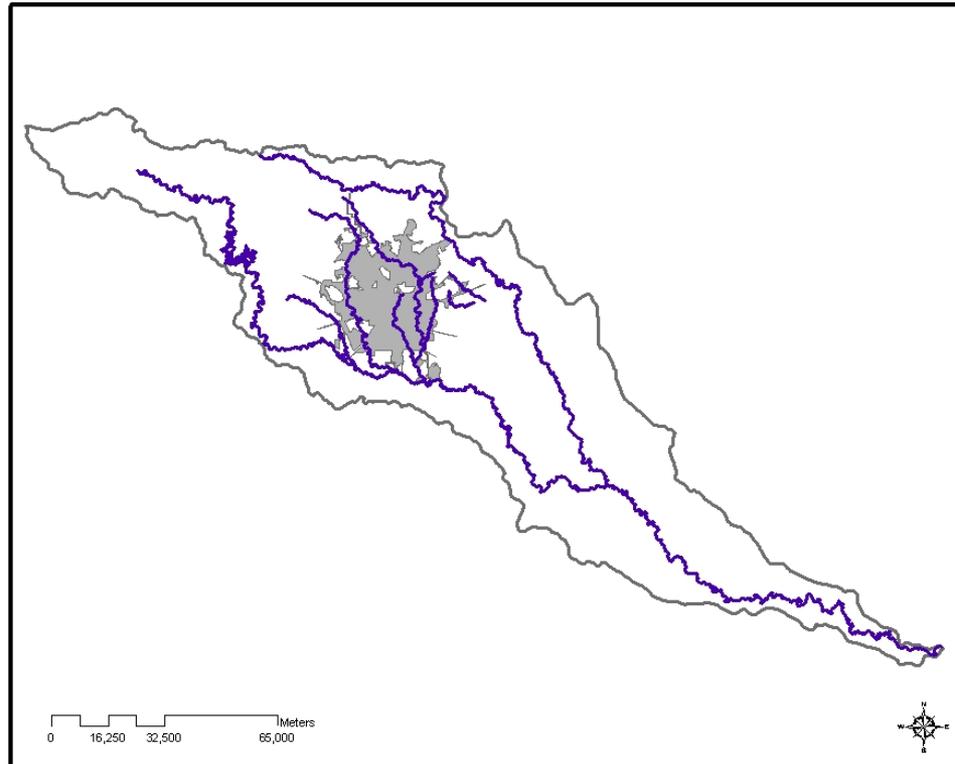


Water Quality in the San Antonio Basin

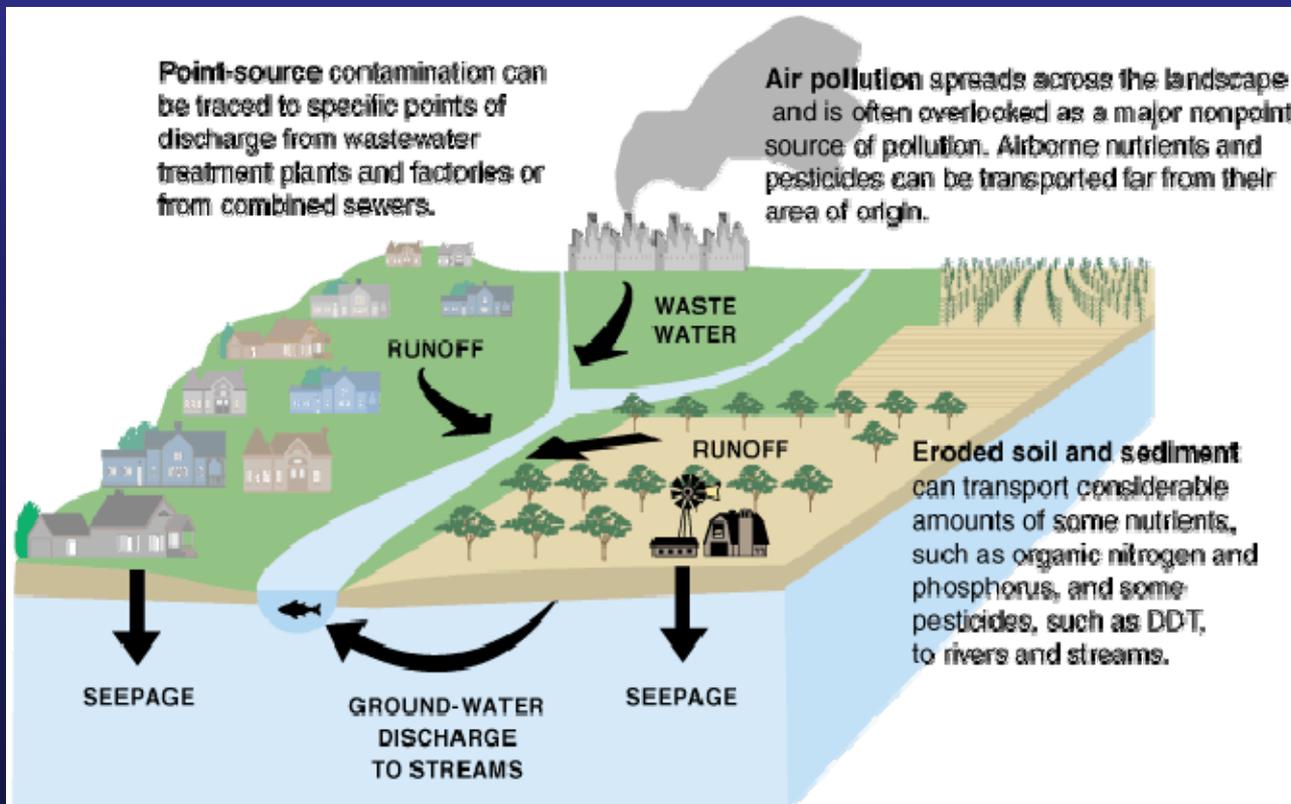
Dakus Geeslin

Texas Commission on Environmental Quality



What is Water Quality?

- Physical, chemical, and biological characteristics of water in relation to a set of standards
- Aquatic Life Use, Contact Recreation, Public Water Supply, Fish Consumption



