

FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 1 OF 2



HENRY COUNTY, GEORGIA

AND INCORPORATED AREAS

COMMUNITY NAME	COMMUNITY NUMBER
CITY OF HAMPTON	130107
HENRY COUNTY (UNINCORPORATED AREAS)	130468
CITY OF LOCUST GROVE	130032
CITY OF MCDONOUGH	130342
CITY OF STOCKBRIDGE	130108



FEMA

MAP REVISED:

October 6, 2016

FLOOD INSURANCE STUDY NUMBER
13151CV001B

Version Number 2.3.2.1

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Exhibits

Flood Profiles	<u>Panel</u>
Big Cotton Indian Creek	01-16 P
Brush Creek	17-20 P
Camp Creek (County Line)	21-23 P
James Creek	24-26 P
Line Creek	27-28 P
Little Cotton Indian Creek	29-35 P
Panther Creek	36 P
Pates Creek	37-41 P
Reeves Creek	42-46 P
Reeves Creek Tributary 9	47 P
Rum Creek	48-51 P
South River	52-58 P
Walnut Creek	59-65 P

Published Separately

Flood Insurance Rate Map (FIRM)

FLOOD INSURANCE STUDY REPORT HENRY COUNTY, GEORGIA AND INCORPORATED AREAS

SECTION 1.0 – INTRODUCTION

1.1 The National Flood Insurance Program

The National Flood Insurance Program (NFIP) is a voluntary Federal program that enables property owners in participating communities to purchase insurance protection against losses from flooding. This insurance is designed to provide an insurance alternative to disaster assistance to meet the escalating costs of repairing damage to buildings and their contents caused by floods.

For decades, the national response to flood disasters was generally limited to constructing flood-control works such as dams, levees, sea-walls, and the like, and providing disaster relief to flood victims. This approach did not reduce losses nor did it discourage unwise development. In some instances, it may have actually encouraged additional development. To compound the problem, the public generally could not buy flood coverage from insurance companies, and building techniques to reduce flood damage were often overlooked.

In the face of mounting flood losses and escalating costs of disaster relief to the general taxpayers, the U.S. Congress created the NFIP. The intent was to reduce future flood damage through community floodplain management ordinances, and provide protection for property owners against potential losses through an insurance mechanism that requires a premium to be paid for the protection.

The U.S. Congress established the NFIP on August 1, 1968, with the passage of the National Flood Insurance Act of 1968. The NFIP was broadened and modified with the passage of the Flood Disaster Protection Act of 1973 and other legislative measures. It was further modified by the National Flood Insurance Reform Act of 1994 and the Flood Insurance Reform Act of 2004. The NFIP is administered by the Federal Emergency Management Agency (FEMA), which is a component of the Department of Homeland Security (DHS).

Participation in the NFIP is based on an agreement between local communities and the Federal Government. If a community adopts and enforces floodplain management regulations to reduce future flood risks to new construction and substantially improved structures in Special Flood Hazard Areas (SFHAs), the Federal Government will make flood insurance available within the community as a financial protection against flood losses. The community's floodplain management regulations must meet or exceed criteria established in accordance with Title 44 Code of Federal Regulations (CFR) Part 60.3, *Criteria for land Management and Use*.

SFHAs are delineated on the community's Flood Insurance Rate Maps (FIRMs). Under the NFIP, buildings that were built before the flood hazard was identified on the community's FIRMs are generally referred to as "Pre-FIRM" buildings. When the NFIP was created, the U.S. Congress recognized that insurance for Pre-FIRM buildings would be prohibitively expensive if the premiums were not subsidized by the Federal Government. Congress also recognized that most of these floodprone buildings were built by individuals who did not have sufficient knowledge of the flood hazard to make informed decisions. The NFIP requires that full actuarial rates reflecting the complete flood risk be charged on all buildings constructed or substantially improved on or after the effective date of the initial FIRM for the community or after December 31, 1974, whichever is later. These buildings are generally referred to as "Post-FIRM" buildings.

1.2 Purpose of this Flood Insurance Study Report

This Flood Insurance Study (FIS) report revises and updates information on the existence and severity of flood hazards for the study area. The studies described in this report developed flood hazard data that will be used to establish actuarial flood insurance rates and to assist communities in efforts to implement sound floodplain management.

In some states or communities, floodplain management criteria or regulations may exist that are more restrictive than the minimum Federal requirements. Contact your State NFIP Coordinator to ensure that any higher State standards are included in the community's regulations.

1.3 Jurisdictions Included in the Flood Insurance Study Project

This FIS Report covers the entire geographic area of Henry County, Georgia and Incorporated Areas.

The jurisdictions that are included in this project area, along with the Community Identification Number (CID) for each community and the 8-digit Hydrologic Unit Codes (HUC-8) sub-basins affecting each, are shown in Table 1. The Flood Insurance Rate Map (FIRM) panel numbers that affect each community are listed. If the flood hazard data for the community is not included in this FIS Report, the location of that data is identified.

Table 1: Listing of NFIP Jurisdictions

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
City of Hampton	130107	03070103, 03130005	13151C0143D, 13151C0144D, 13151C0231D, 13151C0232D	
Henry County (Unincorporated Areas)	130468	03070103, 03130005	13151C0020D, 13151C0040D, 13151C0045D, 13151C0060D, 13151C0066D, 13151C0067D, 13151C0068D, 13151C0069D, 13151C0080D, 13151C0085D, 13151C0086D, 13151C0087D, 13151C0088D, 13151C0089D, 13151C0093D, 13151C0095D, 13151C0105D, 13151C0115D, 13151C0120D, 13151C0135D, 13151C0140D, 13151C0143D, 13151C0144D, 13151C0145D, 13151C0151D, 13151C0152D, 13151C0155D, 13151C0156D, 13151C0157D, 13151C0158D, 13151C0159D, 13151C0165D, 13151C0166D, 13151C0167D, 13151C0170D, 13151C0178D, 13151C0180D, 13151C0185D, 13151C0186D, 13151C0190D, 13151C0195D, 13151C0205D, 13151C0210D, 13151C0215D, 13151C0230D, 13151C0231D, 13151C0232D, 13151C0255D, 13151C0257D, 13151C0260D, 13151C0270D, 13151C0276D, 13151C0277D, 13151C0278D, 13151C0279D, 13151C0285D, 13151C0290D, 13151C0305D ¹	
City of Locust Grove	130032	03070103	13151C0170D, 13151C0190D, 13151C0257D, 13151C0260D, 13151C0276D, 13151C0277D, 13151C0278D, 13151C0279D, 13151C0285D, 13151C0290D	
City of McDonough	130342	03070103	13151C0156D, 13151C0157D, 13151C0158D, 13151C0159D, 13151C0165D, 13151C0166D, 13151C0167D, 13151C0170D, 13151C0178D, 13151C0186D	
City of Stockbridge	130108	03070103	13151C0066D, 13151C0067D, 13151C0069D, 13151C0080D, 13151C0086D, 13151C0087D, 13151C0088D, 13151C0089D, 13151C0093D, 13151C0151D, 13151C0152D, 13151C0156D	

¹Panel not printed

1.4 Considerations for using this Flood Insurance Study Report

The NFIP encourages State and local governments to implement sound floodplain management programs. To assist in this endeavor, each FIS Report provides floodplain data, which may include a combination of the following: 10-, 4-, 2-, 1-, and 0.2-percent annual chance flood elevations (the 1% annual chance flood elevation is also referred to as the Base Flood Elevation (BFE)); delineations of the 1% annual chance and 0.2% annual chance floodplains; and 1% annual chance floodway. This information is presented on the FIRM and/or in many components of the FIS Report, including Flood Profiles, Floodway Data tables, Summary of Non-Coastal Stillwater Elevations tables, and Coastal Transect Parameters tables (not all components may be provided for a specific FIS).

This section presents important considerations for using the information contained in this FIS Report and the FIRM, including changes in format and content. Figures 1, 2, and 3 present information that applies to using the FIRM with the FIS Report.

- Part or all of this FIS Report may be revised and republished at any time. In addition, part of this FIS Report may be revised by a Letter of Map Revision (LOMR), which does not involve republication or redistribution of the FIS Report. Refer to Section 6.5 of this FIS Report for information about the process to revise the FIS Report and/or FIRM.

It is, therefore, the responsibility of the user to consult with community officials by contacting the community repository to obtain the most current FIS Report components. Communities participating in the NFIP have established repositories of flood hazard data for floodplain management and flood insurance purposes. Community map repository addresses are provided in Table 31, "Map Repositories," within this FIS Report.

- New FIS Reports are frequently developed for multiple communities, such as entire counties. A countywide FIS Report incorporates previous FIS Reports for individual communities and the unincorporated area of the county (if not jurisdictional) into a single document and supersedes those documents for the purposes of the NFIP.

The initial Countywide FIS Report for Henry County became effective on May 16, 2006. Refer to Table 28 for information about subsequent revisions to the FIRMs.

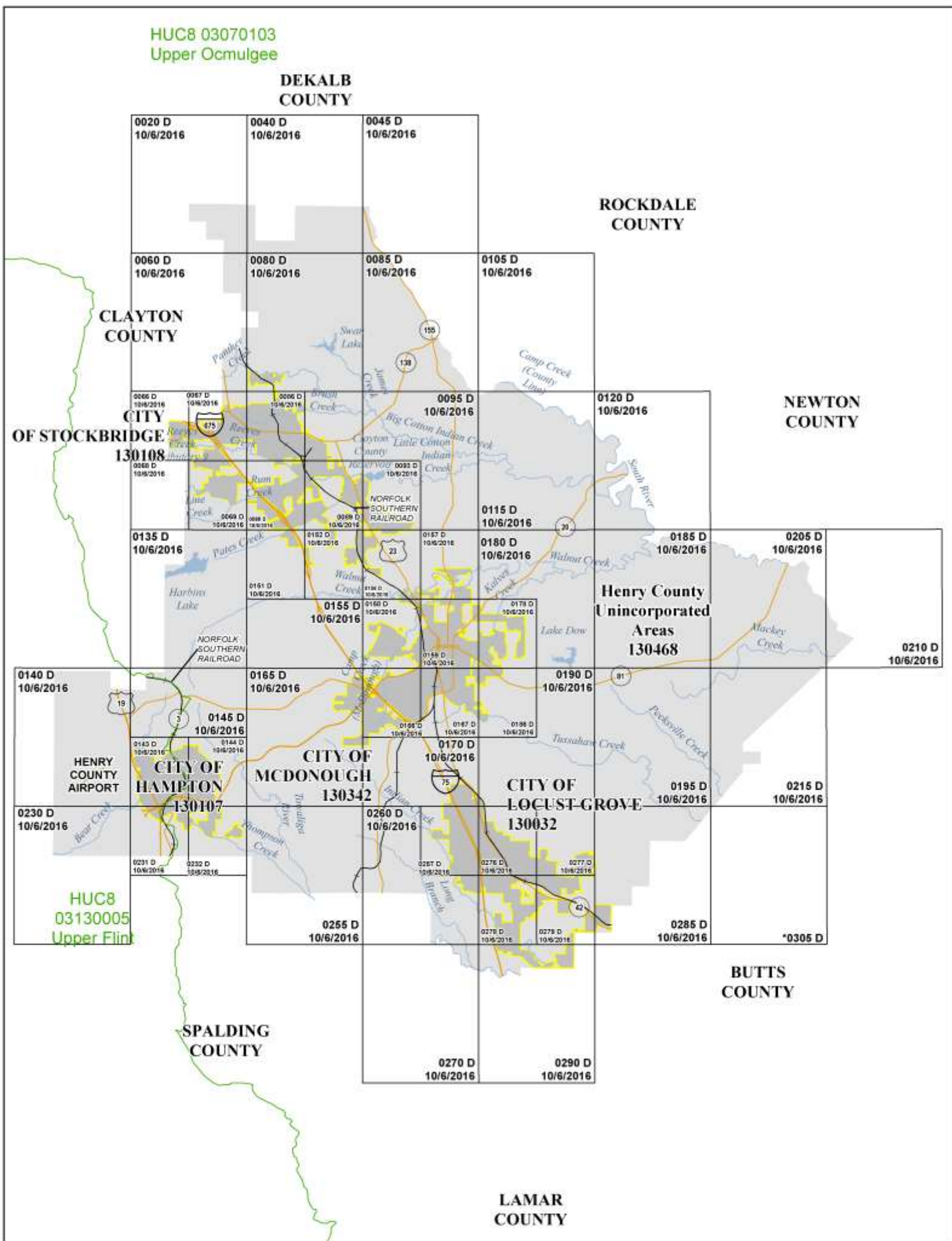
- FEMA does not impose floodplain management requirements or special insurance ratings based on Limit of Moderate Wave Action (LiMWA) delineations at this time. The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. If the LiMWA is shown on the FIRM, it is being provided by FEMA as information only. For communities that do adopt Zone VE building standards in the area defined by the LiMWA, additional Community Rating System (CRS) credits are available. Refer to Section 2.5.4 for additional information about the LiMWA.

The CRS is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements. Visit the FEMA Web site at <http://www.fema.gov> or contact your appropriate FEMA Regional Office for more information about this program.

