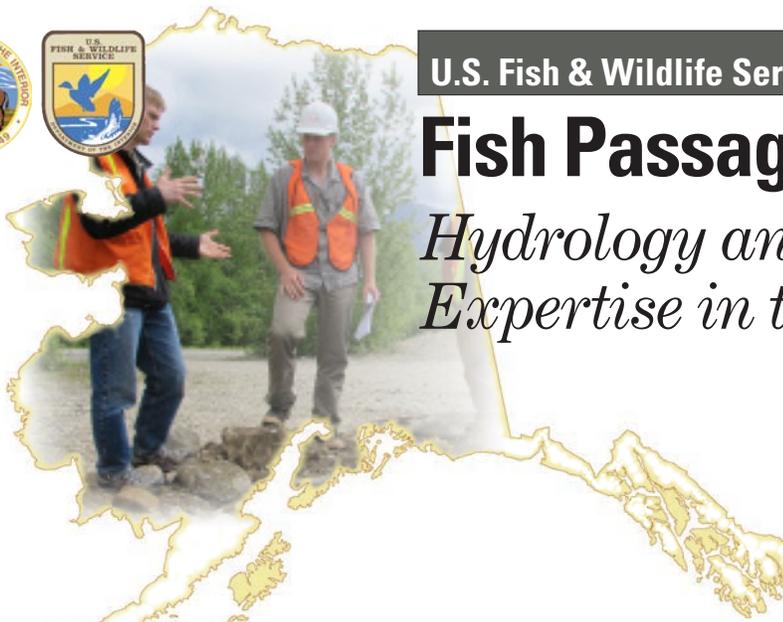




U.S. Fish & Wildlife Service

Fish Passage Engineering

Hydrology and Engineering Expertise in the Alaska Region



Fish Passage Barriers in Alaska

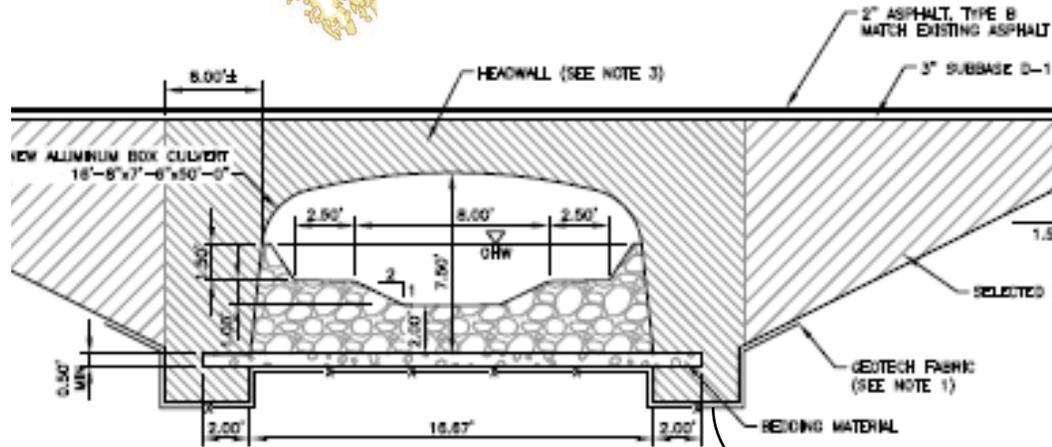
An estimated 5,000-10,000 culverts underly Alaska's resource access roads, major state highways, and neighborhood streets. These can block upstream and downstream movement of juveniles and adult fish during all or certain times of year, as well as alter key habitats.

Engineering and Hydrology Solutions

Fish passage engineering and technical support are important tools for implementing the National Fish Passage Program (NFPP) in Alaska. Service support ranges from project selection and prioritization, funding, planning, design, review, inspection, monitoring, and evaluation. Region 7 continues to facilitate the delivery of on-the-ground fish passage projects by designing, reviewing, and implementing projects in coordination with partner organizations.

Region Capacity

Region 7 has one permanent fish passage engineer/hydrologist that is multifinanced by NFPP and the Service's other habitat restoration programs. Since 2006, over 80 fish passage projects and a myriad of stream channel and bank restoration projects have been implemented with direct support from the engineer.



Engineering and hydrological solutions to fish passage problems in Alaska are also presented annually at a series of educational workshops across the state that focus on the history, design, and latest methods in maximizing fish passage at road-stream crossings. Since 2006, over 250 state, Federal, municipal, and tribal agency staff, NGO members, consultants, and transportation engineers have participated.



USFWS

Government Creek: a 5.5ft perched/undersized culvert was replaced with a 16ft arch engineered to accommodate the system's natural hydrology and ecology of local fish populations.



USFWS/Katrina Mueller

Small groups working through fish passage design case studies at a two-day fish passage workshop in Homer.

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<http://alaska.fws.gov/fisheries/restoration/passag.htm>

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