

***BASIN STEERING COMMITTEE
MEETING***

TUESDAY, MARCH 30, 2004

GUADALUPE RIVER BASIN

and the

LAVACA-GUADALUPE COASTAL BASIN

TEXAS CLEAN RIVERS PROGRAM



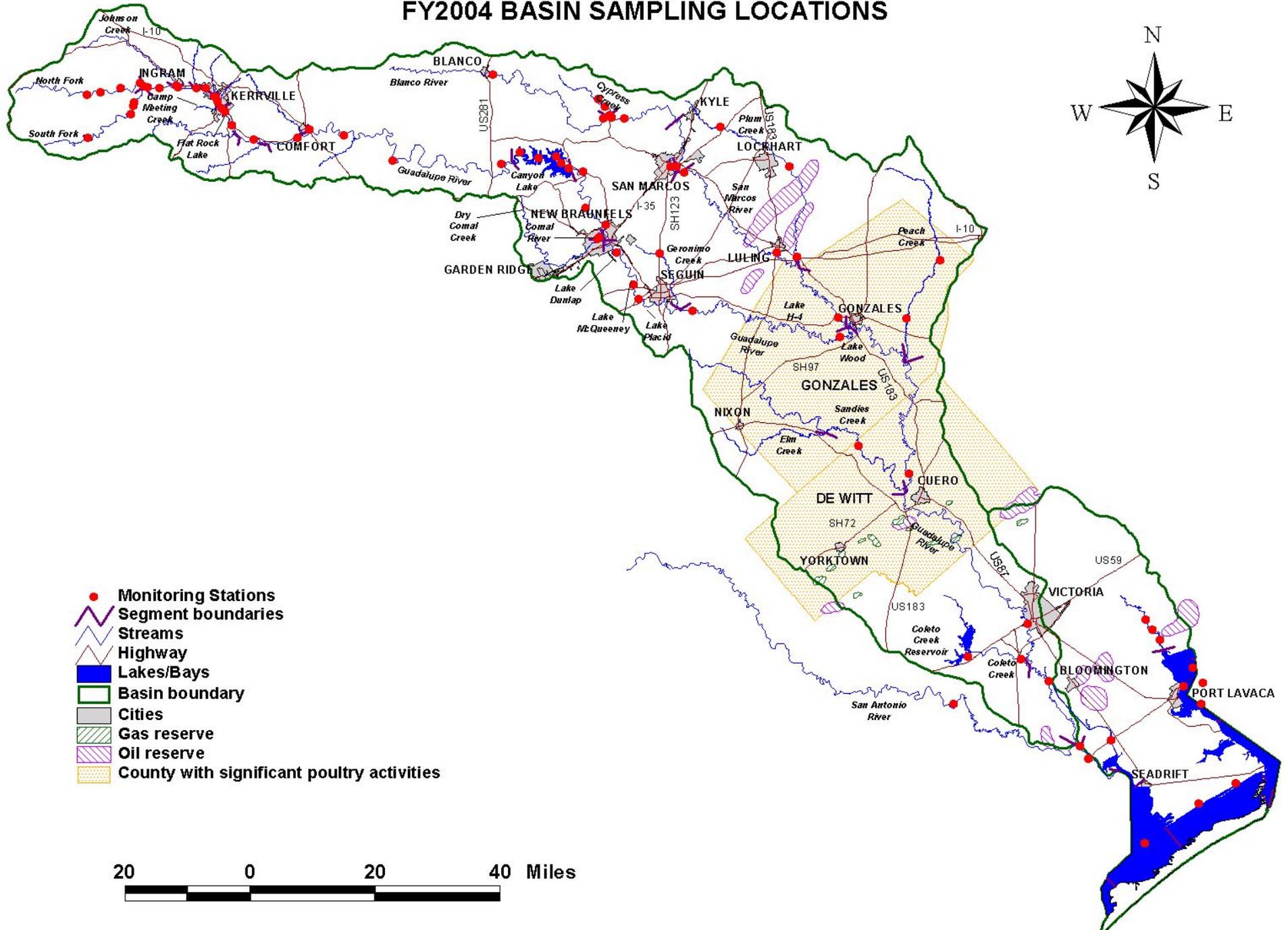
BASIN HIGHLIGHTS REPORT

Main Activities

- **Water Quality Monitoring**
- **Special Studies**
- **Public Involvement and Outreach**



