

Kevin J. Pilgrim
Professional Engineer
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SUMMARY

I am a licensed Professional Water Resource Engineer in the State of Colorado, Montana, Utah and Washington with a strong interdisciplinary background in hydraulics, hydrology, and geomorphology. My interest is in the changing risk to people from climate change and how society will adjust to those risks. Communicating those risks and how the public perceives the risk has been a lifelong interest of mine.

ENGINEERING EXPERIENCE

Senior Hydraulic Engineer, David Evans and Associates, Lacey, WA, May 2025 to April 2026

- Technical lead for channel design, post-fire flood risk assessment and floodplain development permit applications including FEMA CLOMR/LOMR process
- Hydrologic (HEC-HMS, HEC-FFA) and Hydraulic analysis (SMS-SRH-2D, HY-8, HEC-RAS 1-D and 2-D) and data processing and presentation using ArcGIS
- Erosion control, drainage channel design in Civil 3D and construction documentation for transportation projects including fish passage design

CDOT Region 1 and 2 Hydraulic Engineer, Denver, CO, September 2022 to April 2025

- Subject Matter Expert for Hydrology, Hydraulics, Drainage and Scour aspects of CDOT projects
- Advise, review and complete FEMA Floodplain Development Permit applications
- Scour counter measure design and review
- Hydrologic and hydraulic model development to support CDOT projects (HEC-HMS, HEC-SSP USGS Gage analysis, SMS-SRH-2D, HY-8)
- Hydraulic design review as the Region Hydraulic Engineer for the Region 2 Bridge Bundle project
- State Highway Access Code permit development drainage reviews
- Interpretation of State and Federal regulations for CDOT compliance and understanding liability
- Project Manager for Critical Culvert repair and replacement project

Senior Project Engineer, JVA, Inc., Boulder, CO (Jan 2021 to Jan 2022)

- Technical lead for channel design, post-fire flood risk assessment and floodplain development permit applications including FEMA CLOMR/LOMR process
- Hydrologic (HEC-HMS, HEC-FFA) and Hydraulic analysis (1-D and 2-D HEC-RAS) and data processing and presentation using ArcGIS
- Erosion control, drainage channel design in Civil 3D and construction documentation for municipal and residential site development

Water Resources Engineer, Coalitions and Collaboratives, Inc., Lake George, CO (2019-Oct 2020)

- Project manager and Engineer of Record for of post-fire watershed analysis, erosion control, flood mitigation and water rights projects
- Performed Hydrologic (HEC-HMS, HEC-FFA) and Hydraulic analysis (1-D and 2-D HEC-RAS) and data analysis and processing with ArcGIS with Spatial Analyst and 3D Analyst

Water Resources Designer, Otak Inc. Boulder, CO (2015-2018)

- Project management, design and construction oversight of river restoration and stabilization projects in the Colorado Front Range including $5 million EWP 2013 Flood Recovery Project on Left Hand Creek
- Performed Hydrologic (HEC-HMS, EPA-SWMM, USGS Gage analysis) and Hydraulic analysis (1-D and 2-D HEC-RAS) and data analysis and processing with ArcGIS with Spatial Analyst and 3D Analyst
- Developed design surfaces and drafted construction drawings to support river restoration projects using AutoCAD Civil 3D
- Performed sediment-transport analyses (including incipient motion and sediment continuity) to evaluate design

Stormwater Engineer, King County, Seattle, WA (2013-2015)

- Developed continuous simulation hydrologic models from GIS data using Arc-GIS, EPA-SWMM and DHI Model for Urban Sewers (MOUSE) for use in the combined sewer overflow (CSO) control program
- Worked on project team for implementation of green stormwater infrastructure (GSI) to reduce CSOs
- Developed modeling standards for green stormwater infrastructure with the City of Seattle

Civil Engineer, US Forest Service Rocky Mountain Research Station, Moscow, ID (2012)

- Collect and analyze hydraulic conductivity data throughout the Western US for use in the Watershed Erosion Prediction Project (WEPP) to examine impacts of forest practices such as logging and road building on watershed process
- Maintain weather stations at study sites and collect and analyze sediment data to monitor impacts of forest management on the watershed

Hydraulic Engineer, Tetra Tech Surface Water Group, Fort Collins, CO (2007-2011)

- Managed and designed river restoration projects on the Rio Grande, North Platte and San Joaquin rivers.
- Developed site plans for restoration projects using Bentley MicroStation, InRoads
- Developed and calibrated 1-D hydraulic models (HEC-RAS) and 2-D Surface-water Modeling Solution (SMS) and SRH-2D for large river projects using ESRI ArcMap with Spatial Analyst and 3D Analyst
- Collected topographic data on the Rio Grande River in New Mexico and the San Joaquin River in California for mapping and model development using a Real Time Kinetic Global Positioning System (RTK-GPS)
- Collected velocity data for use with gaging stations and calibration of hydraulic models using an Acoustic Doppler Current Profiler (ADCP)
- Performed sediment-transport analyses (including incipient motion and sediment continuity)

CERTIFICATION and PROFESSIONAL AFFLIATIONS
Professional Engineer, Utah, Washington, Colorado, Montana
Certified Floodplain Manager (CFM)
Member of American Water Resources Association (AWRA)
Member of American Society of Civil Engineers (ASCE)

EDUCATION

Master of Science in Civil Engineering (2007) Focus: Hydraulics and River Mechanics
Colorado State University, Fort Collins, Colorado, USA

Bachelor of Science in Environmental Science (1995)
University of Denver, Denver, Colorado, USA