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COMMENTARY

## Proposed Susitna dam an outdated option, would set salmon back

## **By RAND HAGENSTEIN** and CORINNE SMITH

The recent withdrawal of funding for the Susitna dam project from Gov. Bill Walker's budget recommendations may have clouded the future of the proposal for now. While it's too soon to know the project's ultimate fate, it's not too early to assess what the proposed dam would mean for Alaska salmon.

The Susitna River is home to Alaska's fourth-largest run of chinook salmon. In a single summer you could catch all five species of salmon in its waters. The river supports subsistence traditions, sportfishing and commercial fisheries, and as such, its contributions to the people of Alaska are tremendous.

At the same time, the facts show that Alaska has plenty to gain from hydropower. It's a clean energy source. It can be relatively inexpensive. Many communities in Alaska - Sitka, Kodiak and Cordova are among them rely on small-scale hydropower for an alternative to municipal diesel generators. And of course, in the year 2015, we cannot deny the value of carbonneutral energy. That's plus, plus and another plus for hydropower.

This is why The Nature Conservancy works with communities, governments and power utilities around the world to help make sure that hydropower is developed and managed in a way that doesn't harm fish and wildlife. This includes working hand in



Hagenstein

hand with the U.S. Army Corps of En-

gineers in the Lower 48 to reduce im-

pacts to fish from existing dams. Just

U.S. Bureau of Reclamation in a his-

toric effort to restore Colorado River

fish habitat with a rejuvenating pulse

of water. The conservancy also helps

lead the innovative Low Impact Hy-

dropower Institute, a nonprofit led by

a diverse array of companies and or-

ganizations committed to sustaining

hydropower's contributions to the na-

As Alaskans, we want to know that

tion's energy grid while reducing its

when hydropower gets developed,

neither opposed nor supported the

it's done in the right way. While we've

Susitna project, we have applied our

organization's global hydropower ex-

pertise to address an important ques-

tion for Alaska: How does the Susitna

supply what salmon need, and how

would a hydropower project as pro-

vide it? To answer questions such

as these, we've recently published

posed affect the river's ability to pro-

impacts on our nation's rivers.

last spring, the conservancy joined the

Hydropower will continue to have a place in a clean, carbon-neutral energy portfolio for Alaska. ... Let's think creatively, tap our ingenuity and work together to find Alaska's best hydropower solutions.

> the "Ecological Risk Assessment of Large-Scale Hydropower on Braided

Risk assessments like this gauge how planned megaprojects could affect people and natural resources. In this case, we've specifically addressed how hydropower proposed for the Susitna would affect salmon.

We know, for instance, that dams like the one currently proposed for the Susitna do more than block spawning salmon on their upstream migration. Even though relatively few salmon spawn and rear above the proposed dam site (records confirm some chinook salmon in these waters) it's important to understand that a dam would change the 184 river miles downstream from the dam too.

The Susitna River — with its mix of side channels, sloughs and deep pools provides plenty of spawning habitat. Perhaps more important, the Susitna provides nurseries for developing salmon — eggs, alevins, fry and smolts. Before salmon can migrate to the sea, they need safe places to grow.

The risk assessment tells us that building and operating a Susitna dam as proposed would mean some immediate changes for salmon. Summer flows would fall below historically recorded levels and could limit the ability of salmon to reach spawning grounds. Winter flows may reach volumes of up to five times higher than historic conditions. Some river sections may no longer freeze, while ice may threaten salmon eggs and young fish by scouring the river bottom in other stretches. We also know that many changes to the river wouldn't affect salmon immediately. But over time, changes to water quality, water temperature and the river's ability to naturally transport wood and sediments will all impose risk on salmon.

Hydropower will continue to have a place in a clean, carbon-neutral energy portfolio for Alaska. But to be clear, the new era of low-impact hydropower doesn't look like the dams of the past. The proposed Susitna dam, as currently designed, would be an outdated option. Let's think creatively, tap our ingenuity and work together to find Alaska's best hydropower solutions. Alaska's future generations are counting on us to do just that.

Rivers in Alaska."

Rand Hagenstein is Alaska state director for The Nature Conservancy. Corinne Smith is the organization's Mat-Su program director. The "Ecological Risk Assessment of Large-Scale Hydropower on Braided Rivers in Alaska" is available at http://nature.ly/ SusitnaHydroERA.