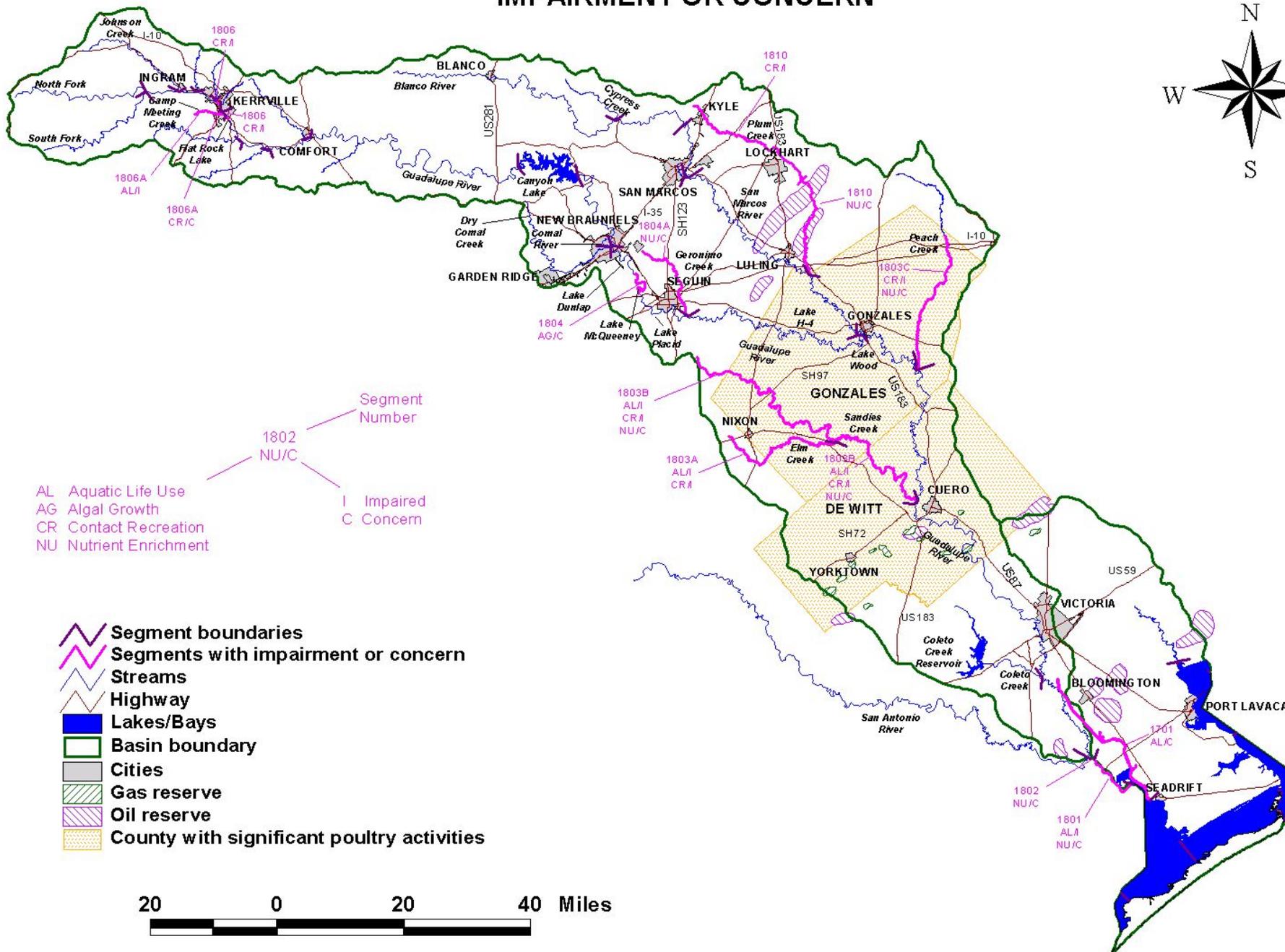
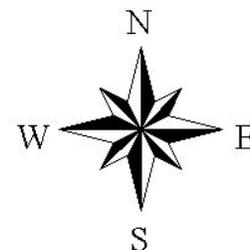
FY2004 BASIN SAMPLING LOCATIONS



