

Porior Engineering LLC

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Brief Resumes of Staff

Attached below are resumes of Don Porior and Charles R. Walker, engineers with Porior Engineering LLC an engineering firm in Coos Bay Oregon. The goals of Porior Engineering LLC are to provide engineering and design supports for watershed restoration with an emphasis on fish passage structures, stream enhancements and stream restoration. Porior Engineering LLC is fully insured to county and Oregon State standards.

- **Highlights:**

- Our engineers have extensive experience working in both public and private sectors on fish passage design and stream restoration projects.
- Expert designers and contract administrators for fish passage structures to include Stream simulation culverts, Hydraulic design culverts on steep grades, small bridges, fords, road restoration projects and watershed enhancement.

Don Porior

Porior Engineering LLC
69262 Wildwood Road North Bend, Oregon 97459
4/01 to Present

As a principle engineer for Porior Engineering LLC, Don Porior coordinates and provides completed designs for stream restoration and fish enhancement projects. Projects have included culverts, bridges, fords, tide gates, stream restoration, flood studies, hydraulic reposts, 404 permits, erosion control permits, water quality structures, and subdivision designs.

As part of the design process, Mr. Porior personally surveys each site, prepares alternatives, review alternatives with the clients and land owners, prepare final plans and specifications and inspect the projects during critical phases of work. In a typical year he will work on approximately 20 culverts and bridge sites.

Porior Engineering has been in business since April of 2001, Mr. Porior has devoted full time to this work. Our clients have included The Bureau of Land Management, numerous watershed councils, Ducks Unlimited, Trout Unlimited and the U. S. Forest Service. We have working relationships with the majority of culvert, bridge, Geotextiles, and pre-casting firms in Oregon. Our company has worked to provide the best alternatives for each site to include the improvements in many of the products currently on the market.

Coordination work includes making presentation to the respective agencies and occasionally providing training to their staff.

**Bureau of Land Management, Coos Bay District North Bend, Oregon
District Engineer and Bureau Technical Lead on Fish Passage Designs
4/1992 to 4/2001**

As District Engineer for the Coos Bay District of the BLM, Mr. Porior was responsible for all engineering activities on the District. He was indirectly responsible or directly supervised an engineering staff of 12 engineers and technicians. He personally designed the more complex projects. The districts project workload averaged approximately two million dollars of public works contracts per year in addition to supporting the timber program.

He was the principle engineering contact for all budget proposals that affected engineering. In that capacity he worked with outside agencies such as the FHWA, USFS, and various watershed councils.

As technical lead for the District, he worked on developing fishway and stream simulation designs for road and stream crossings. He has designed directly and/or trained the majority of the designers in Southern Oregon in the design and redesign of road/stream crossings. He gave numerous field trips and seminars each year in this capacity and taught the BLM courses on stream simulation and culvert design in Denver. Before retiring from the Federal Government he was the Technical Advisor for fish passage designs for the Bureau of Land Management in Oregon. In that capacity he met with other agencies, attended conferences, gave presentations and represented the Bureau of Land Management on Statewide issues.

He supervised other engineers and technicians, acted as program lead for the District, and personally designed unique projects. Examples of those projects include the following.

Reinforced Soil Retaining Walls

Reinforced soil fills

Fish passage structures -using stream simulation designs

Retrofit designs for culverts for fish passage

Alaskan Steep Pass designs -retrofit plans for a dam.

Prefabricated bridges for stream crossings

Road Decommissioning - concept and plans

H- Pile walls for repairing slumps and slides

Slope stabilization methods using deep drains and abutments.

Mr. Porior's work in watershed enhancement was not restricted to the BLM but also included work with watershed associations. During this period he worked with watershed councils preparing designs for fish passage structures, training of crews and developed agreements between the councils and Bureau of Land Management. He participated in the Governors Restoration Workshops and made presentations at on stream simulation designs for workshops and forums.

