

## MEMORANDUM

State of Alaska

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*For*  
*Dale*

TO:  Ed Huizer  
Water Rights Coordinator  
Division of Commercial Fisheries  
ADF&G, Juneau

DATE : May 4, 1967

FROM: Tom Richardson  
Area Management Biologist  
Division of Commercial Fisheries  
ADF&G, Juneau

SUBJECT: Salmon Creek Dam

This memo is to summarize the points discussed at our meeting yesterday, May 3, with A. J. Industries and the Contractor for the Salmon Creek Dam rehabilitation project.

Representing the Department were Ed Huizer, Water Rights Coordinator, Tom Richardson, Commercial Fisheries and Bob Armstrong, Sport Fisheries. Representing A. J. Industries were Bill Norton, Foreman, and Dale Cameron, contractor for the Salmon creek Dam repair work.

Cameron pointed out that he anticipated getting started on the project within two weeks. He will have a crew of twenty men on the job. Initial work will consist of establishing a camp and beginning the vertical core drilling in the dam. Cameron outlined sanitation plans for the camp which appear adequate. He also discussed his plan of operations which consist of drilling 600 vertical core holes as deep as 160 feet into bedrock plus drilling a number of horizontal holes into the lower face of the dam. Grout will be injected and excess concrete scaled off the face of the dam. An epoxy bonding agent, Conhesive #2, will be used to coat the surface and gunnite will be sprayed onto the structure as the final step in resurfacing the dam. Over one million pounds of materials will be hauled to the site by Livingston Helicopters.

Both the cement and the epoxy bonding agent are toxic to fish.

The Department staff then reviewed the fish resources of Salmon Creek and the reservoir, pointed out basic life histories of the salmon and trout involved, and stressed the recreational, esthetical and commercial values of these fish resources.

After some discussion, the group came up with the following plan of action to afford as much protection as possible to fish in the system.

1. The contractor will take every necessary step to see that as little cement and epoxy enters the stream and reservoir.

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as possible.

2. A. J. Industries will divert all flow into the flume below the dam which empties into Gastineau Channel at the lower powerhouse site. This flow should contain nearly all of the toxic effluent. Tributary flow into Salmon Creek below the dam should be sufficient to keep water levels high enough for spawning salmon in the lower section.
3. The contractor will attempt to complete the grouting by August 1. Most of the sloppage will be trapped in the rock rubble below the dam. The contractor will construct a coffer dam, if feasible, below the main dam as a safety measure to trap and hold excess sloppage in the event a hose breaks or any unforeseen accident occurs during the gunniting.
4. Most of the toxic effluent will probably go down the reservoir side of the dam. All of these waters go through the flume. However, it is difficult to access what harm might occur to trout in the lake. Bob Armstrong stated that the Department may conduct live box bioassay studies to determine adverse effects on resident trout populations.
5. A. J. Industries and the contractor will keep the Department posted on their progress, primarily when they anticipate possible effluent discharge so that water samples may be taken.

TR:ff

cc: Roy Rickey  
Stan Swanson  
Wally Noerenberg  
Roger Wadman ✓  
Bob Armstrong