



William John Coughlin
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Scientific and Project Management Experience

President/Owner - Western Stream Works, LLC

1999-present

Bill Coughlin began Western Stream Works (WSW) in 1999 after twelve years working as a scientist and project manager. As sole proprietor, Bill dedicates himself to each project, and completes each aspect of the project from beginning to end. He completes the project design and procures all required permitting including the Army Corps, and has years of experience permitting successful projects. He manages the construction, runs the equipment, installs the vegetation, and completes the monitoring requirements. As a one-person, all-inclusive entity, WSW is able to oversee each project. Bill is on site at all times to ensure project success. Please see the WSW List of Projects for more detail of Bill's experience.

Environmental Specialist - Telluride Ski & Golf Company, Colorado, 1997-1999

Managed hydrologic analysis and stream and wetland restoration activities within the country's largest Consent Decree Action. Collected stream and groundwater data for pre-construction planning and post-construction erosion control; built and installed groundwater wells; installed Parshall flumes and staff gauges; collected precipitation, suspended sediment, bed load and water quality data. Wrote data reports to EPA.

Valley Floor Wetlands Specialist, San Miguel Valley Floor Corporation, Telluride, Colorado, 1998

Installed and monitored groundwater monitoring wells, completed soil moisture analysis, gauged San Miguel River peak flows, including synoptic gauging of all tributary streams, completed hydrologic data collection.

Project Manager, Gondola Wetland Mitigation Project - Town of Mountain Village, Colorado, 1996

Completed a \$200,000 wetland and stream mitigation project: rebuilt stream channels, rebuilt a pond establishing wetland terraces, and diverted a stream into created swales and meadows maximizing square acreage through grading techniques. Monitored surface hydrology and managed erosion control.

Site River, Belize Coastal Runoff Containment Data Analysis, 1994-1996

Data collection with Belize to identify the use of pesticides up gradient of pristine reef ecosystem.

Arctic Hydrologist - Water Research Center, Fairbanks and Prudhoe Bay, Alaska, 1994-1995

Completed hydrologic and wetland analysis in Alaskan watersheds, throughout the Arctic including Prudhoe Bay area and the Brooks Range for the Water Research Center, based at the University of Alaska, Fairbanks. Built meteorological stations throughout arctic wilderness, gauged stream flows, collected snow pack data, programmed data loggers, built weirs to monitor spring runoff, and created data files and hydrographs. Hydrological analysis of Superfund site at Ft. Wainwright, including installation and monitoring of deep water wells. Bill invented a technique preventing the annual replacement of \$10,000 monitoring wells installed in permafrost by transferring air pressure into the well from a SCUBA tank.

Oceanography Technician - Institute of Marine Science, Kenai Fjords National Park, Alaska, 1995

While on board the Alpha Helix Research Vessel operated by the Institute of Marine Science, University of Alaska Fairbanks, managed data collection including conductivity, temperature and density data including captioning vessel in previously unstudied glacial calving zone.

Research Scientist, Diver - Exxon Valdez Oil Spill Damage Assessment, Alaska 1990-1991

Analyzed intertidal sediment samples for presence of macroinvertebrates. Dive-research team member.

Physical Scientist - Great Lakes Laboratory, Buffalo, New York, 1986-1987

Collected water samples and sediment samples along U.S. and Canadian riparian border during U.S. Fish and Wildlife Niagara River Contaminant Study. Researched the effects of toxic landfills including Love Canal on benthic fish and marine ecosystems. Managed research vessel for U.S. Geologic Survey. Electro-shocked fish, built on-board data collection apparatus. Collected artificial reef biological data utilizing SCUBA.

Eighteen Mile Creek Drainage Basin, Colden, New York, 1987

Analyzed fluvial geomorphology and stream flow characteristics of stream channel.

Bureau of Land Management, Student Conservation Association, U.S. Forest Service, Kremmling, Colorado, 1986

Hydrological analysis of streams along riparian areas affected by cattle grazing. Designed and built an interpretive sign including topographical and geological history of Upper Gore Canyon.

Teaching and other Experience

Ridgway High School, Ridgway, Colorado, 2000-2001 - High School Science Teacher

Mountain Craft, Inc., 1996-2000 - Owner of log home and log-construction business

North – South Extremes, Inc., Owner, 1993-1996

International guide business, focusing on a cross-cultural experience in Belize and Alaska.

University of Alaska, Fairbanks, Alaska, 1993 - Upward Bound Program Teaching Indigenous Students

Haiku Private Middle School, Haiku, Hawaii, 1992 - Special Education Teacher

Homesteaded, Land for Alaskans Program, McCloud, Alaska 1989-1996

Built cabin in Alaskan wilderness and lived a subsistence lifestyle.

Kenny Lake High School, Kenny Lake, Alaska, 1988 - Science, Physical Ed., & Outdoor Ed. Teacher

Fire Trail Construction, Forest Service Contractor, Oregon, 1983-1984

Commercial Fisherman, Shelter Island, San Diego, California 1983

Gillnetted on 36' rock cod boat in 65' seas, 300 miles offshore during the El Nino storms of 1983.

River Guide; Quebec, New York, Alaska and S.C.A. River Ranger, Colorado 1981-1996

PADI Dive Master in Hawaii, Belize, California and Alaska

Public Relations Experience

Living Streambanks, A Manual of Bioengineering Treatments of Colorado Streams, Colorado Water Conservation Board, Technical Review Committee, provide input and direction for the manual.

River Network, 2010 River Rally, Snowbird, Utah- Contributor during Stream Restoration seminar

Uncompahgre Watershed Partnership, Montrose, CO – Moderator during Stormwater Conference involving several towns and Cities on the Western Slope of Colorado

Fort Lewis College, Durango, and Mesa State College, Grand Junction - Guest lecturer

Colorado Non Point Source Connection Newsletter – Wrote newsletter article applying stream restoration principles and techniques to improve stormwater management.

Colorado Riparian Association, Colorado Watershed Assembly - Member

Trout Unlimited Stream Restoration Workshop - Guest Speaker

10th National Nonpoint Source Monitoring Workshop - Presenter

San Miguel Watershed Newsletter and the **Colorado Riparian Association Magazine** - Contributor

Division of Water Quality, Salt Lake City, Utah - Water quality outreach and education demonstrations

Nenana River Regulatory Meetings, Denali National Park, Alaska – Spokesperson as professional river guide and hydrologist

Certifications

State of Colorado Licensed Class D Industrial Wastewater Operator 2008

Certified Stormwater Management Erosion Control Inspector and Supervisor 2007

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Education

Environmental Science and Engineering, University of Alaska, Fairbanks, 1993-1995

Hydrologic and Physical Sciences, State University of New York at Buffalo, 1987-1988

Geosciences, State University of New York College at Buffalo, B.S., 1984-1986, Deans List

Physical Sciences, Oregon State University, Corvallis Oregon, 1983-1984

References

Kara Hellige, U.S. Army Corps of Engineers	(970) 560-0948	Kara.A.Hellige@usace.army.mil
Camille Price CDPHE Inactive Mine Reclamation Program	(970) 708-7188	Camille.price@state.co.us
Ty Churchwell, Trout Unlimited 5 Rivers Chapter	(970) 903-3010	TChurchwell@tu.org
John Ryan, Coronet Creek landowner/client	(612) 924-7747	jryan@johnryan.com