

Figure 2.3.1-1 Site Map of STP 3 & 4

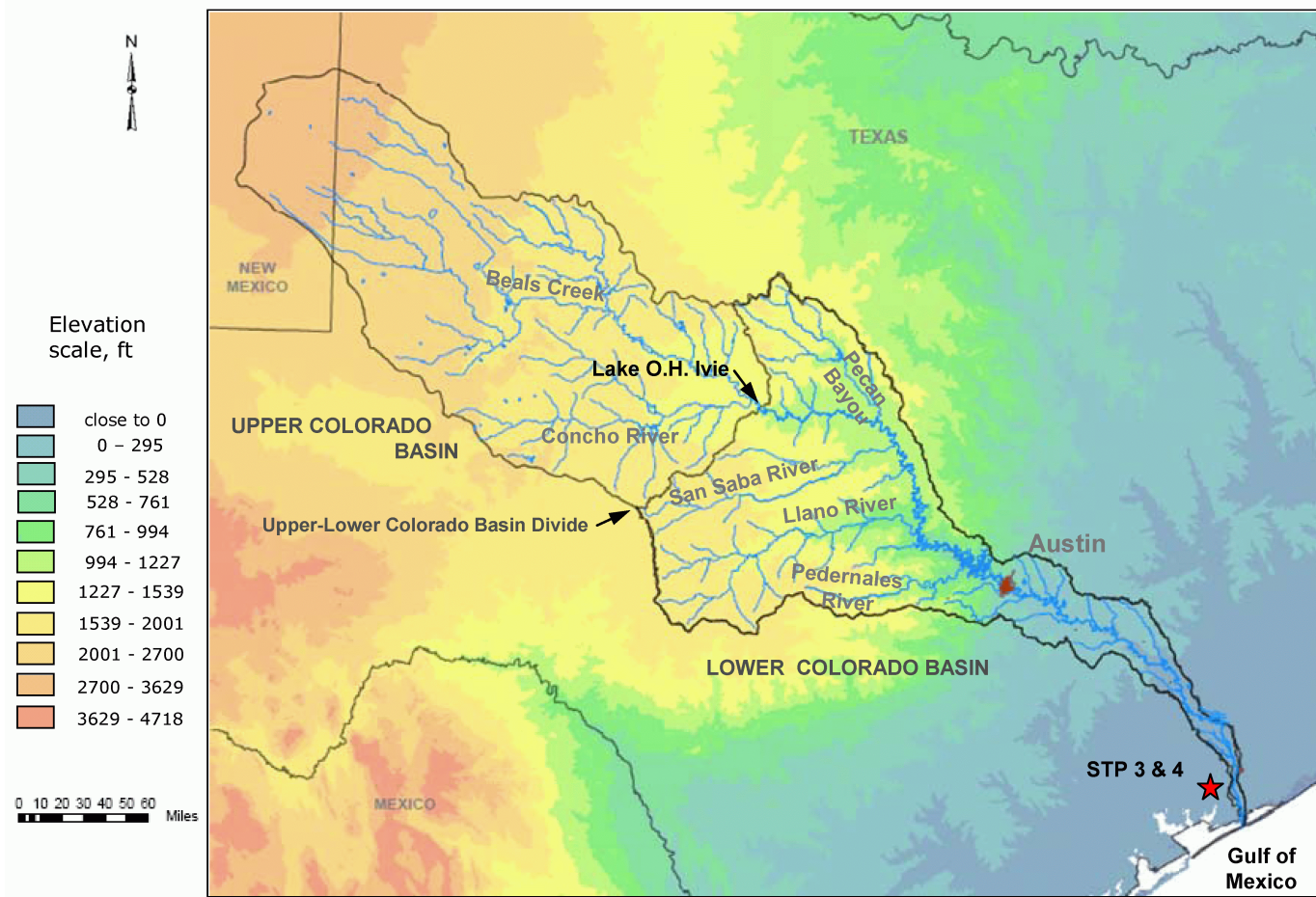


Figure 2.3.1-2 The Colorado River Basin (Reference 2.3.1-2)