- FEMA has developed a *Guide to Flood Maps* (FEMA 258) and online tutorials to assist users in accessing the information contained on the FIRM. These include how to read panels and step-by-step instructions to obtain specific information. To obtain this guide and other assistance in using the FIRM, visit the FEMA Web site at <http://www.fema.gov>.

The FIRM Index in Figure 1 shows the overall FIRM panel layout within Henry County, and also displays the panel number and effective date for each FIRM panel in the county. Other information shown on the FIRM Index includes community boundaries, flooding sources, watershed boundaries, and United States Geological Survey (USGS) Hydrologic Unit Code- 8 (HUC-8) codes.

Figure 1: FIRM Panel Index



1 inch = 3 miles

Map Projection:
 GA State Plane Zone 1002,
 North American Datum 1983;
 North American Vertical Datum of 1988

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT
[HTTP://MSC.FEMA.GOV](http://MSC.FEMA.GOV)

SEE FIS REPORT FOR ADDITIONAL INFORMATION

* PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS



NATIONAL FLOOD INSURANCE PROGRAM
 FLOOD INSURANCE RATE MAP INDEX
 HENRY COUNTY, GEORGIA AND INCORPORATED AREAS

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEMA

PANELS PRINTED:
 0020, 0040, 0045, 0060, 0066, 0067, 0068, 0069, 0080, 0085, 0086, 0087, 0088, 0089, 0093, 0095, 0105, 0115, 0120, 0135, 0140, 0143, 0144, 0145, 0151, 0152, 0155, 0156, 0157, 0158, 0159, 0165, 0166, 0167, 0170, 0178, 0180, 0185, 0186, 0190, 0195, 0205, 0210, 0215, 0230, 0231, 0232, 0255, 0257, 0260, 0270, 0276, 0277, 0278, 0279, 0285, 0290

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Each FIRM panel may contain specific notes to the user that provide additional information regarding the flood hazard data shown on that map. However, the FIRM panel does not contain enough space to show all the notes that may be relevant in helping to better understand the information on the panel. Figure 2 contains the full list of these notes.

Figure 2: FIRM Notes to Users

NOTES TO USERS

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products, or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Map Service Center website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website. Users may determine the current map date for each FIRM panel by visiting the FEMA Map Service Center website or by calling the FEMA Map Information eXchange.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Map Service Center at the number listed above.

For community and countywide map dates, refer to Table 28 in this FIS Report.

To determine if flood insurance is available in the community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

The map is for use in administering the NFIP. It may not identify all areas subject to flooding, particularly from local drainage sources of small size. Consult the community map repository to find updated or additional flood hazard information.

BASE FLOOD ELEVATIONS: For more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables within this FIS Report. Use the flood elevation data within the FIS Report in conjunction with the FIRM for construction and/or floodplain management.

FLOODWAY INFORMATION: Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the FIS Report for this jurisdiction.

Figure 2. FIRM Notes to Users (continued)

FLOOD CONTROL STRUCTURE INFORMATION: Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 4.3 "Non-Levee Flood Protection Measures" of this FIS Report for information on flood control structures for this jurisdiction.

PROJECTION INFORMATION: The projection used in the preparation of the map was State Plane Transverse Mercator, Georgia West Zone 1002. The horizontal datum was NAD83. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of the FIRM.

ELEVATION DATUM: Flood elevations on the FIRM are referenced to North American Vertical Datum of 1988 (NAVD 88). These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov/> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

BASE MAP INFORMATION: Base map information shown on the FIRM was provided by the United States Geological Survey. For information about base maps, refer to Section 6.2 "Base Map" in this FIS Report. information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Map Service Center website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website. Users may determine the current map date for each FIRM panel by visiting the FEMA Map Service Center website or by calling the FEMA Map Information eXchange.

The map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables may reflect stream channel distances that differ from what is shown on the map.

Corporate limits shown on the map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after the map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Figure 2. FIRM Notes to Users (continued)

NOTES FOR FIRM INDEX

REVISIONS TO INDEX: As new studies are performed and FIRM panels are updated within Henry County, Georgia and Incorporated Areas, corresponding revisions to the FIRM Index will be incorporated within the FIS Report to reflect the effective dates of those panels. Please refer to Table 28 of this FIS Report to determine the most recent FIRM revision date for each community. The most recent FIRM panel effective date will correspond to the most recent index date.

SPECIAL NOTES FOR SPECIFIC FIRM PANELS

This Notes to Users section was created specifically for Henry County, Georgia and Incorporated Areas, October 6, 2016.

FLOOD RISK REPORT: A Flood Risk Report (FRR) may be available for many of the flooding sources and communities referenced in this FIS Report. The FRR is provided to increase public awareness of flood risk by helping communities identify the areas within their jurisdictions that have the greatest risks. Although non-regulatory, the information provided within the FRR can assist communities in assessing and evaluating mitigation opportunities to reduce these risks. It can also be used by communities developing or updating flood risk mitigation plans. These plans allow communities to identify and evaluate opportunities to reduce potential loss of life and property. However, the FRR is not intended to be the final authoritative source of all flood risk data for a project area; rather, it should be used with other data sources to paint a comprehensive picture of flood risk.

Each FIRM panel contains an abbreviated legend for the features shown on the maps. However, the FIRM panel does not contain enough space to show the legend for all map features. Figure 3 shows the full legend of all map features. Note that not all of these features may appear on the FIRM panels in Henry County.

Figure 3: Map Legend for FIRM

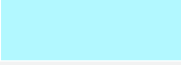
SPECIAL FLOOD HAZARD AREAS: <i>The 1% annual chance flood, also known as the base flood or 100-year flood, has a 1% chance of happening or being exceeded each year. Special Flood Hazard Areas are subject to flooding by the 1% annual chance flood. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood. The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights. See note for specific types. If the floodway is too narrow to be shown, a note is shown.</i>	
	Special Flood Hazard Areas subject to inundation by the 1% annual chance flood (Zones A, AE, AH, AO, AR, A99, V and VE)
Zone A	The flood insurance rate zone that corresponds to the 1% annual chance floodplains. No base (1% annual chance) flood elevations (BFEs) or depths are shown within this zone.
Zone AE	The flood insurance rate zone that corresponds to the 1% annual chance floodplains. Base flood elevations derived from the hydraulic analyses are shown within this zone, either at cross section locations or as static whole-foot elevations that apply throughout the zone.
Zone AH	The flood insurance rate zone that corresponds to the areas of 1% annual chance shallow flooding (usually areas of ponding) where average depths are between 1 and 3 feet. Whole-foot BFEs derived from the hydraulic analyses are shown at selected intervals within this zone.
Zone AO	The flood insurance rate zone that corresponds to the areas of 1% annual chance shallow flooding (usually sheet flow on sloping terrain) where average depths are between 1 and 3 feet. Average whole-foot depths derived from the hydraulic analyses are shown within this zone.
Zone AR	The flood insurance rate zone that corresponds to areas that were formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
Zone A99	The flood insurance rate zone that corresponds to areas of the 1% annual chance floodplain that will be protected by a Federal flood protection system where construction has reached specified statutory milestones. No base flood elevations or flood depths are shown within this zone.
Zone V	The flood insurance rate zone that corresponds to the 1% annual chance coastal floodplains that have additional hazards associated with storm waves. Base flood elevations are not shown within this zone.
Zone VE	Zone VE is the flood insurance rate zone that corresponds to the 1% annual chance coastal floodplains that have additional hazards associated with storm waves. Base flood elevations derived from the coastal analyses are shown within this zone as static whole-foot elevations that apply throughout the zone.

Figure 3: Map Legend for FIRM (continued)

	<p>Regulatory Floodway determined in Zone AE.</p>
<p>OTHER AREAS OF FLOOD HAZARD</p>	
	<p>Shaded Zone X: Areas of 0.2% annual chance flood hazards and areas of 1% annual chance flood hazards with average depths of less than 1 foot or with drainage areas less than 1 square mile.</p>
	<p>Future Conditions 1% Annual Chance Flood Hazard – Zone X: The flood insurance rate zone that corresponds to the 1% annual chance floodplains that are determined based on future-conditions hydrology. No base flood elevations or flood depths are shown within this zone.</p>
	<p>Zone X Protected by Accredited Levee: Areas protected by an accredited levee, dike or other flood control structures.</p>
<p>OTHER AREAS</p>	
	<p>Zone D (Areas of Undetermined Flood Hazard): The flood insurance rate zone that corresponds to unstudied areas where flood hazards are undetermined, but possible</p>
	<p>Unshaded Zone X: Areas determined to be outside the 0.2% annual chance floodplain</p>
<p>FLOOD HAZARD AND OTHER BOUNDARY LINES</p>	
	<p>Flood Zone Boundary (white line)</p>
	<p>Limit of Study</p>
	<p>Jurisdiction Boundary</p>
	<p>Limit of Moderate Wave Action (LiMWA): Indicates the inland limit of the area affected by waves greater than 1.5 feet</p>
<p>GENERAL STRUCTURES</p>	
	<p>Channel, Culvert, Aqueduct, or Storm Sewer</p>
	<p>Dam, Jetty, Weir</p>
	<p>Levee, Dike or Floodwall accredited or provisionally accredited to provide protection from the 1% annual chance flood</p>
	<p>Levee, Dike or Floodwall not accredited to provide protection from the 1% annual chance flood.</p>
	<p>Bridge</p>

Figure 3: Map Legend for FIRM (continued)


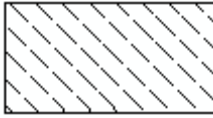

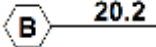

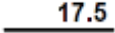
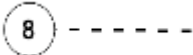







<p>COASTAL BARRIER RESOURCES SYSTEM (CBRS) AND OTHERWISE PROTECTED AREAS (OPA): CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.</p>	
 CBRS AREA 09/30/2009	Coastal Barrier Resources System Area: Labels are shown to clarify where this area shares a boundary with an incorporated area or overlaps with the floodway.
 OTHERWISE PROTECTED AREA 09/30/2009	Otherwise Protected Area
<p>REFERENCE MARKERS</p>	
	River mile Markers
<p>CROSS SECTION & TRANSECT INFORMATION</p>	
	Lettered Cross Section with Regulatory Water Surface Elevation (BFE)
	Numbered Cross Section with Regulatory Water Surface Elevation (BFE)
	Unlettered Cross Section with Regulatory Water Surface Elevation (BFE)
	Coastal Transect
 	<p>Profile Baseline: Indicates the modeled flow path of a stream and is shown on FIRM panels for all valid studies with profiles or otherwise established base flood elevation.</p> <p>Coastal Transect Baseline: Used in the coastal flood hazard model to represent the 0.0-foot elevation contour and the starting point for the transect and the measuring point for the coastal mapping.</p>
	Base Flood Elevation Line (shown for flooding sources for which no cross sections or profile are available)
<p>ZONE AE (EL 16)</p>	Static Base Flood Elevation value (shown under zone label)
<p>ZONE AO (DEPTH 2)</p>	Zone designation with Depth
<p>ZONE AO (DEPTH 2) (VEL 15 FPS)</p>	Zone designation with Depth and Velocity

Figure 3: Map Legend for FIRM (continued)

BASE MAP FEATURES	
<u>Missouri Creek</u>	River, Stream or Other Hydrographic Feature
	Interstate Highway
	U.S. Highway
	State Highway
234	County Highway
<u>MAPLE LANE</u>	Street, Road, Avenue Name, or Private Drive if shown on Flood Profile
 RAILROAD	Railroad
—————	Horizontal Reference Grid Line
—	Horizontal Reference Grid Ticks
+	Secondary Grid Crosshairs
Land Grant	Name of Land Grant
7	Section Number
R. 43 W. T. 22 N.	Range, Township Number
4276⁰⁰⁰mE	Horizontal Reference Grid Coordinates (UTM)
365000 FT	Horizontal Reference Grid Coordinates (State Plane)
80° 16' 52.5"	Corner Coordinates (Latitude, Longitude)

SECTION 2.0 – FLOODPLAIN MANAGEMENT APPLICATIONS

2.1 Floodplain Boundaries

To provide a national standard without regional discrimination, the 1% annual chance (100-year) flood has been adopted by FEMA as the base flood for floodplain management purposes. The 0.2% annual chance (500-year) flood is employed to indicate additional areas of flood hazard in the community.

Each flooding source included in the project scope has been studied and mapped using professional engineering and mapping methodologies that were agreed upon by FEMA and Henry County as appropriate to the risk level. Flood risk is evaluated based on factors such as known flood hazards and projected impact on the built environment. Engineering analyses were performed for each studied flooding source to calculate its 1% annual chance flood elevations; elevations corresponding to other floods (e.g. 10-, 4-, 2-, 0.2-percent annual chance, etc.) may have also been computed for certain flooding sources. Engineering models and methods are described in detail in Section 5.0 of this FIS Report. The modeled elevations at cross sections were used to delineate the floodplain boundaries on the FIRM; between cross sections, the boundaries were interpolated using elevation data from various sources. More information on specific mapping methods is provided in Section 6.0 of this FIS Report.

