

Planning, Development & Building Committee

September 18, 2017

Presenters

Jason Carraher, PE

Rebecca Brown, CBO, CFM

Committee Members

Mr. David Chinnis, Chairman

Mr. Willie Davis

Mr. Larry Hargett

Outline

- History of Eagle Creek USACOE Project
- Project Description
- Flood Map Overview
- Impacts from 2015 Flood, Hurricane Matthew, and Hurricane Irma
- Mitigation Efforts
 - Annual Maintenance
 - Public Education and Outreach
 - Section 205- Flood Damage Reduction Projects
 - Stormwater Design Requirement Review
 - Land Preservation
 - HMGP Land Acquisition Application

History

■ Dorchester County Council Chairman Request Assistance on August 29, 1973

“During the heavy rains that we experienced in June of this year, thousands of dollars of damage was done to homes along Eagle Creek by the flooding conditions that occurred as a result of these record rainfalls”

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OFFICE OF
COUNTY COUNCIL OF DORCHESTER COUNTY
P. O. BOX 416
ST. GEORGE, S. C. 29477
August 29, 1973

LUCILLE P. KIZER
EXECUTIVE SECRETARY
PATRICIA REEVELE
SECRETARY

COUNCIL
KERMIT KIZER, CHAIRMAN
WILLIAM S. GRANTON, JR.
WALKER B. BROWNING
ROBERT H. BUNCH, JR.
I. DON CARADAY
DONALD W. PATRICK
W. C. WEATHERS

Col. Robert C. Nelson
District Engineer, U. S. Army
Box 919
Charleston, S. C. 29402

RE: Chandler Bridge Creek &
Eagle Creek Flood Control

Dear Colonel Nelson:

In reference to the above we wish to make application for a small flood control project under the authority of Section 205 of the 1948 Flood Control Act as Amended.

We understand local assurances and are willing to comply provided there is a feasible solution to the problem.

During the heavy rains that we experienced in June of this year, thousands of dollars of damage was done to homes along Eagle Creek by the flooding conditions that occurred as a result of these record rainfalls. We have pictures and actual damage figures that we will be happy to submit to substantiate our need for your assistance.

Thanking you in advance, I remain

Very truly yours,

Kermit Kizer
Kermit Kizer
Chairman
Dorchester County Council

History

- Local Cooperation Agreement between the USACE and Dorchester County executed on December 27, 1982
- Construction began on September 28, 1983
- Construction Completed on August 14, 1985.

Project Description

- Approximately 4 miles in length
- 60' wide channel from Dorchester Rd to near the intersection of Adams Ave and Harrison Rd
- 40' wide channel to the confluence with Chandler Creek
- 25' wide channel to Miles Jamison Rd

Project Description

Project limits from
Dorchester Rd to the
confluence with
Eagle Creek










Project Description

Project limits
from the
confluence
with Eagle
Creek to
Miles
Jamison



Flood Maps








Flood Hazard Zones

-  1% Annual Chance Flood Hazard
-  Regulatory Floodway
-  Special Floodway
-  Area of Undetermined Flood Hazard
-  0.2% Annual Chance Flood Hazard
-  Future Conditions 1% Annual Chance Flood Hazard
-  Area with Reduced Risk Due to Levee



Flood Maps

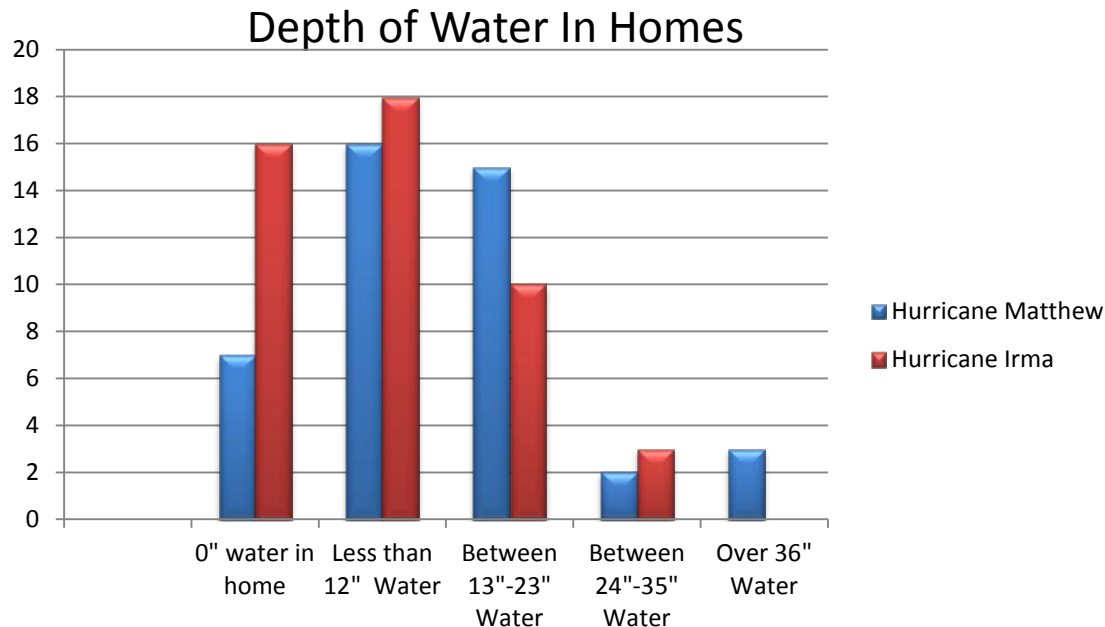
Flood Hazard Zones

-  1% Annual Chance Flood Hazard
-  Regulatory Floodway
-  Special Floodway
-  Area of Undetermined Flood Hazard
-  0.2% Annual Chance Flood Hazard
-  Future Conditions 1% Annual Chance Flood Hazard
-  Area with Reduced Risk Due to Levee



