



# CAPABILITY STATEMENT

## ENVIRONMENTAL CONSULTING SERVICES



### GEOGRAPHIC INFORMATION SYSTEMS (GIS) & GEOSPATIAL TECHNOLOGY

At RedFISH, Natural Resource Managers and Geographic Information System (GIS) professionals specialize in a full range of spatial data deliverables including data management, mapping, spatial analysis, custom cartography, visualization, modeling and real-time data processing. We use modern equipment for accurate spatial data collection to produce well-organized datasets that provide clients with detailed information for present and future resource management decisions. Our team can provide high-resolution multispectral imagery. Raw images can be converted into radiometric units that are automatically georeferenced and stitched into orthorectified mosaics that, in turn, can be used to generate 3D measurements, topographic contours, digital terrain models and digital surface models. We have FAA-certified staff authorized to fly unmanned aircraft in the U.S and the capability to collect aerial imagery with fixed-wing and multirotor Unmanned Aircraft Systems (UAS). The accuracy of our system meets or exceeds accuracy of imagery captured using conventional fixed-wing aircraft and offer cost-effective data acquisition. Applications include vegetation mapping, river applications (geomorphic assessments), precision agriculture, and inspection of assets such as dams, towers and smokestacks.

#### Services Include:

- GIS-Services (Acquisition, Cartography, Analysis)
- Geodatabase Design, Construction, and Management
- Data Standard Development and Design
- Sub-meter GPS-Grade Mapping
- Imagery Acquisition and Archives Search
- Remote Sensing Unmanned Aerial System for Scientific Applications (Fixed-wing and Multi-rotor)
- High Resolution Multi-Spectral Aerial Imagery Data Collection (visual, near-infrared NIR, thermal TIR)
- Aerial Imagery Data Processing. Ortho-rectified Imagery Mosaics With Internal DEM
- Certified Federal Aviation Authority (FAA) Pilot. UAS/Drone Pilot
- Mapping, Simulation, Visualization
- Total Station and Survey Grade GPS River Surveys
- Historical Change Analysis
- Vegetation Mapping
- Terrestrial and Aquatic Vegetation Mapping - Invasive Species
- Watershed Assessments
- Reference Reach Surveys
- Bank Erosion Potential Analysis/Monitoring
- Spatial Analysis and Statistics
- GIS Watershed Modeling
- Stream and River Habitat Mapping
- Habitat Evaluations
- Restoration Site Prioritization
- Pre-and-Post-Construction Monitoring

### NAICS CODES

- 541620 - Primary - Environmental Consulting Services
- 541330 - Engineering Services
- 541690 - Other Scientific and Technical Consulting
- 541990 - All Other Professional, Scientific, and Technical Services
- 541512 - Computer Systems Design Services
- 541360 - Geophysical Surveying and Mapping Services
- 541370 - Surveying and Mapping - Except Geophysical
- 541720 - Research and Development in the Social Sciences and Humanities
- 541715 - Research and Development Physical, Engineering, Life Sciences
- 115310 - Support Activities for Forestry
- 561210 - Facilities Support Services
- 541611 - Administrative Management & General Management Consulting
- 541618 - Other Management Consulting Services
- 921190 - Other General Government Support
- 561320 - Temporary Help Services



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