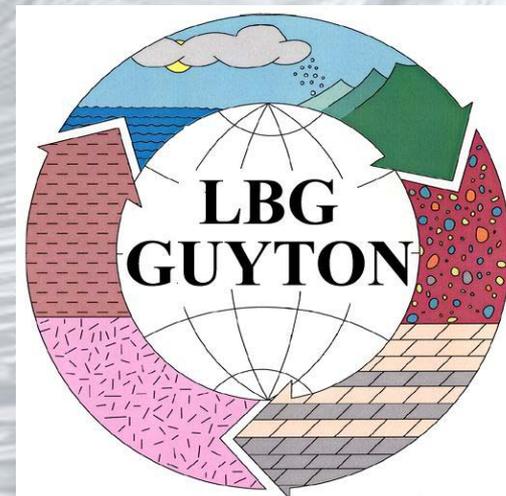


TCEQ Groundwater Protection Committee

Potential Sources of Anthropogenic Groundwater Contamination in Texas

April 20, 2011

LBG-GUYTON ASSOCIATES



Background

TWDB-sponsored project

Sister project with “Natural Sources of Groundwater Contamination in Texas” being performed by BEG

Project to be completed by August 2011

We are here to request any additional data sources you may be aware of from GWPC activities



Objectives

- Provide Mapping information for use by RWPGs regarding potential sources of groundwater contamination from human activity
- Evaluate published chemical analytical data for common anthropogenic contaminants
- Develop estimates of volume of affected water
- Develop estimates of treatment costs



Sources of Data

- TCEQ
 - SWAP Database – Potential Sources of Contamination (PSOCs)
 - PWS chemistry data
 - Interagency Pesticide Database
- EPA - Underground Injection Control Database
- TWDB - Groundwater Database
- USGS
 - NAWQA
 - NWIS
- Edwards Aquifer Authority
- **Do YOU have other sources of data?**