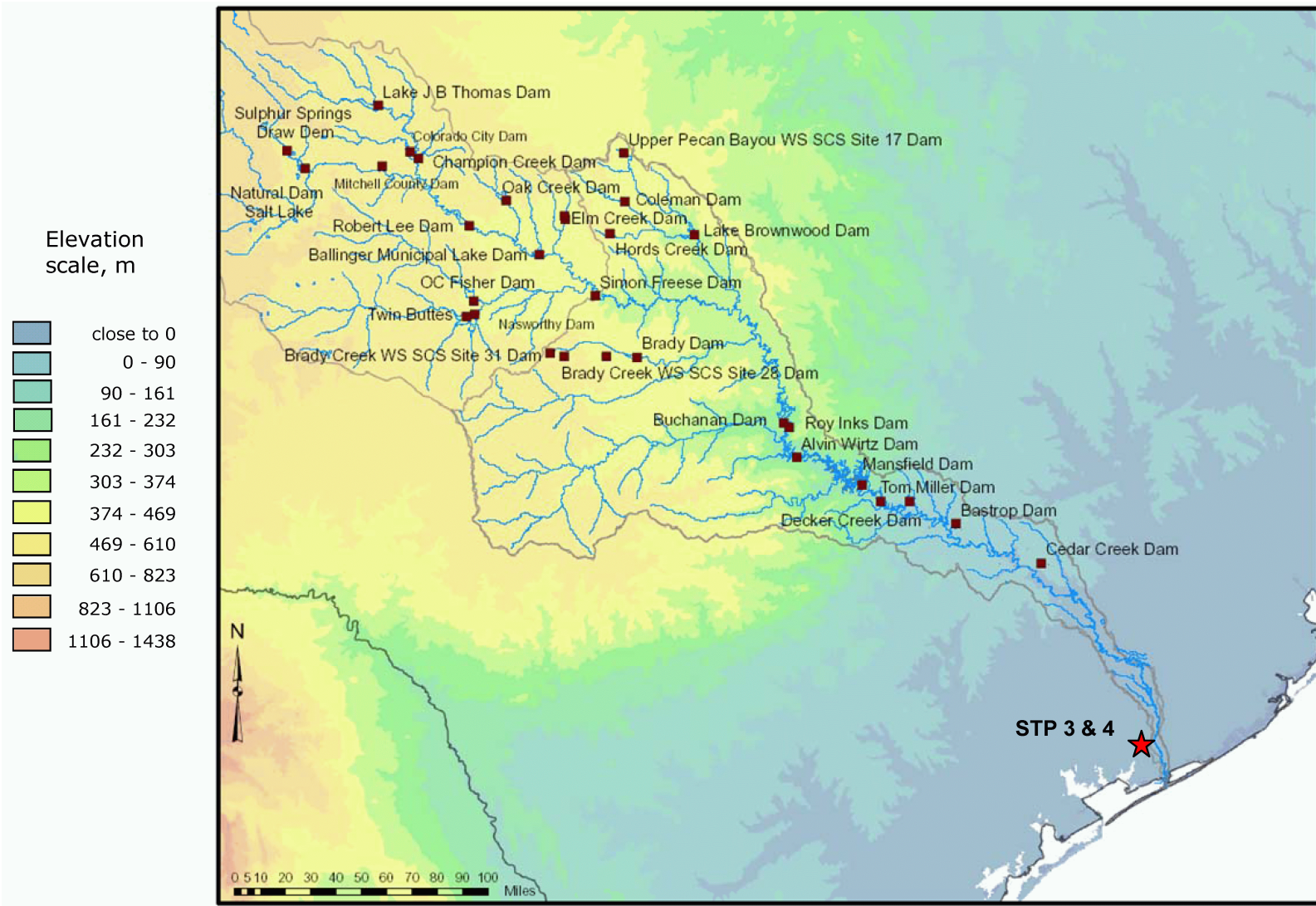


Figure 2.3.1-3 Major Dams in the Colorado River Basin (Location of Dams from Reference 2.3.1-4)

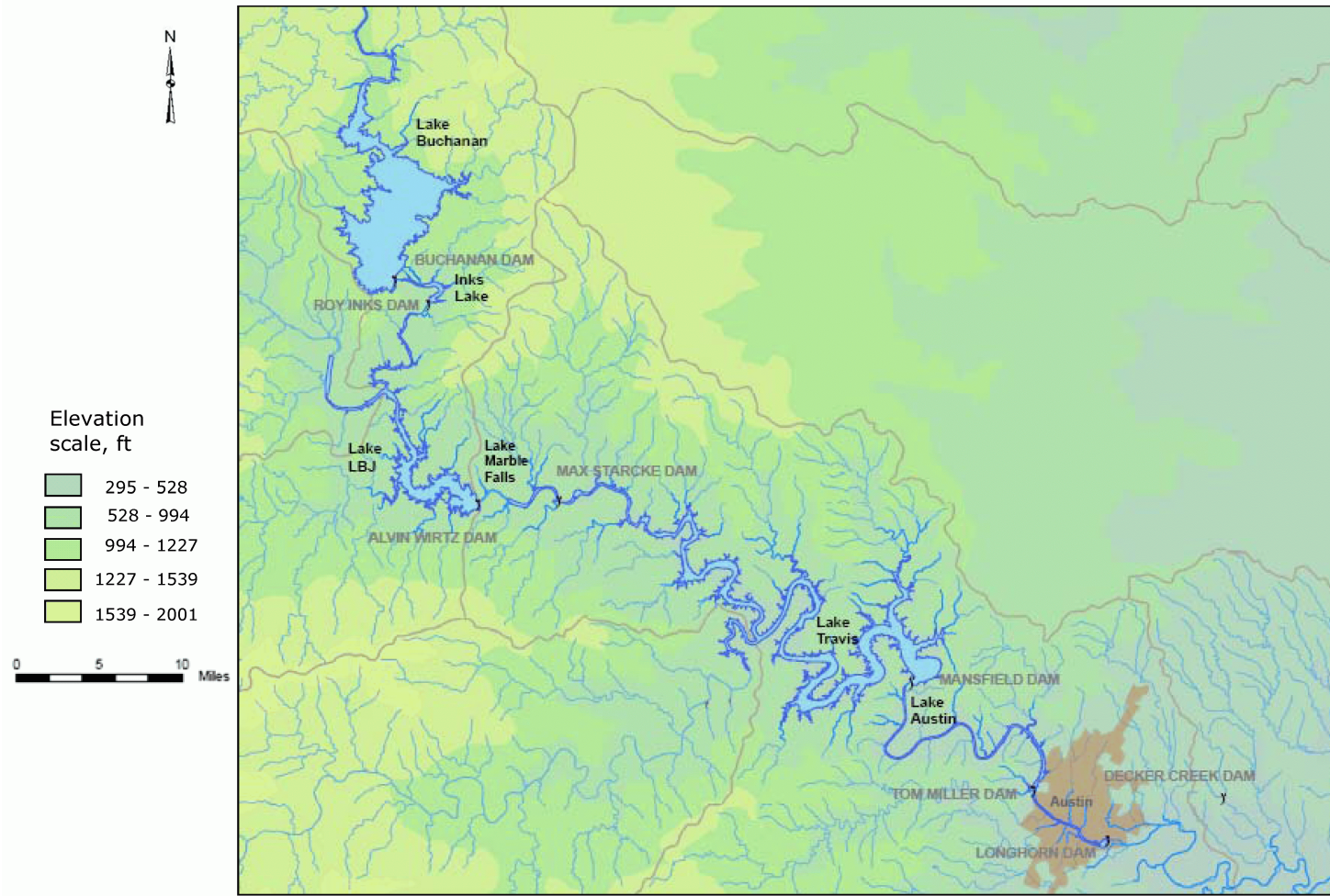


Figure 2.3.1-4 The Highland Lakes and Dams in the Lower Colorado River Basin (Reference 2.3.1-5)

