CENWP-OD-D 3/23/17

## **MEMORANDUM FOR THE RECORD – 17TDA13 Avian Line Install Postpone**

## **SUBJECT: Postponement of avian line install**

Plans were in place to install three failed (of 13) avian lines over the spillway on April 4. A contract with USDA would involve 12 crew members entering the boat restricted zone to attach the lines from the WA shore to the island. This would require the spillway closed with lock out safety clearance. The work area is indicated below.

With the present forecasted high flow (350kcfs) and 8 powerhouse turbine units out of service reducing the powerhouse flow capacity, the spillway cannot be closed.



USDA hazing starts April 15. Hazers normally work downstream of the bridge by boat, outside the BRZ. This year efforts will be made to access the island under the bridge to better haze the area of the missing avian lines. After juvenile passage spill is over on Aug 30, efforts will be made to install the failed lines in September in order to complete the work within the FY17 budget cycle.



## Analysis of potential impacts to fish

**Upstream Migrants** - No impact. Avian lines are only for juvenile passage protection. **Downstream migrants** – Unknown. Avian lines are generally effective early in season when gulls are uncertain of line location. Gulls tend to learn as season progresses, thus making lines less effective. However the overall effectiveness of avian lines has not been quantitatively evaluated.

**Lamprey** – No impact to adults. Unknown as to how avian lines protect ammeocetes.

Bull Trout – Unknown. Predation on juvenile bull trout in this area is expected highly unlikely.

Sincerely,

Bob Cordie

Project Fisheries