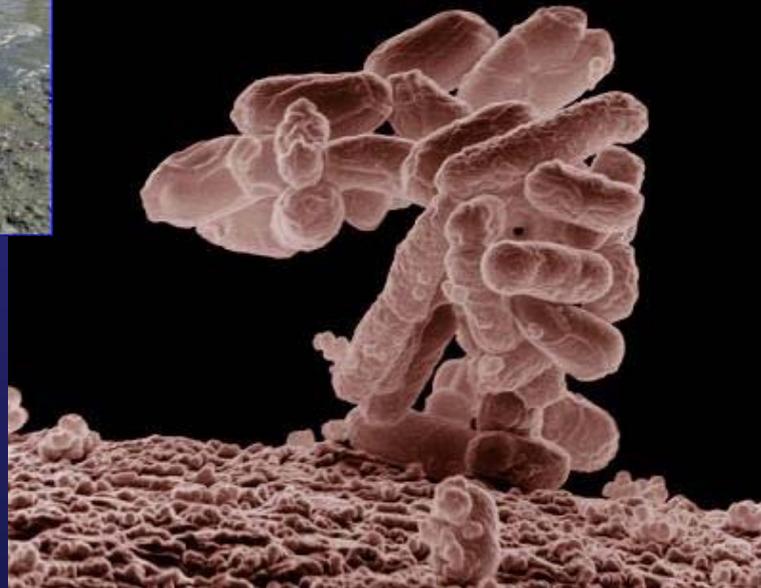
Standards Criteria

Segment No.	Segment Name	Uses		Criteria						
		Recreation	Aquatic Life Use	Cl ⁻¹ (mg/L)	SO ₄ ⁻² (mg/L)	TDS (mg/L)	DO (mg/L)	pH (SU)	indicator bac #/100ml	Temp
1901	Lower San Antonio River	Contact Recreation	High	180	140	750	5	6.5-9.0	126/200	90 F
1911	Upper San Antonio River	Contact Recreation	High	150	150	750	5	6.5-9.0	126/200	90 F