Depending on the accuracy of available topographic data (Table 23), study methodologies employed (Section 5.0), and flood risk, certain flooding sources may be mapped to show both the 1% and 0.2% annual chance floodplain boundaries, regulatory water surface elevations (BFEs), and/or a regulatory floodway. Similarly, other flooding sources may be mapped to show only the 1% annual chance floodplain boundary on the FIRM, without published water surface elevations. In cases where the 1% and 0.2% annual chance floodplain boundaries are close together, only the 1% annual chance floodplain boundary is shown on the FIRM. Each FIRM panel contains an abbreviated legend for the features shown on the maps. However, the FIRM panel does not contain enough space to show the legend for all map features. Figure 3 shows the full legend of all map features. Note that not all of these features may appear on the FIRM panels in Henry County.

Figure 3, “Map Legend for FIRM”, describes the flood zones that are used on the FIRMs to account for the varying levels of flood risk that exist along flooding sources within the project area. Table 2 and Table 3 indicate the flood zone designations for each flooding source and each community within Henry County, respectively.

Table 2, “Flooding Sources Included in this FIS Report,” lists each flooding source, including its study limits, affected communities, mapped zone on the FIRM, and the completion date of its engineering analysis from which the flood elevations on the FIRM and in the FIS Report were derived. Descriptions and dates for the latest hydrologic and hydraulic analyses of the flooding sources are shown in Table 13. Floodplain boundaries for these flooding sources are shown on the FIRM (published separately) using the symbology described in Each FIRM panel contains an abbreviated legend for the features shown on the maps. However, the FIRM panel does not contain enough space to show the legend for all map features. Figure 3 shows the full legend of all map features. Note that not all of these features may appear on the FIRM panels in Henry County.

Figure 3. On the map, the 1% annual chance floodplain corresponds to the SFHAs. The 0.2% annual chance floodplain shows areas that, although out of the regulatory floodplain, are still subject to flood hazards.

Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data. The procedures to remove these areas from the SFHA are described in Section 6.5 of this FIS Report.

2.2 Floodways

Encroachment on floodplains, such as structures and fill, reduces flood-carrying capacity, increases flood heights and velocities, and increases flood hazards in areas beyond the encroachment itself. One aspect of floodplain management involves balancing the economic gain from floodplain development against the resulting increase in flood hazard.

For purposes of the NFIP, a floodway is used as a tool to assist local communities in balancing floodplain development against increasing flood hazard. With this approach, the area of the 1% annual chance floodplain on a river is divided into a floodway and a floodway fringe based on hydraulic modeling. The floodway is the channel of a stream, plus any adjacent floodplain areas, that must be kept free of encroachment in order to carry the 1% annual chance flood. The floodway fringe is the area between the floodway and the 1% annual chance floodplain boundaries where encroachment is permitted. The floodway must be wide enough so that the floodway fringe could be completely obstructed without increasing the water-surface elevation of the 1% annual chance flood more than 1 foot at any point. Typical relationships between the floodway and the floodway fringe and their significance to floodplain development are shown in Figure 4.

To participate in the NFIP, Federal regulations require communities to limit increases caused by encroachment to 1.0 foot, provided that hazardous velocities are not produced. The floodways in this project are presented to local agencies as minimum standards that can be adopted directly or that can be used as a basis for additional floodway projects.

Figure 4: Floodway Schematic

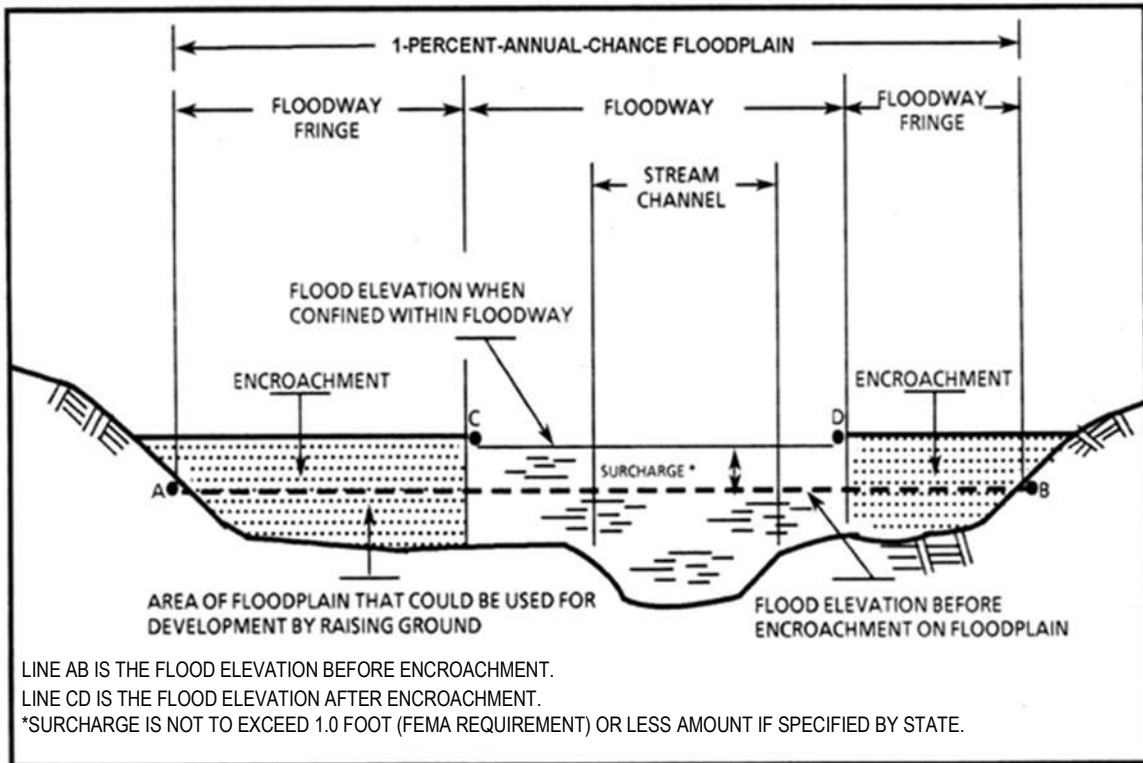


Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Bear Creek and Bear Creek Tributaries	City of Hampton, Henry County Unincorporated Areas	N/A	N/A	03130005	25.8		N	A	2010
Bethlehem Bottoms and Bethlehem Bottoms Tributaries	City of Locust Grove, Henry County Unincorporated Areas	N/A	N/A	03070103	9.4		N	A	2010
Big Cotton Indian Creek	City of Stockbridge, Henry County Unincorporated Areas	Confluence with South River	County Boundary	03070103	19.5		Y	AE	2013
Big Cotton Indian Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	21.3		N	A	2010
Birch Creek and Birch Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	22.3		N	A	2010
Brown Branch and Brown Branch Tributaries	City of Locust Grove, Henry County Unincorporated Areas	N/A	N/A	03070103	10.4		N	A	2013
Brush Creek	City of Stockbridge, Henry County Unincorporated Areas	Confluence with Big Cotton Indian Creek	Approximately 1,080 feet upstream of Lilian Circle	03070103	4.2		Y	AE	2013

Table 2: Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Brush Creek	City of Stockbridge, Henry County Unincorporated Areas	Approximately 260 feet downstream of Lillian Circle	Approximately 360 feet downstream of Lillian Circle	03070103	0.2		N	AO	2013
Brush Creek Tributaries	Henry County Unincorporated Areas, City of Stockbridge	N/A	N/A	03070103	0.9		N	A	2010
Camp Creek (County Line)	Henry County Unincorporated Areas	Confluence with South River	Approximately 1,870 feet downstream of Ashtonbrook Drive	03070103	2.5		Y	AE	2010
Camp Creek (County Line) Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	4.2		N	A	2010
Camp Creek (McDonough)	City of McDonough, Henry County Unincorporated Areas	Confluence with Walnut Creek	Approximately 1,750 feet upstream of Heartwood Avenue	03070103	11.7		N	A	2010
Camp Creek (McDonough) Tributaries	City of McDonough, Henry County Unincorporated Areas	N/A	N/A	03070103	13.5		N	A	2010
Cane Creek and Cane Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	4.2		N	A	2010

Table 2: Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Clarks Creek and Clarks Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	3.3		N	A	2010
Clear Creek and Clear Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03130005	4.6		N	A	2010
Coker Branch and Coker Branch Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	2.2		N	A	2010
Cook Branch Tributary 4	Henry County Unincorporated Areas	N/A	N/A	03070103	4.8		N	A	2010
Corn Creek and Corn Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	4.5		N	A	2010
Crittles Creek and Crittles Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	6.2		N	A	2010
Greer Branch and Greer Branch Tributary 1	Henry County Unincorporated Areas	N/A	N/A	03070103	1.9		N	A	2010
Hambrick Creek and Hambrick Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	9.1		N	A	2010
Honey Creek and Honey Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	7.4		N	A	2010

Table 2: Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Indian Creek and Indian Creek Tributaries	City of Locust Grove, Henry County Unincorporated Areas	N/A	N/A	03070103	35.8		N	A	2010
Island Shoals Creek and Island Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	7.9		N	A	2010
James Creek and James Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	3.5		N	A	2010
James Creek	Henry County Unincorporated Areas	Confluence with Big Cotton Indian Creek	Approximately 130 feet upstream of Lake Shore Drive	03070103	3.6		Y	AE	2013
Kalves Creek and Kalves Creek Tributaries	City of McDonough, Henry County Unincorporated Areas	N/A	N/A	03070103	11.4		N	A	2010
Line Creek	City of Stockbridge, Henry County Unincorporated Areas	Confluence with Rum Creek	Approximately 130 feet upstream of Lexington Avenue	03070103	1.9		Y	AE	2013
Little Cotton Indian Creek	City of Stockbridge, Henry County Unincorporated Areas	Confluence with Big Cotton Indian Creek	Confluence of Rum Creek and Reeves Creek	03070103	8.3		Y	AE	2013
Little Cotton Indian Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	6.8		N	A	2010

Table 2: Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Long Branch and Long Branch Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	8.1		N	A	2010
Mackey Creek and Mackey Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	19.2		N	A	2010
Martin Creek and Martin Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	5.8		N	A	2010
Mill Creek and Mill Creek Tributary 1	Henry County Unincorporated Areas	N/A	N/A	03070103	1.1		N	A	2010
Mitchell Branch and Mitchell Branch Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	3.2		N	A	2010
Mountain Creek and Mountain Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	1.9		N	A	2010
Nails Creek and Nails Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	17.7		N	A	2010
Panther Creek	Henry County Unincorporated Areas	Confluence with Big Cotton Indian Creek	Approximately 600 feet upstream of State Highway 42	03070103	0.9		Y	AE	2013
Panther Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	0.3		N	A	2010
Pates Creek and Pates Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	8.6		N	A	2010

Table 2: Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Pates Creek	City of Stockbridge, Henry County Unincorporated Areas	Confluence with Little Cotton Indian Creek	Approximately 300 feet upstream of Pates Creek Road	03070103	5.2		Y	AE	2013
Peeksville Creek and Peeksville Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	16.6		N	A	2010
Reeves Creek	City of Stockbridge, Henry County Unincorporated Areas	Confluence with Little Cotton Indian Creek	County Boundary	03070103	5.2		Y	AE	2013
Reeves Creek Tributary 9	City of Stockbridge, Henry County Unincorporated Areas	Confluence with Reeves Creek	Approximately 790 feet upstream of Tributary Parkway	03070103	0.7		Y	AE	2013
Reeves Creek Tributaries	City of Stockbridge, Henry County Unincorporated Areas	N/A	N/A	03070103	4.1		N	A	2010
Rock Branch and Rock Branch Tributary 1	Henry County Unincorporated Areas	N/A	N/A	03070103	3.8		N	A	2010
Rum Creek	City of Stockbridge, Henry County Unincorporated Areas	Confluence with Little Cotton Indian Creek	County Boundary	03070103	4.4		Y	AE	2013

Table 2: Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Rum Creek Tributaries	City of Stockbridge, Henry County Unincorporated Areas	N/A	N/A	03070103	0.7		N	A	2010
Shoal Creek and Shoal Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03130005	9.4		N	A	2010
South River	Henry County Unincorporated Areas	Approximately 500 feet upstream of State Route 20	Confluence of Camp Creek (County Line)	03070103	5.1		Y	AE	2013
South River	Henry County Unincorporated Areas	State Highway 81 East	Approximately 500 feet upstream of State Route 20	03070103	11.1		N	AE	2013
South River	Henry County Unincorporated Areas	County Boundary	State Highway 81 East	03070103	4.1		N	A	2013
South River Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	18.2		N	A	2010
Stanley Branch	Henry County Unincorporated Areas	N/A	N/A	03070103	1.1		N	A	2010
Thompson Creek and Thompson Creek Tributaries	City of Hampton, Henry County Unincorporated Areas	N/A	N/A	03070103	12.2		N	A	2010
Towaliga River and Towaliga River Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	39.6		N	A	2010

Table 2: Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Tussahaw Branch and Tussahaw Branch Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	8.2		N	A	2010
Tussahaw Creek and Tussahaw Creek Tributaries	City of McDonough, Henry County Unincorporated Areas	N/A	N/A	03070103	46.9		N	A	2010
Walnut Creek and Walnut Creek Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	37		N	A	2010
Walnut Creek	City of McDonough, Henry County Unincorporated Areas	Confluence with Camp Creek (County Line)	At Interstate Highway 75	03070103	18.2		Y	AE	2013
Ward Lake Tributaries	Henry County Unincorporated Areas	N/A	N/A	03070103	3.9		N	A	2010
Wolf Creek (Locust Grove) and Wolf Creek (Locust Grove) Tributaries	City of Locust Grove, Henry County Unincorporated Areas	N/A	N/A	03070103	11.8		N	A	2013
Wolf Creek (Stockbridge) and Wolf Creek (Stockbridge) Tributaries	City of Stockbridge, Henry County Unincorporated Areas	N/A	N/A	03070103	7.7		N	A	2013

Floodway widths presented in this FIS Report and on the FIRM were computed at cross sections. Between cross sections, the floodway boundaries were interpolated. For certain stream segments, floodways were adjusted so that the amount of floodwaters conveyed on each side of the floodplain would be reduced equally. The results of the floodway computations have been tabulated for selected cross sections and are shown in Table 24, “Floodway Data.”

