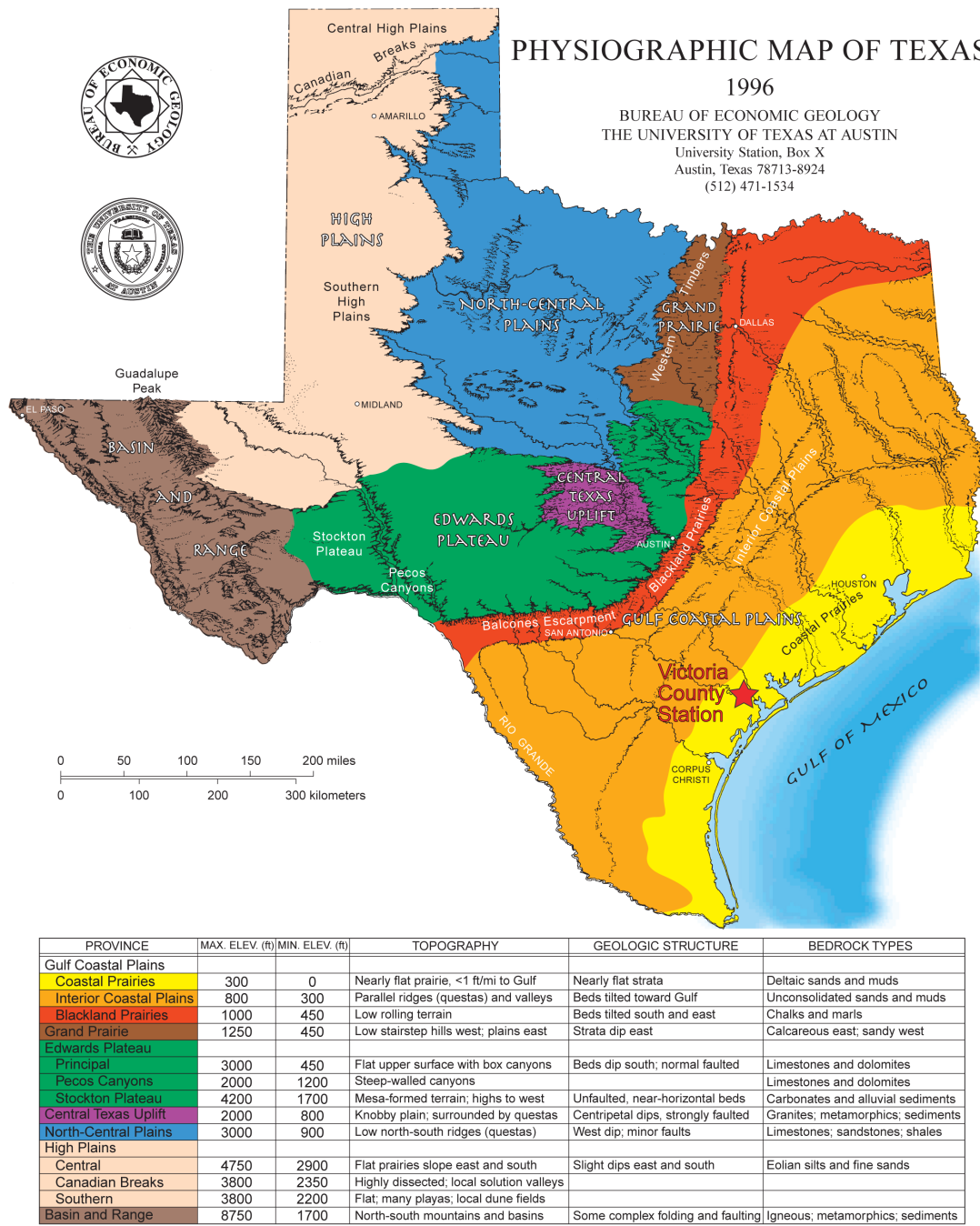




Figure 2.3.1.2-1 Regional Site Location Plan



Modified from Bureau of Economic Geology, 1996.