Concerns

Portions of San Antonio River, Cibolo Creek, and Salado Creek, have elevated E. Coli levels



Bacteria



Concerns

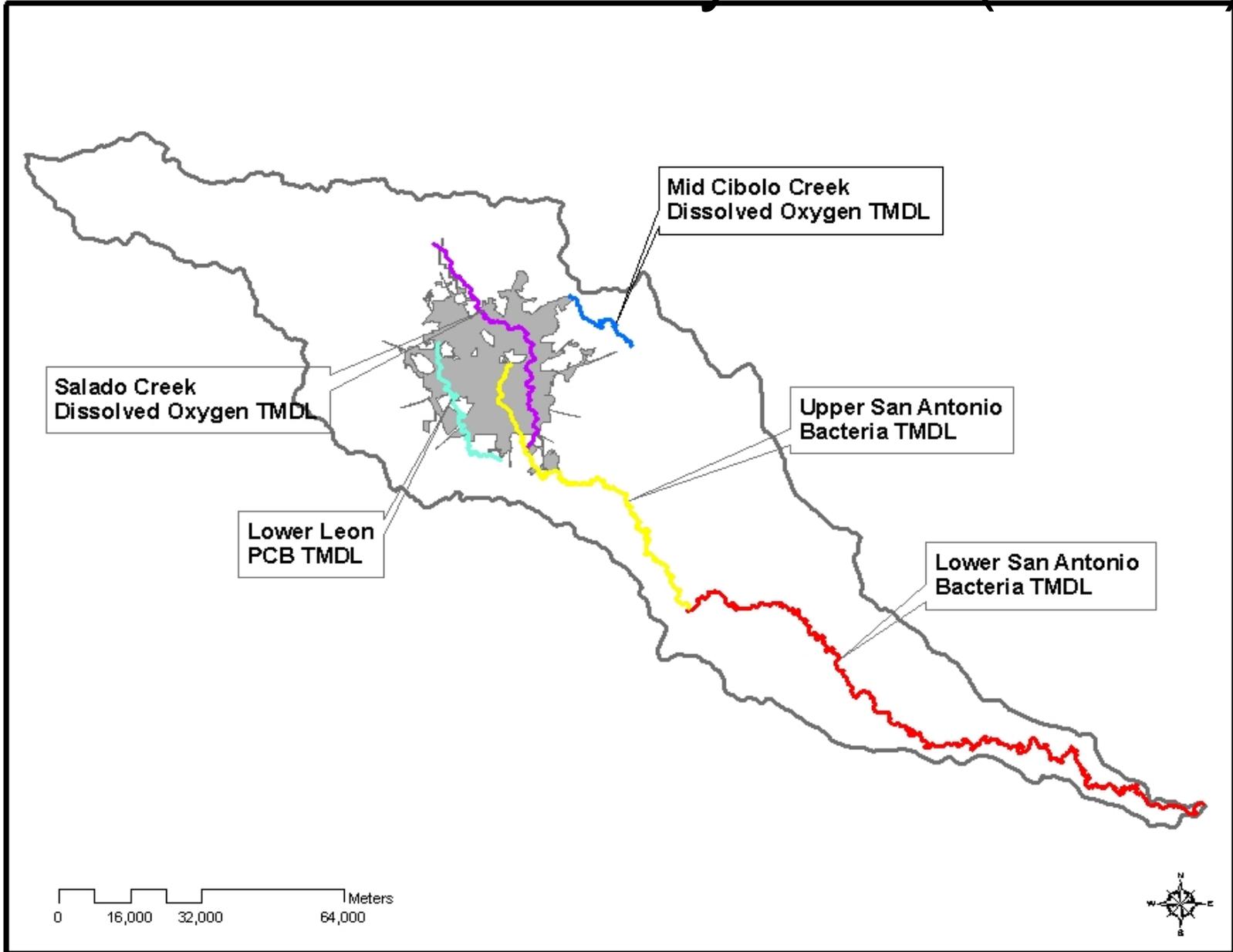
San Antonio River, Cibolo Creek,
Lower Medina River, Salado Creek,
And Lower Leon Creek