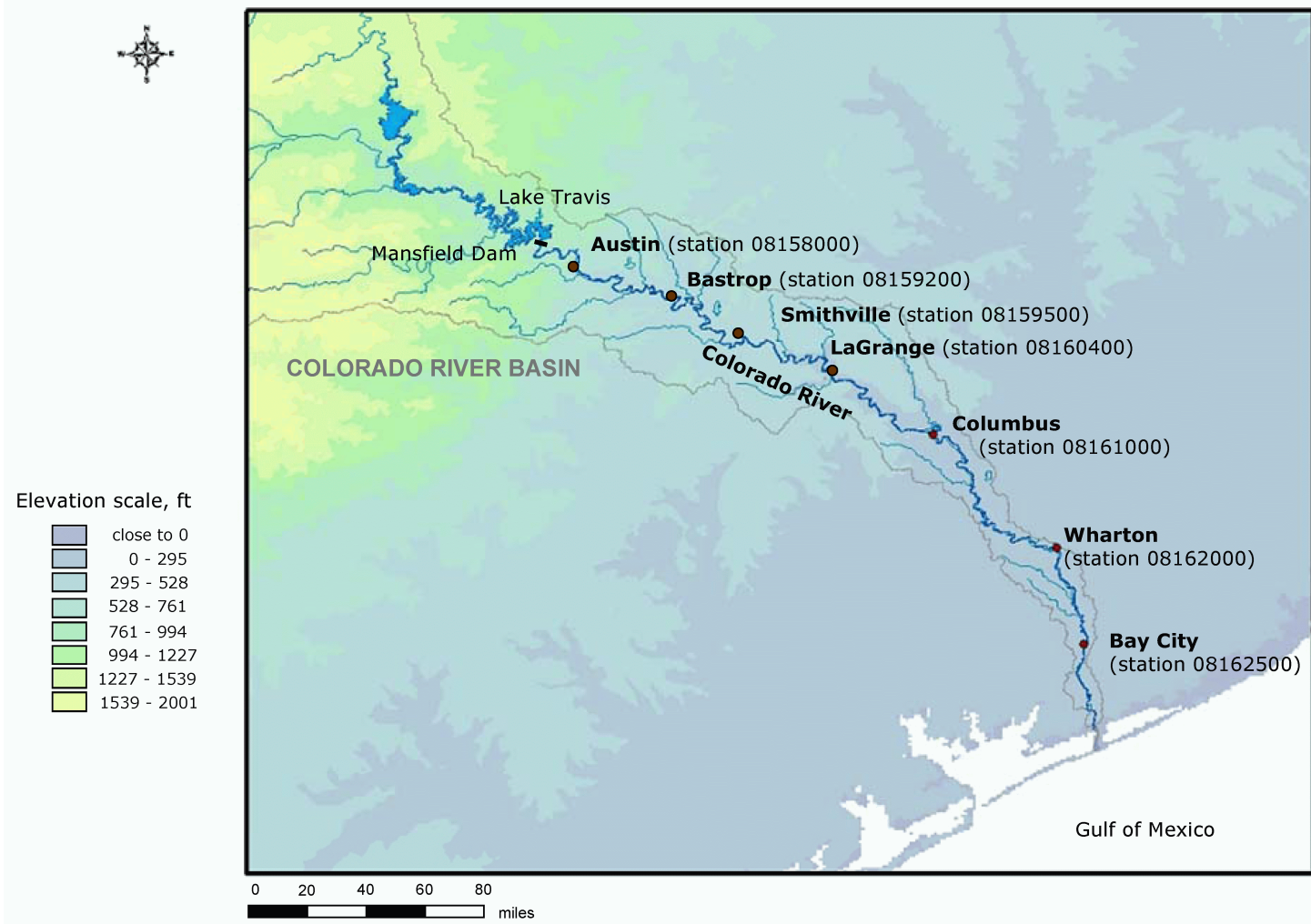


Figure 2.3.1-5 Colorado River Streamflow Gauging Stations Downstream of Mansfield Dam (Reference 2.3.1-6)

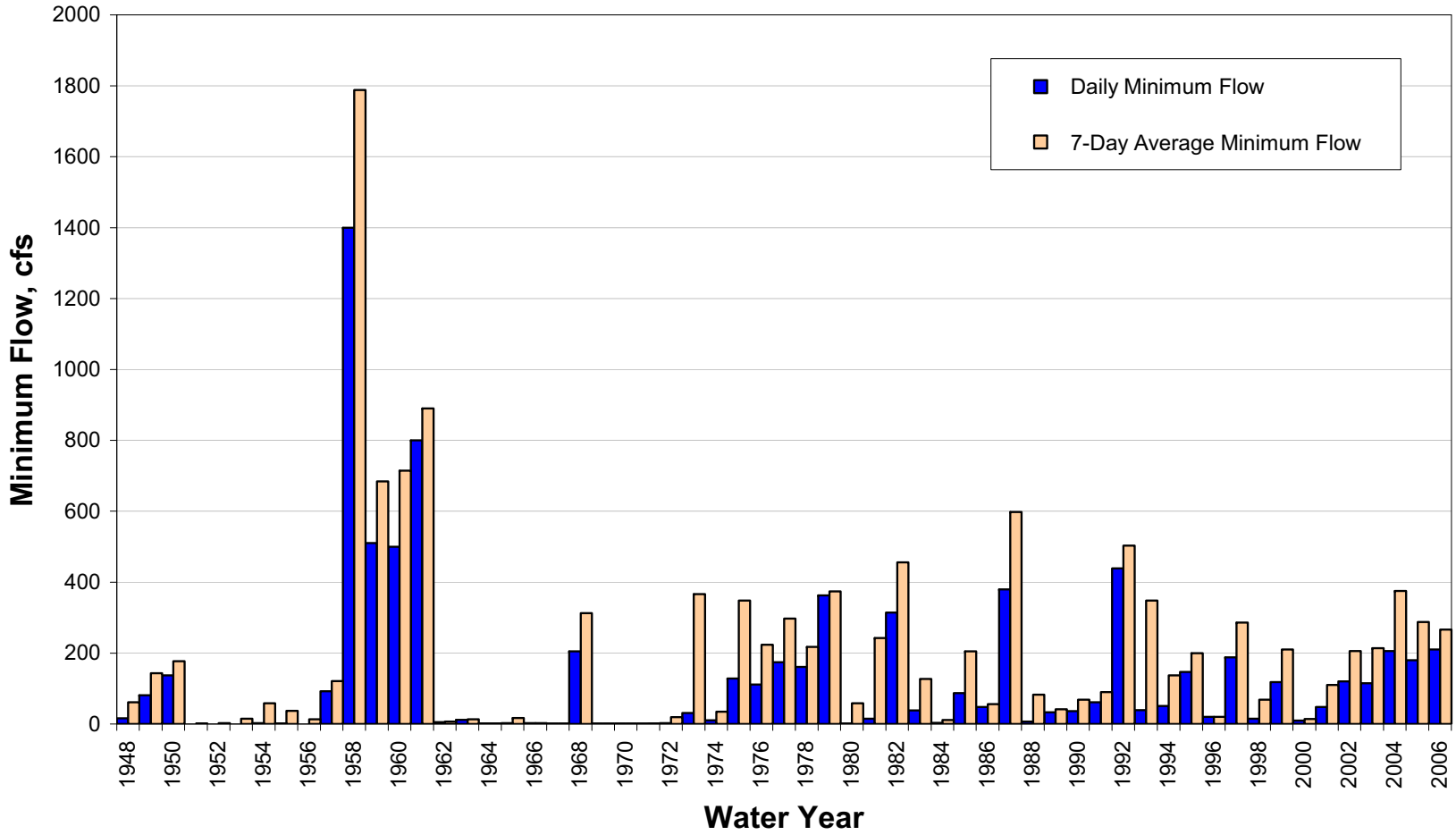


Figure 2.3.1-6 Minimum Daily and 7-Day Flow at Bay City for the Period 1948-2006 (Reference 2.3.1-10)

