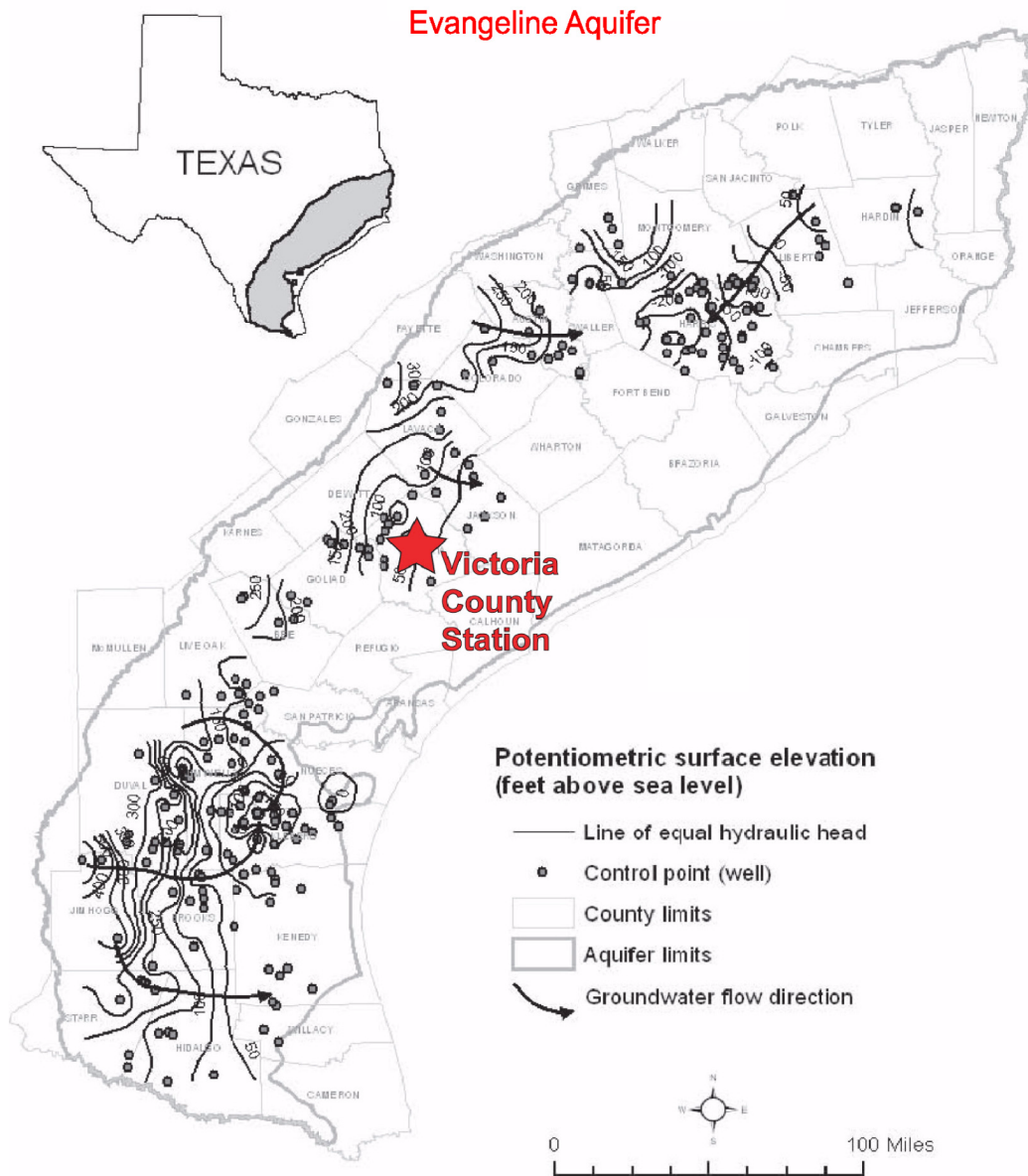


Modified from [Reference 2.4.12-7](#)