Figure 2.3.1.2-2 Physiographic Map of Texas

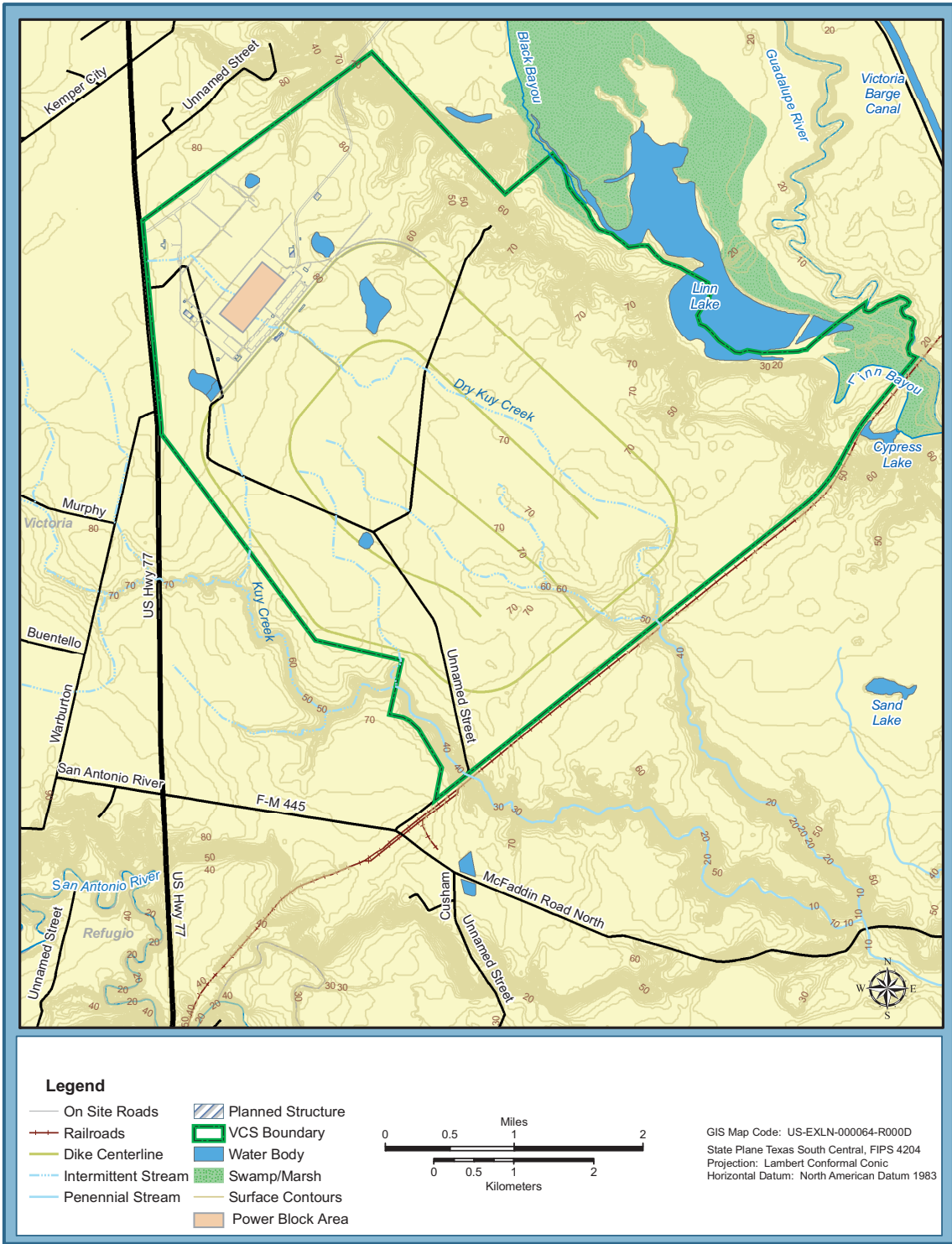
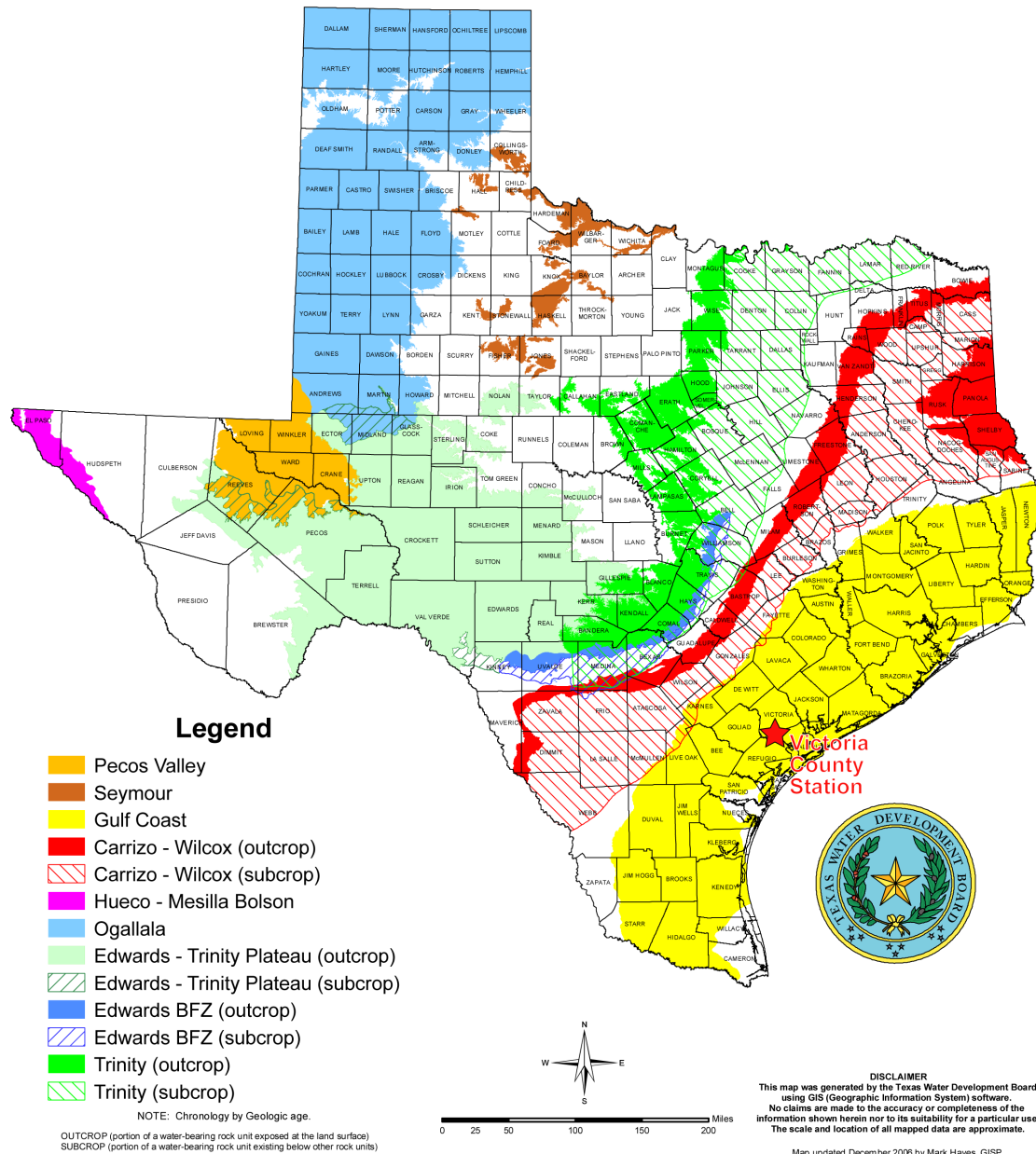