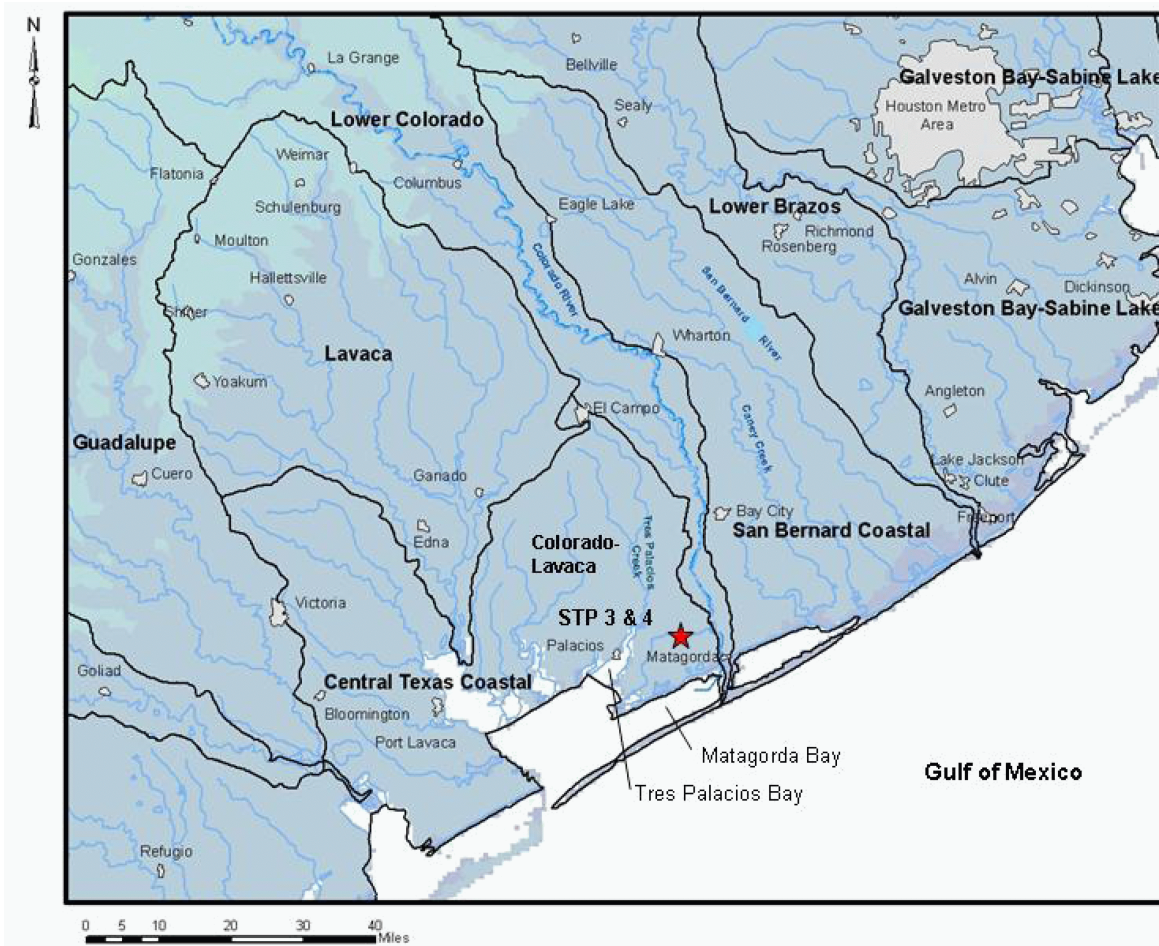


Figure 2.3.1-7 River Basin Map of Texas (Reference 2.3.1-41)

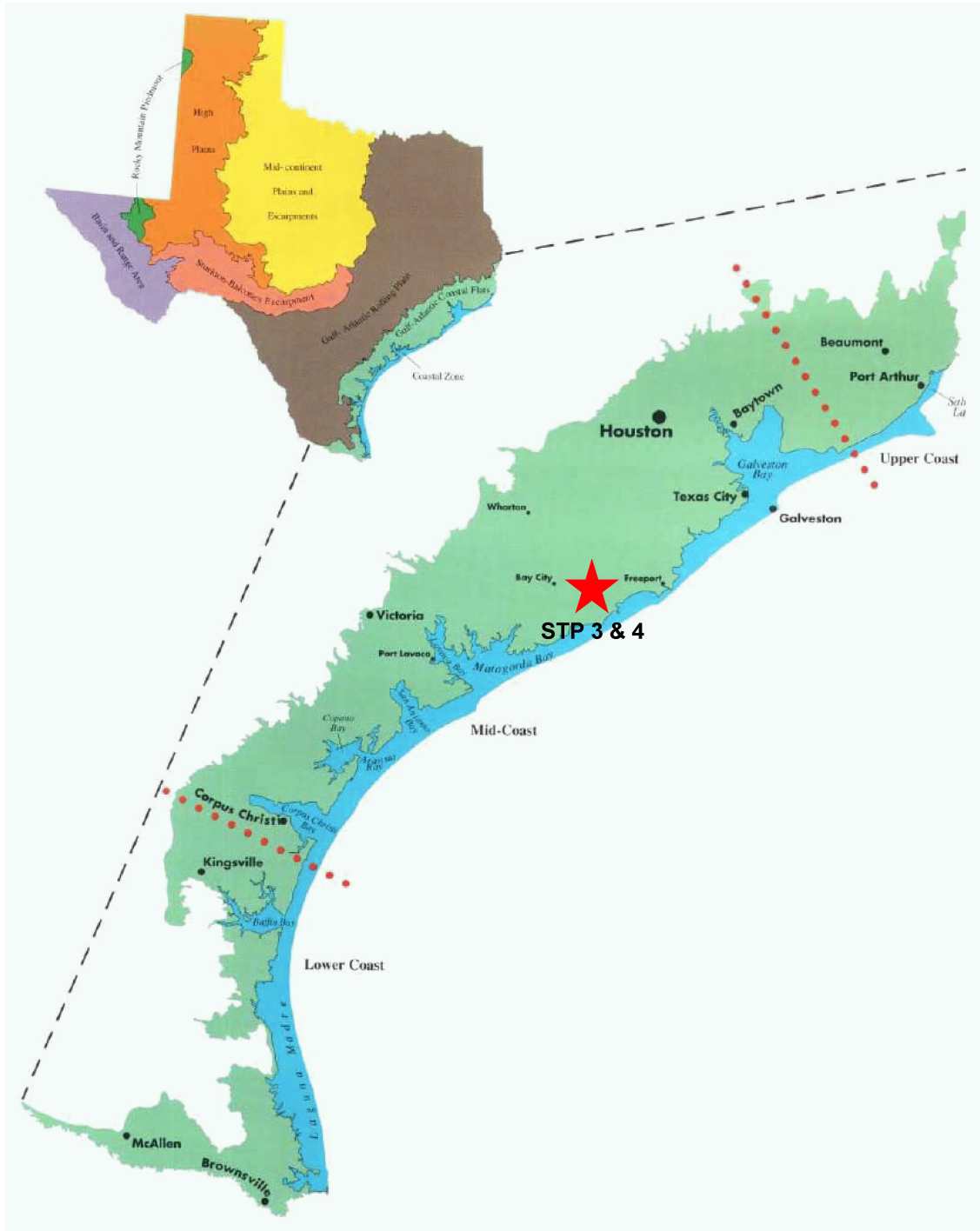


Figure 2.3.1-8 Texas Coastal Wetland Study Area (Reference 2.3.1-13)



