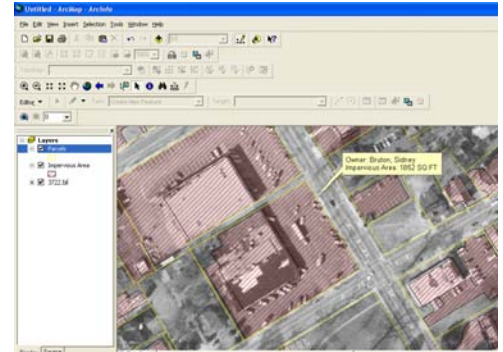


GIS for Stormwater Billing City of Wilson, North Carolina



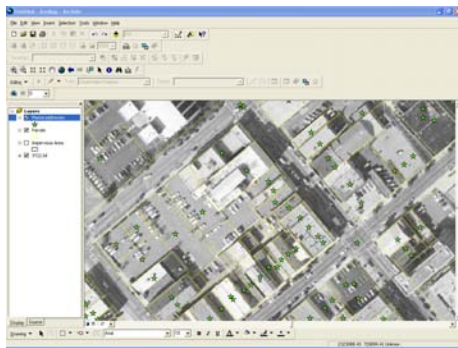
In November 2001, the City of Wilson began working towards implementing a storm water-billing program. The City quickly realized that outside expertise would be required to insure that the billing program could be in effect on schedule. This decision led the City to acquire the services of GTG.

One of the first issues identified during the project was the need to calculate impervious surface area for non-residential city customers. GTG created an impervious surface layer via a combination of digitizing impervious surfaces from aerial photography and scanned as-builts. Digitizing from as-builts was required for all development that had occurred since the aerial photography was collected. This layer allowed the City to calculate the area of impervious surface on every parcel in its jurisdiction.



Once the impervious surface layer was created, the next step was integrating the impervious area with the city's SunGard HTE utility billing database. Integration of GIS and SunGard HTE had long been a city goal, but a successful integration strategy had never been devised. To resolve this issue, GTG needed to create a database based on the City's existing billing system. This master address database would contain a point location for every valid address in the City as well as a unique identifier, called a location ID, ties back to the billing database. Over the course of the next two months, GTG developed the master address file for the City of Wilson. Once the master address file was completed the City utilized GTG's GeoManager, to populate the X, Y coordinate information for each address into SunGard HTE. Utilizing LGaddress, all new address information was now created and maintained via a dynamic interface with SunGard HTE.

The new link between GIS and SunGard HTE allowed the city to tie impervious surface information to existing customer records. Not only did this solve the immediate billing problem, it also provided the basis for a major citywide increase in GIS functionality and utility. Some of the additional applications the integration made possible included electric transformer load analysis, meter reading route improvement, customer location/tenant mailing label generation, and improved geo-coding. The master address file contained in the SunGard HTE database is utilized to integrate information from a variety of data sources into GIS.



Case Study:
GIS for Stormwater Billing
City of Wilson, North Carolina

Geographic
Technologies
Group

*Understanding
Local Government*

Geographic Technologies Group
1202 Parkway Drive
Goldsboro, NC 27534
Phone: 1.888.757.4222
Fax: 919.759.0410
E-mail: info@geotg.com