Figure 2.3.1.2-3 Detailed Site Location Plan

Major Aquifers of Texas



Modified from TWDB, 2006a.

Figure 2.3.1.2-4 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		Sand, silt, and clay	Chicot aquifer		Permeable zone A		Coastal lowlands aquifer system	
		Pleistocene	Beaumont Formation Montgomery Formation Bentley Formation Willis Sand					Permeable zone B			
			Tertiary	Pliocene	Goliad Sand		Sand, silt, and clay	Evangeline aquifer			Permeable zone C
	Miocene	Fleming Formation			Clay, silt and sand	Burkeville confining unit		Zone D confining unit [1]			
		Oakville Sandstone		Sand, silt, and clay	Catahoula confining unit (restricted)	Jasper aquifer		Permeable zone D			
		Catahoula Sandstone or Tuff [2]						Zone E confining unit [1]			
		Anahuac Formation [1]		Clay, silt and sand		Permeable zone E					
		Frio Formation [1]		Sand, silt, and clay							
	Oligocene	Frio Clay [3]		Vicksburg Formation [1]							
		Eocene		Jackson Group		Whitsett Formation Manning Clay Wellborn Sandstone Caddell Formation		Clay and silt	Vicksburg-Jackson confining unit		Vicksburg-Jackson confining unit

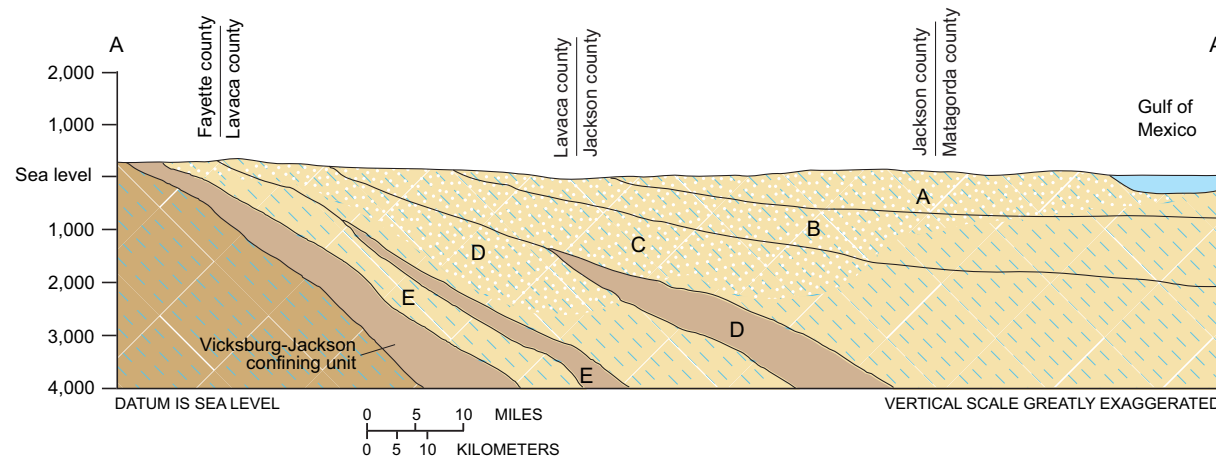
[1] Present only in the subsurface

[2] Called Catahoula Tuff west of Lavaca County





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

Modified from Ryder, 1996.

