

USACE Portland District (NWP) FFDRWG Update Form
February 2015

Changes from last update are highlighted in Yellow

PROJECT INFORMATION

Project Title	TDA Spillwall Follow-on Repair
SCT Reference Number	
Project Manager (PM)	Jeff Ament (NWP, 503-808-4713)
Technical Lead (TL)	Dennis Petross (Small Projects Team)
Biologist/Coordination	

PROJECT DESCRIPTION

Construction on the Bay 8/9 spillwall at The Dalles was completed in 2010. Since then we have been spilling for fish during fish passage seasons and performing routine inspects in the non-spill seasons. We have been monitoring rock erosion via hydrosurveys, especially at the following areas:

- End of the wall where velocities increase, and rock was already eroding into the thalweg
- At the section where rock excavation occurred at the contact zone (between the curve and the DS tip of the wall). This area required grouting to stabilize the rock during initial construction of the wall.
- At the transition between the existing concrete apron and the rock

We also have performed a few dive surveys to inspect the condition of the wall concrete and the interface at the river bottom.

The PDT has determined that while there was some rock erosion at the end of the wall in the initial spill seasons, there was not enough to cause any threat to the spillwall, and this erosion appears to have subsided in the most recent spill seasons. The grouted up area at the contact zone has performed extremely well, with minimal erosion if any at all. The transition between the existing apron and the rock has experienced some erosion, mostly on the south side of the wall, but not enough to cause any concern.

The dive surveys of the wall revealed only two small erosion holes. These are both located on the north side of the wall, within the stilling basin and are caused by poor initial concrete placement. The contractor had concrete placement issues in this area, some of the first tremie

concrete placements of the wall construction. NWP worked with the contractor at the time to repair all that were noted by divers, and there were many repairs made. This area likely appeared fine during these initial inspections, but the concrete didn't have the strength to hold up to the erosive effects of the spilling water. Both of these erosion "holes", could be best described as slivers, (2.5" tall, 14" long and 7" deep, and 4" tall, 8" long and 9.5" deep).

CURRENT SCHEDULE

NWP determined that while these erosion holes are minor, it would be best to make repairs now before spill continued to cause erosion to these areas, worsening the problem. NWP's small projects team was called upon to develop a repair contract, with help from our original structural designers and dive shop. This contract was awarded to Konnowoc Construction in July and NTP has been given. The contract indicates that work is to be performed during the normal IWW period Dec 1, 2014 – Feb 28, 2015). It is anticipated that this will be a week's worth of work, and only taking that long because of cure time.

PROGRESS AND KEY ISSUES (List)

The first week of December 2014 the contractor mobilized on-site and proceeded with and completed this construction. Of note is that upon cleaning these two holes, prior to placing the form and filling with grout, the concrete between the two was also poor quality and the two holes became one. This area was filled with grout and the final dive inspection reveals good quality results.

The PDT is working on closing up this contract, and then closing this project.

FFDRWG REVIEW NEEDED AT MEETING? (If YES, list discussion topics below)

No special meeting is required.