Impacts

- 2015 Flood- 88 properties
- Hurricane Matthew- 44 properties
- Hurricane Irma- 47 properties



Annual Maintenance

- USACE performs an annual inspection to ensure compliance with the original design

Public Education & Outreach

- Community meeting scheduled for late October

Section 205- Flood Damage Reduction Project

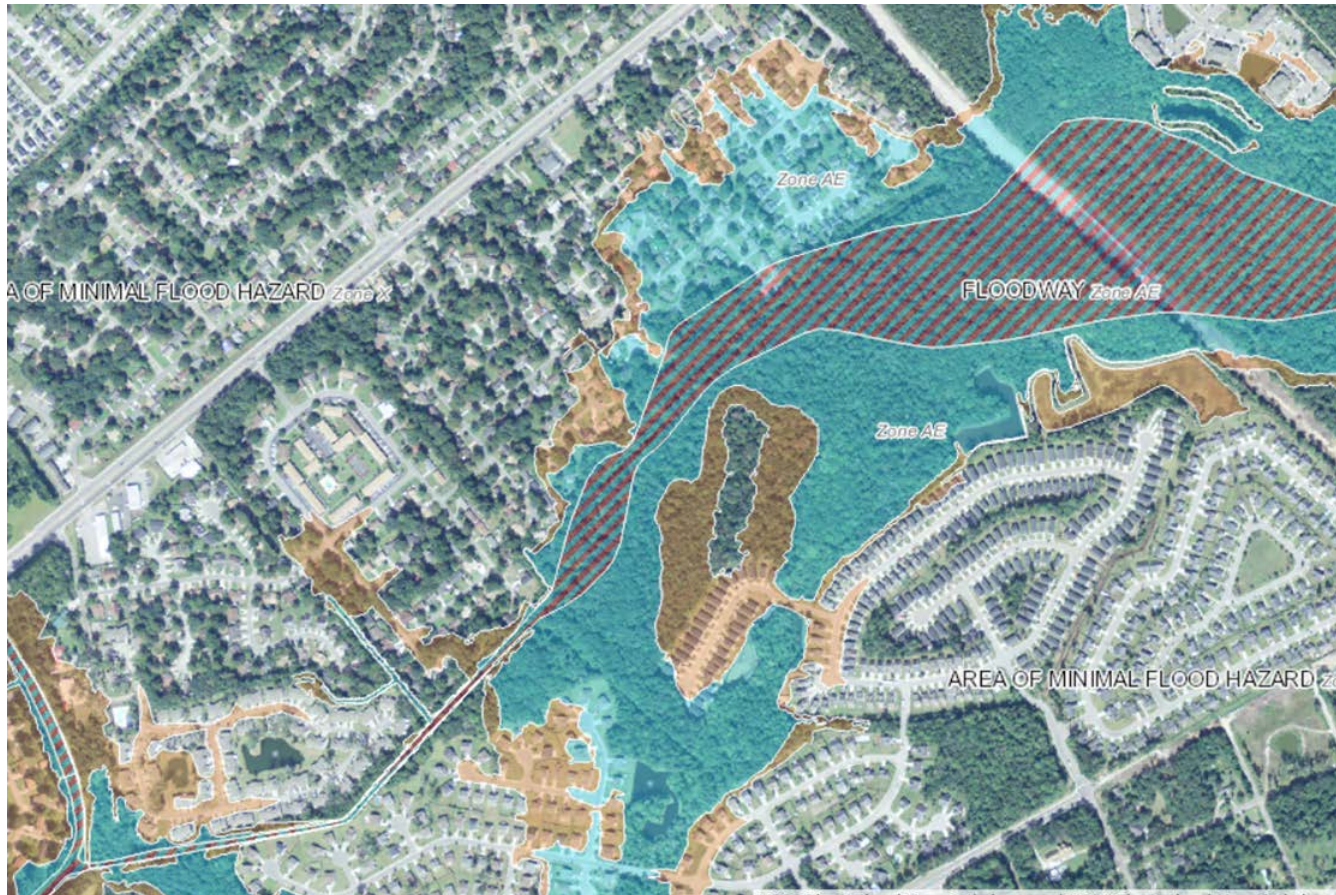
- **Section 205** of the 1948 Flood Control Act authorizes the Corps of Engineers to study, design, and construct small flood control projects in partnership with non-Federal government agencies, such as cities, counties, special authorities, or units of state government.
- The feasibility study is 100 percent federally funded up to \$100,000. Costs over the \$100,000 are shared 50/50 with the non-federal sponsor.
- Final design (plans and specifications) and construction costs are 65 percent Federal / 35 percent non-Federal.

Stormwater Design Requirement Review

- Status meeting scheduled for late October

Land Preservation

- Dorchester County owns approximately 50 acres within the Eagle Creek Watershed



HMGP Land Acquisition Application

- Hazard Mitigation Grant Program
 - Only available after Presidential declared disaster
 - Funded by Federal General Treasury
 - Substantially damaged properties eligible (50% or more of value to home damaged due to flooding)
 - 15 Properties identified in November 2016
 - 5 Owners completed necessary documents to proceed
 - IF awarded structures to be demolished and turned into greenspace; Awards may take up to 12 months to be announced

QUESTIONS?