



TEASDALE ENVIRONMENTAL ASSOCIATES

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April 25, 2007

Dan Nelson
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705-5082

RECEIVED

APR 27 2007

WATER RESOURCES
WESTERN REGION

Re: Hydropower Application for Permit from French Creek for Carl Smid

Dear Mr. Nelson:

Enclosed is my study of the frazil ice and anchor ice potential of French Creek and other streams of central Idaho. It is unlikely that a 2.0 cubic feet per second diversion and bypass of the hydropower reach in lower French Creek would cause the formation of anchor ice that would disturb the stream bed to an extent that affects fish habitat in lower French Creek.

I address the issue of ice in Idaho streams in considerable detail and introduce my research work that has not been previously published. The Idaho Department of Water Resources and the Idaho Department of Fish and Game may find the analysis of the effect of the increasing winter air temperature trends on stream ice in the mountains of central Idaho interesting, if not disconcerting. It is my hope that this report furthers the understanding of ice formation in Idaho streams and will be useful in other water resource projects.

I have a strong intellectual property interest in the enclosed material. The Idaho Department of Water Resources and the Idaho Department of Fish and Game may copy all or part of the report for use within its organization if the copies retain the proper citation, but they may not distribute the document or portions of the document to others without my written permission. Many of the figures and images convey important information by color differences; black and white copies will degrade the quality of the report. I suggest the following citation if the report is referenced in reports or correspondence:

G. Teasdale (2007). "Stream Ice Potential in Central Idaho." Teasdale Environmental Associates, PLLC, Genesee, ID.

Sincerely,

Gregg N. Teasdale, Ph.D., P.E.

cc: Cuddy and Associates