Figure 2.3.1.2-5 Correlation of USGS and Texas Nomenclature

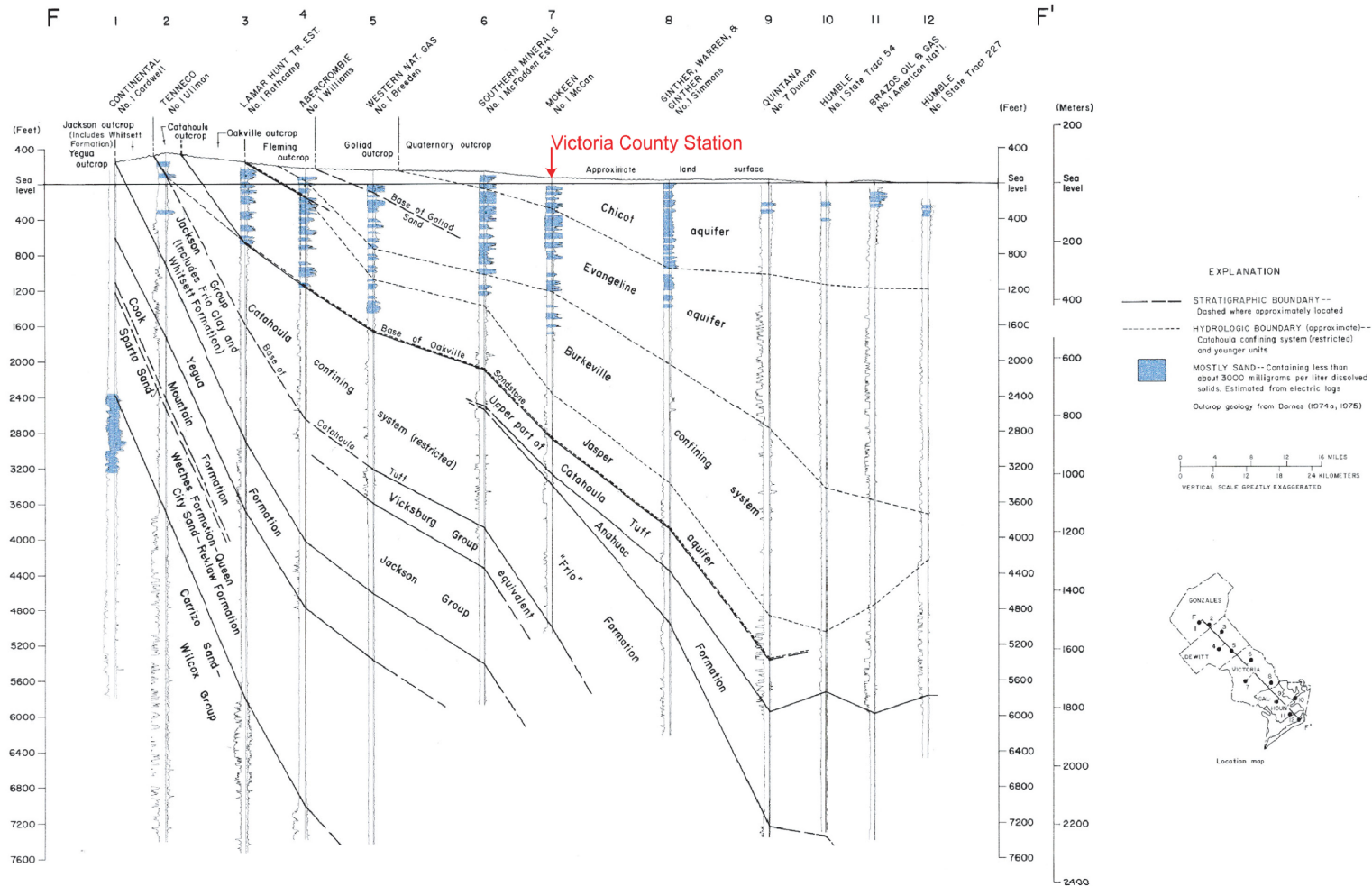


Notes:

-  Coastal lowlands aquifer system—Dot patterned area indicates freshwater
-  Texas coastal uplands aquifer system
-  Confining unit
-  Hydrogeologic unit

Modified from Ryder, 1996.

