

**OFFICIAL COORDINATION REQUEST FOR  
NON-ROUTINE OPERATIONS AND MAINTENANCE**

**COORDINATION TITLE:** 20 LMN 08 MOC-Floating Guide Wall Cable Emergency Repair

**COORDINATION DATE:** 8/11/20

**PROJECT:** Lower Monumental Dam

**RESPONSE DATE:** 8/13/20

**1. Description of the problem** – Tow Boat Operators noted a slight shift of the floating guide wall towards the spillway at the end of June. At that time, all navigators were instructed to avoid any contact with the floating guide wall. Inspection of the guide wall revealed concerns over a cable replaced in early 2017. Guide wall cables were inspected by ROV in early July but did not reveal a clear picture of what had occurred. A contract to temporarily repair the guide wall was awarded on 28 July, divers discovered that the primary cable between the anchor block and an intermediate connection had failed. The decision was made by the team to replace the broken cable as soon as possible to minimize potential additional damage and impacts to navigation. In order to attach the new cable to the anchor block the sediment around the anchor block needs to be removed.

This work would include clamshell or hydraulic dredging of approximately 1,600 cubic yards of accumulated silt from around the anchor block in the forebay, in approximately 80 to 100-foot depth of water. Dredge material would be placed in an upland disposal site. Turbidity will be monitored within the dredging limits.

**2. Type of outage required** – No specific outage required.

**3. Impact on facility operation** – none

**4. Impact on unit priority** – none

**5. Impact on spill** – none

**6. Dates of impacts/repairs** – Work is expected to be completed by the end of September. In-water work would be approximately 1 to 2 weeks.

**7. Analysis of potential impacts to fish**

This repair is not expected to impact fish operations or cause any deviations from the criteria found in the Fish Passage Plan (FPP). Spill and unit priority are expected to remain in compliance with the FPP.

**a. 10-year average passage of adults and juveniles of each affected listed species during dates of impact.**

The 10-year average of adults passing Lower Monumental during this time frame (August 11-September 30) is 31,713 Chinook salmon, 63,463 steelhead and 2,131 coho salmon.

Very few juvenile fish are historically out-migrating during this period. In 2019, the smolt index indicates 2,150 subyearling Chinook salmon smolts and 9 steelhead smolts total from August 11-September 30.

**b. Statement about the current year's run (e.g., higher or lower than 10-year average).**

Current steelhead and Chinook salmon runs are well below the 10-year average. Juvenile runs for 2020 are also much lower than the 10-year average.

**c. Estimated exposure to impact of adults and/or juveniles, as appropriate, by species (number or percentage of 10-year average that occurs during dates of impact).**

The proposed activities would not affect salmon passage through Lower Monumental Dam because no changes in FPP operations would be needed. Dredging would occur 80 to 100 feet below the water surface where fish are not expected to be migrating. Figure 1, located at the end of this form, shows the approximated location the dredging will take place. The dredging area is approximately 750 feet from the south fish ladder exit.

**d. Type of impact to adults and/or juveniles, as appropriate, by species (e.g., increased delay, exposure to predation, exposure to a route of higher injury/mortality rate, exposure to higher TDG, etc.).**

Salmon within the dredging area may be slightly disoriented by turbidity caused by the dredging activities. The contractor would adhere to a water quality monitoring plan to minimize turbidity and effects to ESA-listed fish. The on-site fish biologist would be contacted for fish salvage if a fish becomes distressed.

**e. Final judgment on scale of expected impacts (negligible, minor, significant) on:**

i. Downstream migrants. Negligible.

ii. Upstream migrants (including Bull Trout). Negligible.

iii. Lamprey. Negligible impact to adults. Ammocetes may be located within the forebay sediment and if there, would be moved with the sediment. However, the numbers are expected to be low because of the anoxic environment within the forebay and the relatively small area being dredged. No survey has been conducted to locate the presence or absence of ammocetes in the Lower Monumental Dam forebay.

**8. Comments from agencies**

**9. Final coordination results**

**Chuck Barnes  
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Lower Monumental Dam**



**Figure 1: Approximate Location of Dredging and south fish ladder exit location.**