All floodways that were developed for this Flood Risk Project are shown on the FIRM using the symbology described in Each FIRM panel contains an abbreviated legend for the features shown on the maps. However, the FIRM panel does not contain enough space to show the legend for all map features. Figure 3 shows the full legend of all map features. Note that not all of these features may appear on the FIRM panels in Henry County.

Figure 3. In cases where the floodway and 1% annual chance floodplain boundaries are either close together or collinear, only the floodway boundary has been shown on the FIRM. For information about the delineation of floodways on the FIRM, refer to Section 6.3.

2.3 Base Flood Elevations

The hydraulic characteristics of flooding sources were analyzed to provide estimates of the elevations of floods of the selected recurrence intervals. The Base Flood Elevation (BFE) is the elevation of the 1% annual chance flood. These BFEs are most commonly rounded to the whole foot, as shown on the FIRM, but in certain circumstances or locations they may be rounded to 0.1 foot. Cross section lines shown on the FIRM may also be labeled with the BFE rounded to 0.1 foot. Whole-foot BFEs derived from engineering analyses that apply to coastal areas, areas of ponding, or other static areas with little elevation change may also be shown at selected intervals on the FIRM.

Cross sections with BFEs shown on the FIRM correspond to the cross sections shown in the Floodway Data table and Flood Profiles in this FIS Report. BFEs are primarily intended for flood insurance rating purposes. For construction and/or floodplain management purposes, users are cautioned to use the flood elevation data presented in this FIS Report in conjunction with the data shown on the FIRM.

2.4 Non-Encroachment Zones

Some States and communities use non-encroachment zones to manage floodplain development. While not a FEMA designated floodway, the non-encroachment zone represents that area around the stream that should be reserved to convey the 1% annual chance flood event.

2.5 Coastal Flood Hazard Areas

2.5.1 Water Elevations and the Effects of Waves

This section is not applicable to this Flood Risk Project.

Figure 5: Wave Runup Transect Schematic
[Not Applicable to this Flood Risk Project]

2.5.2 Floodplain Boundaries and BFEs for Coastal Areas

This section is not applicable to this Flood Risk Project.

2.5.3 Coastal High Hazard Areas

This section is not applicable to this Flood Risk Project.

Figure 6: Coastal Transect Schematic

[Not Applicable to this Flood Risk Project]

2.5.4 Limit of Moderate Wave Action

This section is not applicable to this Flood Risk Project.

SECTION 3.0 – INSURANCE APPLICATIONS

3.1 National Flood Insurance Program Insurance Zones

For flood insurance applications, the FIRM designates flood insurance rate zones as described in Each FIRM panel contains an abbreviated legend for the features shown on the maps. However, the FIRM panel does not contain enough space to show the legend for all map features. Figure 3 shows the full legend of all map features. Note that not all of these features may appear on the FIRM panels in Henry County.

Figure 3, “Map Legend for FIRM.” Flood insurance zone designations are assigned to flooding sources based on the results of the hydraulic or coastal analyses. Insurance agents use the zones shown on the FIRM and depths and base flood elevations in this FIS Report in conjunction with information on structures and their contents to assign premium rates for flood insurance policies.

The 1% annual chance floodplain boundary corresponds to the boundary of the areas of special flood hazards (e.g. Zones A, AE, V, VE, etc.), and the 0.2% annual chance floodplain boundary corresponds to the boundary of areas of additional flood hazards.

Table 3 lists the flood insurance zones in the unincorporated and incorporated areas of Henry County.

Table 3: Flood Zone Designations by Community

Community	Flood Zone(s)
CITY OF HAMPTON	A, X
HENRY COUNTY UNINCORPORATED AREAS	A, AE, X
CITY OF LOCUST GROVE	A, X
CITY OF MCDONOUGH	A, AE, X
CITY OF STOCKBRIDGE	A, AE, AO, X

3.2 Coastal Barrier Resources System

The Coastal Barrier Resources Act (CBRA) of 1982 was established by Congress to create areas along the Atlantic and Gulf coasts and the Great Lakes, where restrictions for Federal financial assistance including flood insurance are prohibited. In 1990, Congress passed the Coastal Barrier Improvement Act (CBIA), which increased the extent of areas established by the CBRA and added “Otherwise Protected Areas” (OPA) to the system. These areas are collectively referred to as the John. H Chafee Coastal Barrier Resources System (CBRS). The CBRS boundaries that have been identified in the project area are in Table 4, “Coastal Barrier Resource System Information.”

Table 4: Coastal Barrier Resources System Information

[Not Applicable to this Flood Risk Project]

SECTION 4.0 – AREA STUDIED

4.1 Basin Description

Table 5 contains a description of the characteristics of the HUC-8 sub-basins within which each community falls. The table includes the main flooding sources within each basin, a brief description of the basin, and its drainage area.

Table 5: Basin Characteristics

HUC-8 Sub-Basin Name	HUC-8 Sub-Basin Number	Primary Flooding Source	Description of Affected Area	Drainage Area (sq. miles)
Upper Flint	03130005	Flint River	The Flint River starts in South Atlanta and it flows approximately 350 miles to where it joins the Chattahoochee River. The basin Upper Flint basin stretches from Crawford and Taylor Counties to Decatur County.	2,630

HUC-8 Sub-Basin Name	HUC-8 Sub-Basin Number	Primary Flooding Source	Description of Affected Area	Drainage Area (sq. miles)
Upper Ocmulgee	03070103	Upper Ocmulgee River	The Upper Ocmulgee Watershed is composed of 12 flooding rivers. The main channel of the Upper Ocmulgee River is approximately 36 miles long.	2,973

4.2 Principal Flood Problems

Table 6 contains a description of the principal flood problems that have been noted for Henry County by flooding source.

Table 6: Principal Flood Problems

Flooding Source	Description of Flood Problems
Big Cotton Indian Creek	Known damaging floods in the area occurred in February 1900, February 1961, April 1964, and March 1971
Brush Creek	Known damaging floods in the area occurred in February 1900, February 1961, April 1964, and March 1971
James Creek	Known damaging floods in the area occurred in February 1900, February 1961, April 1964, and March 1971
Line Creek	Known damaging floods in the area occurred in February 1900, February 1961, April 1964, and March 1971
Little Cotton Indian Creek	Known damaging floods in the area occurred in February 1900, February 1961, April 1964, and March 1971
Panther Creek	Known damaging floods in the area occurred in February 1900, February 1961, April 1964, and March 1971
Pates Creek	Known damaging floods in the area occurred in February 1900, February 1961, April 1964, and March 1971
Reeves Creek	Known damaging floods in the area occurred in February 1900, February 1961, April 1964, and March 1971
Reeves Creek Tributary 9	Known damaging floods in the area occurred in February 1900, February 1961, April 1964, and March 1971
Rum Creek	Known damaging floods in the area occurred in February 1900, February 1961, April 1964, and March 1971
South River	Known damaging floods in the area occurred in February 1900, February 1961, April 1964, and March 1971
Walnut Creek	Known damaging floods in the area occurred in February 1900, February 1961, April 1964, and March 1971

Table 7 contains information about historic flood elevations in the communities within Henry County.

Table 7: Historic Flooding Elevations
[Not Applicable to this Flood Risk Project]

4.3 Non-Levee Flood Protection Measures

Table 8 contains information about non-levee flood protection measures within Henry County such as dams, jetties, and or dikes. Levees are addressed in Section 4.4 of this FIS Report.

Table 8: Non-Levee Flood Protection Measures

Flooding Source	Structure Name	Type of Measure	Location	Description of Measure
Big Cotton Indian Creek	Old Mill Dam	Dam	Approximately 140 feet downstream of Stagecoach Road	
Big Cotton Indian Creek	Millers Mill Dam	Dam	Approximately 640 feet downstream of State Highway 155	
Big Cotton Indian Creek	Spillway Dam	Dam	Approximately 430 feet downstream of Crumbley Road	
James Creek	Swan Lake Dam	Dam	At Lakeshore Drive	
Line Creek	Dam	Dam	Approximately 460 feet downstream of Jamaica Drive	
Line Creek	Dam	Dam	Approximately 330 feet downstream of Longwood Drive	
Little Cotton Indian Creek	Dam	Dam	Approximately 510 feet upstream of Springdale Drive	
Long Branch	Long Branch Dam	Dam	Approximately 2,500 feet upstream of Locust Grove Griffin Road	
Reeves Creek	Dam	Dam	Approximately 910 feet upstream of State Highway 138	
Rum Creek	Lake Spivey Dam	Dam	Approximately 800 feet upstream of Blackhall Road	
Walnut Creek	Dam	Dam	Approximately 2,670 feet upstream of State Highway 155	

4.4 Levees

This section is not applicable to this Flood Risk Project.

Table 9: Levees
[Not Applicable to this Flood Risk Project]

SECTION 5.0 – ENGINEERING METHODS

For the flooding sources in the community, standard hydrologic and hydraulic study methods were used to determine the flood hazard data required for this study. Flood events of a magnitude that are expected to be equaled or exceeded at least once on the average during any 10-, 25-, 50-, 100-, or 500-year period (recurrence interval) have been selected as having special significance for floodplain management and for flood insurance rates. These events, commonly termed the 10-, 25-, 50-, 100-, and 500-year floods, have a 10-, 4-, 2-, 1-, and 0.2% annual chance, respectively, of being equaled or exceeded during any year.

Although the recurrence interval represents the long-term, average period between floods of a specific magnitude, rare floods could occur at short intervals or even within the same year. The risk of experiencing a rare flood increases when periods greater than 1 year are considered. For example, the risk of having a flood that equals or exceeds the 100-year flood (1-percent chance of annual exceedance) during the term of a 30-year mortgage is approximately 26 percent (about 3 in 10); for any 90-year period, the risk increases to approximately 60 percent (6 in 10). The analyses reported herein reflect flooding potentials based on conditions existing in the community at the time of completion of this study. Maps and flood elevations will be amended periodically to reflect future changes.

5.1 Hydrologic Analyses

Hydrologic analyses were carried out to establish the peak elevation-frequency relationships for floods of the selected recurrence intervals for each flooding source studied. Hydrologic analyses are typically performed at the watershed level. Depending on factors such as watershed size and shape, land use and urbanization, and natural or man-made storage, various models or methodologies may be applied. A summary of the hydrologic methods applied to develop the discharges used in the hydraulic analyses for each stream is provided in Table 13. Greater detail (including assumptions, analysis, and results) is available in the archived project documentation.

A summary of the discharges is provided in Table 10. Frequency Discharge-Drainage Area Curves used to develop the hydrologic models may also be shown in Figure 7 for selected flooding sources. A summary of stillwater elevations developed for non-coastal flooding sources is provided in Table 11 (Coastal Stillwater elevations are discussed in Section 5.3 and shown in Table 17.) Stream gage information is provided in Table 12.

Figure 7: Frequency Discharge – Drainage Area Curves

[Not Applicable to this Flood Risk Project]

Table 11 (Coastal stillwater elevations are discussed in Section 5.3 and shown in Table 17) Stream gage information is provided in Table 12.