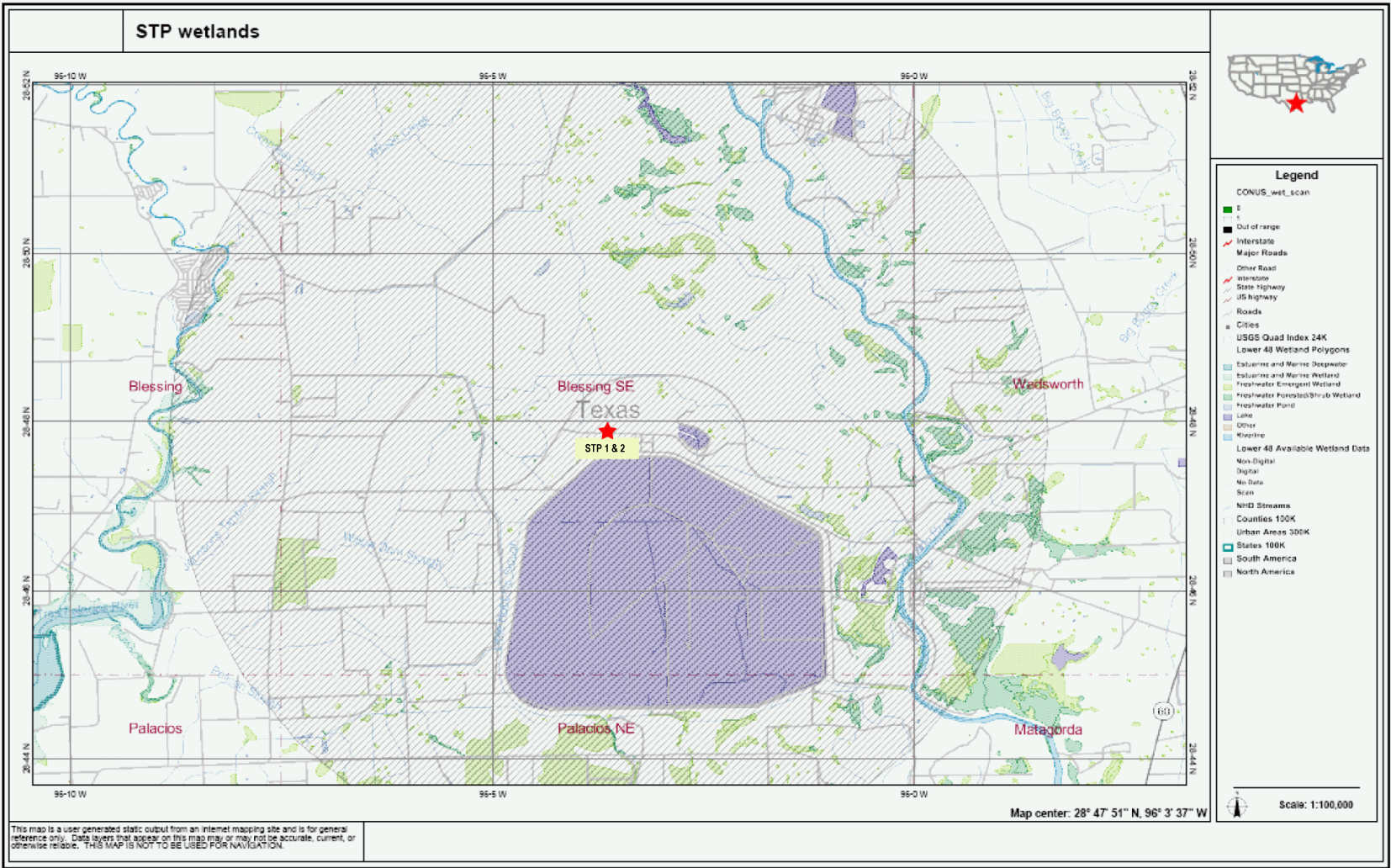


Figure 2.3.1-9 Wetland Distribution within 6 Mile Radius of STP 3 & 4 (Reference 2.3.1-15)

