

Stormwater Management

LOB #369:

FLOOD PREVENTION-HUNTINGTON AREA BOND PROJECTS

Purpose

This is a bond-funded project that was approved by the voters in the fall 2012 to support storm drainage improvements and prevent flooding and soil erosion in the Huntington community. During the past 10 years, three floods have damaged homes, vehicles and other property in the Huntington neighborhood. In June 2006, 160 homes were flooded while 161 homes were damaged in 2011 during Tropical Storm Lee. Today, there are 180 homes in the FEMA-designated floodplain that are at risk. At Fairfax County's request, the U.S. Army Corps of Engineers studied the best ways to protect Huntington from future floods. The study found that building a levee and a pumping station is the most cost-effective way to reduce flooding in the neighborhood. Funds from the fall 2012 Bond Referendum are planned to pay to complete the design, build a 2,865-footlong levee and a pumping station, and buy any land needed for this purpose.

Description

This project includes the design and construction of a 2,865-footlong levee and a pumping station, including the purchase of any land needed for the project. Once completed, the levee and pump station will be maintained by DPWES. The project is still in the design stage and is expected to begin construction in early 2017. The annual maintenance costs, which will include routine mowing and inspection of the berm and immediate surrounding area, maintenance of the flow channel behind the berm, operation and maintenance of the pump station and engineering inspections necessary to maintain certification of the berm, will be included in stormwater operating budgets beginning in 2019. Operating and maintenance costs are difficult to predict at this early stage of the project.

Benefits

This project will provide protection to the 180 homes that are currently located in the 100 year flood plain from flood waters in Cameron Run.

Mandates

This Line of Business is not mandated.

Trends and Challenges

Homes in this neighborhood have flooded multiple times in the last 10 years. With changing weather patterns, it is anticipated that flooding events will become more frequent unless the flood protection project is constructed.

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Resources

Category	FY 2014 Actual	FY 2015 Actual	FY 2016 Adopted
LOB #369: Flood Prevention-Huntington Area Bond Projects			
FUNDING			
<u>Expenditures:</u>			
Capital Projects	\$992,347	\$2,477,555	\$0
Total Expenditures	\$992,347	\$2,477,555	\$0
Total Revenue	\$0	\$2,000,000	\$0
POSITIONS			
Authorized Positions/Full-Time Equivalents (FTEs)			
<u>Positions:</u>			
Regular	0/0	0/0	0/0
Total Positions	0/0	0/0	0/0

Metrics

Metric Indicator	FY 2013 Actual	FY 2014 Actual	FY 2015 Actual	FY 2016 Estimate	FY 2017 Estimate
Cost per house protected	\$166,000	Not applicable	Not applicable	Not applicable	Not applicable

This is a capital project within Stormwater Management funds that is intended to protect a neighborhood from flooding. The flooding occurs during significant rain events and does not occur on an annual basis or at any predictable frequency. The metric is a one-time cost and is shown in the year that the bonds were approved.