

# GEOGRAPHIC INFORMATION SYSTEMS (GIS)

SWC (Sandra Walters Consultants, Inc.) staff is highly experienced and skilled in the use and application of state-of-the-art Geographic Information System (GIS) technology, utilizing the most current computer equipment and programming software. GIS is an advanced mapping tool that allows for multiple datasets to be viewed and analyzed spatially, allowing for better decision-making capabilities and increased organization of large sets of client data. SWC is committed to using the most up-to-date tools and software and SWC staff is constantly improving their individual skill sets in order to analyze and present data in a highly professional and graphically-effective manner. SWC GIS capabilities include:

- categorizing and assessing habitats within specific project boundaries and study areas including the location of protected species;
- graphic representation of field data including GPS data points over georeferenced aerial photographs using advanced ArcGIS, ArcPad, and AutoCAD software packages;
- evaluation of relevant property features for real estate buyers, including results of Phase I and Phase II environmental site assessments as well as soil and groundwater testing;
- detailed aerial analysis for multiple client needs; and,
- aerial rectification (including current and historical) that allows for placement of easily-referenced scales and directional marks for more accurate and precise spatial data comparisons.

Benefits to clients include:

- more advanced and cost-effective data collection and analysis;
- access to data layers only readable by GIS software and presented in a professional manner by highly trained staff;
- credibility with permitting agencies that are incorporating GIS into their own organizational strategies.