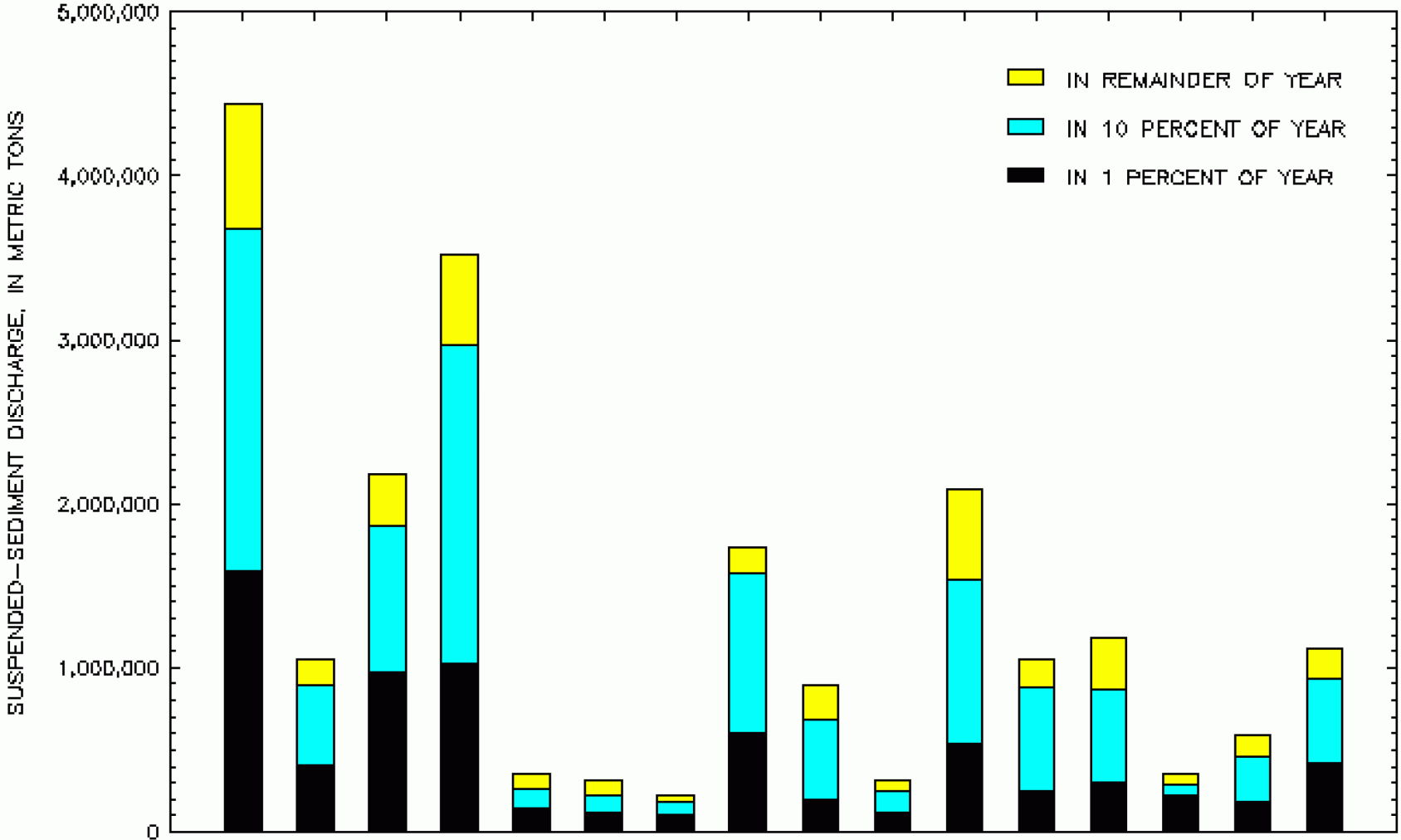


Figure 2.3.1-10 Histogram of Suspended Sediment Load Data on the Colorado River at Columbus Station (Reference 2.3.1-16)

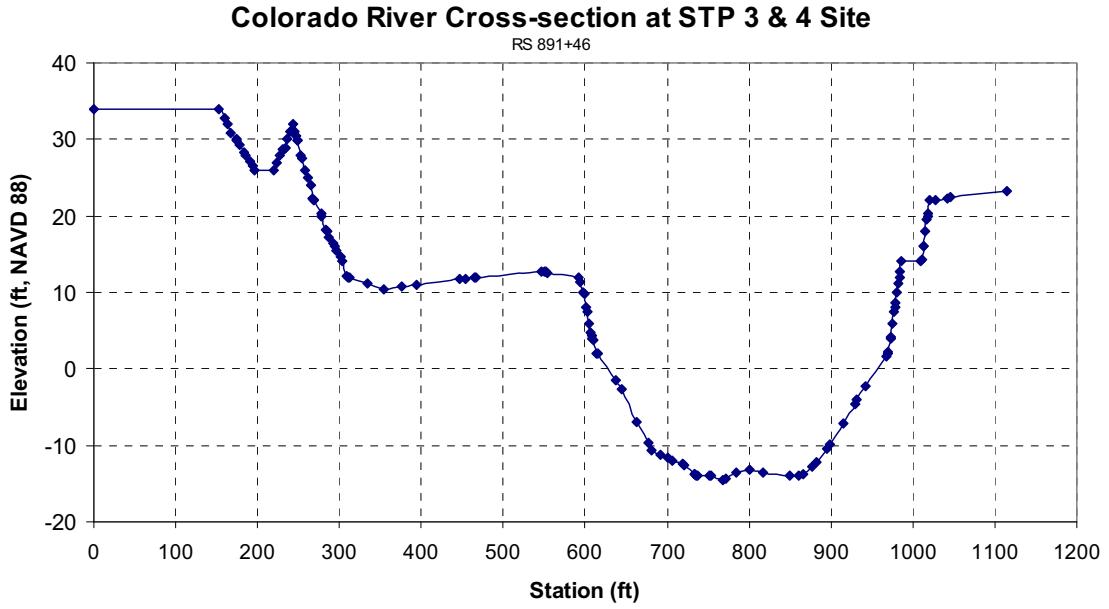


Figure 2.3.1-11 Cross Section of the Colorado River Channel near the Intake Structure