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Big Cotton Indian Creek	Confluence with South River	127	6,315	9,055	11,481	14,104	21,396
Big Cotton Indian Creek	Approximately 3,000 ft downstream of Airline Road	123	6,452	9,268	11,745	14,455	21,869
Big Cotton Indian Creek	Confluence with Little Cotton Indian Creek	59	3,797	5,302	6,577	8,001	11,855
Big Cotton Indian Creek	At State Highway 155	57	3,936	5,511	6,849	8,253	12,121
Big Cotton Indian Creek	At State Highway 138	50	4,328	6,047	7,434	8,855	12,934
Big Cotton Indian Creek	Just upstream of the confluence of James Creek	36	4,674	5,677	6,384	7,080	8,793
Big Cotton Indian Creek	At Old Conyers Road	31	4,347	5,262	5,903	6,533	8,081
Big Cotton Indian Creek	At Stagecoach Road	26	4,075	4,893	5,460	6,013	7,374
Big Cotton Indian Creek	Just upstream of the confluence of Panther Creek	15	2,933	3,547	3,973	4,390	5,403
Brush Creek	Confluence with Big Cotton Indian Creek	3	1,177	1,457	1,654	1,851	2,309
Brush Creek	At Pinehurst Drive	3	1,064	1,309	1,481	1,650	2,045
Brush Creek	At East Atlanta Road	1	766	927	1,035	1,140	1,384

Table 10: Summary of Discharges (continued)

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Brush Creek	At Shields Road	1	454	514	557	598	683
Camp Creek (County Line)	Confluence with South River	7	1,480	1,920	2,260	2,600	3,410
James Creek	Confluence with Big Cotton Indian Creek	14	1,281	1,820	2,284	2,770	4,110
James Creek	Just Upstream of the Confluence of Hambrick Creek	8	560	661	714	767	910
James Creek	At Old Conyers Road	7	543	640	687	733	855
Line Creek	At the confluence of Rum Creek	1	634	813	943	1,075	1,379
Line Creek	At Chestnut Lake Drive	1	328	408	470	532	678
Little Cotton Indian Creek	Confluence with Big Cotton Indian Creek	59	3,184	4,510	5,665	6,888	10,336
Little Cotton Indian Creek	Just Upstream of the Confluence of Wolf Creek (Stockbridge)	51	3,036	4,263	5,331	6,464	9,662
Little Cotton Indian Creek	Just Upstream of the Confluence of Pates Creek	31	2,416	3,360	4,181	5,050	7,485
Panther Creek	Confluence with Big Cotton Indian Creek	10	2,426	2,870	3,167	3,455	4,154
Pates Creek	Confluence with Little Cotton Indian Creek	18	976	1,359	1,696	2,059	3,155

Table 10: Summary of Discharges (continued)

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Pates Creek	At Interstate Highway 75	15	827	1,166	1,493	1,810	2,566
Reeves Creek	Confluence with Little Cotton Indian Creek	12	2,547	3,077	3,444	3,803	4,671
Reeves Creek	At Flippen Road	9	2,163	2,615	2,928	3,233	3,967
Reeves Creek	At Interstate Highway 75	7	1,914	2,316	2,593	2,864	3,512
Reeves Creek	At Highway 138	5	1,601	1,928	2,151	2,369	2,886
Reeves Creek Tributary 9	Confluence with Reeves Creek	1	273	362	435	510	708
Rum Creek	Confluence with Little Cotton Indian Creek	17	898	1,291	1,624	1,951	2,827
Rum Creek	Confluence of Line Creek	13	829	1,166	1,459	1,750	2,541
South River	At State Highway 81 East	464	*	*	*	53,000	*
South River	At Butlers Bridge Road	456	*	*	*	49,300	*
South River	At State Highway 20 / Conyers Road	244	*	*	*	33,600	*
South River	Approximately 12,400 feet upstream of State Highway 20	244	11,425	*	17,625	19,780	26,280
South River	Approximately 14,800 feet upstream of State Highway 20	240	11,325	*	17,475	19,615	26,060

*Not Calculated for this Flood Risk Project

Table 10: Summary of Discharges (continued)

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
South River	Just downstream of the confluence of Camp Creek (County Line)	237	11,225	*	17,325	19,445	25,845
Walnut Creek	Just upstream of the confluence of Camp Creek (County Line)	33	3,189	4,525	5,649	6,812	10,347
Walnut Creek	At State Highway 155	32	3,211	4,539	5,671	6,841	10,458
Walnut Creek	Just upstream of Dam	32	3,307	4,641	5,770	6,926	10,574
Walnut Creek	At State Highway 42	30	3,254	4,570	5,684	6,824	10,413
Walnut Creek	At Dailey Mill Road	29	3,370	4,739	5,914	7,086	11,128
Walnut Creek	Just upstream of the confluence of Birch Creek	17	1,928	2,744	3,454	4,205	6,352
Walnut Creek	Just upstream of the confluence of Crittle Creek	12	1,616	2,275	2,839	3,428	5,073
Walnut Creek	At Foster Drive	11.9	1,638	2,307	2,879	3,477	5,145
Walnut Creek	At Interstate Highway 75	10.7	1,642	2,316	2,892	3,494	5,177
Walnut Creek	At Chambers Road	9.5	1,719	2,425	3,027	3,653	5,390
Walnut Creek	At Jonesboro Road	7.9	1,730	2,447	3,054	3,681	5,409

*Not Calculated for this Flood Risk Project

Figure 7: Frequency Discharge – Drainage Area Curves

[Not Applicable to this Flood Risk Project]

Table 11: Summary of Non-Coastal Stillwater Elevations

Flooding Source	Location	Elevations (NAVD)				
		10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Rum Creek	Lake Spivey Dam	783.0	783.4	783.8	784.1	784.9

Table 12: Stream Gage Information used to Determine Discharges

[Not Applicable to this Flood Risk Project]

5.2 Hydraulic Analyses

Analyses of the hydraulic characteristics of flooding from the sources studied were carried out to provide estimates of the elevations of floods of the selected recurrence intervals. Base flood elevations on the FIRM represent the elevations shown on the Flood Profiles and in the Floodway Data tables in the FIS Report. Rounded whole-foot elevations may be shown on the FIRM in coastal areas, areas of ponding, and other areas with static base flood elevations. These whole-foot elevations may not exactly reflect the elevations derived from the hydraulic analyses. Flood elevations shown on the FIRM are primarily intended for flood insurance rating purposes. For construction and/or floodplain management purposes, users are cautioned to use the flood elevation data presented in this FIS Report in conjunction with the data shown on the FIRM. The hydraulic analyses for this FIS were based on unobstructed flow. The flood elevations shown on the profiles are thus considered valid only if hydraulic structures remain unobstructed, operate properly, and do not fail.

For streams for which hydraulic analyses were based on cross sections, locations of selected cross sections are shown on the Flood Profiles (Exhibit 1). For stream segments for which a floodway was computed (Section 6.3), selected cross sections are also listed on Table 24, “Floodway Data.”

A summary of the methods used in hydraulic analyses performed for this project is provided in Table 13. Roughness coefficients are provided in Table 14. Roughness coefficients are values representing the frictional resistance water experiences when passing overland or through a channel. They are used in the calculations to determine water surface elevations. Greater detail (including assumptions, analysis, and results) is available in the archived project documentation.

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Bear Creek and Bear Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Bethlehem Bottoms and Bethlehem Bottoms Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Big Cotton Indian Creek	Confluence with South River	County Boundary	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	09/27/2013	AE w/Floodway	
Big Cotton Indian Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Birch Creek and Birch Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Brown Branch and Brown Branch Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Brush Creek	Starting approximately 930 feet upstream of Lillian Circle	Ending Approximately 1,090 feet upstream of Lillian Circle	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Brush Creek	Approximately 260 feet downstream of Lillian Circle	Approximately 360 feet downstream of Lillian Circle	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	09/27/2013	AO	

Table 13: Summary of Hydrologic and Hydraulic Analyses (continued)

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Brush Creek	Confluence with Big Cotton Indian Creek	Approximately 1,080 feet upstream of Lilian Circle	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	09/27/2013	AE w/Floodway	
Brush Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Camp Creek (County Line)	Confluence with South River	Approximately 1874 feet downstream of Ashtonbrook Dr	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	AE w/Floodway	
Camp Creek and Camp Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Cane Creek and Cane Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Clarks Creek and Clarks Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Clear Creek and Clear Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Coker Branch and Coker Branch Tributary	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Cook Branch Tributary 4	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Corn Creek and Corn Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	

Table 13: Summary of Hydrologic and Hydraulic Analyses (continued)

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Crittles Creek and Crittles Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Greer Branch and Greer Branch Tributary	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Hambrick Creek and Hambrick Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Honey Creek and Honey Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Indian Creek and Indian Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Island Shoals Creek and Island Shoals Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
James Creek and James Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
James Creek	Confluence with Big Cotton Indian Creek	Approximately 130 feet upstream of Lake Shore Drive	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	09/27/2013	AE w/Floodway	
Kalves Creek and Kalves Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Lake Spivey	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-HMS 3.0 and up (Dec 2005)	09/27/2013	AE	

Table 13: Summary of Hydrologic and Hydraulic Analyses (continued)

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Line Creek	Confluence with Rum Creek	Approximately 130 feet upstream of Lexington Avenue	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	09/27/2013	AE w/Floodway	
Little Cotton Indian Creek	Confluence with Big Cotton Indian Creek	Confluence of Rum Creek and Reeves Creek	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	09/27/2013	AE w/Floodway	
Little Cotton Indian Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Long Branch and Long Branch Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Mackey Creek and Mackey Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Martin Creek and Martin Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Mill Creek and Mill Creek Tributary 1	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Mitchell Branch and Mitchell Branch Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Mountain Creek and Mountain Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Nails Creek and Nails Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	

Table 13: Summary of Hydrologic and Hydraulic Analyses (continued)

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Panther Creek	Confluence with Big Cotton Indian Creek	Approximately 600 feet upstream of State Highway 42	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	09/27/2013	AE w/Floodway	
Panther Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Pates Creek and Pates Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Pates Creek	Confluence with Little Cotton Indian Creek	Approximately 300 feet upstream of Pates Creek Road	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	09/27/2013	AE w/Floodway	
Peeksville Creek and Peeksville Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Reeves Creek	Confluence with Little Cotton Indian Creek	County Boundary	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	09/27/2013	AE w/Floodway	
Reeves Creek Tributary 9	Confluence with Reeves Creek	Approximately 790 feet upstream of Interstate Parkway	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	09/27/2013	AE w/Floodway	
Reeves Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Rock Branch and Rock Branch Tributary	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Rum Creek	Confluence with Little Cotton Indian Creek	County Boundary	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	09/27/2013	AE w/Floodway	
Rum Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	

Table 13: Summary of Hydrologic and Hydraulic Analyses (continued)

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Shoal Creek and Shoal Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
South River	State Highway 81 East	Confluence of Camp Creek (County Line)	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	09/27/2013	AE w/Floodway	
South River and South River Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Stanley Branch	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Thompson Creek and Thompson Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Towaliga River and Towaliga River Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Tusahaw Branch and Tusahaw Branch Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Tusahaw Creek and Tusahaw Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Walnut Creek and Walnut Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	

Table 13: Summary of Hydrologic and Hydraulic Analyses (continued)

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Walnut Creek	Confluence with Camp Creek (McDonough)	At Interstate Highway 75	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	09/27/2013	AE w/Floodway	
Ward Lake Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	
Wolf Creek and Wolf Creek Tributaries	N/A	N/A	HEC-HMS 3.0 and up (Dec 2005)	HEC-RAS 3.1.1 and up	05/17/2010	A	

Table 14: Roughness Coefficients

Flooding Source	Channel “n”	Overbank “n”
Big Cotton Indian Creek	0.035-0.070	0.040-0.100
Brush Creek	0.035-0.070	0.040-0.120
James Creek	0.025-0.070	0.025-0.100
Line Creek	0.025-0.070	0.025-0.100
Little Cotton Indian Creek	0.025-0.070	0.025-0.100
Panther Creek	0.050-0.070	0.040-0.100
Pates Creek	0.025-0.070	0.025-0.100
Reeves Creek	0.035-0.070	0.035-0.100
Reeves Creek Tributary 9	0.070	0.040-0.100
Rum Creek	0.025-0.070	0.025-0.100
South River	0.020-0.060	0.085-0.110
Walnut Creek	0.035-0.070	0.040-0.120

5.3 Coastal Analyses

This section is not applicable to this Flood Risk Project.

Table 15: Summary of Coastal Analyses
[Not Applicable to this Flood Risk Project]

5.3.1 Total Stillwater Elevations

This section is not applicable to this Flood Risk Project.

Figure 8: 1% Annual Chance Total Stillwater Elevations for Coastal Areas
[Not Applicable to this Flood Risk Project]

Table 16: Tide Gage Analysis Specifics
[Not Applicable to this Flood Risk Project]

5.3.2 Waves

This section is not applicable to this Flood Risk Project.

5.3.3 Coastal Erosion

This section is not applicable to this Flood Risk Project.

5.3.4 Wave Hazard Analyses

This section is not applicable to this Flood Risk Project.

Table 17: Coastal Transect Parameters

[Not Applicable to this Flood Risk Project]

Figure 9: Transect Location Map

[Not Applicable to this Flood Risk Project]

5.4 Alluvial Fan Analyses

This section is not applicable to this Flood Risk Project.

Table 18: Summary of Alluvial Fan Analyses

[Not Applicable to this Flood Risk Project]

Table 19: Results of Alluvial Fan Analyses

[Not Applicable to this Flood Risk Project]

SECTION 6.0 – MAPPING METHODS

6.1 Vertical and Horizontal Control

All FIS Reports and FIRMs are referenced to a specific vertical datum. The vertical datum provides a starting point against which flood, ground, and structure elevations can be referenced and compared. Until recently, the standard vertical datum used for newly created or revised FIS Reports and FIRMs was the National Geodetic Vertical Datum of 1929 (NGVD29). With the completion of the North American Vertical Datum of 1988 (NAVD88), many FIS Reports and FIRMs are now prepared using NAVD88 as the referenced vertical datum.