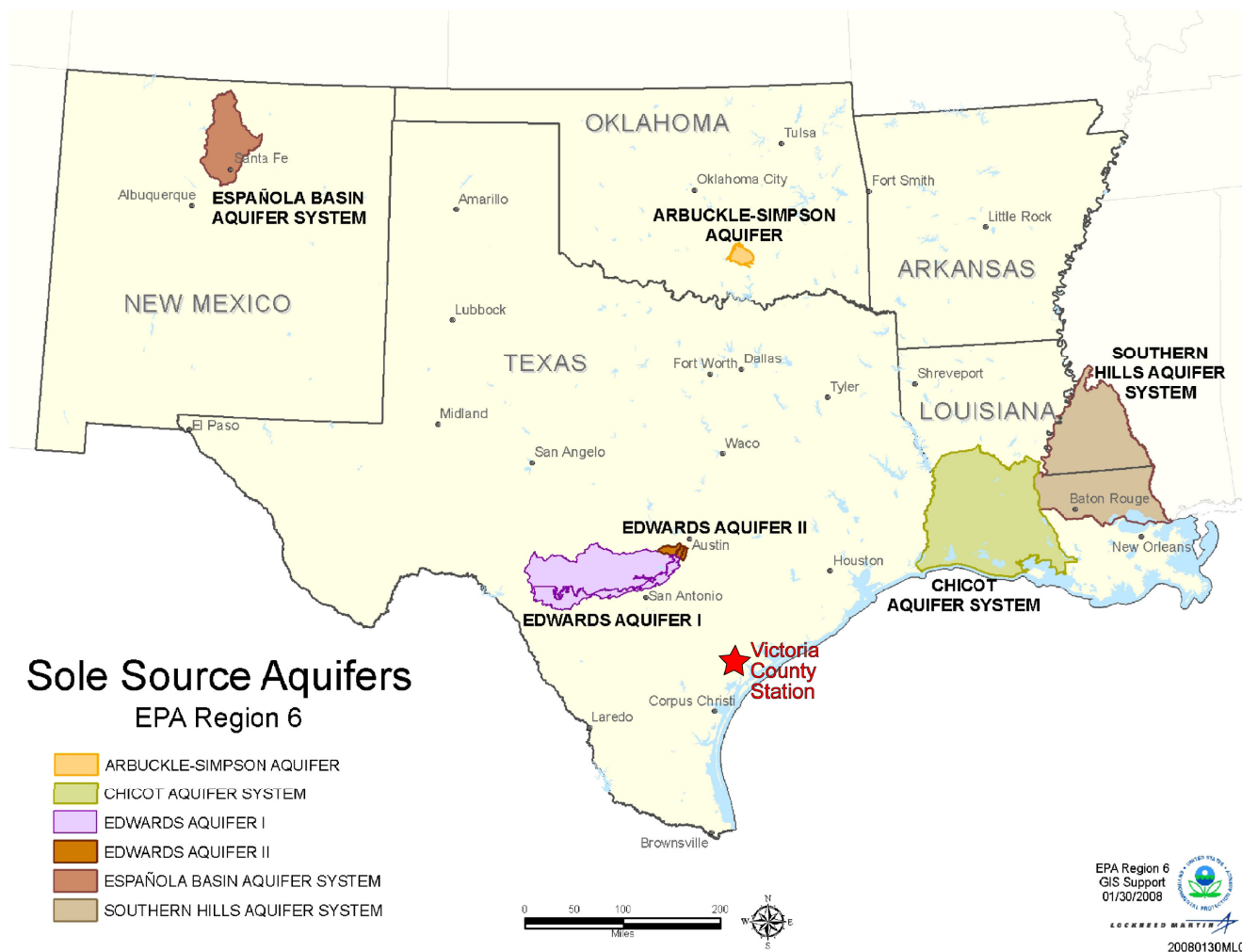
Figure 2.3.1.2-6 Generalized Cross Section through the Coastal Lowlands/Coastal Uplands Aquifer Systems



Stratigraphic and Hydrogeologic Section F-F'

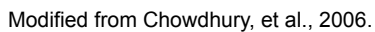
Modified from Baker, 1979.

