

MICHAEL JABLONSKI, M.S., B.S., B.S.

Qualifications Summary

- Coordination of electronic field data collection, including field and office support
- Development and management of geodatabases
- Development of data and map products from field data analysis using ESRI ArcGIS
- Long-term management and implementation of remedial measures for wetland mitigation projects
- Pre-construction surveys for sensitive natural resources, including special status wildlife species
- Biological monitoring of sensitive resources during construction
- Software development for natural resource related applications

Professional Certifications/Training

Certified as a Professional Software Engineering Master (PSEM) by the Institute of Electronic and Electrical Engineers' (IEEE) Computer Society.

Fields of Competence

Database Management • ESRI ArcGIS • ArcGIS/Arpad • Electronic Field Data Collection and Support • Resource Mapping Using ESRI ArcGIS • Creation and Management of Multi-Disciplinary Geodatabases • Coordination of Multi-Disciplinary Data Collection • Field Surveys for Sensitive Resources Including Special Status Plant and Wildlife Species • Wetland Mitigation Site Oversight and Management • Biological Monitoring During Construction • Computer Programming (C, C#, Python, and more)

Credentials

B.S., Computer Information Systems, Western Governor's University (2006)
M.S., Forestry, Utah State University, Logan, UT (1984)
B.S., Forestry, Utah State University, Logan, UT (1979)

Employment History

1990-present NR Systems, Inc., dba Natural Resources Consulting
1982-1990 Design Analysis Associates (computer programmer)

KEY PROJECTS

Database Management: Three years of pre-construction surveys and two years of biological monitoring during construction of the Ruby Pipeline in western Wyoming and northern Utah • Coordination of electronic field data collection for surveys over 231 miles of proposed natural gas pipeline, including database development and management • Field and office support for field data collection using GPS for numerous wetland delineation projects, including development and management of geodatabases for those projects • Daily posting of field crew progress by updating maps on ArcGIS Online • Maintenance of computer software for the collection of field wetland data • Development of a geodatabase of potential wetland or Waters of the U.S. resources within Buckley Air Force Base in Colorado, conforming to Department of Defense Spatial Data Standards for Facilities, Infrastructure, and Environment (SDSFIE).

ArcGIS Mapping: Map production for wetland delineation and waters of the U.S. reports for numerous proposed residential and commercial development sites in Utah, conforming to standards specified by the U.S. Army Corps of Engineers • Production of maps illustrating potential wetland and Waters of the U.S. resources within Buckley Air Force Base in Colorado • Mapping of wetland and Waters of the U.S. resources within a 1,700-acre proposed mine site in Elko County, Nevada • Consolidation of spatial information related to unique and sensitive environmental resources within the Lost Rivers watersheds of eastern Idaho and production of a poster illustrating those resources

Environmental Surveys and Monitoring: Pre-construction surveys for sensitive natural resources, including nesting migratory birds, eagles and other raptors, sage grouse, pygmy rabbits, white-tailed prairie dogs, black-footed ferrets, big game, streams, and other water resources, and noxious weeds within proposed natural gas pipeline corridors and associated sites in southwestern Wyoming and northern Utah • Field data collection and GPS support for numerous wetland delineation projects in Utah, Colorado, and Nevada • Long-term routine monitoring of wetland establishment within numerous wetland mitigation sites along Wolf Creek Road in Wasatch and Duchesne Counties, Utah, and adjacent to Cutler Marsh in Cache County, Utah, including implementation of remedial measures as required • Biological monitoring of sensitive natural resources during construction of 231 miles of natural gas pipeline in southwestern Wyoming and northern Utah • Survey and collection of information documenting surface water connections to interstate and foreign commerce in the Lost Rivers watershed of eastern Idaho.

Environmental Data Acquisition: Chairman of the SDI-12 Support Group (1994 to present), which maintains a standard for environmental sensors to interface with low power data loggers • SDI-12 sensors and data recorders are used world-wide, including at USGS stream gaging stations in the U.S.

Computer Programs: SDI-12 Verifier (a hardware/software system to test SDI-12 sensors for compliance with the standard) • Software maintenance on a program used to map wetlands • Software to generate programs for data recorders • Keyboard controller for a handheld field computer • Program to receive and graph data transmitted by a weather balloon • Program to analyze data from an ArcGIS database • Applications for real time data acquisition • And many more