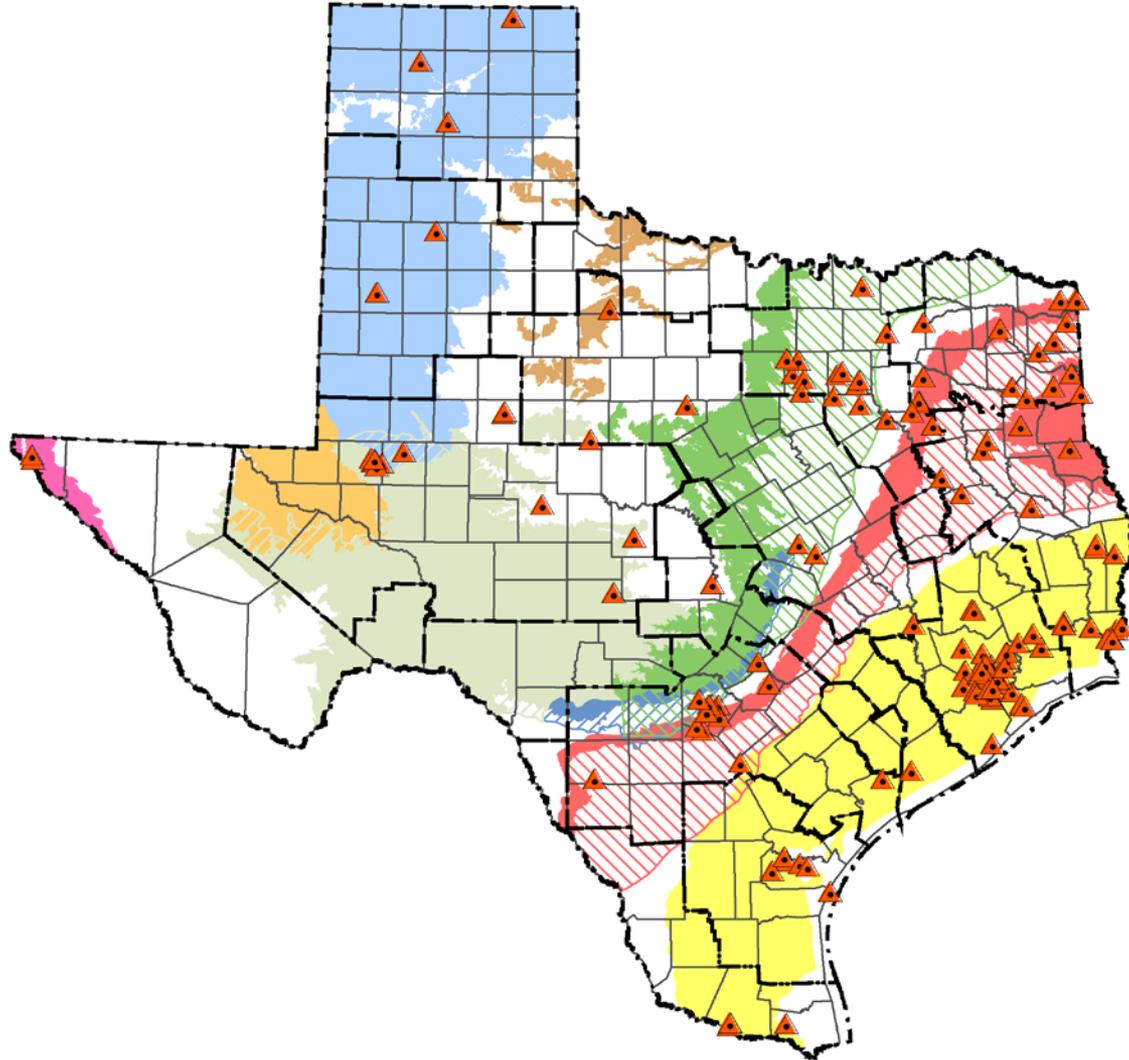
Groundwater Quality Data

- **Chemical Analytical Data**
 - Public Water Supply (PWS) wells
 - Pre-Treatment or mixing; representative of source groundwater
 - Various data sources, sampling periods, detection limits, etc. Non-standard data
 - Challenges for volume estimates



