

Education

B.S. Geology and Geophysics, Environmental Geoscience and Energy, Yale University, 2014

Qualifications

Abby Eurich has done research into the effects of wildfire exclusion on watershed and forest function as well as resource management for wildfire risk reduction, since attaining her Bachelor of Science. Abby has worked on landscape-level assessments as well as smaller scale, seventh-level watershed analyses. Since starting work with JW Associates, Abby has contributed expertise to a number of projects pertaining to pre- and post-fire analysis and planning, and watershed assessment and restoration. She is an expert in watershed analysis using Geographic Information Systems (GIS) technology and is academically accomplished in forest ecology, hydrology, climate and atmospheric science, dendrochronology, and wildfire effects on landscapes and forest habitat.

Project Experience

Coalition for the Poudre River Watershed, Upper Poudre River Watershed Assessment and Resilience Plan, Ft. Collins, CO - GIS specialist, project research, and field work for planning and implementing habitat restoration to address the impacts of the 2012 wildfires. The goal of this project is to identify the highest priority areas for reducing wildfire risk and develop recommendations for treatment. Using the procedure described in the document titled Protecting Critical Watersheds in Colorado from Wildfire: A Technical Approach to Watershed Assessment and Prioritization, this assessment will prioritize sixth and seventh-level watersheds within four-level watersheds for wildfire risk reduction based upon their potential for adverse changes in hydrologic function following wildfire and their locations within zones of concern for water supplies.

USDA Forest Service, Santa Fe National Forest; Geothermal Leasing Environmental Impact Statement, Soils and Hydrology Specialist Report; Coyote, Cuba, and Jemez Ranger Districts, NM - GIS specialist and project research lead on an environmental impact statement (EIS) to facilitate geothermal leasing on National Forest System lands that have geothermal potential for electrical power generation in the Santa Fe National Forest. Specialist report covers

potential impacts to the surface water and groundwater resources within the 194,910 acre project area.

Cucharas River Watershed Protection Project, Wildfire Assessment and Small Watershed Targeting Analysis, Huerfano County, CO - GIS specialist and research analysis in this project to identify the potential impacts of wildfires and subsequent flooding, increased sediment yield and debris flows on their ability to provide high quality water to several municipalities as well as many irrigators in the basin. Following the Cucharas River Wildfire/Watershed Assessment (JW Associates 2014a) which used the procedure prescribed by the Front Range Watershed Protection Data Refinement Work Group (2009), this project will utilize small scale analysis and planning within each Zone of Concern to identify specific hazard areas that will be the priority for vegetation or other treatments before fire, or targeted mitigation efforts after fire. In collaboration with the Cucharas River Watershed Group.

Big Thompson Wildfire/Watershed Assessment - GIS specialist, project research, and data interpretation. Using the procedure described in the document titled Protecting Critical Watersheds in Colorado from Wildfire: A Technical Approach to Watershed Assessment and Prioritization. These projects prioritized sixth-level watersheds within four-level watersheds for wildfire risk reduction based upon their potential for adverse changes in hydrologic function following wildfire and their locations within zones of concern for water supplies.

Oregon State University College of Forestry, The Nature Conservancy, Deschutes National Forest, OR - Biological field researcher and dendrochronologist in a landscape level assessment of historical fire regimes and forest development, and the effects of fire exclusion on forest and watershed function in a diverse 30,000 acre landscape in the Deschutes National Forest. This unique research project was designed in collaboration with the Deschutes Collaborative Forest Project (DCFP) whose mission is to bring together a diverse group of stakeholders to develop zones of agreement that promote forest and watershed restoration and resilience.