

Stream Restoration

Loss of Fluvial Process Function Impacts Habitat and Biological Communities

Channel modification and habitat degradation are considered the greatest impairments to water quality. Many streams have lost their ability to support functions such as providing critical habitat, recreation, drinking water supply, and flood control by impacts to the balance of sediment and discharge relationship.

Our Restoration biologists at EnviroScience employ a multidisciplinary approach of fluvial systems that allows for assessment, design and implementation of restoration projects. We use proven restoration methods to revitalize degraded systems or improve existing conditions. Our experience with aquatic communities lends itself to a unique approach to stream restoration projects. Understanding the habitat requirements of individual species promotes successful restoration projects that meet project objectives.



Stream Habitat: Available Habitat is a Key Limiting Factor for Species Diversity

Assessing stream habitat is an important step in biomonitoring and restoration projects. EnviroScience has over a decade of experience evaluating in-stream and riparian habitat. EnviroScience can evaluate stream habitat from small headwater streams to major river systems like the Allegheny and Ohio rivers. Our biologists use underwater video and GIS/GPS mapping in conjunction with standard evaluation forms such as Qualitative Habitat Evaluation (QHEI) to provide both a visual and descriptive analysis of project area habitat.

Our biologists can assess stream habitat through several innovative methods, including:

- [GIS/GPS mapping](#)
- Rosgen Stream Classification

- Aquatic and shoreline vegetative surveys
- SCUBA surveys
- Bottom contour mapping
- Bottom typing using hydroacoustics
- Underwater video
- Habitat assessment forms (per state / federal regulatory agency)
- Construction of Living Shorelines

In Action



NWP 54
Living
Shoreline



Living
Shoreline



Constructing
a Living
Shoreline





Post
derailment
stabilization
and
restoration

Need help with your project?

Contact our Ecological Restoration Group Manager Julie Bingham at **(330) 858-0298** or fill out the form below.

Our experts are here to discuss your needs and how we can help you move your project forward. Fill out the form below for more information on our services or to request a quote and we'll get back to you within 24 hours. If you need a response within an hour or less, please call us at 800-940-4025.

Your Name (required)

Your Email (required)

Subject

Project Location (required)

Your Message