Flood elevations shown in this FIS Report and on the FIRMs are referenced to NAVD88. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between NGVD29 and NAVD88 or other datum conversion, visit the National Geodetic Survey website at www.ngs.noaa.gov, or contact the National Geodetic Survey at the following address:

NGS Information Services NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

Temporary vertical monuments are often established during the preparation of a flood hazard analysis for the purpose of establishing local vertical control. Although these monuments are not shown on the FIRM, they may be found in the archived project documentation associated with the FIS Report and the FIRMs for this community. Interested individuals may contact FEMA to access these data.

To obtain current elevation, description, and/or location information for benchmarks in the area, please contact information services Branch of the NGS at (301) 713-3242, or visit their website at www.ngs.noaa.gov.

The datum conversion locations and values that were calculated for Henry County are provided in Table 20.

Table 20: Countywide Vertical Datum Conversion

Quadrangle Name	Quadrangle Corner	Latitude	Longitude	Conversion from NGVD29 to NAVD88 (feet)
Brooks	NE	33.375	-84.375	0.044
Griffin North	NE	33.375	-84.250	0.051
Hampton	NE	33.500	-84.250	0.094
Jonesboro	NE	33.625	-84.250	0.175
Locust Grove	NE	33.375	-84.000	-0.059

Table 20: Countywide Vertical Datum Conversion (*continued*)

Quadrangle Name	Quadrangle Corner	Latitude	Longitude	Conversion from NGVD29 to NAVD88 (feet)
Luella	NE	33.375	-84.125	-0.004
McDonough	NE	33.500	-84.125	0.071
Ola	NE	33.500	-84.000	-0.008
Stockbridge	NE	33.625	-84.125	0.117
Average Conversion from NGVD29 to NAVD88 = 0.053 (FEET)				

A countywide conversion factor could not be generated for Henry County because the maximum variance from average exceeds 0.25 feet. Calculations for the vertical offsets on a stream by stream basis are depicted in Table 21.

Table 21: Stream-by-Stream Vertical Datum Conversion

[Not Applicable to this Flood Risk Project]

6.2 Base Map

The FIRMs and FIS Report for this project have been produced in a digital format. The flood hazard information was converted to a Geographic Information System (GIS) format that meets FEMA’s FIRM database specifications and geographic information standards. This information is provided in a digital format so that it can be incorporated into a local GIS and be accessed more easily by the community. The FIRM Database includes most of the tabular information contained in the FIS Report in such a way that the data can be associated with pertinent spatial features. For example, the information contained in the Floodway Data table and Flood Profiles can be linked to the cross sections that are shown on the FIRMs. Additional information about the FIRM Database and its contents can be found in FEMA’s *Flood Insurance Rate Map (FIRM) Database Technical Reference*.

Base map information shown on the FIRM was derived from the sources described in Table 22.

Table 22: Base Map Sources

Data Type	Data Provider	Data Date	Data Scale	Data Description
Henry County GIS Data	Henry County GIS	2013	24000	GIS Data including political boundaries, roads and 0.5ft Orthoimagery
Henry County Master Boundary	Georgia Department of Transportation	2006	24000	County Boundary

Table 22: Base Map Sources (continued)

Data Type	Data Provider	Data Date	Data Scale	Data Description
Henry County Railroads	Research And Innovative Technology Administration's Bureau of Transportation Statistics (Rita/Bts)	2012	24000	Transportation Data
Water Bodies	Atlanta Regional Commission	2013	24000	Water Area Data

6.3 Floodplain and Floodway Delineation

The FIRM shows tints, screens, and symbols to indicate floodplains and floodways as well as the locations of selected cross sections used in the hydraulic analyses and floodway computations.

For riverine flooding sources, the mapped floodplain boundaries shown on the FIRM have been delineated using the flood elevations determined at each cross section; between cross sections, the boundaries were interpolated using the topographic elevation data described in Table 23.

In cases where the 1% and 0.2% annual chance floodplain boundaries are close together, only the 1% annual chance floodplain boundary has been shown. Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data.

The floodway widths presented in this FIS Report and on the FIRM were computed for certain stream segments on the basis of equal conveyance reduction from each side of the floodplain. Floodway widths were computed at cross sections. Between cross sections, the floodway boundaries were interpolated. Table 2 indicates the flooding sources for which floodways have been determined. The results of the floodway computations for those flooding sources have been tabulated for selected cross sections and are shown in Table 24, "Floodway Data."

Table 23: Summary of Topographic Elevation Data used in Mapping

Community	Flooding Source	Source for Topographic Elevation Data			
		Description	Scale	Contour Interval	Citation
Henry County and Incorporated Areas	All Within HUC 03070103	LiDAR Terrain Dataset for the Upper Flint Watershed, Georgia	1:24,000	2 ft	PhotoScience 2006
Henry County and Incorporated Areas	All Within HUC 03070103	LiDAR Terrain Dataset for the Upper Ocmulgee Watershed, Georgia	1:24,000	2 ft	PhotoScience 2006

BFEs shown at cross sections on the FIRM represent the 1% annual chance water surface elevations shown on the Flood Profiles and in the Floodway Data tables in the FIS Report.

Table 24: Floodway Data

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	443	202	2,038	7.1	613.5	599.4 ²	600.1	0.7
B	740	162	1,996	7.3	613.5	599.9 ²	600.6	0.7
C	1,682	277	2,331	6.2	613.5	600.8 ²	601.7	0.9
D	2,941	303	2,727	5.3	613.5	603.0 ²	603.6	0.6
E	3,543	330	2,549	5.7	613.5	603.3 ²	603.9	0.6
F	4,279	170	2,180	6.6	613.5	605.0 ²	605.6	0.6
G	5,169	141	1,881	7.7	613.5	605.6 ²	606.1	0.5
H	6,511	269	2,429	6.0	613.5	606.8 ²	607.5	0.7
I	7,921	194	2,373	6.1	613.5	607.8 ²	608.8	1.0
J	9,416	176	2,269	6.4	613.5	609.6 ²	610.6	1.0
K	11,034	210	2,602	5.6	613.5	611.9 ²	612.8	0.9
L	13,808	224	2,631	5.5	614.9	614.9	615.8	0.9
M	16,419	288	3,252	4.4	619.1	619.1	619.8	0.7
N	17,566	186	2,245	6.4	620.2	620.2	621.0	0.8
O	18,646	232	2,678	5.4	622.5	622.5	623.4	0.9
P	19,190	178	2,311	6.3	623.6	623.6	624.1	0.5
Q	20,114	150	1,925	7.5	625.4	625.4	626.0	0.6
R	21,135	155	2,130	6.8	627.4	627.4	628.3	0.9
S	22,202	150	1,688	8.6	629.9	629.9	630.6	0.7
T	22,988	125	1,544	9.4	633.0	633.0	633.7	0.7
U	23,777	209	2,469	5.8	636.0	636.0	636.6	0.6

¹Feet above confluence with South River

²Elevation computed without consideration of backwater effects from South River

TABLE 24

**FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
AND INCORPORATED AREAS**

FLOODWAY DATA

FLOODING SOURCE: BIG COTTON INDIAN CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	24,196	184	1,880	7.7	643.5	643.5	643.7	0.2
W	24,652	196	2,389	6.0	645.1	645.1	645.3	0.2
X	26,077	115	1,807	8.0	647.0	647.0	647.4	0.4
Y	26,759	164	1,973	7.3	648.7	648.7	649.4	0.7
Z	27,749	180	2,106	6.9	651.1	651.1	651.9	0.8
AA	28,340	188	2,360	6.1	652.5	652.5	653.3	0.8
AB	29,717	102	1,183	7.5	654.8	654.8	655.6	0.8
AC	30,327	177	1,928	4.6	657.1	657.1	657.7	0.6
AD	31,351	133	1,449	6.1	658.8	658.8	659.4	0.6
AE	33,241	103	1,370	6.5	662.1	662.1	663.0	0.9
AF	34,111	109	1,340	6.6	663.5	663.5	664.4	0.9
AG	35,426	106	1,419	6.2	665.8	665.8	666.7	0.9
AH	36,265	117	1,322	6.7	667.0	667.0	668.0	1.0
AI	36,992	133	1,489	5.9	668.8	668.8	669.6	0.8
AJ	37,720	154	1,561	5.7	670.2	670.2	670.8	0.6
AK	38,357	124	1,458	6.1	671.2	671.2	671.8	0.6
AL	39,242	85	1,305	6.8	672.3	672.3	672.8	0.5
AM	40,181	272	2,947	3.0	673.6	673.6	674.1	0.5
AN	41,554	290	2,327	3.8	674.8	674.8	675.6	0.8
AO	42,138	198	2,521	3.5	675.6	675.6	676.3	0.7
AP	42,618	120	1,249	7.1	683.2	683.2	683.3	0.1

¹Feet above confluence with South River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BIG COTTON INDIAN CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AQ	42,990	155	1,540	5.7	684.2	684.2	684.4	0.2
AR	43,959	129	1,542	5.7	685.7	685.7	686.4	0.7
AS	44,675	175	2,241	4.0	686.9	686.9	687.6	0.7
AT	45,513	145	1,837	4.8	687.7	687.7	688.6	0.9
AU	48,026	280	3,364	2.6	689.0	689.0	690.0	1.0
AV	51,456	699	8,647	1.0	690.1	690.1	691.0	0.9
AW	53,629	950	11,312	0.8	690.3	690.3	691.3	1.0
AX	55,545	1,284	13,444	0.7	690.4	690.4	691.4	1.0
AY	60,385	1,015	5,990	1.5	690.8	690.8	691.8	1.0
AZ	62,713	268	2,331	3.8	693.9	693.9	694.5	0.6
BA	64,017	625	7,256	1.2	698.5	698.5	698.6	0.1
BB	66,618	457	3,778	1.9	698.8	698.8	698.9	0.1
BC	67,627	270	2,985	2.4	700.8	700.8	700.9	0.1
BD	70,468	1,736	14,859	0.5	702.0	702.0	702.4	0.4
BE	71,026	1,968	16,836	0.4	702.0	702.0	702.4	0.4
BF	74,461	776	3,230	2.0	702.8	702.8	703.3	0.5
BG	74,915	336	2,808	2.3	705.3	705.3	705.5	0.2
BH	76,748	977	4,834	1.4	706.4	706.4	706.8	0.4
BI	79,604	1,166	4,153	1.6	708.1	708.1	709.0	0.9
BJ	82,124	523	2,248	2.8	713.2	713.2	713.8	0.6
BK	83,065	269	1,712	3.7	716.3	716.3	717.0	0.7

¹Feet above confluence with South River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BIG COTTON INDIAN CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BL	84,770	312	2,095	3.1	720.6	720.6	721.5	0.9
BM	86,205	209	2,161	2.9	723.3	723.3	724.3	1.0
BN	87,580	224	2,001	3.2	725.2	725.2	726.2	1.0
BO	89,042	275	2,474	2.6	726.5	726.5	727.4	0.9
BP	90,038	169	1,545	4.1	727.4	727.4	728.2	0.8
BQ	91,362	151	1,528	4.1	729.3	729.3	730.0	0.7
BR	92,426	161	1,269	4.7	733.1	733.1	733.4	0.3
BS	93,202	600	4,339	1.4	734.4	734.4	734.8	0.4
BT	95,063	183	1,261	4.8	735.5	735.5	736.4	0.9
BU	96,080	607	4,723	1.3	737.6	737.6	738.5	0.9
BV	96,738	332	2,055	2.9	738.9	738.9	739.5	0.6
BW	98,727	552	4,875	1.2	741.2	741.2	742.0	0.8
BX	100,926	749	4,395	1.0	741.5	741.5	742.3	0.8
BY	102,286	237	708	6.2	742.5	742.5	743.5	1.0

¹Feet above confluence with South River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

HENRY COUNTY, GA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BIG COTTON INDIAN CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,996	282	677	2.7	702.1	700.6 ²	702.0	0.4
B	3,495	226	782	2.4	703.0	703.0	703.8	0.8
C	4,664	285	732	2.3	705.3	705.3	706.1	0.8
D	4,771	281	1,712	1.0	709.0	709.0	709.8	0.8
E	5,505	281	1,190	1.4	709.3	709.3	710.1	0.8
F	6,812	262	764	2.2	713.4	713.4	714.2	0.8
G	7,174	244	725	2.3	715.0	715.0	715.6	0.6
H	7,991	190	599	2.8	718.0	718.0	718.6	0.6
I	9,007	188	717	2.3	719.9	719.9	720.7	0.8
J	9,449	211	564	2.9	721.4	721.4	722.0	0.6
K	10,472	234	647	2.2	726.1	726.1	726.8	0.7
L	11,498	114	338	4.2	729.6	729.6	729.8	0.2
M	12,588	170	521	2.3	735.6	735.6	736.2	0.6
N	12,673	145	488	2.5	736.4	736.4	736.8	0.4
O	13,235	42	193	6.3	738.3	738.3	738.6	0.3
P	13,425	45	211	5.8	739.3	739.3	739.9	0.6
Q	13,701	30	160	7.1	741.1	741.1	741.6	0.5
R	13,797	120	747	1.5	746.4	746.4	747.2	0.8
S	14,787	34	127	7.9	747.2	747.2	747.9	0.7
T	14,935	39	741	1.4	763.5	763.5	763.5	0.0
U	15,893	214	2,499	0.4	763.6	763.6	763.6	0.0

