Leavenworth National Fish Hatchery Settling Pond Plans - Discussion with Thor Pisdal, Portland Regional Office. K. H. Mosbaugh (Tele.: FTS 8-429-4061)

1. Dimensions for the settling pond:

Width = 50 feet
Length = 125 feet
Side slopes = 2 to 1

Depth ≅ 12 ft. with 3 ft. of freeboard.

2. Generally, the hatchery people will drain and then clean only one bank of Foster Lucas Ponds at a time.

If this is the case, then the pond will have a 1-hour detention time based on 6000 gal./min. of flow.

3. The pipe to the pond does not have a plug in it (there wanted a plug to be put in the design, but the Operations people wouldn't go along with him.)

The Operations people didn't want a plug because they wanted the option to drain all 3 banks of ponds at once. (This would overload the pond.)

4. Operation will consist of first lower the water level in the ponds, then start the brush cleaning. (They will generally do one bank of ponds at a time.)

5. Maximum capacity of pipe = 13,000 gpm

For the first 10 minutes of cleaning, the anticipated flow will be 8,000 gpm.

For the rest of the time it will generally average out at 6,000 gpm.

6. Thor wanted to insist that the Hatchery people only do one bank of ponds at a time to not overload the pond, but he lost out. (The Hatchery people want to be able to do all ponds at once if need be.)

It takes more people man-power to do only one bank at a time!

* We should condition our approval letter on the point of one bank operation mode. (Thor says it would be a good point.)

7. The single pond is being built with special BOR funds. They didn't get operation funds to use their own on it.

Therefore, they are only designing one pond at this time.

8. If it is determined that another pond is needed, they will construct it. They can easily increase the length of the lagoon.

9. Their experience at Eagle Creek Hatchery has shown that they don't have to remove settled solids yet, that the solids become decomposed in the pond itself. (They have removed sludge from that pond yet, but someone drained the whole pond here last month.)