



Enjoying Wyoming's Wind River Range on a recent pack trip.

Ellen Svadlenak

Hydrologic Scientist

Ellen is a hydrologic scientist with the Earth Resource Program at the Survey. This team conducts studies organized around hydrogeology, geothermal resources, and carbon sequestration. Ellen's research is focused on deep groundwater flow paths and chemistry, and the potential impact of water-rock reactions on water quality, geothermal, and carbon sequestration projects. Prior to working for the Survey, Ellen spent several years as a consulting hydrogeologist in Portland, OR. She has also worked as a technician in forestry, agriculture, and laboratory settings, and is passionate about natural resource management.

Job Responsibilities

Hydrogeologic data accumulation, collection, integration, and synthesis; fieldwork planning and coordination; outreach and education; project management.

Professional Interests

Hydrogeology, geochemistry, flood basalt stratigraphy, rock weathering and secondary mineralization, aquifer storage and recovery, thermal energy storage, renewable energy

Skills

ArcGIS, geochemical reaction modeling, statistical analysis (R and ProUCL), aquifer testing and analysis, water level and quality monitoring and analysis

Professional Experience

- Hydrogeologist at GSI Water Solutions Inc., Portland, OR
- Graduate Research Assistant at Portland State University, Portland, OR
- Forestry/GIS Mapping Technician at Green Diamond Resource Company, Klamath, CA
- Laboratory Assistant, Oregon State University Paleomagnetism and Sediment Core Labs, Corvallis, OR

Education

- M.S. Geology with specialization in Hydrology, Portland State University, Portland, OR
- B.S. Earth Science/Geology, Oregon State University, Corvallis, OR

Personal Interests

Travel, water polo, infrastructure projects, getting outdoors (by foot or kayak), reading, music, and pets (both canine and feline)