



February 3, 2017

To: Columbia Association Board of Directors
Milton W. Matthews, President/CEO

From: Dennis Matthey, Director of Open Space & Facilities Services
John McCoy, Watershed Management & Improvements

cc: Susan Krabbe, Vice President & CFO

Subject: Use of FY 15 Watershed Improvement Projects Capital Funds to Supplement Funds Approved for FY 13 Watershed Improvement Project RZ4

Background

The purpose of this memo is to request CA Board of Directors approval to move \$24,304 in unused FY 15 Watershed Improvements funding to FY 13 capital project RZ4 for work associated with repairs to the forebay at Jackson Pond.

Capital project RZ4 provides funding to repair an in-stream flow control structure left in place after an EPA and State of Maryland study of sediment control practices during the construction of the Village of Long Reach. The cover of the report, abstract and a picture of the structure from 1972 are included as Attachment 1.

The repair is necessary because downstream erosion threatens to undercut the structure and a failure of the structure would release all of the sediment stored behind it into Jackson Pond. Design and engineering for the project was more expensive than budgeted requiring an extensive topography survey of the stream and the examination of options for the repair. Removing the weir and the sediment behind the weir was explored but determined not to be feasible. This project required State and Federal permits, adding to the engineering costs. The low bid for the repair project is \$82,431. Staff recommends including a 10%

construction contingency in the cost of work (\$8,243), bringing the total required project funding to \$90,674 which exceeds the remaining available balance in RZ4 (\$66,370) by \$24,304.

The Board-approved FY15 Watershed Improvement Projects included seven capital projects. Funds were designated for: a bioretention facility for the Dog Park Parking Lot; design, engineering and permitting to enhance the sand filter at the Maintenance Facility; a bioretention facility at the end of Linden Linthicum in River Hill; a step-pool conveyance to convey runoff along the path behind Phantom Court in Harper's Choice; phase 1 for the stream bank stabilization between Little Patuxent Parkway and Lake Kittamaquandi; a bioretention facility below Long Look Lane in Oakland Mills; and, bank stabilization below New Leaf Court in Oakland Mills.

