

Survey of Ives Island Area

January 16, 2003

Purpose:

- To evaluate the location of chum redd locations in the Ives Island Area during a 11.0-foot tailwater at the Bonneville Dam (BON).
- Agency biologists conducted a qualitative survey to assess the number of chum redds dewatered during a 11.0-foot BON tailwater.

Attendees:

- Washington Department of Fish and Wildlife
- Oregon Department of Fish and Wildlife
- NOAA-Fisheries
- Bonneville Power Administration

Survey of Ives Island Area

January 16, 2003

Methods:

- Onsite observations were made from 10:00 AM to 12:00 PM
- WDFW and ODFW field biologists staff located chum redds
- The extent of dewatering and number of redds was then estimated

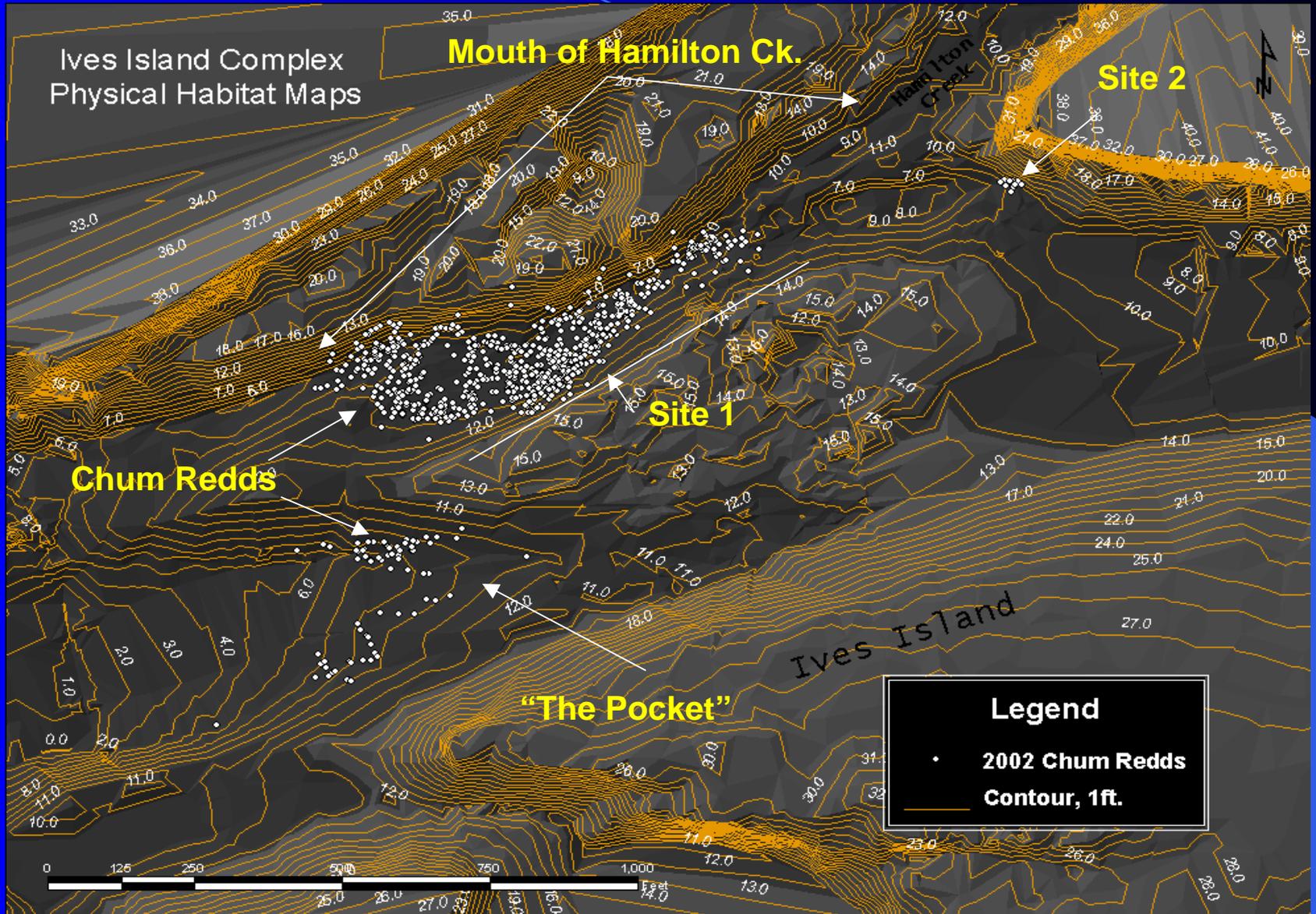
Survey Conditions:

- Overcast and windy
- 11.0 to 11.1-foot BON tailwater according to the Tanner Ck. gauge (www.nwd-wc.usace.army.mil/cgi-bin/DataQuery)
- Hamilton Ck. Gauge elevation of 18.49 to 18.52'. (No flow estimate currently available.)