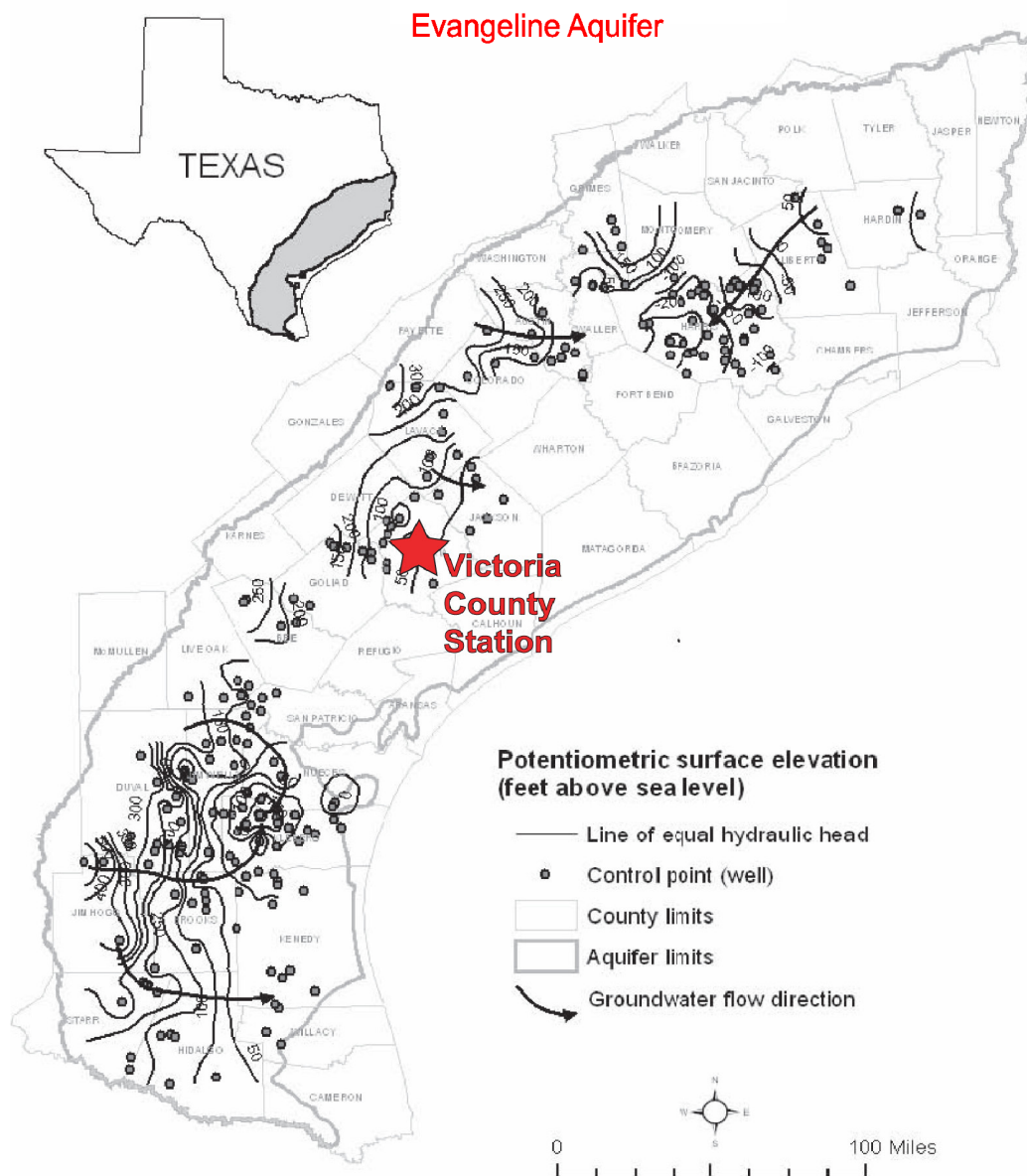
Figure 2.3.1.2-7 Regional Hydrogeologic Cross Section through the Gulf Coast Aquifer System



Modified from U.S. EPA, 2008a.

Figure 2.3.1.2-8 Sole Source Aquifers EPA Region 6





Modified from Chowdhury, et al., 2006.

**Figure 2.3.1.2-9 Regional Potentiometric Surface Map for the Chicot Aquifer,
including Water Level Measurements from 2001 to 2005 (Sheet 2 of 2)**