¹Feet above confluence with Big Cotton Indian Creek

²Elevation computed without consideration of backwater effects from Big Cotton Indian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BRUSH CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	15,964	197	2,105	0.5	763.6	763.6	763.6	0.0
W	17,001	120	751	1.0	763.6	763.6	763.6	0.0
X	17,212	92	563	1.3	763.9	763.9	764.5	0.6
Y	17,842	82	135	5.3	764.8	764.8	765.1	0.3
Z	18,112	97	235	3.0	767.6	767.6	768.0	0.4
AA	18,644	65	123	4.8	770.6	770.6	770.6	0.0
AB	18,738	200	624	1.0	774.1	774.1	774.5	0.4
AC	18,948	56	97	6.2	774.1	774.1	774.3	0.2
AD	19,046	48	137	4.4	775.3	775.3	775.5	0.2
AE	19,998	82	154	3.9	783.9	783.9	784.0	0.1
AF	20,228	53	102	5.4	785.0	785.0	785.0	0.0
AG	20,594	18	28	1.9	789.4	789.4	789.8	0.4
AH	20,637	23	53	1.0	793.8	793.8	793.9	0.1
AI	20,981	9	14	3.8	795.6	795.6	795.7	0.1
AJ	21,107	125	784	0.1	803.4	803.4	804.0	0.6
AK	21,769	34	86	1.7	803.4	803.4	804.0	0.6

¹Feet above confluence with Big Cotton Indian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BRUSH CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	806	123 / 122	575	4.5	631.7	622.5 ³	623.4	0.9
B	1,563	54 / 0	405	6.4	631.7	625.8 ³	626.8	1.0
C	2,437	36 / 0	261	10.0	635.0	635.0	635.9	0.9
D	3,371	30 / 30	185	14.1	649.3	649.3	649.3	0.0
E	4,245	132 / 29	540	4.5	668.0	668.0	668.1	0.1
F	4,477	134 / 90	779	3.1	668.9	668.9	668.9	0.0
G	6,242	68 / 36	482	5.0	671.1	671.1	671.9	0.8
H	7,163	69 / 25	329	7.4	672.8	672.8	673.6	0.8
I	7,541	99 / 41	635	3.8	675.4	675.4	676.2	0.8
J	8,316	225 / 13	1,352	1.8	676.8	676.8	677.6	0.8
K	10,186	124 / 111	590	4.1	680.8	680.8	681.7	0.9
L	10,442	86 / 86	540	4.5	681.6	681.6	682.5	0.9
M	11,723	67 / 5	384	5.7	684.9	684.9	685.7	0.8
N	12,147	40 / 25	305	7.2	685.8	685.8	686.6	0.8
O	13,038	100 / 32	426	5.1	690.2	690.2	691.2	1.0

¹Feet above confluence with South River

²Total width / Width within county

³Elevation computed without consideration of backwater effects from South River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

HENRY COUNTY, GA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: CAMP CREEK (COUNTY LINE)

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	658	430	1,369	2.0	698.6	692.6 ²	693.1	0.5
B	1,076	212	1,208	2.3	698.6	695.6 ²	695.6	0.0
C	1,650	518	2,801	1.0	698.6	695.9 ²	696.2	0.3
D	2,304	650	2,472	1.1	698.6	696.0 ²	696.4	0.4
E	3,053	504	1,926	1.4	698.6	696.8 ²	697.6	0.8
F	3,786	399	1,253	2.2	698.6	698.1 ²	699.0	0.9
G	4,072	225	1,051	2.6	699.3	699.3	700.2	0.9
H	4,738	103	729	3.8	702.9	702.9	703.7	0.8
I	6,008	586	3,408	0.2	703.6	703.6	704.6	1.0
J	7,290	500	1,861	0.4	703.6	703.6	704.6	1.0
K	8,142	277	714	1.1	704.0	704.0	704.9	0.9
L	8,755	220	328	2.3	706.6	706.6	707.3	0.7
M	9,275	225	518	1.5	707.9	707.9	708.7	0.8
N	9,684	76	262	2.8	709.2	709.2	710.0	0.8
O	9,918	117	299	2.4	710.2	710.2	711.0	0.8
P	10,150	326	1,209	0.6	712.0	712.0	712.5	0.5
Q	10,430	500	2,358	0.3	712.0	712.0	712.5	0.5
R	10,796	475	1,705	0.4	712.1	712.1	712.5	0.4
S	11,524	180	563	1.3	712.3	712.3	712.8	0.5
T	12,176	267	604	1.2	712.8	712.8	713.5	0.7
U	13,080	257	560	1.3	714.6	714.6	715.3	0.7

¹Feet above confluence with Big Cotton Indian Creek

²Elevation computed without consideration of backwater effects from Big Cotton Indian Creek

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY HENRY COUNTY, GA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: JAMES CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	13,469	242	476	1.5	716.3	716.3	716.8	0.5
W	13,999	329	753	0.8	718.9	718.9	719.1	0.2
X	14,825	1,195	8,387	0.1	734.9	734.9	735.6	0.7
Y	16,215	618	4,374	0.3	734.9	734.9	735.6	0.7
Z	17,071	503	3,534	0.3	734.9	734.9	735.6	0.7
AA	17,457	418	2,940	0.4	734.9	734.9	735.6	0.7
AB	17,991	382	1,054	1.2	735.0	735.0	735.7	0.7
AC	18,531	143	387	3.3	735.7	735.7	736.4	0.7
AD	18,979	322	889	1.4	738.1	738.1	738.2	0.1

¹Feet above the confluence with Big Cotton Indian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: JAMES CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	734	719	2,392	0.5	728.2	728.2	728.3	0.1
B	832	468	1,627	0.7	728.6	728.6	729.2	0.6
C	1,042	275	672	1.6	728.7	728.7	729.2	0.5
D	1,393	148	324	3.3	729.2	729.2	729.8	0.6
E	1,759	116	354	3.0	731.1	731.1	732.0	0.9
F	2,138	79	271	4.0	732.9	732.9	733.8	0.9
G	2,482	64	296	3.6	734.6	734.6	735.3	0.7
H	2,748	48	179	5.1	735.5	735.5	736.1	0.6
I	2,929	61	207	4.4	736.5	736.5	736.8	0.3
J	3,028	68	356	2.5	739.0	739.0	739.8	0.8
K	3,403	57	245	3.7	739.3	739.3	740.2	0.9
L	3,857	54	236	3.9	740.7	740.7	741.5	0.8
M	3,953	80	397	2.3	745.6	745.6	745.6	0.0
N	4,438	70	333	2.7	745.9	745.9	746.1	0.2
O	4,758	63	235	3.9	746.3	746.3	747.1	0.8
P	4,963	30	166	5.5	748.0	748.0	748.5	0.5
Q	5,266	37	168	3.2	750.0	750.0	750.8	0.8
R	5,597	22	87	6.1	751.3	751.3	751.8	0.5
S	5,676	40	287	1.9	756.8	756.8	757.6	0.8
T	5,834	54	351	1.5	756.9	756.9	757.7	0.8

¹Feet above confluence with Rum Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: LINE CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
U	6,494	25	68	7.8	759.0	759.0	759.0	0.0
V	6,785	20	92	5.8	763.5	763.5	763.6	0.1
W	7,098	25	137	3.9	765.9	765.9	766.2	0.3
X	7,305	18	74	7.2	767.0	767.0	767.4	0.4
Y	7,595	22	117	4.6	771.2	771.2	771.3	0.1
Z	7,873	30	139	2.3	772.4	772.4	772.6	0.2
AA	8,129	25	81	3.9	773.6	773.6	773.7	0.1
AB	8,158	24	42	7.5	774.5	774.5	774.5	0.0
AC	8,258	30	239	1.3	782.0	782.0	782.6	0.6
AD	8,374	29	204	1.6	782.0	782.0	782.6	0.6
AE	8,606	335	1,514	0.2	796.8	796.8	796.9	0.1
AF	9,535	103	446	0.7	796.8	796.8	797.0	0.2
AG	10,100	28	77	4.1	796.8	796.8	797.1	0.3
AH	10,191	42	269	1.2	805.2	805.2	806.1	0.9
AI	10,280	53	279	1.1	805.2	805.2	806.2	1.0

¹Feet above confluence with Rum Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: LINE CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	210	136	1,348	5.1	653.4	653.4	653.9	0.5
B	416	172	1,432	4.8	653.8	653.8	654.3	0.5
C	640	107	1,173	5.9	654.3	654.3	654.6	0.3
D	1,332	119	1,235	5.6	655.8	655.8	656.4	0.6
E	1,691	120	1,310	5.3	656.7	656.7	657.6	0.9
F	2,038	158	1,384	5.0	657.8	657.8	658.5	0.7
G	2,814	150	1,149	6.0	659.8	659.8	660.7	0.9
H	3,500	205	1,852	3.7	661.3	661.3	662.2	0.9
I	4,500	118	1,646	4.2	663.8	663.8	664.5	0.7
J	5,001	107	1,368	5.0	664.5	664.5	665.3	0.8
K	5,313	111	1,396	4.9	665.2	665.2	665.9	0.7
L	6,184	117	1,533	4.5	667.2	667.2	668.0	0.8
M	6,648	147	1,523	4.5	667.9	667.9	668.7	0.8
N	6,940	153	1,760	3.9	668.2	668.2	669.2	1.0
O	7,372	152	1,701	4.1	668.5	668.5	669.5	1.0
P	7,472	158	1,782	3.9	668.7	668.7	669.7	1.0
Q	7,608	137	1,833	3.8	668.9	668.9	669.8	0.9
R	8,218	139	1,560	4.4	669.3	669.3	670.2	0.9
S	8,601	128	1,476	4.7	669.9	669.9	670.7	0.8
T	8,986	130	1,442	4.8	670.8	670.8	671.5	0.7
U	9,812	138	1,614	4.3	671.8	671.8	672.8	1.0

¹Feet above confluence with Big Cotton Indian Creek

TABLE 24

**FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
AND INCORPORATED AREAS**

FLOODWAY DATA

FLOODING SOURCE: LITTLE COTTON INDIAN CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	10,559	173	2,241	3.1	673.0	673.0	673.9	0.9
W	10,872	215	2,597	2.6	673.2	673.2	674.1	0.9
X	12,131	192	2,029	3.4	673.3	673.3	674.3	1.0
Y	12,227	117	1,410	4.9	673.3	673.3	674.2	0.9
Z	12,297	120	1,452	4.7	673.4	673.4	674.3	0.9
AA	12,406	80	1,123	6.1	673.5	673.5	674.4	0.9
AB	12,879	180	2,012	3.4	674.6	674.6	675.4	0.8
AC	13,674	228	2,384	2.9	675.2	675.2	676.1	0.9
AD	14,297	195	1,929	3.6	675.6	675.6	676.6	1.0
AE	14,600	207	1,795	3.8	675.9	675.9	676.8	0.9
AF	15,841	116	1,520	4.5	677.9	677.9	678.8	0.9
AG	16,450	276	2,695	2.5	678.6	678.6	679.5	0.9
AH	16,801	275	2,262	3.0	678.8	678.8	679.7	0.9
AI	17,162	126	1,633	4.2	679.0	679.0	680.0	1.0
AJ	17,389	110	1,479	4.7	679.3	679.3	680.2	0.9
AK	17,621	109	1,481	4.6	679.6	679.6	680.6	1.0
AL	17,804	107	1,395	4.9	680.0	680.0	680.9	0.9
AM	18,615	135	1,601	4.3	681.2	681.2	682.1	0.9
AN	19,188	146	1,644	4.2	682.0	682.0	682.9	0.9
AO	20,079	290	2,613	2.6	682.9	682.9	683.9	1.0
AP	20,345	181	1,885	3.7	683.0	683.0	683.9	0.9

¹Feet above confluence with Big Cotton Indian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: LITTLE COTTON INDIAN CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AQ	20,646	140	1,458	4.7	683.4	683.4	684.3	0.9
AR	20,819	145	1,586	4.3	683.8	683.8	684.8	1.0
AS	20,996	141	1,782	3.9	683.9	683.9	684.9	1.0
AT	22,233	129	1,651	4.0	685.1	685.1	686.1	1.0
AU	22,896	213	2,330	2.8	686.1	686.1	687.1	1.0
AV	23,865	170	1,996	3.3	687.2	687.2	688.1	0.9
AW	24,753	138	1,601	4.1	688.3	688.3	689.2	0.9
AX	25,051	220	2,625	2.5	689.0	689.0	689.7	0.7
AY	25,939	162	2,053	3.2	689.4	689.4	690.3	0.9
AZ	26,492	163	2,131	3.1	689.8	689.8	690.7	0.9
BA	26,572	174	2,178	3.0	689.8	689.8	690.8	1.0
BB	26,674	203	2,055	3.2	689.9	689.9	690.8	0.9
BC	26,898	152	1,796	3.7	689.9	689.9	690.8	0.9
BD	27,194	163	1,159	5.7	692.0	692.0	692.0	0.0
BE	27,670	870	5,911	1.1	692.7	692.7	692.8	0.1
BF	29,568	1,175	8,175	0.8	693.0	693.0	693.1	0.1
BG	32,948	456	3,289	2.0	693.1	693.1	693.2	0.1
BH	33,056	565	3,932	1.7	693.2	693.2	693.2	0.0
BI	33,621	119	1,317	5.0	693.2	693.2	693.3	0.1
BJ	35,085	205	1,388	4.7	695.2	695.2	695.2	0.0
BK	35,240	185	1,286	5.1	695.4	695.4	695.5	0.1

