



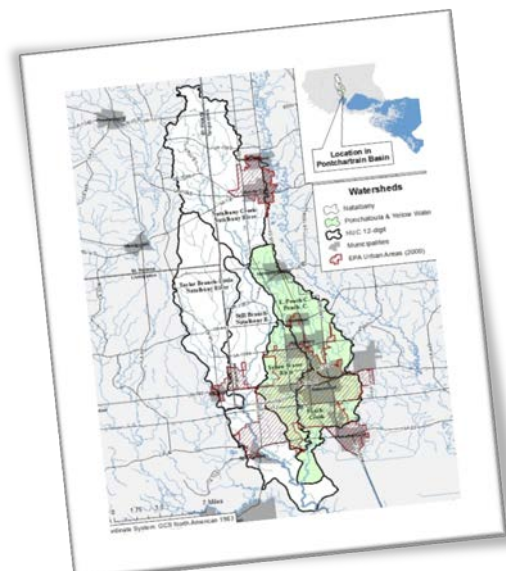
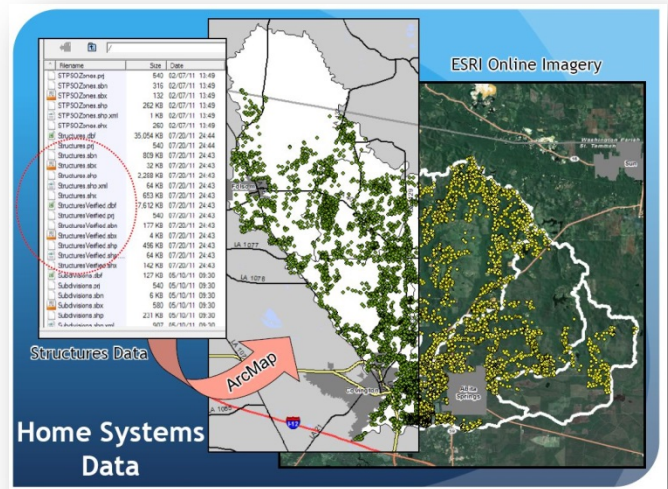
Water Quality Program

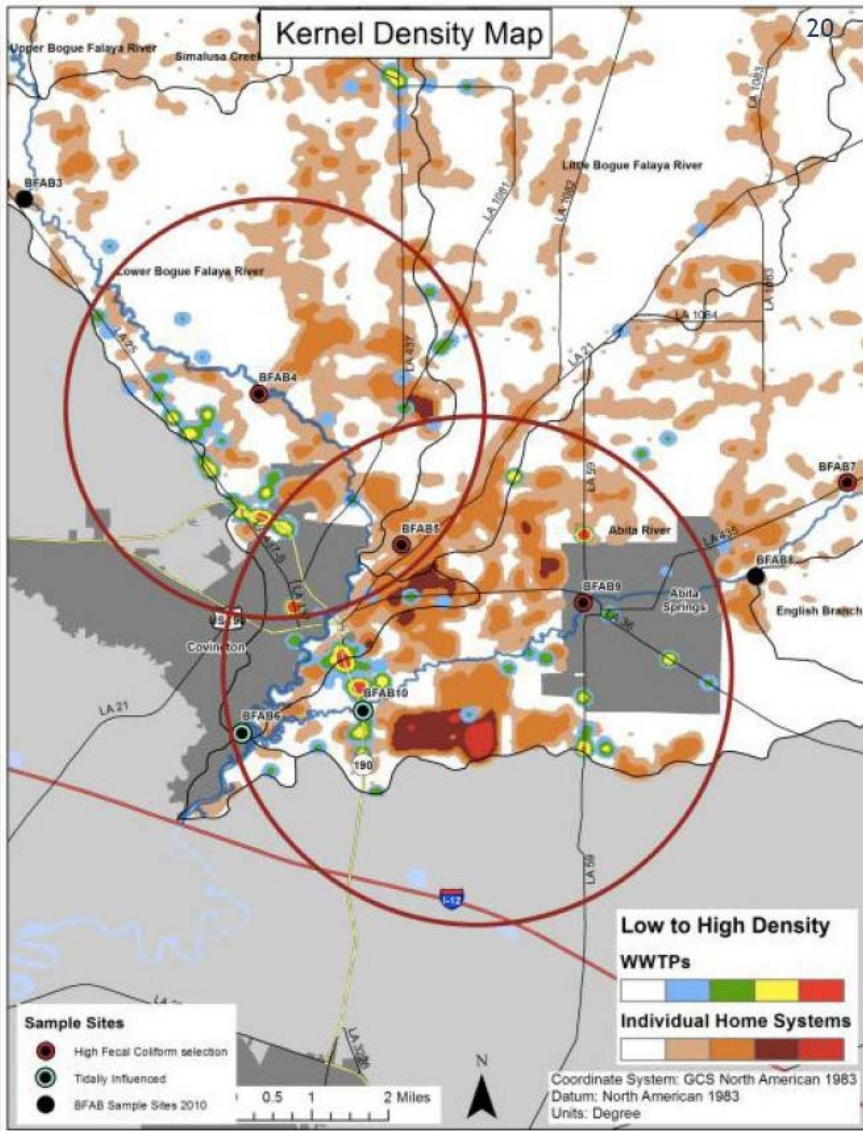
Geographic Information Systems (GIS)

The Lake Pontchartrain Basin Foundation uses GIS to characterize project areas and spatially reference, track, and manage sources of pollution.

GIS & Watershed Planning and Implementation: Watershed planning characterizes the environment by locating pollution sources, enabling communities to address pollution and ensure the health and vitality of their waterways. **GIS:**

- Provides a process to spatially track pollution entering waterways by characterizing the watersheds and identifying pollution sources.
- Used to identify attributes of municipalities, transportation corridors, waterbodies, watershed boundaries, and other data layers.
- Generates the ability to delineated sub-watersheds and calculate land use percentages.
- Allows a process for data collection, geodatabase management, and data layer production.
- Used to locate, quantify, and qualify point and nonpoint sources of pollution, including sewer and unsewered subdivisions, and individual home sewer systems.
- Identifies correlations between water quality parameters (fecal coliform, turbidity, and specific conductance) and pollution source locations and densities to target areas requiring water quality improvement.
- Produced a density layer for commercial WWTPs and individual home systems.
- Creates a process to track individual home sewer systems inspections and preform analysis.





Examples of LPBF GIS project maps

Top: Kernel Density analysis in the Bogue Falaya and Abita Watersheds identifying potential “hot spots” for pollution.

Right: Quantity and size breakdown of Waste Water Treatment Plants in the Bogue Falaya and Abita Watersheds.



For more information on LPBF and GIS visit:

saveourlake.org