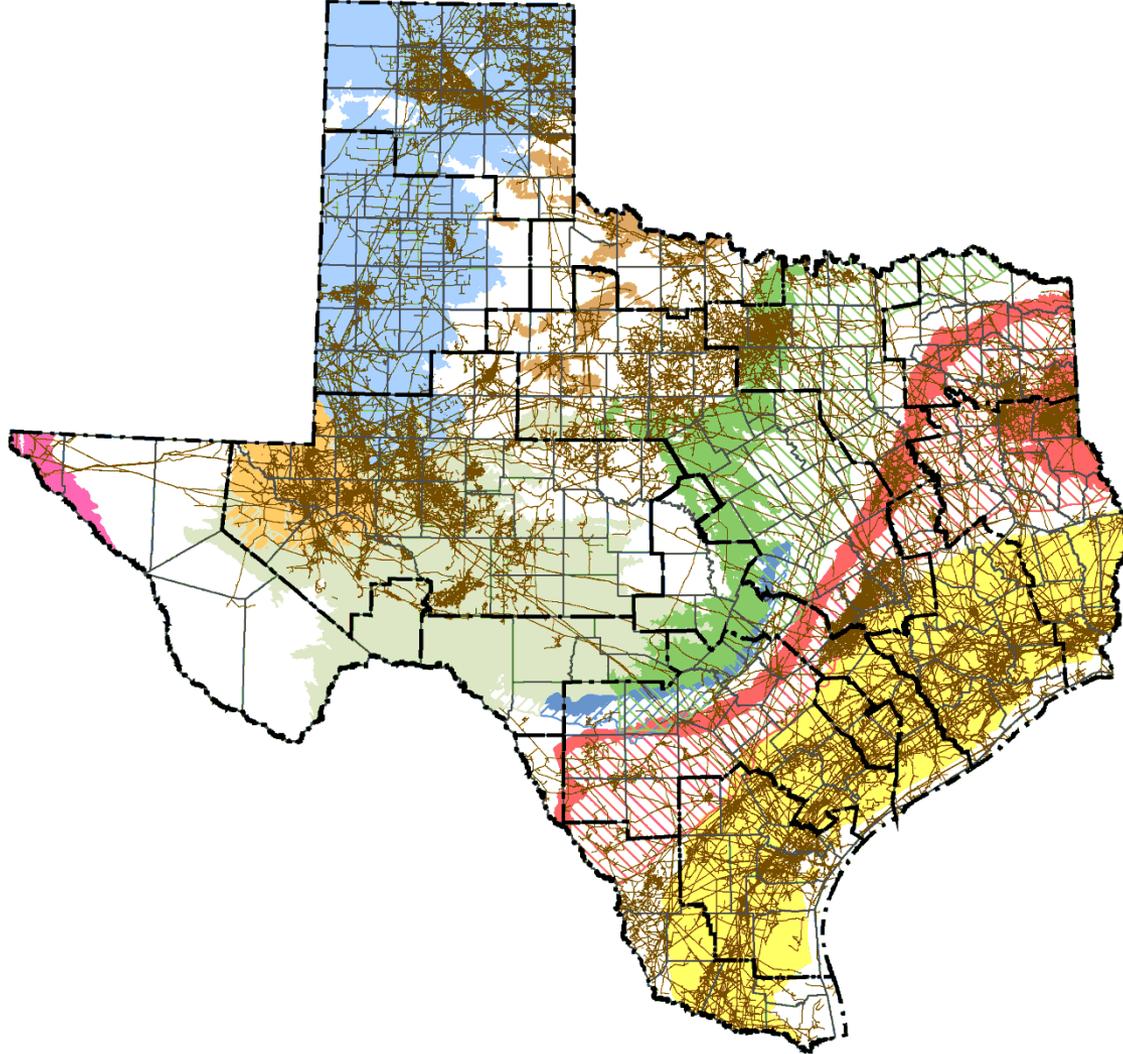
Sample Map

Superfund Sites in State



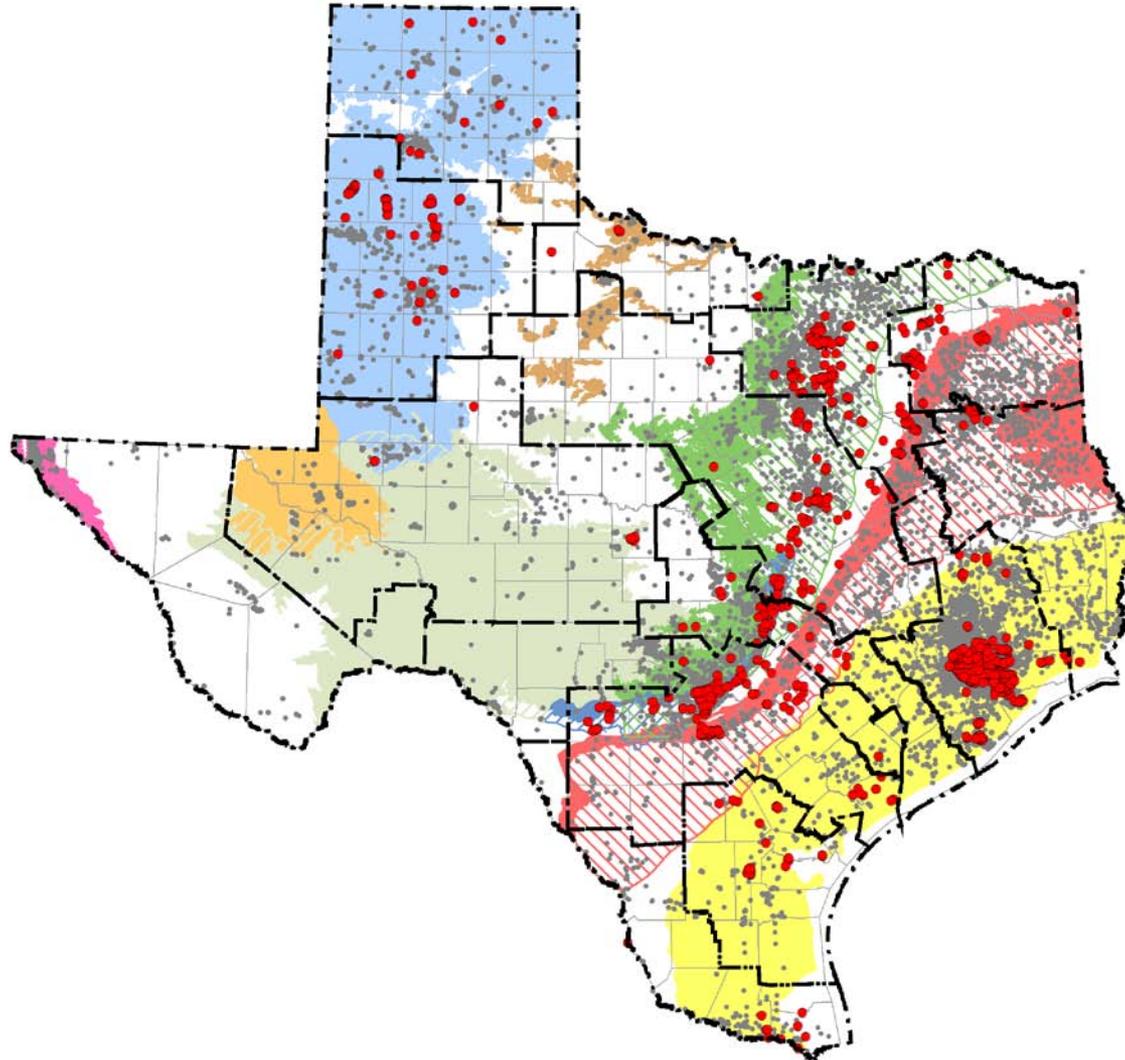
Sample Map

Oil and Gas Pipelines in State



Sample Map

WQ Results – Atrazine in Groundwater



Summary

- **Potential Groundwater Contamination from human activity**
- **Location Mapping of Business and Industry Entities**
- **Mapping of Documented Chemical Data**
- **Any other data sources?**
- **Completion by August**



Questions ?