U.S. Forest Service, Siskiyou National Forest
93976 Ocean Way, Gold Beach, Oregon
Westside Engineering Zone,
Supervisory Civil Engineer
10/1977 to 4/1992

During the 15 years that Mr. Porior worked on the Siskiyou National Forest, he was the team leader of three different design teams in addition to being the professional assistant to the Westside Zone Engineer. He worked in the following positions” Public Works Team lead, Road Maintenance Manager and Geotechnical Team Lead.

These teams supported the roads and facilities construction and maintenance program for the Siskiyou National Forest. Mr. Porior was responsible for numerous road related repairs, maintained a forest road system, and provided geotechnical and structural engineering support to other teams on the forest. In a typical year we designed and replaced 1 to 3 bridges, 2 to 4 retaining walls, prepared and reviewed road surfacing designs, designed multiple culverts, designed and administered campground construction and reconstruction, in addition to other ongoing program in support of forest management activities.

Education:

Wisconsin State University @ Platteville, Wisconsin
Bachelor of Science- Civil Engineering BSCE
Lane Community College
Associates of Science in Business Management

Platteville, Wisconsin
1968
Eugene, Oregon
June 1976

License:

Registered Professional Engineer, State of Oregon
Registered Land Surveyor, State of Oregon

1977
1977

Robert (Bob) Walker

2005-Present, Consulting Civil Engineer

As a consulting engineer Mr. Walker has worked with watershed councils, federal, county, city and non-governmental entities on the design and construction of fish passage structures and walking paths.

2003-2005 Southern Oregon Zone Engineer, Medford OR

As Zone Engineer Mr. Walker supported the Medford, Coos Bay, Lakeview and Roseburg BLM Districts. He prepared specification and drawings for various construction projects and administered those construction contracts as a contracting officer's representative.

1995 – 2003 BLM District Engineer, Medford District, Medford, OR

As District Engineer Mr. Walker reviewed all engineering products that went out of the Medford District office for engineering accuracy. He was also responsible for the review and/or design of about 30 fish passage projects. These usually involved removing existing undersized culverts and replacing them with bottomless structures, bridges or larger culverts that were embedded in the stream. He administered the more complex construction projects on the district, which entailed approving construction work and negotiating changes to projects.

1994 – 1995 BLM District Engineer, Farmington District, Farmington, NM

As District Engineer Mr. Walker was involved in various engineering projects on the District including: fencing contracts, wildlife islands in stock ponds, road maintenance and property boundary location.

1991–1994 Force Account Program Leader, BLM State Office, Santa Fe, NM

Mr. Walker managed a crew of four equipment operators that built and maintained roads and other earth moving projects around the State of New Mexico.

1990 - 1991 Civil Engineer, Shawnee National Forest, Harrisburg, IL

Mr. Walker administered various engineering projects including road construction and maintenance, 120 foot bridge with 80 foot center span, recreation projects involving archeological issues and restrictions and a retaining wall for a road along a stream.

1985 – 1990 Supervisory Civil Engineer, Gila National Forest, Silver City, NM

Mr. Walker supervised five people that were responsible for preconstruction engineering on the Forest. He did most of the road location for timber sales in roadless areas and previously logged areas with marginal road systems. He worked with Forest and Regional logging personnel to prepare harvest area plans for the sales. He attended interdisciplinary team meetings as the engineering representative and presented road options for the sales. He reviewed and approved road plans prepared by the Transportation Planning Team.

1980 – 1985 Civil Engineer, Zone II, Siskiyou National Forest, Wedderburn, OR

Mr. Walker surveyed, designed, slope staked and inspected roads, major culverts and concrete structures for timber sale and public works projects. He administered and designed parts of a \$230,000 flood repair project that included major culverts with trash racks, French drains, grouted riprap slope protection, a large retaining wall and the relocation of a road to widen the channel of the South Fork of the Coquille River.

1965-1978 Aerospace Technologist, Johnson Space Center, Houston, TX

Mr. Walker worked in the Landing and Recovery Division for the Apollo Program, the Flight Operations Division during the Skylab Program and the Remote Sensing Aircraft Program Office.

Education:

BSME: Rose Polytechnic Institute, Terre Haute, Indiana

License:

Registered Professional Engineer, State of Oregon 1997