



The AzWSC has specialized expertise in monitoring, measuring, and collecting reservoir and lake water and sediment for a variety of physical and chemical properties. The Center owns a fleet of watercraft to work on the large reservoirs that exist in the Southwest, including a 26-foot Boulton. The Center also owns instruments to measure physical and chemical properties with depth (referred to as a CTD Profiler) and a typical deep profile (>500 feet) can be completed in about 15 minutes. These profiles can provide a very dense data set since the instrument is capable of making 8 measurements per second. The CTD profiler will provide data on depth, pressure, water temperature, specific conductance, pH, dissolved oxygen, turbidity, and chlorophyll a. Collection of water samples at depths of interest can be made using the Center's carousel sampler that works in tandem with the CTD Profiler. The Center also possesses other specialized samplers for the collection of volatile organic compounds and sediment samplers.

Along with equipment and expertise for water-quality sampling, the AZWSC owns a 28-foot Core Boat that is capable of obtaining shallow and deep (20 feet) sediment cores which can then be analyzed for various chemical (organic and inorganic) constituents.

The following is a list of capabilities:

Monitoring of basic water properties including depth, pressure, water temperature, specific conductance, pH, dissolved oxygen, turbidity, and chlorophyll a

Collection of point samples at depth

Shallow and deep sediment cores

Collection of surface sediments

Assessment studies and long-term monitoring for organic and inorganic contaminants

Expertise in applying passive samplers to the collection of organic contaminants

Access to the USGS National Water Quality Laboratory and various specialized laboratories with the USGS National Research Program