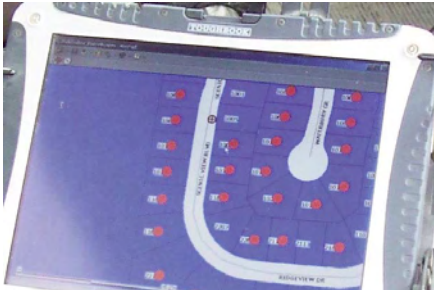


# PROJECT SPOTLIGHT | RECYCLING PILOT PROJECT - METRO WASTE AUTHORITY - DES MOINES, IOWA

## SCOPE OF PROJECT

The city of Des Moines, Iowa and the Metro Waste Authority (MWA) retained **BARKER LEMAR** to develop a truck-mounted tablet PC loaded with internet-based geographic information system (GIS) combined with a global positioning system (GPS) for collecting and analyzing curbside recycling participation data. **BARKER LEMAR** outfitted recycling collect trucks with touch-screen tablet computers loaded with Polk County Assessor data, Iowa Department of Transportation road data, and proprietary GIS/GPS programming data for data collection. The project objective was to track participation data to determine how changes to recycling programs affected participation levels.



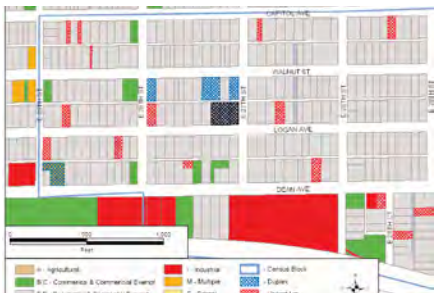
## IMPLEMENTATION

Using GIS and U.S. Census data, **BARKER LEMAR** identified four areas of similar size and economic status for participation in the pilot program. Three of the areas would receive notice that they have been selected to participate and that their recycling program would be changing. The fourth area would act as the control group.



**BARKER LEMAR** worked directly with MWA and the City of Des Moines to customize the GIS/GPS program to successfully meet the pilot study's goals.

Parcel level data was analyzed and queries were run to develop mailing labels for surveys, education, and delivery of appropriate recycling program equipment. Changes in set-out rates were tracked to evaluate recycling participation levels as a result of program changes and specific education materials. The data will be used by Des Moines city officials to evaluate their bi-weekly recycling program and to evaluate program efficiencies identified in one of the pilot project areas.



## SERVICES

Development of customized reports; server download interface screen; paperless weight ticket; training; custom reporting.

## TIMELINE

Project Start Date: November 2004

Project Completed: March 2006