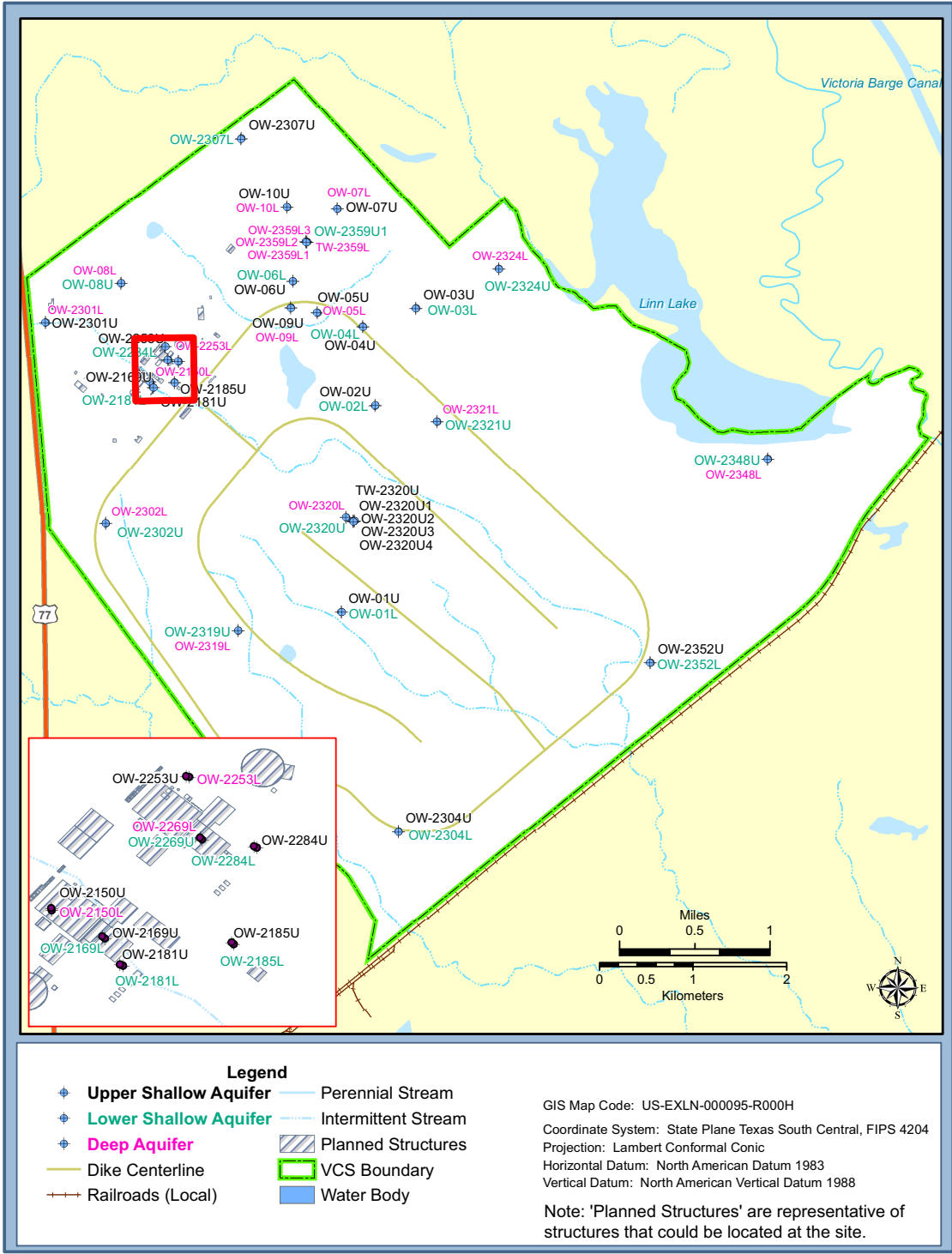
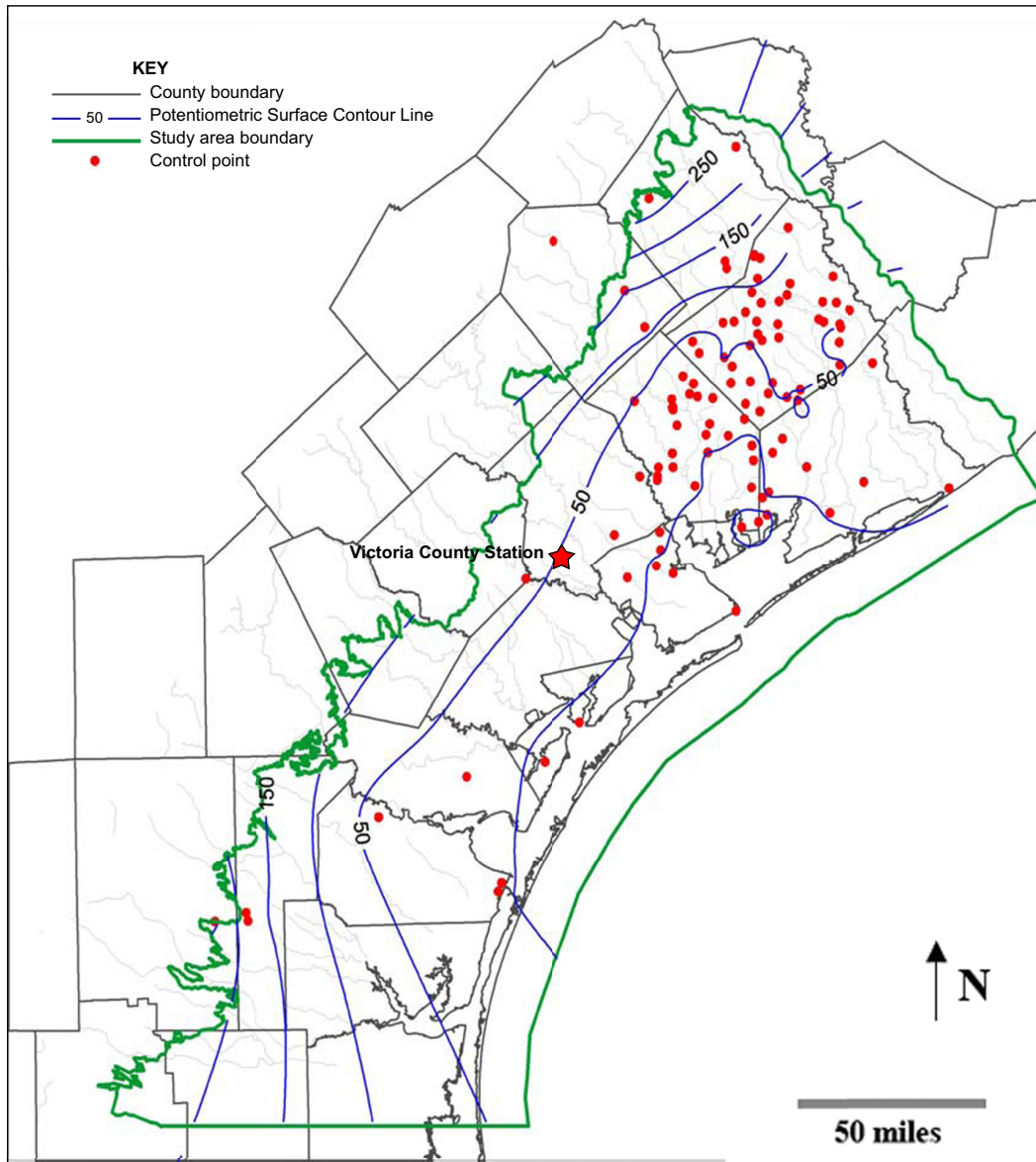
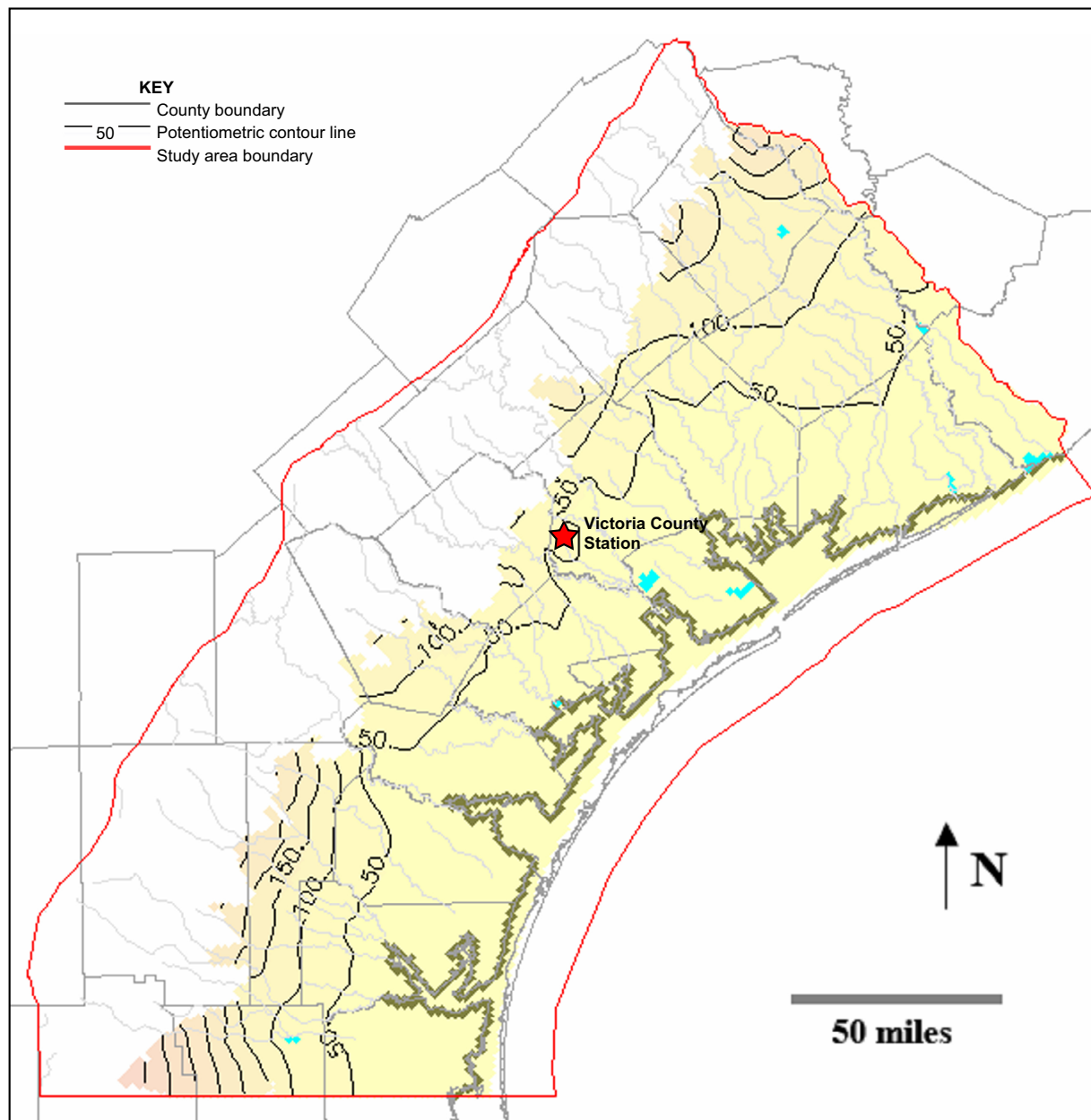


Figure 2.3.1.2-10 VCS Site Well Location Plan



Modified from Chowdhury, et al., 2004.

Figure 2.3.1.2-11 1999 Potentiometric Surface of the Chicot Aquifer



Modified from Chowdhury, et al., 2004.

**Figure 2.3.1.2-12 Simulated Chicot Aquifer Groundwater Levels from
GAM Steady-State Model**