Nutrients



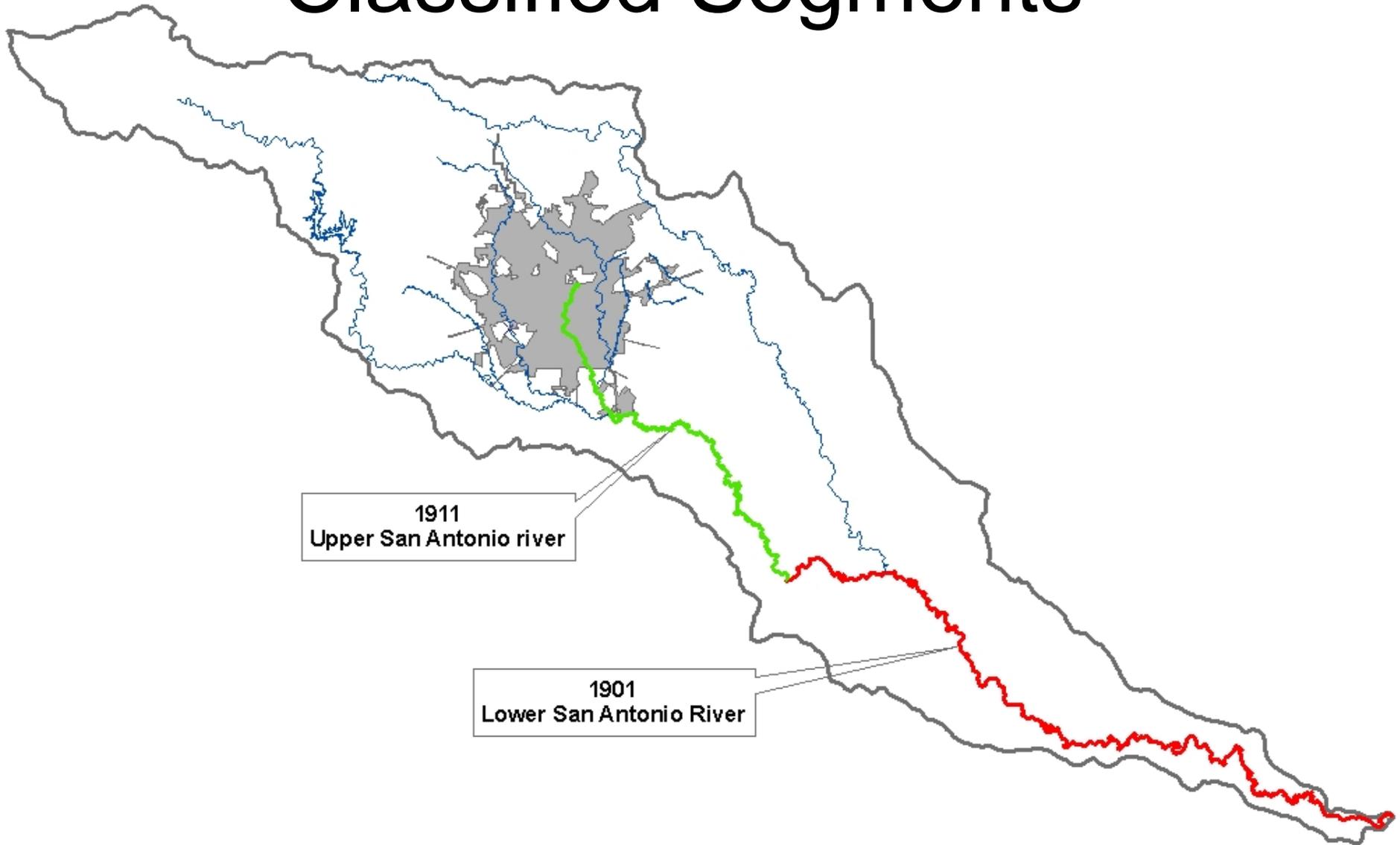
Total Maximum Daily Load (TMDL)