Figure 2.4.12-8 Sole Source Aquifers EPA Region 6

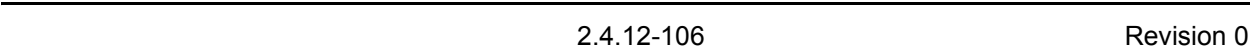


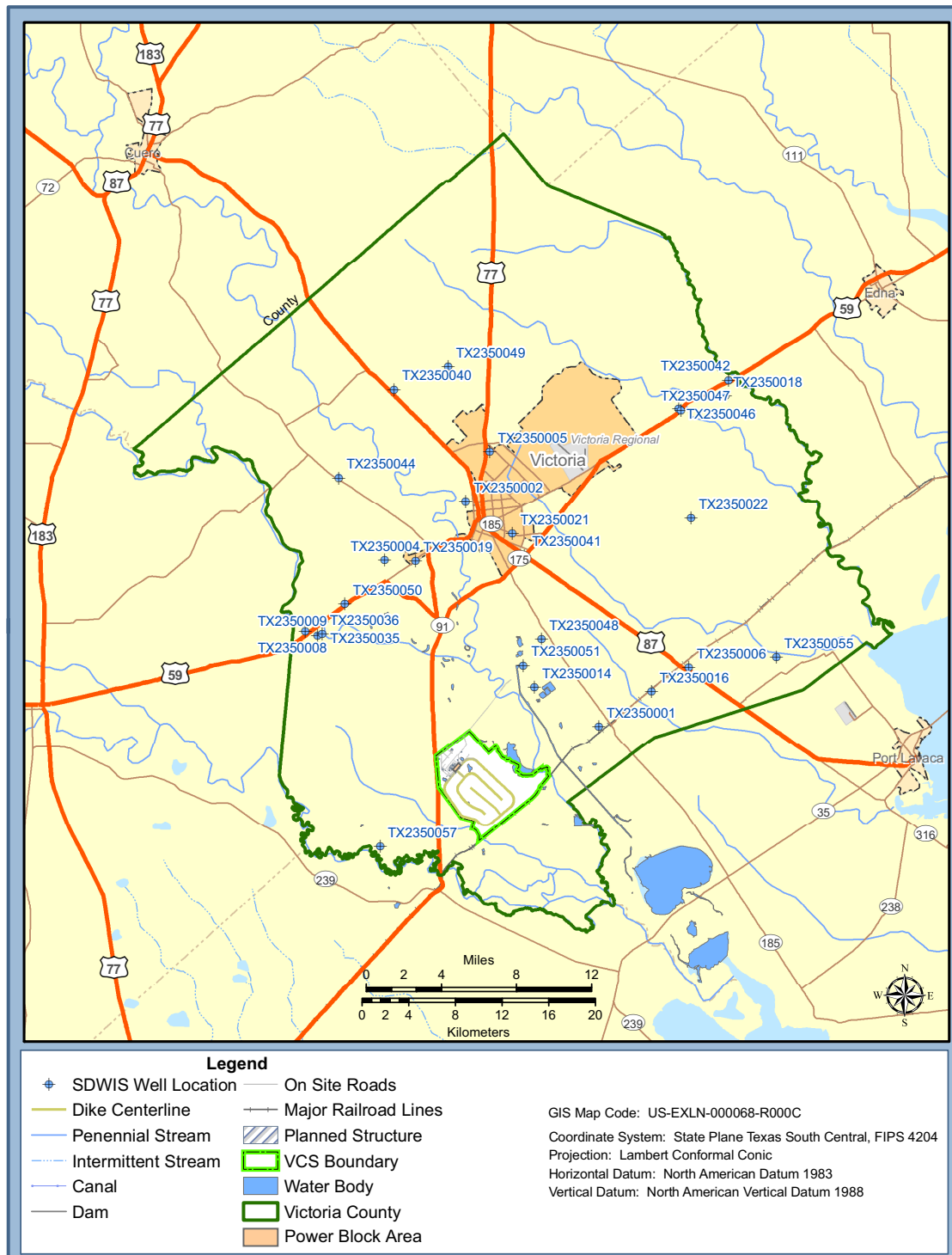
2.4.12-104 Revision 0



Modified from [Reference 2.4.12-6](#)