Number of Water Bodies with Impairment/Concern in Draft 2004 305(b)

	Impairment	Concern
Nutrient enrichment		6
Depressed DO	4	5
Bacteria	5	2
Excessive algal growth		1

SEGMENTS WITH WATER QUALITY IMPAIRMENT OR CONCERN

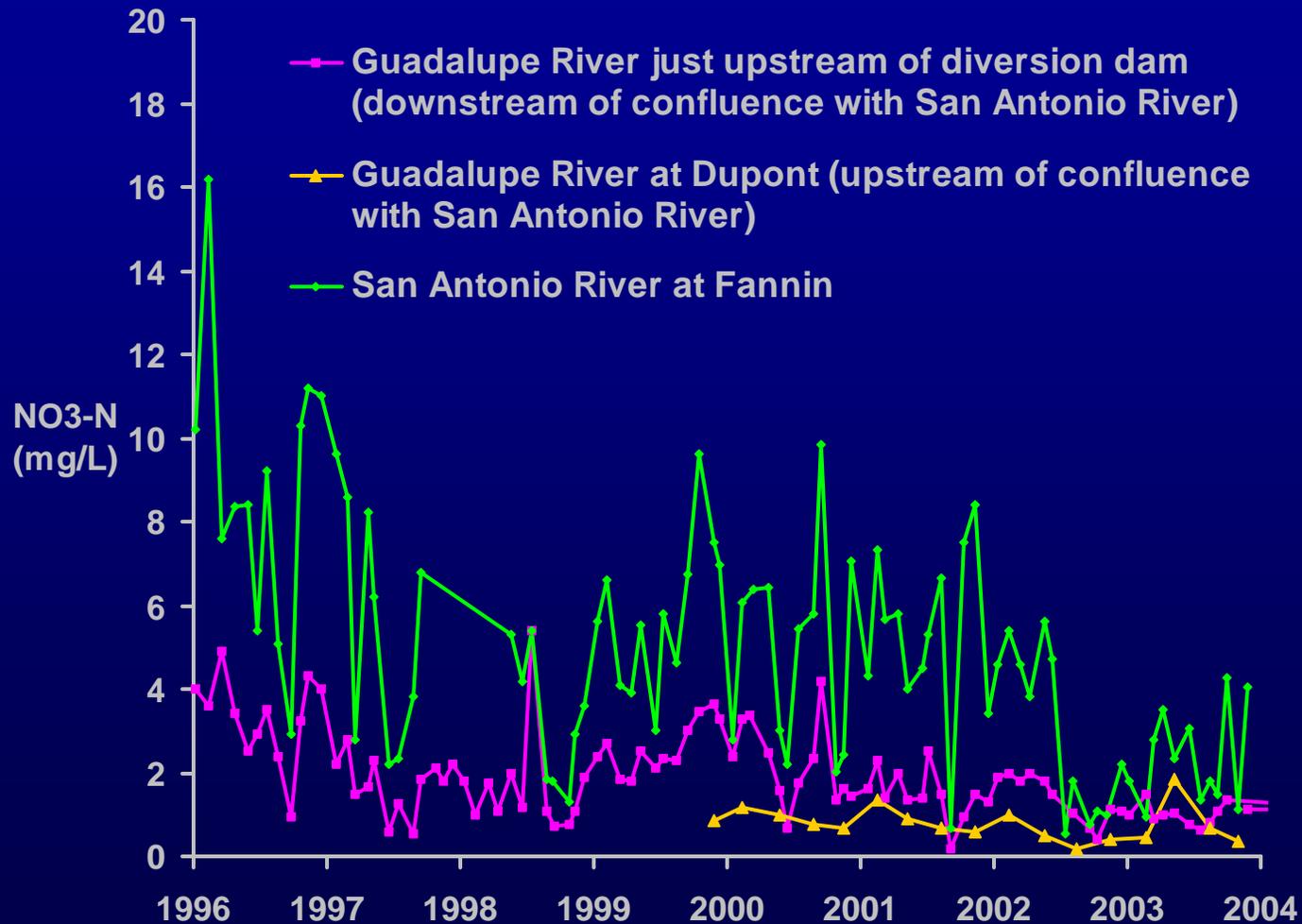


Nutrients

