



Impairment and Report History

- 1992 Listed as impaired on state's 303(d) List
- 1996 Bosque River Advisory Committee formed
- 1998 TMDL development initiated for excessive algae associated with high nutrients
- 2001 TMDLs for phosphorus adopted (February)
- 2001 TMDLs approved by EPA (December)
- 2002 I-Plan approved by TCEQ (December)
- 2003 I-Plan approved by TSSWCB (January)

Public Participation

- Public participation in the watershed was robust.
- TMDLs considered extensive data and several studies from the 1990s.



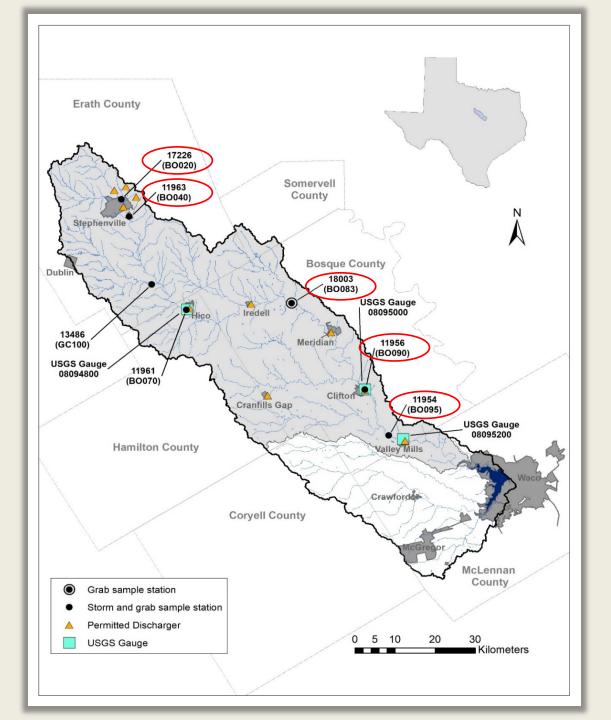
North Bosque River TMDL

- Mandates an approximate 50% reduction in soluble reactive phosphorus (SRP), measured as orthophosphate phosphorus (PO₄-P).
- Establishes five index sites for monitoring and evaluation of goal attainment.
- Targets concentrations PO₄-P at about 0.03 mg/L as the river flows into Lake Waco.

(Target concentrations vary with index site from 0.448 mg/L below Stephenville (17226) to 0.028 mg/L at Valley Mills (11954.)

North Bosque River Monitoring Stations

Index
Stations
circled in
Red



North Bosque River TMDL Reduction Goals

Table 6. Average Annual-Average Soluble Phosphorus Concentrations

	Above Stephenville (17226)	Below Stephenville (11963)	Above Meridian (18003)	Clifton (11956)	Valley Mills (11954)
From "Existing" modeled scenario	203.3	1,143.2	117.0	52.2	41.3
From "TMDL-e" modeled scenario	114.2	448.1	54.5	30.3	27.5
Percent Reduction	43.83%	60.8%	53.425	41.95%	33.14%

The decimal places shown are products of the estimation process and should not be considered significant.

Pollutant Sources



Two major sources of SRP:

- Wastewater Treatment Facilities
- Dairy Waste Application Fields



North Bosque River I-Plan

- Identified four feasible measures to be implemented through six management strategies
- Defined specific water quality measures of success



Questions?