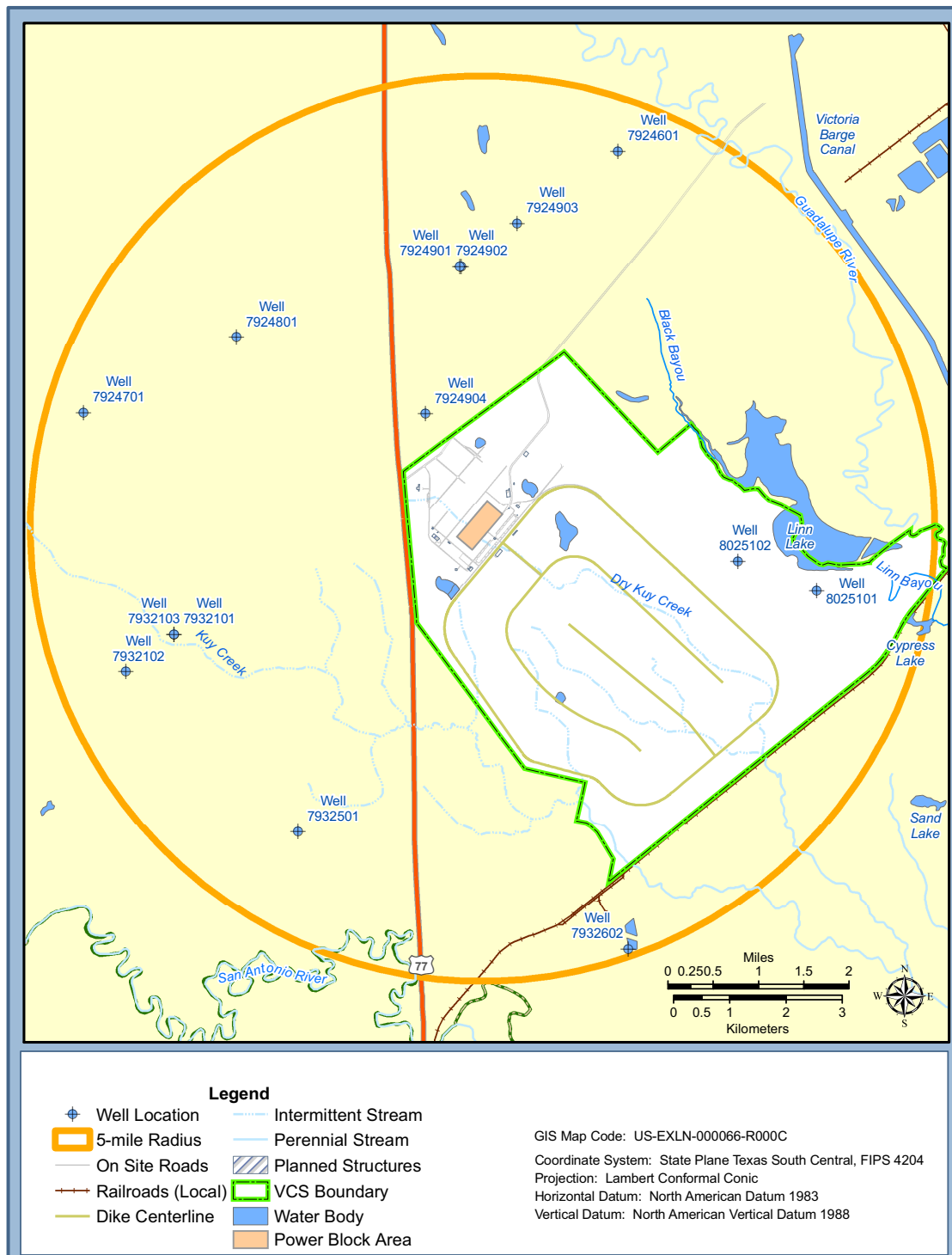
Figure 2.4.12-9 Regional Potentiometric Surface Maps – Evangeline Aquifer, including Water Level Measurements from 2001 to 2005 (Sheet 2 of 2)





