

SURVEYING



ATCS performs a wide range of aerial imagery analyses and mapping services. These include:

- Topographic Map Updates
- Historical Hazardous Waste Site Investigations
- Cultural Resource Inventories
- Wetland Delineation
- Land Use & Land Cover Mapping
- Topographic Map Updates
- Potential Ground Water Contamination Source Inventories
- Agricultural & Non-Point Pollution Source Inventories
- Failing Septic Field Studies
- Thermal Infrared Studies
- Endangered Species Habitat Mapping
- Historical Federal Facility Assessments

At ATCS, we work with you to create the solutions for your simplest and most difficult challenges. We're not looking to find the easy route; instead, we build long-term relationships and an abundance of satisfied clients.

Our Equipment:

- Leica Robotic Total Stations with integrated GPS RTK Rover and Data Collectors;
- Real Time Kinematic Global Positioning (RTK-GPS) tied to a CORS network;
- Photogrammetric Technology;
- AutoCAD 2006 Software;
- Arc GIS / Arc View; and
- MicroStation v8



Our survey equipment represents the latest technology offers. All of our survey field crews are equipped with the Leica System 1200 Smart Station. This system actually incorporates two pieces of survey equipment into each "set-up". The first item is the RTK (Real Time Kinematic) GPS rover which is referenced to a statewide network. ATCS, P.L.C. (ATCS) subscribes to the only state wide GPS network. While ATCS pays a monthly connection fee, our clients will have access to the network through ATCS at no additional cost. Our RTK-Net is based off of a USGS CORS (Continuously Operating Reference Station) network. By operating from this network, we are able to maintain low costs to our clients, as a GPS base station setup is not required. A major advantage of an RTK-Net infrastructure on a large project, or in an urban environment is a common high accuracy reference frame, by which all data is collected. The inherent problem of data from different sources (or monuments) not matching is completely eliminated.

Secondly, the RTK GPS, each ATCS field crew is also equipped with a robotic total station, capable of utilizing GPS to acquire a fixed location, thus eliminating the need to perform expensive, time consuming control surveys. The data collection devices are capable of easily transferring data between the RTK GPS units, robotic total stations and desktop or laptop computers, so crews are always able to utilize the right tool for the right task.

Finally, because the equipment utilizes a modem for communication, we are able to transfer files from the office to the field, or the field to the office, providing us with the ability to communicate large amounts of information instantaneously.

ATCS provides a full range of surveying services including:

- Boundary and Control Surveys
- Topographic Mapping/Location Surveys
- Bathymetric Surveys
- Environmental/Wetland Surveys
- Route Surveys
- Cross Section/Floodplain Surveys
- ALTA/ACSM Land Title Surveys
- GIS Data Collection
- Subdivision & Easement Plats
- Construction Stake-Out
- As-Built Utility Surveys