

RYAN COOLEY GAUJOT
President & Principal Geologist
GreenRivers, LLC.

Education

M.S. Geology, Hydrology, West Virginia University, 2002

B.S. Geology, University of Utah, Salt Lake City, UT, 1998

Geology, Surface Hydrology, and Fish Habitat Relationships in the upper Shavers Fork Drainage Basin, West Virginia. Master's Thesis, West Virginia University, Morgantown, WV. March 2002.

Mr. Gaujot is president and principal geologist with GreenRivers, LLC. GreenRivers provides ecological restoration to communities, associations, agencies, and businesses. Ecological restoration initiatives include turn-key stream and wetland restoration projects, mitigation banking, site identification, watershed assessment, watershed planning, riparian corridor design and construction, stream-bank stabilization, culvert & small bridge design, retrofit, and installation, acid mine drainage AMD abatement design, and monitoring services.

Previous clients include Wildland Hydrology, EarthMark Mitigation, Appalachian Stream Restoration, Appalachian Forest Products, Summit Engineering, Highland Engineering & Surveying, TrakSpec Railroad Corporation, Downstream Strategies, Elk Headwaters Association, Friends of the Cheat, Cheat River TMDL Stakeholder Group, Shavers Fork Coalition, Briscoe Run Watershed Association, Morris Creek Watershed Association, Kelly's Creek Watershed Association, Hughes Creek Watershed Association, Davis Creek Watershed Association, South Branch Watershed Association of Hampshire County, Gilmer Watershed Coalition, WV Rivers Coalition, WV Council of Trout Unlimited, The Nature Conservancy, West Virginia University, West Virginia Water Research Institute, United States Environmental Protection Agency, United State Army Corps of Engineers, United State Fish and Wildlife Service, Federal Emergency Management Agency FEMA, United States Forest Service, WV Department of Environmental Protection, and the WV Division of Natural Resources.

PROFESSIONAL EXPERIENCE

Highlights

- Stream restoration assessment, design, and construction management
- Mitigation, mitigation banking, and post-construction monitoring
- Trainer in over 1000 hours of hydrologic classes and programs
- Stream and wetland permit applications for federal, state, and local requirements
- Watershed Based Plans, watershed master plans, and TMDL development
- Acid mine drainage abatement project concept design and WCAP grant submission
- Watershed Assessment for River Stability and Sediment Supply (WARSSS)
- Stream gage installation and calibrations referencing bankfull discharge
- FEMA Flood Map redelineation for Gilmer and Preston Counties, WV
- Floodplain management strategies and floodplain delineation using LiDAR
- Geologic and Hydrogeologic assessments
- Published in the Encyclopedia of Appalachia, 2006, University of Tennessee Press
- Central to collaborations with technical agencies, as well as private citizens
- Legislative testimony on Water Quality and Flooding issues for WV

Ecological Restoration and Training Experience 1998 - 2010

- Participated in all aspects of approximately **10 miles of ‘on-ground’ stream restoration projects** in the Eastern US, including design, permitting, installation, and monitoring.
- **Rosgen certified levels 1-4** with Wildland Hydrology; field and **technical instructor** with Dave L. Rosgen PhD in over 600 hours of Natural Stream Design (NSD) training courses from Levels 1 – 3 including the Level 1 Engineers Course
- **Geomorphologic and hydrologic assessments**, bedload and suspended sediment measurement and monitoring, stream stability and sediment supply analysis, geophysical exploration, assessment of property, proposal of exploration, core drilling supervision, geophysical logging of drill holes, evaluation and closure of solid waste facilities
- **Reference reach database** collection and USGS gage station calibrations throughout the Mid Atlantic Highlands
- Provided over **1000 hours of tailored Hydrologic training** to federal, state, and local agencies and various watershed organizations in WV, MD, VA, and PA
- **Watershed Base Plan development** for the Morris Creek Watershed Association, Mountwood Park, and Mill Creek of the Opequen River.
- Grant application development, conceptual design, and funding acquisition for **four Watershed Cooperative Agreement Proposals (WCAP)** to the US Office of Surface Mining for the Morris Creek Watershed acid mine drainage and sediment abatement projects (total projects cost \$1.2 million)
- Watershed Assessment of River Stability and Sediment Supply (**WARSSS**) for Sand Fork and Horseshoe Run, WV
- **Groundwater monitoring** activities include assessment of contaminants including causes, impact, and remedial alternatives, deep and shallow well installations and development, permeability testing, sampling and reporting, water supply inventory, contaminated site risk assessment, diesel product recovery, potentiometric flow maps, and stream gauging
- **Bedload and suspended sediment sampling** for transport rates, annual sediment yield, and **TMDL reductions** for two stream monitoring stations in the Cheat Basin
- **LiDAR data** acquisition, ground control, and analyses for **FEMA flood mapping** and stream restoration projects in the Mid Atlantic Highlands. Gilmer County digital flood insurance rate map DFIRM production and community implementation
- **Geologic Assessment** for a construction project on 3,208 acre parcel adjacent to USF&WS Wildlife Refuge, the Davis municipal water supply system, WV state highways 93, a WVDEP acid mine drainage treatment system, and the Blackwater River

Certifications

- Rosgen Trained Level 1-4 in Applied Fluvial Geomorphology, River Assessment, Monitoring, Restoration, and Natural Stream Channel Design
- Professional Hydrologist (HIT #09-HIT-055); American Institute of Hydrology
- Certified Floodplain Manager (CFM) #US-05-01608 Association of State Floodplain Managers

Previous Employment

- Canaan Valley Institute, Thomas, WV (2002 – 2010); Geologist, Aquatic Restoration Team
- West Virginia Division of Natural Resources, Elkins, WV (2001 - 2002); Forestry Technician Internship, Wildlife Resources Division
- West Virginia University, Morgantown, WV (1999 to 2001); Teaching Assistant, Department of Geology and Geography, (*Teaching Assistant of the Year 2000*)
- Marshall Miller & Associates, Bluefield, VA (1998 to 1999); Geologist, Special Services Unit