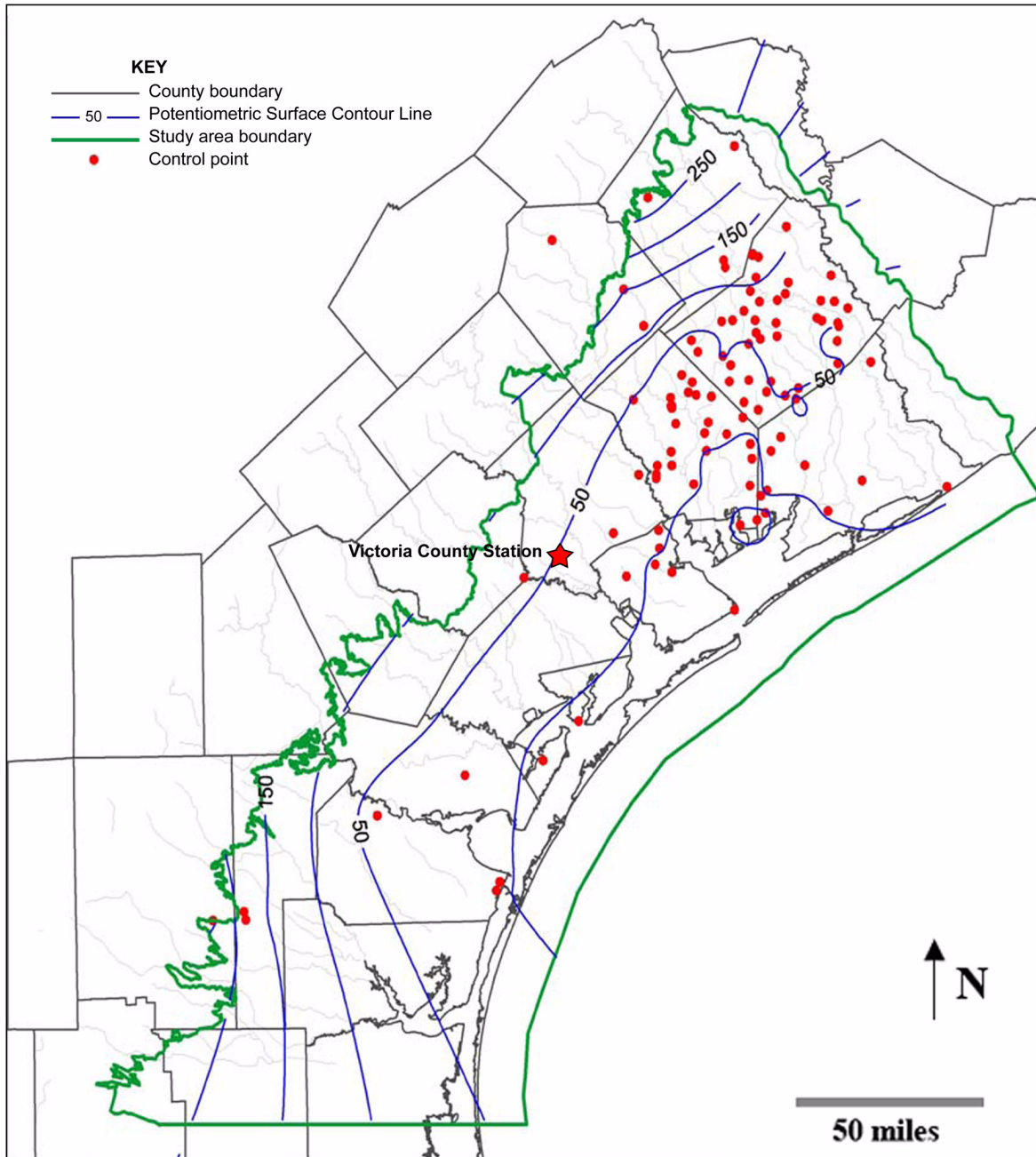
Data obtained from [Reference 2.4.12-9](#)