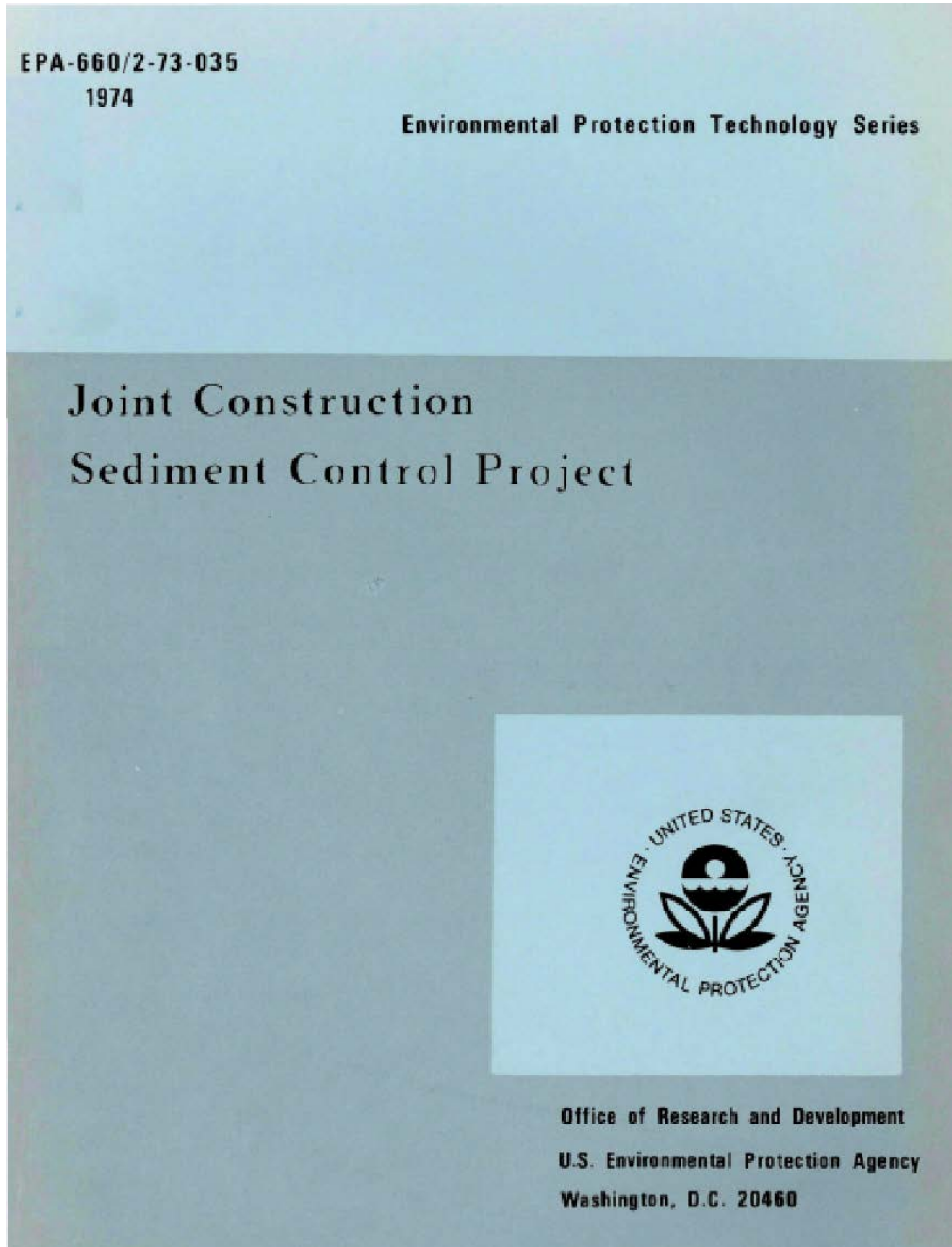
The Dog Park bioretention facility and the work on the Phantom Court projects have been completed. The Long Look project is going to construction and the New Leaf project is awaiting permits. The sand filter project at the Maintenance Facility is still in engineering. The bioretention facility at the end of Linden Linthicum and the stream bank stabilization project between Little Patuxent Parkway and Lake Kittamaquandi are on hold. The flooding issue at the end of Linden Linthicum was solved during a routine pathway repair, and CA staff and Village staff have not agreed on a replacement project to be submitted for CA Board approval. The stream bank repair project is on hold while the State Highway Administration looks at the same stream reach as a possible state project.

The total budget allocation for FY 15 Watershed Improvement Projects is \$440,000, of which \$212,330 remains. To date, the completed projects have come in at budgeted cost or below. Staff was able to complete the Dog Park bioretention facility project for 50% of the budgeted cost of \$80,000 by keeping design and engineering costs low, keeping the size of the project under the threshold for County permits and building the project in house.

Recommendation

Staff requests that the CA Board of Directors approve use of \$24,304 in FY 15 Watershed Improvement Projects funds to complete Capital Project RZ4.

Attachment 1 Joint Construction Sediment Control Project Report Cover, Abstract and picture of the weir above the forebay at Jackson Pond.



ABSTRACT

During the period of this demonstration, a natural and agricultural region is being converted to an urban community. This project consists of (1) the implementation, demonstration, and evaluation of erosion control practices; (2) the construction, operation, and demonstration of the use of a stormwater retention pond for the control of stormwater pollution; and (3) the construction, operation, and maintenance of methods for handling, drying, conditioning, and disposing of sediment. In addition, a gaging and sampling program was conducted as part of this project to determine the effects of urbanization on the hydrology and water quality of natural areas. This project was conducted in the Village of Long Reach, Columbia, Maryland.

This report was submitted in fulfillment of Grant No. 15030 FMZ by the Water Resources Administration, State of Maryland, under the partial sponsorship of the Environmental Protection Agency. Work was completed as of June 1973.



Figure 6. Gaging Station Above Pond