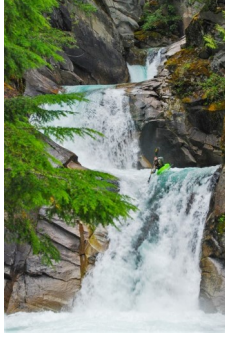


Mason Lacy, PE, MS, CFM



Design Engineer, Recreation Engineering & Planning, Bend
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Background

Mason is a Professional Engineer with experience in process based river restoration design and whitewater park design. He holds a Master's degree in Water Resources Engineering focused on hydraulic modeling and fluvial processes. Mason has worked on whitewater projects from feasibility to construction, including leading the design for the modification of a dangerous weir on the Kansas River to provide fish passage, whitewater recreation, and enhanced safety. He has led multiple two-dimensional modeling studies, for projects involving anastomosing channel restoration, low head dam removal, fish passage, and whitewater structures. Mason is currently employed at Recreation Engineering & Planning (REP) and Environmental Science Associates (ESA).

Education & Professional Credentials

M.S., Water Resources Engineering, Arizona State University (3.9GPA), 2016
B.A.Sc., Civil Engineering, University of Colorado at Boulder (3.9GPA), 2012
Professional Engineer (PE), Washington State, License #56279
Certified Floodplain Manager (CFM) Association of State Floodplain Managers, Inc.
Certified Erosion and Sediment Control Lead (CESCL), WA Department of Ecology

Professional Experience

Design Engineer	May 2015—Present
Recreation Engineering & Planning	Boulder, CO
Whitewater park design, feasibility, hydraulic modeling, permitting, fish passage, construction field reviews, project management, PS&E development	
Water Resources Engineer	August 2016—Present
Environmental Science Associates	Bend, OR
Stream restoration design, fish passage design & analysis, hydraulic & sediment transport modeling, construction field reviews, PS&E development	
Staff Engineer	July 2014—November 2014
Ninyo & Moore	Phoenix, AZ
Geotechnical investigations, construction materials testing proposals, field reviews of soil nail installation, groundwater cutoff and scour wall installation.	
Junior Geotechnical Engineer	April 2013—April 2014
GeoPacific Consultants	Vancouver, BC
Construction project management including field reviews, design changes, and communication with client / contractor for several large excavations in the Vancouver metro area. Geotechnical investigations, investigation reports, and design recommendations for excavations & shoring, earth pressures, bearing capacities, etc.	

Highlighted Project Experience

2015-Present, Kansas River Weir Improvements, Topeka, KS. Project Manager for this low head dam modification project on the Kansas River in Topeka, Kansas. This project includes retrofitting a hazardous, low head dam with energy dissipation structures and a channel with natural stone structures that create whitewater recreation and fish passage. This project is located in an urban environment and required coordination with multiple agencies.

2017, Chehalis Basin Sediment Transport and Hydro-Dynamic Model, Chehalis, WA. Assessment of Stream Simulation Culvert Design for fish passage for the Washington Department of Fish and Wildlife. Lead modeler for two-dimensional hydraulic, sediment transport, and bed evolution modeling to evaluate the performance of several design alternatives for current and future flows.

2017-Present, Powell Butte Floodplain Restoration, Portland, OR. Led development of restoration alternatives and two-dimensional hydraulic modeling for a reach of Johnson Creek for City of Portland BES. Restoration alternatives were developed to reduce flooding as well as provide habitat / water quality benefits, then assessed for quantitative flood reduction using HEC-RAS 2D.