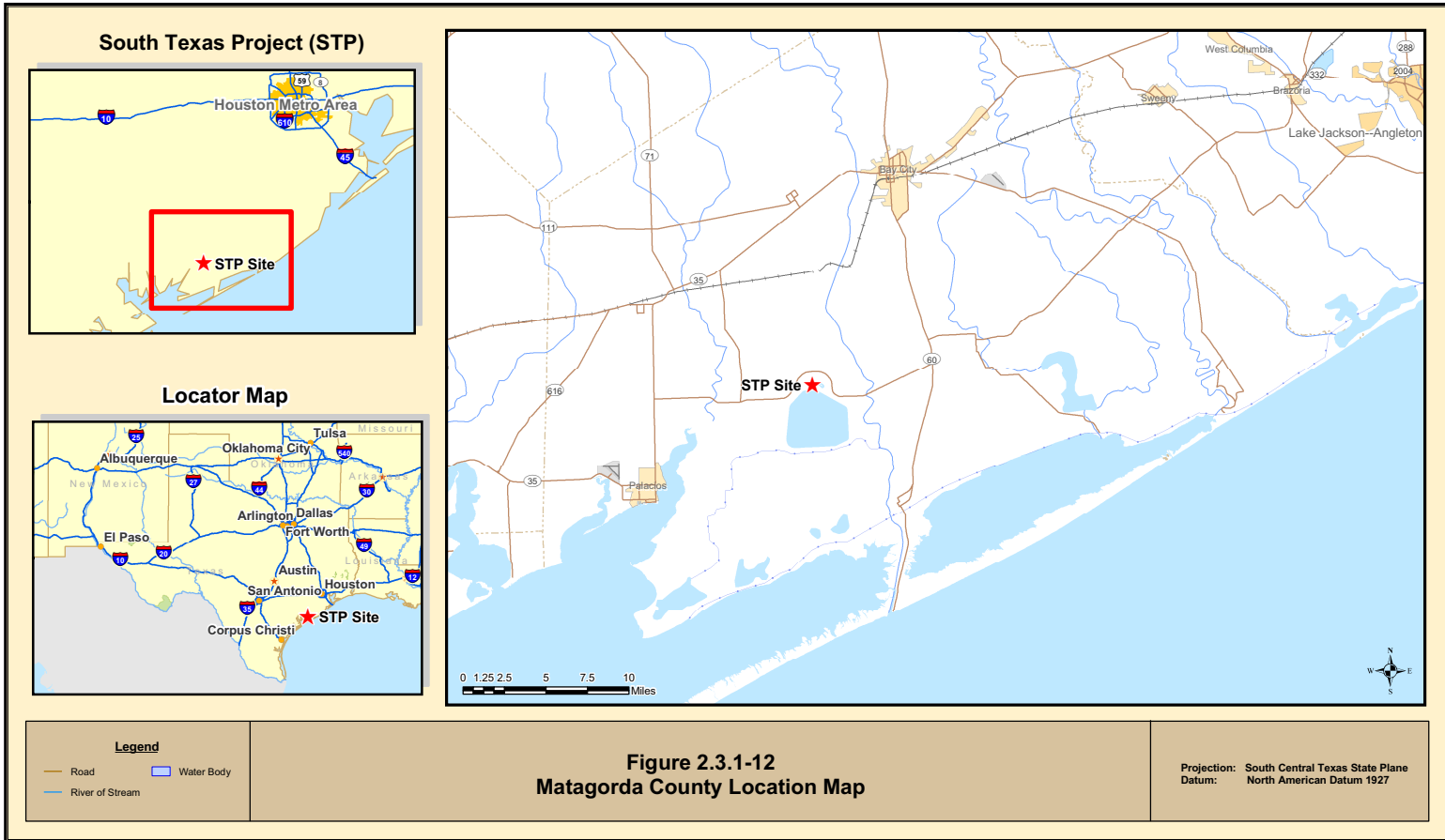


Figure 2.3.1-12 Matagorda County Location Map

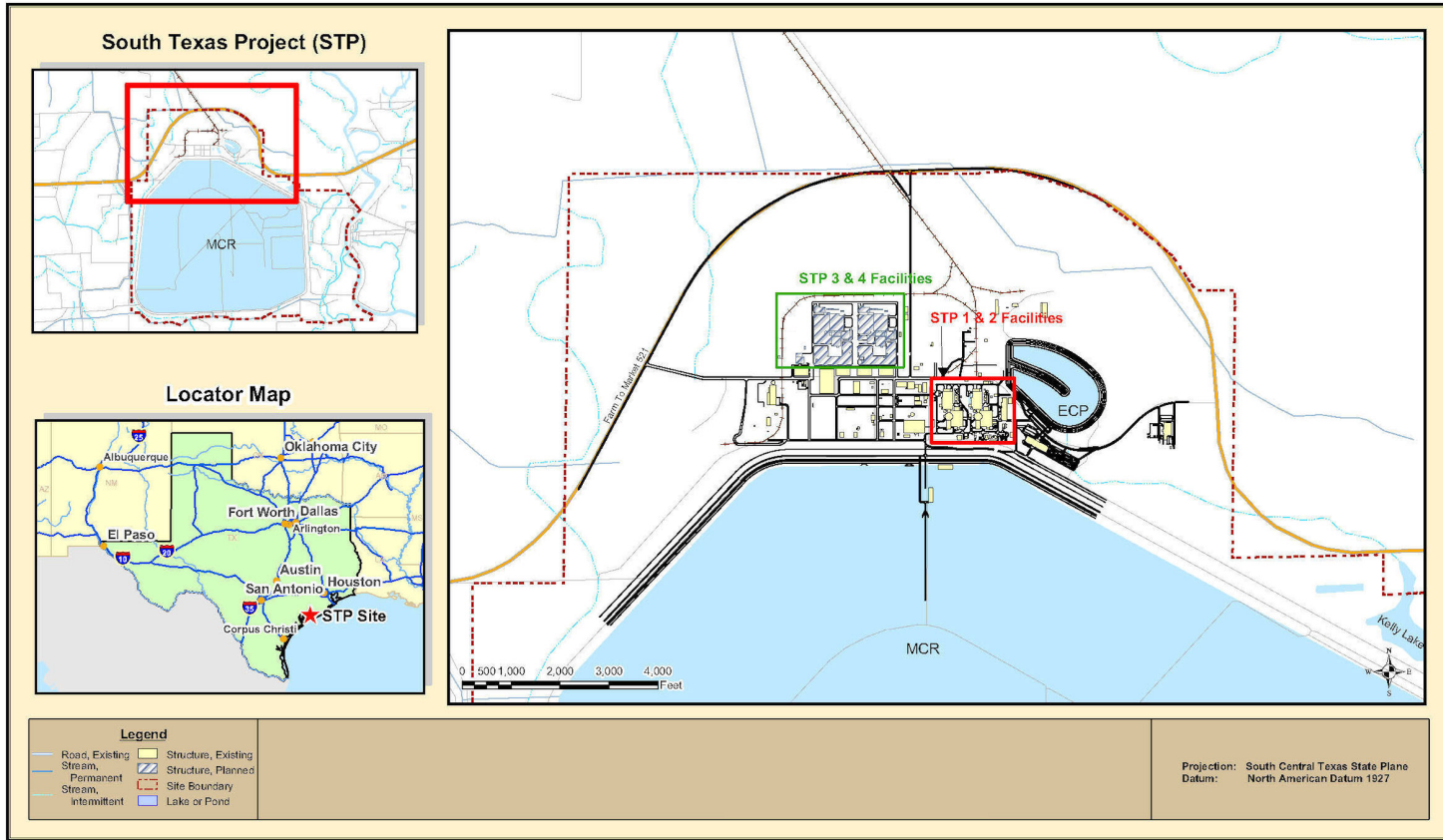


Figure 2.3.1-13 STP Facility Location Map

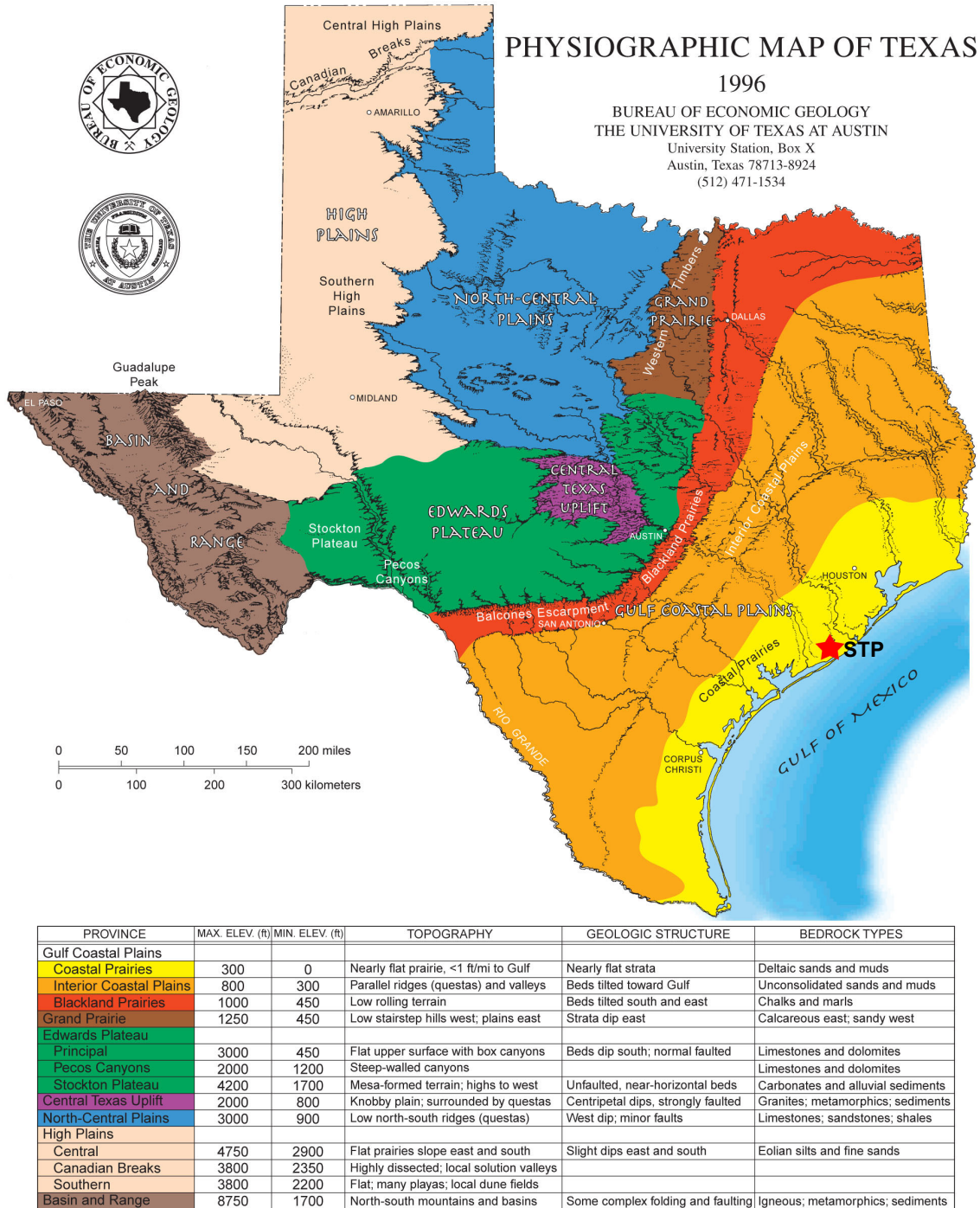


Figure 2.3.1-14 Physiographic Map of Texas (modified from Reference 2.3.1-20)

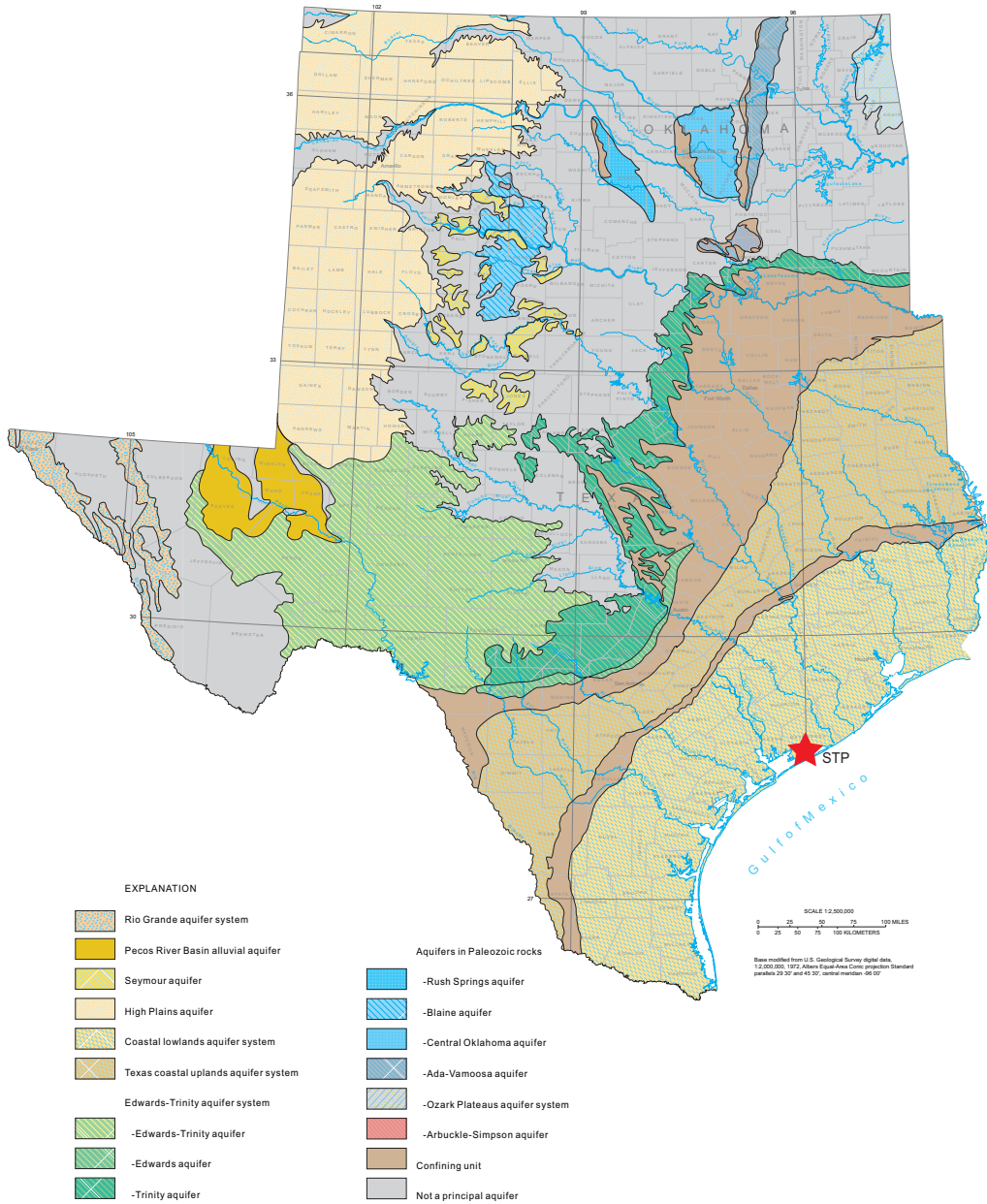


Figure 2.3.1-15 Aquifers of Texas (modified from Reference 2.3.1-21)

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 in this report <small>Modified from Weiss, 1992</small>	
Cenozoic	Quaternary	Holocene	Alluvium		Chicot aquifer	Permeable zone A	
		Pleistocene	Beaumont Formation Montgomery Formation Bentley Formation	Sand, silt, and clay			Permeable zone B
			Willis Sand	Sand, silt, and clay			
	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				
			Catahoula Sandstone or Tuff [2]	Sand, silt, and clay	Catahoula confining unit (restricted)	Jasper aquifer	Permeable zone D
				Anahuac Formation [1]			
		Oligocene	Frio Formation [1]	Sand, silt, and clay		Permeable zone E	
			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

**Figure 2.3.1-16 Correlation of USGS and Texas Nomenclature (modified from Reference 2.3.1-2)**