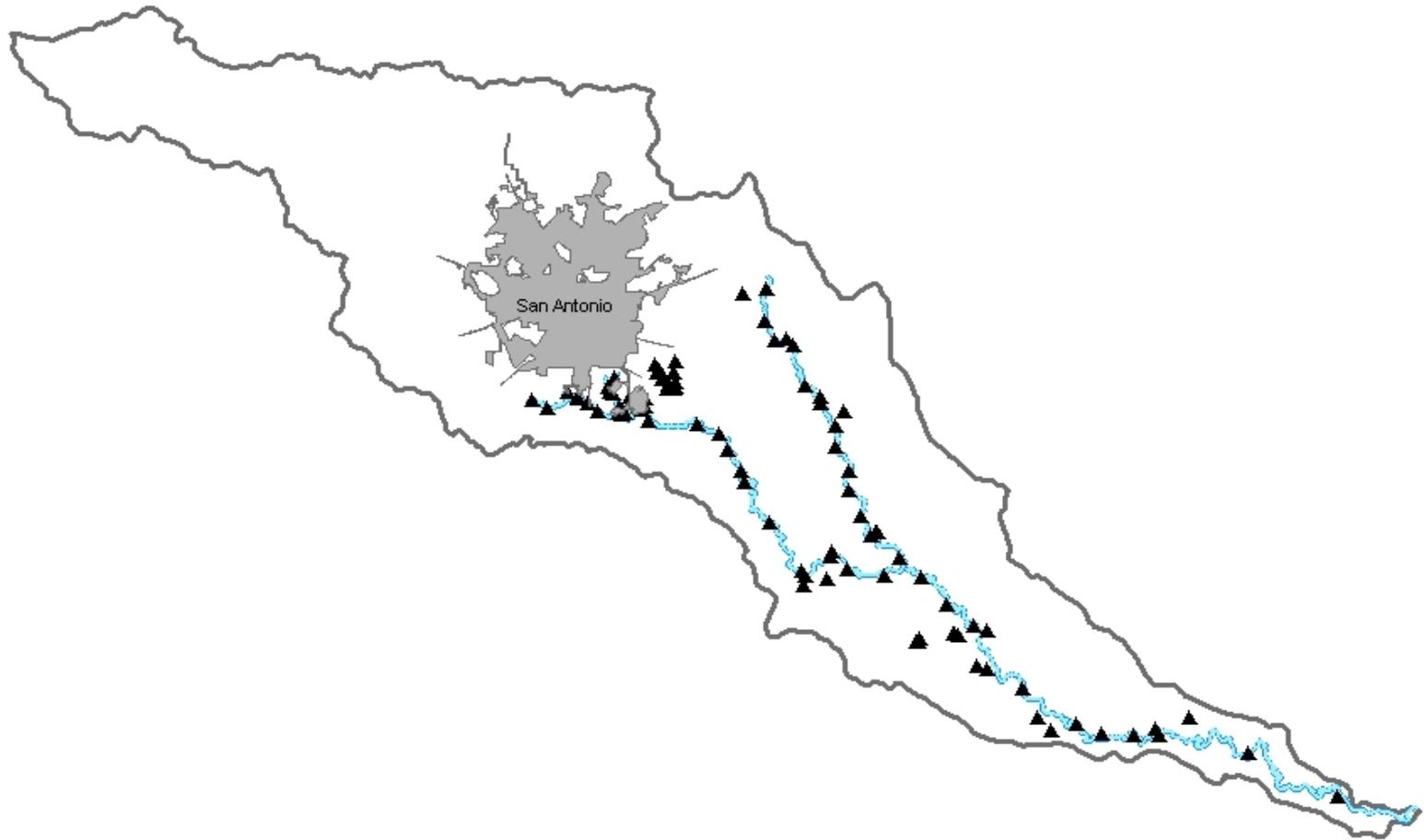
TMDL Implementation

- Adjustment of effluent limitation in permits
- Schedule of elimination of pollutant
- Identification of nonpoint sources
- Modification to a storm water program