Eastward View of Ives Island and Hamilton Ck



USFWS Map of Chum Redd Locations



Results of Survey

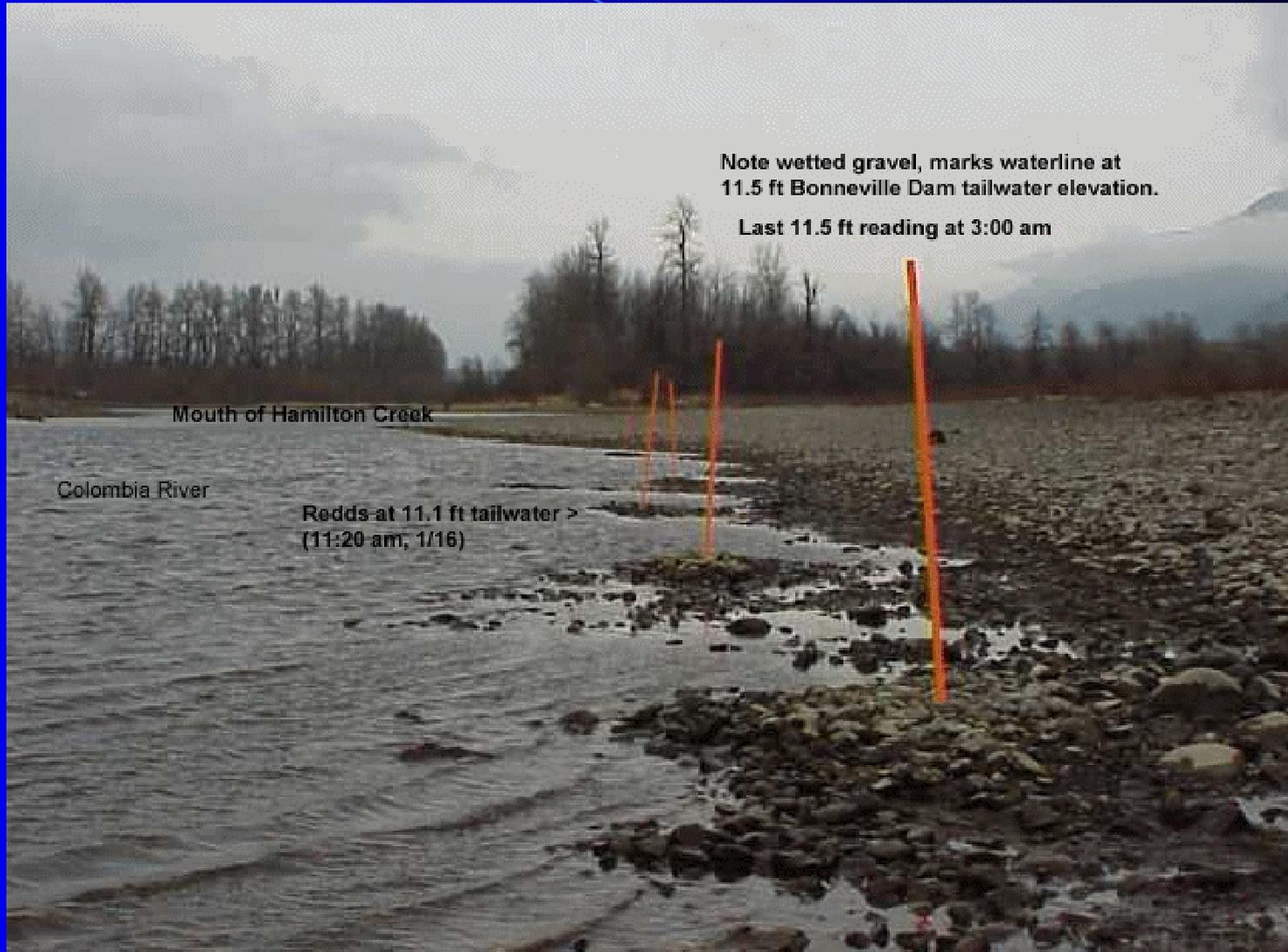
Location of Chum Redds:

- Approximately 90% are located at mouth of Hamilton Ck. (Site 1)
- About 10% of the redds are located in “The Pocket”.
- About 6 redds are located at Site 2
- There are no chum redds located near Gauge 1

Conclusion:

- Field staff estimated that approximately 1 to 2% of the redds in the Ives Island Area would likely be dewatered at a 11.0-foot BON tailwater.
- One redd was partially dewatered at McCord Ck. (OR) across the river from Ives Island.

Mouth of Hamilton, Upstream View of Site 1



Partially Dewatered Chum Redd, North End of "The Pocket"



Partially Dewatered Chum Redd at Site 2



Southeast View of Gage 1, from Mainstem 11.1-foot tailwater

