



**US Army Corps
of Engineers**
Huntington District

Marmet Locks and Dam Replacement Project

August/September Issue No. 10

Construction Activities

by Kokosing Fru-Con

This newsletter is provided as a courtesy of the U. S. Army Corps of Engineers as a way to keep the citizens of Belle, W.Va. up-to-date on activities during construction of the replacement lock at Marmet locks and dam. The newsletter will provide information on current and future activities throughout the construction of the replacement lock to those who expressed an interest in receiving the newsletter from previous editions.

If you know someone who would like to receive future copies, complete the form on the back page.



This photo shows an aerial view of the downstream area of the construction site. The relocated channel for Burning Springs Creek is visible on the left, the contractor's temporary material delivery and offloading area is in the foreground and the embankment area for excavated materials is near the center of the photo.

Photo by Mark's Photography

Kokosing-Fru-Con workers have been busy this summer and the overall look of the Marmet Lock replacement construction site has changed dramatically over the past few months.

The sheetpile retaining wall is nearing completion with only a few anchors left to be installed on the upstream end of the wall. Construction of the wall began in May 2003 and crews have endured some very undesirable conditions to get to this point. The 45-foot high wall consists of over 2,500 linear feet of PZ-27 and PZ-35 steel sheetpile, over 700 tie-back anchors and approximately 4,500 linear feet of steel H-pile walers. The downstream end of the wall has a switch-back ramp configuration to allow access to the downstream end of the lock excavation.

This wall was not a part of the original design. As a result of a partnering effort between Kokosing-Fru-Con and the Corps of Engineers, the wall was added to the design as part of a value engineering proposal. This proposal provided several benefits to the project, including but not limited to:

- Reduced project costs;
- Eliminated slope stability concerns of the original contract slope design; and

- Reduced on-site excavation and embankment

Another part of the construction project is also nearing completion. The thrust blocks are one of many operations necessary for the overall completion of the downstream cofferdam. Thrust blocks act as internal anchor systems and consist of cast-in-place concrete blocks that are heavily reinforced with rebar and rock anchors installed through the blocks deep into existing rock below the river bed elevation

This insures the stability of the cofferdam against pressures imposed on cells during high water levels and the possibility of shifting layers of rock below cofferdam cells.

The number of folks attending the quarterly open houses continues to grow. The next open house will be Thursday, September 16, 2004.

(Article reprinted from LockLights, Kokosing/Fru-Con, LLC newsletter)

Who to contact for information:

Mike Keathley, Project Manager.....304-399-5864
Dennis Hughes, Resident Engineer.....304-949-1935
Cell phone.....304-360-0292
Peggy Noel, Public Affairs.....304-399-5551



This photo shows the first of the new lock wall monoliths. These monoliths are designated L-7 through L-9 and will serve as part of the downstream approach wall to the new lock. The lower sheetpiling portion of the structure will be below water when the new lock is watered up and opened to traffic.

Photo by Mark's Photography

Visit our new Marmet Lock Replacement Project website to keep up-to-date on current construction activities.

<http://www.lrh.usace.army.mil/projects/current/Marmet/>

If you know someone who would like to receive future copies of the Marmet Newsletter, complete the form below and return to Mike Keathley, US Army Corps of Engineers, 502 8th Street, Huntington, WV 25701-2070 or send us an email requesting to be added to the mailing list.

•

Yes, I would like to receive the Marmet Lock Replacement Project Newsletter.

Remove my name from your mailing list

Name _____

Address _____

City _____ State: _____

ZIP _____

Community Relations

- There's a new face at the Marmet Construction Resident Engineer's Office. Major Matthew Orenstein has temporarily taken over the position as community liaison ombudsman for the Marmet Lock Replacement. Plans are for Maj. Orenstein to be with the Marmet Office for about a year. So stop by and meet Maj. Orenstein and let him know of any concerns you might have related to the Marmet project.
- The contractor for the Marmet Lock Replacement Project, Kokosing-Fru-Con, has begun placing concrete for the new lock chambers. The contractor had been placing concrete for the downstream guidewall. So you should now see the actual lock chamber beginning to take shape.



This photo shows the rock excavation down to the floor of the new lock chamber. Note that the excavation is approximately 10 feet below the base of the cofferdam in the background of the photo.

Photo by Mark's Photography