Classified Segments



TCEQ Surface Water Quality Monitoring Stations



0 15,500 31,000 62,000 Meters

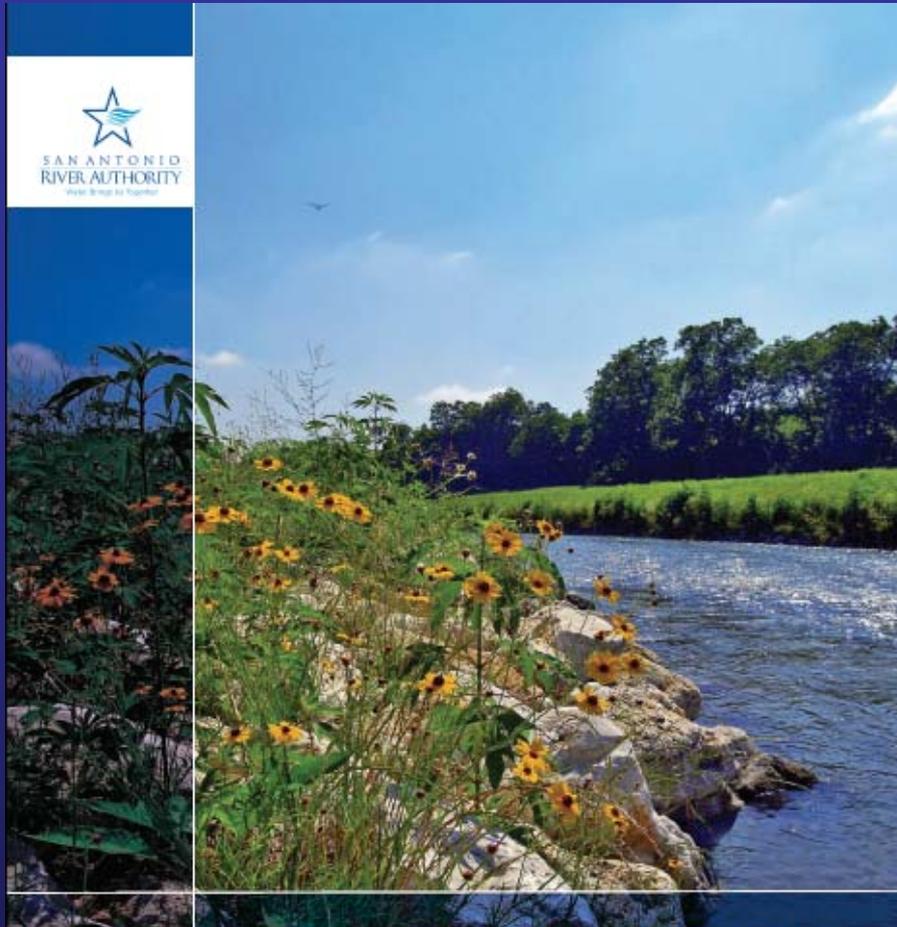


Clean Rivers Program

- The Texas Clean Rivers Program incorporates water quality monitoring, assessment, and public outreach.
- The program is a collaboration of 15 partner agencies (ex. SARA, BRA, etc.) and the TCEQ.
- The CRP works as a hub for participating collaborators to provide data as well as coordinated watershed protection.



SAN ANTONIO
RIVER AUTHORITY
Water. Energy. Environment.



Texas Clean Rivers Program
SAN ANTONIO RIVER BASIN SUMMARY REPORT

2008

Prepared in cooperation with the Texas Commission on Environmental Quality.
The preparation of this report was financed through grants from the Texas Commission on Environmental Quality.

Goal and Objectives

- The goal for the Lower San Antonio River system is a naturally functioning and sustainable ecosystem that supports a balance of ecological benefits and economic, recreational and educational uses.
- Maintain flow in order to sustain water quality to support:
 - Biodiversity,
 - Economic uses, and
 - Recreational uses

Web Resources

Water Quality Standards

http://www.tceq.state.tx.us/nav/eq/eq_swqs.html

TMDL

<http://www.tceq.state.tx.us/implementation/water/tmdl/index.html>

Leon River PCB TMDL

<http://www.tceq.state.tx.us/implementation/water/tmdl/73-leoncreekpcbs.html>

Clean Rivers Program

<http://www.tceq.state.tx.us/nav/eq/texcleanriver.html>

SARA Basin Report

http://www.sara-tx.org/site/water_quality/water_qual_mon/clean_rivers/Basin_Reports/2008/2008SummaryReport.pdf