

TDA Spillwall

Dive Survey

Scope of Work

August 11, 2010

Purpose: The purpose of this dive survey of the Spillwall is to document the condition of the 6/7 spillwall, the 8/9 spillwall and the undercut along the spillwall apron. The survey shall take place as soon as spill is stop for the 2010 spill season (week of September 6th or September 13th). The survey will be used by the Corps to develop any repair plans needed prior to the 2011 spill season. A Corps representative shall be present the whole time the dive survey is taking place.

Boundaries: See the attachment entitled Post-Spill Dive Survey Boundaries.

Scope: Diver shall perform a survey with the following conditions:

1. All portions of the dive shall be recorded with both audio and visual on DVD format. It is imperative that both audio and visual are of reasonable quality. The dive master shall be competent in the operation of the recoding equipment to ensure recording quality.
2. Divers and/or the dive master shall provide adequate narrative of conditions that are being observed. Additionally, it is imperative to provide accurate reference of diver position along the wall during the inspection. Details on how to perform this shall be submitted and approved by the Corps prior to splashing divers.
3. The recordings shall be made in sequential order going from either upstream or downstream along the wall. The DVD's shall be accurately marked and organized in a logical fashion. Inspection areas are broken down into the following major categories. Specific areas of concern are listed under each major category:
 - a. The entire length of the 8/9 wall (~830') and the leveling slab in which it sits on both the north and south sides.
 - i. Any obvious areas of distress
 - ii. Obvious repairs of the original wall construction

- iii. Any and all undermining of the wall at the wall/leveling slab interface
 - iv. Any surface that appears could be harmful to fish being transported by the flow
 - v. Any apparent distress of the leveling slab
 - 1. erosion
 - 2. missing portions
 - 3. abrupt elevation changes
- b. The entire length of the 6/7 wall (~230').
- i. Any obvious areas of distress
 - ii. Obvious repairs of the original wall construction
 - iii. Any surface that appears could be harmful to fish being transported by the flow
- c. The stilling basin on the north and south sides of the 6/7 wall and 8/9 wall.
- i. Any debris that is in the stilling basin that shouldn't be there.
 - 1. Construction debris, material, rocks, anything except water
 - ii. Pay special attention to the area behind the baffle blocks.
- d. The entire rock excavation area that has been infilled with concrete. This is located in and around segment 14 of the wall.
- i. Erosion holes
 - ii. Obvious missing portions of concrete fill
- e. The end of the apron on both sides of the 8/9 wall where it has been filled with concrete.
- i. Undermining of the apron and/or the concrete that has been placed there.
- f. Measure and video document the undercutting along the apron at 10 foot intervals starting at the north shore and moving south to the 8/9 wall.