

**MEMORANDUM FOR THE RECORD: 23 LWG 04 Barge Loading Boom Removed from Service****SUBJECT: Barge Loading Boom removed from service due to a failed hydraulic system.**

LWG barge loading boom was removed from service on 15 June due to failure of the hydraulic system. The hydraulic system was no longer able to build the pressure needed to raise the boom clear from the barge hold. The maintenance staff was able to manually raise the boom and return it to its resting position. It was deemed unsafe to continue to operate it manually due to no braking system available to keep the boom from dropping uncontrollably. Moisture within the system was determined to be the cause of the issues. Moisture caused the ELA hydraulic oil to break down creating a sticky “buttery” substance that caused the pump to lose the ability to build the proper pressure required to operate the lifting winch. It is estimated that it will take several weeks to replace the hydraulic oil, clean the system, and install corrective equipment to prevent moisture from entering the system in the future.

LWG juvenile fish facility will be set to secondary bypass at 0700 hours on 16 June. Fish currently in raceways will be bypassed to the river. The final two barge trips scheduled, will not load fish at LWG but will continue as planned with transport from Little Goose and Lower Monumental Dam fish facilities.

- A. Species – N/A
- B. Origin – N/A
- C. Length – N/A
- D. Marks and tags – N/A
- E. Marks and Injuries found on carcass – N/A
- F. Cause and Time of Death – N/A
- G. Future and Preventative Measures – A desiccant system will be installed to the system to prevent future moisture related issues.

Sincerely,

David Miller  
Supervisory Fisheries Biologist  
Lower Granite Project and Dworshak Dam  
Walla Walla District  
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Date	Yearling Chinook		Subyearling Chinook		Steelhead		Sockeye/Kokanee		Coho	Daily
	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped		Total
9-Jun	30	0	1,770	1,270	126	141	0	0	90	3,427
10-Jun	30	60	2,520	1,600	210	140	0	0	80	4,640
11-Jun	0	40	1,600	1,100	200	80	0	0	80	3,100
12-Jun	0	0	760	520	60	80	0	0	0	1,420
13-Jun	0	0	580	470	100	110	0	0	10	1,270
14-Jun	0	10	600	590	70	40	0	0	80	1,390
15-Jun	0	30	650	560	40	10	0	0	80	1,370

Figure 1: LWG juvenile collection from June 9, 2023 to June 15, 2023.