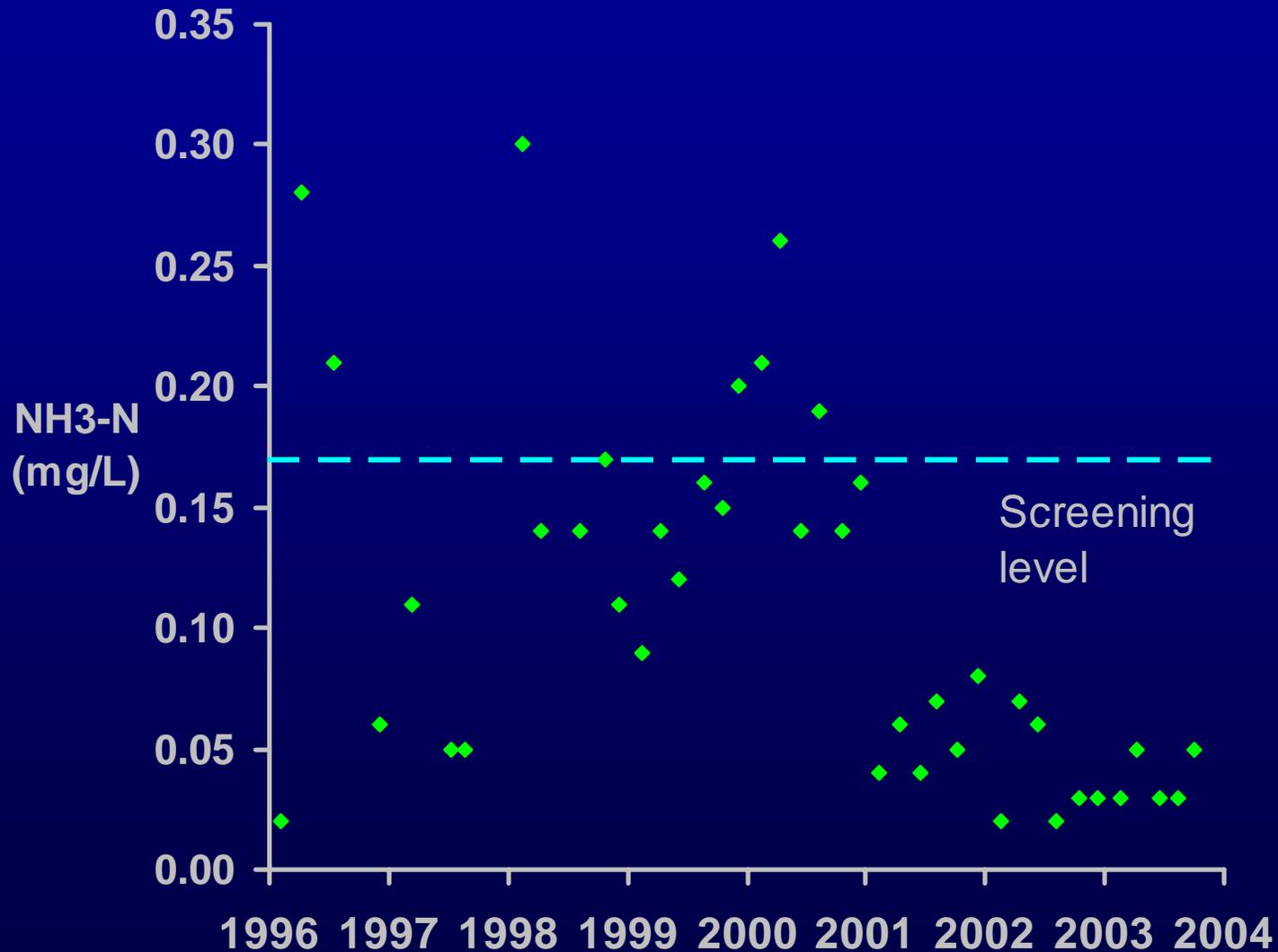
- **High nitrate-N concentrations in Geronimo Creek**
 - Groundwater seepage?
- **Concern of nutrient and chlorophyll *a* levels in Lakes Dunlap and McQueeney**
 - Nutrient study initiated in early 2004
- **Site specific nutrient criteria under development**



