



ENGINEERING SOLUTIONS
CONSTRUCTION MANAGEMENT

COMPANY DATA

CAGE: 98F82

DUNS: 117380862

UEI: HKBKEGEC733

NAICS Codes: 541330, 541690, 541990,
115310, 238910

Economically Disadvantaged

Woman-Owned Small Business

8(a) Certification (pending)



WOSB CERTIFIED



EDWOSB
CERTIFIED

LICENSES

- Engineering licenses held in Idaho, Oregon, Montana, Washington, Wyoming
- FAA Unmanned Aircraft Certified Drone Pilots
- Private pilot license and aircraft ownership
- Certified Erosion and Sediment Control Lead (CESCL)

AWARDS

- 2022 Distinguished Service Award
- 2020 Best Project Award for Aquatic Habitat (American Fisheries Society, Idaho Chapter)
- 2019 Best Project Award for Aquatic Habitat (AFS, Idaho Chapter), restoring critical steelhead habitat
- National River Restoration Science Synthesis Team

CONTACT US:

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ENGINEERING AND SCIENCE-BASED DESIGN FOR WATERWAYS AND NATURAL RESOURCES

CAPABILITY STATEMENT

Our team has vast experience in waterways, hydraulic engineering and modeling, stream processes and geomorphology, fish and wildlife habitat, site/civil grading, floodplain design, fishways, plant and riparian ecology, fisheries engineering, and managing construction projects. We specialize in habitat assessments, design, surveying (RTK and aerial LiDAR), drafting, modeling, permitting, and construction.

CORE COMPETENCIES

- Engineering and Design Consulting
 - Stream Restoration Design
 - Fish ladders, fishways, fish passage, and fish habitat designs
 - Site/Civil grading plans and site layout
 - 2D Hydraulic modeling, floodplain inundation
 - Watershed and habitat assessments
 - Surveying, including aerial mapping and remote sensing
 - Water resources
 - Fisheries and waterway structures
 - Spring system development
 - Floodplain inundation and design
- Science-based Ecology and Geomorphology
 - Riparian zone plantings and cottonwood expertise
 - Stream evolution geomorphology and Stage 0
 - River form design based on natural processes
- Surveying (bathymetry, topography, aerial - drone and fixed wing)
- Terrain Mapping (LiDAR drone)
- Permitting, Construction techniques, Construction Management
 - No-rise floodplain studies and permitting
 - In-stream dewatering and construction management
 - Stormwater Pollution Prevention Plans and state permitting

WHY US?

- Extensive expertise (our Senior staff have a minimum of 2 decades of science-based engineering design, ecological studies, aquatic expertise, and construction management).
- FAA pilot licenses for 3D photogrammetry and LiDAR (both fixed wing and drone-based photography)
- Engineering based on applied science with proven, published results.
- Technical and readable site grading plans and surface modeling.
- Established teaming relationships with General Contractors, structural engineers, and larger consulting firms.

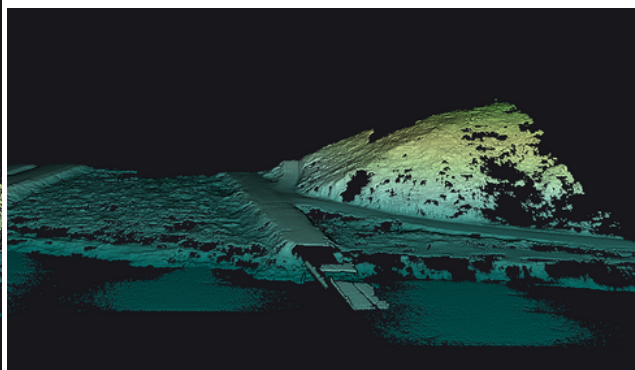
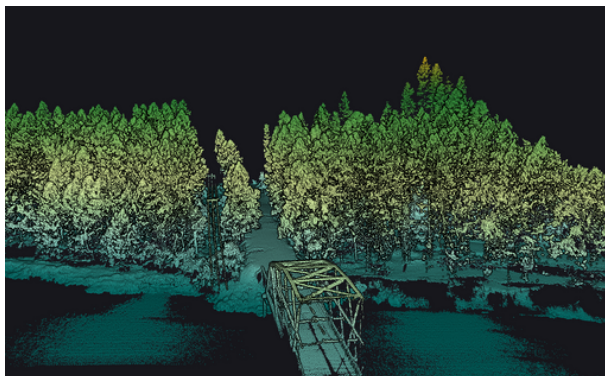
PAST PERFORMANCE

- **Bonneville Power Administration and Pacific Coastal Salmon Recovery Fund projects for Chinook salmon and steelhead habitat**, Multiple waterway, fish passage, and floodplain restoration projects starting in May 2010 - Present. Designed, led, and oversaw the construction of nearly 100 habitat enhancement projects funded by federal monies in the Columbia River basin, ranging from \$30K - \$2million. Projects permitted through Idaho Programmatic or Bonneville Power Programmatic (HIP), or prior to HIP, with Biological Assessments. NOAA-F and BPA provided technical engineering review.

CAPABILITIES

LiDAR, Bathymetry, Survey, and Terrain Mapping

RIVHAB owns and operates drone-based LiDAR technology for clear and accurate terrain mapping through thick vegetation. We also own bathymetric survey equipment, including sonar, that provides terrain definition in real-time linked to our RTK base station. This state-of-the-art mapping data capture allows improved terrain for more accurate hydraulic modeling of streams and rivers.



LiDAR capture showing vegetation and bare earth processed terrain model.

Remote Sensing

Unmanned remote sensing technology can be useful to inform project design, provide watershed and habitat assessments, and create accurate terrain models. We have experience in thermal imagery (including water temperature sensing), high-resolution aerial images and video capture, 3D terrain mapping, vegetation classification, hydraulic modeling, and development of monitoring plans for continued success of project work.



RIVHAB Summary of Services

- Priority habitat assessments
- Preliminary site evaluations
- Conceptual planning and design
- Wetland impacts and environmental compliance
- Permitting, technical analysis, and design reports
 - Joint 404
 - BPA HIP4 Compliance for ESA-listed waters
- Topographic and bathymetric surveying
- LiDAR terrain mapping
- Engineering design and analysis, including force/balance log jam structural stability
- Construction bidding, construction management
- Hydraulic modeling
- Geomorphic assessment
- Fish passage, road crossings, bridges
- Restoring waterways for fish and wildlife habitat
- Floodplain science and calculated inundation
- Project monitoring
- Project fund-raising
- Project management
- Preparation of construction documents, technical specs, including Public Works expertise
- Aerial drone photogrammetry survey and orthoimagery collection
- Ecosystem design for benefit of species