Figure 2.4.12-11 Safe Drinking Water Well Locations, Victoria County, TX



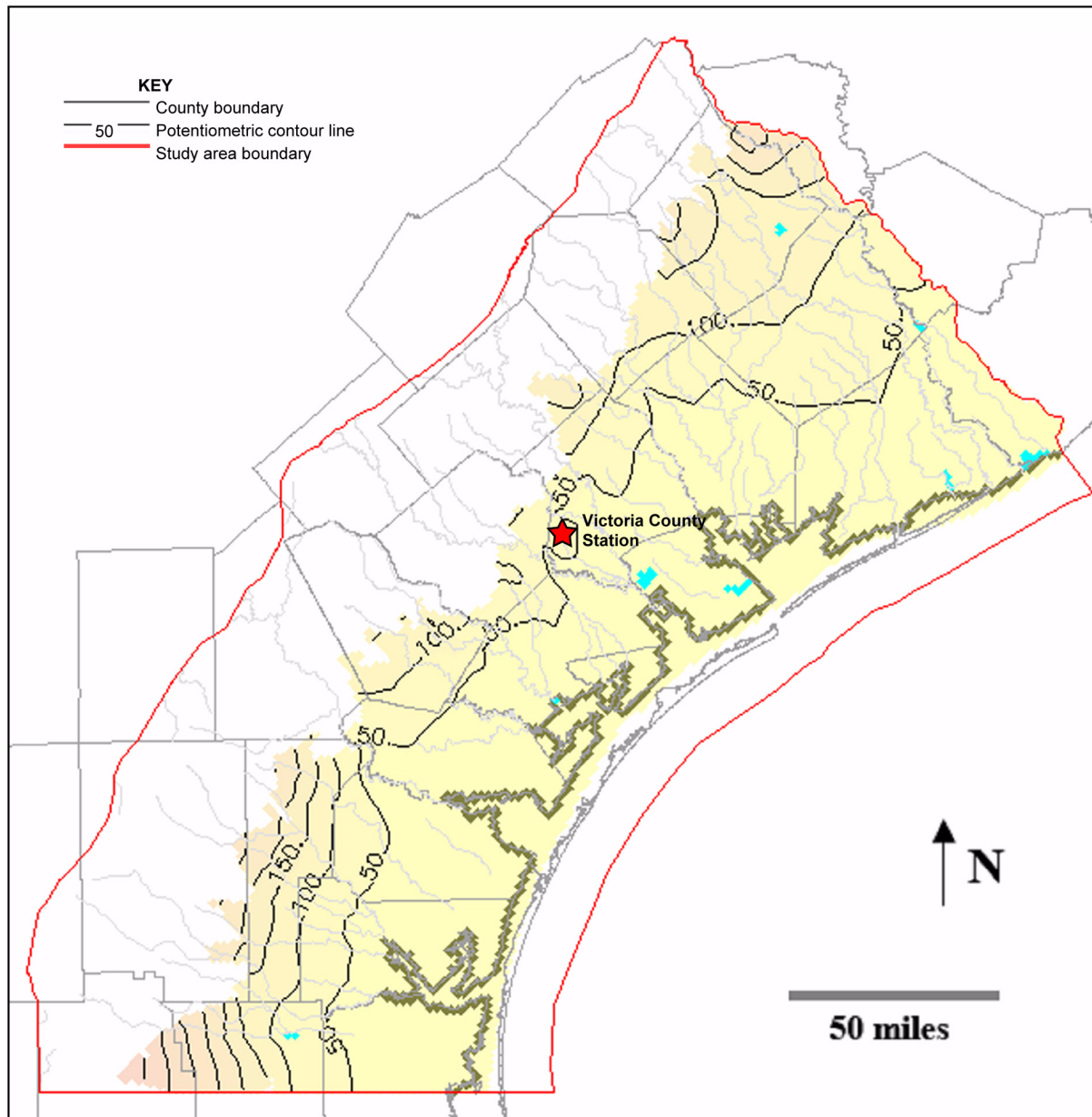
Data obtained from [Reference 2.4.12-10](#)

Figure 2.4.12-12 Texas Community Wells Within a 5-Mile Radius



Modified from [Reference 2.4.12-14](#)

Figure 2.4.12-13 1999 Potentiometric Surface of the Chicot Aquifer



Modified from [Reference 2.4.12-14](#)

Figure 2.4.12-14 Simulated Chicot Aquifer Groundwater Levels from GAM Steady-State Model