Nitrate-N Levels below San Antonio River Confluence



NH₃-N Data, Plum Creek at CR 135



INDICATOR BACTERIA

- **Study contractors collecting additional data for Elm, Sandies and Peach Creeks**
 - Sampling to be concluded this summer
- **Kerrville area, install netting to limit bird population under the bridges**



DISSOLVED OXYGEN

- **Cypress Creek delisted with enough 24-hr data demonstrating criteria attainment**
- **Camp Meeting, Sandies, Elm Creeks**
 - TCEQ Standards Team reviewing data to determine whether the water bodies will undergo a criteria change
- **Guadalupe River Tidal**
 - Continue 24-hr DO monitoring
- **Victoria Barge Canal**
 - Data since 2001 all above criterion



MONITORING TO ADDRESS SPECIFIC NEEDS

- **Canyon Lake at Jacobs Creek Park**
 - Vicinity of Canyon Park Estates WWTP
 - Results to date indicate no concern
- **Joshua Creek at Waring Road**
 - Lead shot in creek
 - Monitoring of metals twice during summer 2002. All below criteria
 - Discontinued in July 2003



MONITORING TO ADDRESS SPECIFIC NEEDS (CONT'D)

- **Plum Creek at Plum Creek Road**
 - Monitor effects of growth in Hays County
 - Elevated nutrient levels in recent months
 - Continue monitoring
- **Arenoso Creek on County Road off US59**
 - In anticipation of a biosolids land application site
 - Enough data to establish baseline
 - Discontinued in Sept. 2003
 - Need for future monitoring will be addressed in coordinated monitoring meetings



MONITORING TO ADDRESS SPECIFIC NEEDS (CONT'D)

- **Peach Creek at FM 1680**
 - Incident of discharge from hog farm in April 2003
 - Owner has taken measures to control runoff
 - TPWD addressing damage compensation
 - Continue monitoring



SPECIAL STUDIES

- **Nutrient Criteria Study for the Guadalupe River Basin**
- **Investigation of Impacts of Oil Field Activities on the San Marcos River and Plum Creek in Caldwell County**
- **Investigation of Elevated Sulfate Concentrations in the Upper Blanco River**



NEW WATER QUALITY ISSUES

- **CWA sets up standards, with uses, criteria and anti-degradation**
- **Uses: supply, aquatic life, recreation**
- **Others?**
- **Do criteria adequately represent uses?**
- **Is there more that could be done?**