¹Feet above confluence with Big Cotton Indian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: LITTLE COTTON INDIAN CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BL	35,360	185	1,401	4.7	695.9	695.9	696.1	0.2
BM	36,414	414	3,300	1.6	696.7	696.7	697.3	0.6
BN	38,140	259	1,709	3.0	697.6	697.6	698.5	0.9
BO	39,835	315	1,697	3.0	698.6	698.6	699.5	0.9
BP	40,003	50	365	14.0	698.8	698.8	698.9	0.1
BQ	40,094	250	2,216	2.3	701.7	701.7	702.4	0.7
BR	40,641	387	3,142	1.6	702.2	702.2	703.0	0.8
BS	42,256	140	1,055	4.8	703.4	703.4	704.2	0.8
BT	42,411	127	1,181	4.3	704.4	704.4	705.0	0.6
BU	42,653	370	3,062	1.7	704.9	704.9	705.6	0.7
BV	43,930	930	7,194	0.7	705.5	705.5	706.4	0.9

¹Feet above confluence with Big Cotton Indian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: LITTLE COTTON INDIAN CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	535	207	699	5.0	741.3	739.4 ²	740.1	0.8
B	717	215	1,067	3.2	741.3	741.3	741.6	0.3
C	955	186	1,038	3.3	741.4	741.4	742.4	1.0
D	1,231	156	1,018	3.4	742.0	742.0	743.0	1.0
E	1,476	193	1,044	3.3	742.8	742.8	743.6	0.8
F	1,800	147	922	3.8	743.8	743.8	744.7	0.9
G	1,909	131	847	4.1	744.3	744.3	745.1	0.8
H	2,273	223	1,670	2.1	745.1	745.1	746.0	0.9
I	2,808	299	2,171	1.6	745.7	745.7	746.7	1.0
J	3,260	224	1,477	2.3	746.2	746.2	747.1	0.9
K	3,641	180	1,024	3.4	746.8	746.8	747.7	0.9
L	3,822	213	1,349	2.6	747.5	747.5	748.2	0.7
M	4,285	75	568	6.1	748.0	748.0	749.0	1.0
N	4,418	81	753	4.6	750.3	750.3	750.8	0.5
O	4,519	84	830	4.2	750.7	750.7	751.0	0.3
P	4,661	83	752	4.6	750.8	750.8	751.1	0.3

¹Feet above confluence with Big Cotton Indian Creek

²Elevation computed without consideration of backwater effects from Big Cotton Indian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

HENRY COUNTY, GA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: PANTHER CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,582	341	868	2.4	696.4	693.7 ²	693.8	0.1
B	1,744	390	947	2.2	696.4	694.1 ²	694.3	0.2
C	1,990	390	1,213	1.7	696.4	694.5 ²	694.6	0.1
D	3,882	183	771	2.7	698.8	698.8	699.6	0.8
E	3,936	108	537	3.9	698.9	698.9	699.7	0.8
F	4,129	108	592	3.5	700.6	700.6	700.7	0.1
G	4,811	345	1,553	1.3	701.3	701.3	701.9	0.6
H	6,760	159	782	2.5	702.6	702.6	703.4	0.8
I	6,854	147	711	2.8	702.8	702.8	703.6	0.8
J	7,459	181	874	2.3	704.1	704.1	704.9	0.8
K	7,994	185	890	2.2	704.8	704.8	705.8	1.0
L	8,283	168	732	2.7	705.9	705.9	706.5	0.6
M	8,639	85	354	5.6	706.7	706.7	707.1	0.4
N	8,966	95	514	3.8	708.0	708.0	708.3	0.3
O	9,376	81	441	4.5	708.7	708.7	709.0	0.3
P	9,499	80	621	3.2	711.7	711.7	712.4	0.7
Q	9,841	498	3,343	0.6	711.9	711.9	712.8	0.9
R	9,927	559	3,687	0.5	711.9	711.9	712.8	0.9
S	11,174	176	1,078	1.8	712.1	712.1	713.0	0.9
T	12,454	144	624	2.9	712.5	712.5	713.4	0.9

¹Feet above confluence with Little Cotton Indian Creek

²Elevation computed without consideration of backwater effects from Little Cotton Indian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

HENRY COUNTY, GA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: PATES CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
U	12,754	82	683	2.6	713.1	713.1	714.0	0.9
V	13,103	63	533	3.4	713.5	713.5	714.3	0.8
W	13,330	67	545	3.3	714.7	714.7	715.3	0.6
X	13,596	64	593	3.0	716.1	716.1	716.4	0.3
Y	15,361	368	965	1.8	716.9	716.9	717.6	0.7
Z	16,729	60	372	4.7	721.4	721.4	722.3	0.9
AA	17,263	73	480	3.7	723.6	723.6	724.0	0.4
AB	17,737	91	711	2.5	724.3	724.3	724.6	0.3
AC	18,343	74	709	2.5	724.6	724.6	725.1	0.5
AD	18,457	74	649	2.7	725.1	725.1	725.5	0.4
AE	19,948	59	540	3.2	725.7	725.7	726.6	0.9
AF	20,082	60	422	4.3	726.4	726.4	727.2	0.8
AG	20,749	37	274	6.4	727.1	727.1	727.7	0.6
AH	21,374	34	301	5.8	728.1	728.1	728.9	0.8
AI	22,072	43	415	4.2	729.2	729.2	729.8	0.6
AJ	22,842	53	421	4.2	730.2	730.2	730.8	0.6
AK	23,660	34	300	5.4	734.1	734.1	734.3	0.2
AL	23,935	64	464	3.5	735.2	735.2	735.4	0.2

¹Feet above confluence with Little Cotton Indian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

HENRY COUNTY, GA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: PATES CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AM	24,960	34	348	4.7	738.4	738.4	739.0	0.6
AN	25,822	41	365	4.4	740.0	740.0	740.8	0.8
AO	26,925	36	316	5.1	742.4	742.4	743.0	0.6
AP	27,160	59	496	3.3	743.7	743.7	744.1	0.4
AQ	27,413	33	303	5.3	743.9	743.9	744.3	0.4

¹Feet above confluence with Little Cotton Indian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: PATES CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	908	569	3,372	1.1	705.6	705.6	706.5	0.9
B	1,473	508	2,617	1.5	705.9	705.9	706.8	0.9
C	2,452	59	422	8.6	707.6	707.6	708.2	0.6
D	2,580	60	623	5.8	711.8	711.8	711.8	0.0
E	3,212	415	2,916	1.2	712.4	712.4	712.8	0.4
F	5,172	425	1,685	2.1	713.4	713.4	714.2	0.8
G	5,259	378	1,828	1.9	713.5	713.5	714.4	0.9
H	5,374	450	3,995	0.9	717.3	717.3	717.6	0.3
I	6,237	773	3,914	0.9	717.4	717.4	717.6	0.2
J	8,021	218	505	6.9	718.4	718.4	719.0	0.6
K	8,465	202	939	3.4	721.6	721.6	722.4	0.8
L	8,904	61	666	4.9	722.1	722.1	723.0	0.9
M	9,061	81	1,283	2.5	729.7	729.7	730.4	0.7
N	9,663	128	1,514	2.1	729.7	729.7	730.5	0.8
O	10,138	162	1,317	2.5	730.0	730.0	730.8	0.8
P	11,797	118	916	3.5	732.0	732.0	732.8	0.8
Q	12,236	148	786	4.1	733.4	733.4	734.2	0.8
R	12,563	172	966	3.4	735.1	735.1	736.0	0.9
S	13,112	176	1,152	2.8	737.1	737.1	738.0	0.9
T	13,437	118	793	4.1	737.8	737.8	738.7	0.9
U	14,356	94	756	4.3	741.8	741.8	742.7	0.9

¹Feet above confluence with Little Cotton Indian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: REEVES CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	14,771	296	2,268	1.4	742.7	742.7	743.6	0.9
W	16,375	51	386	7.4	745.1	745.1	746.0	0.9
X	16,483	51	491	5.8	746.5	746.5	747.1	0.6
Y	16,753	71	866	3.3	750.1	750.1	750.8	0.7
Z	16,955	56	582	4.9	750.3	750.3	751.0	0.7
AA	17,426	93	1,190	2.4	754.6	754.6	755.4	0.8
AB	18,090	270	3,073	0.9	754.8	754.8	755.6	0.8
AC	19,966	241	1,816	1.5	755.0	755.0	756.0	1.0
AD	20,500	330	2,055	1.3	755.2	755.2	756.2	1.0
AE	20,592	347	2,284	1.2	755.3	755.3	756.2	0.9
AF	20,717	327	3,967	0.7	762.4	762.4	763.4	1.0
AG	22,354	244	1,905	1.4	762.5	762.5	763.5	1.0
AH	24,058	32	253	9.4	764.7	764.7	764.7	0.0
AI	24,353	75	593	4.0	769.0	769.0	769.0	0.0
AJ	24,477	100	797	3.0	769.2	769.2	769.2	0.0
AK	25,077	48	323	7.3	772.4	772.4	772.6	0.2
AL	25,110	55	496	4.8	777.3	777.3	778.2	0.9
AM	26,029	82	558	4.2	780.3	780.3	780.8	0.5
AN	26,136	122	925	2.6	784.0	784.0	784.9	0.9
AO	26,413	88	645	3.7	784.1	784.1	785.0	0.9
AP	27,172	399	2,235	1.1	785.4	785.4	786.1	0.7

¹Feet above confluence with Little Cotton Indian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: REEVES CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AQ	27,774	151	582	4.1	786.1	786.1	786.8	0.7

¹Feet above confluence with Little Cotton Indian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: REEVES CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	297	28	71	7.2	763.4	763.4	763.6	0.2
B	534	38	97	5.2	779.5	779.5	779.5	0.0
C	1,226	63	162	3.1	790.8	790.8	791.3	0.5
D	2,585	32	110	4.6	803.2	803.2	804.2	0.9
E	3,503	33	127	4.0	813.5	813.5	814.2	0.8

¹Feet above confluence with Reeves Creek

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY HENRY COUNTY, GA AND INCORPORATED AREAS	FLOODWAY DATA
		FLOODING SOURCE: REEVES CREEK TRIBUTARY 9

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	786	440	3,073	0.7	705.5	705.5	706.4	0.9
B	1,085	315	1,994	1.1	705.6	705.6	706.5	0.9
C	1,836	316	1,750	1.3	705.9	705.9	706.9	1.0
D	2,331	330	1,713	1.3	706.2	706.2	707.2	1.0
E	3,194	71	454	5.0	707.4	707.4	708.3	0.9
F	3,386	74	604	3.7	708.2	708.2	709.0	0.8
G	3,799	333	1,886	1.2	708.7	708.7	709.6	0.9
H	4,973	413	1,909	1.2	709.5	709.5	710.4	0.9
I	7,207	35	295	7.7	712.0	712.0	712.7	0.7
J	7,342	53	527	4.3	713.1	713.1	713.8	0.7
K	7,792	59	534	4.2	715.6	715.6	715.7	0.1
L	8,594	62	392	5.8	715.6	715.6	716.3	0.7
M	8,697	55	575	3.9	719.1	719.1	719.1	0.0
N	9,481	280	1,674	1.4	719.2	719.2	719.5	0.3
O	9,959	260	1,263	1.8	719.2	719.2	719.6	0.4
P	10,039	270	1,241	1.8	719.4	719.4	719.8	0.4
Q	10,401	310	1,547	1.5	719.6	719.6	720.1	0.5
R	11,844	64	439	4.3	720.6	720.6	721.2	0.6
S	12,708	64	521	3.6	723.5	723.5	723.8	0.3
T	14,489	39	425	4.1	726.9	726.9	727.1	0.2

¹Feet above confluence with Little Cotton Indian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: RUM CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
U	15,165	46	399	4.4	727.9	727.9	728.2	0.3
V	15,904	49	487	3.6	731.4	731.4	731.4	0.0
W	16,721	46	513	3.4	732.6	732.6	732.7	0.1
X	16,866	36	355	4.9	732.8	732.8	732.8	0.0
Y	17,136	44	562	3.1	733.6	733.6	733.6	0.0
Z	17,368	44	546	3.2	733.8	733.8	733.9	0.1
AA	17,620	37	439	4.0	734.0	734.0	734.2	0.2
AB	18,263	49	234	7.4	735.6	735.6	735.9	0.3
AC	18,591	50	338	5.1	738.9	738.9	739.1	0.2
AD	18,810	50	372	4.6	739.9	739.9	740.1	0.2
AE	20,245	44	339	5.0	742.9	742.9	743.6	0.7
AF	20,539	95	499	3.4	743.8	743.8	744.7	0.9
AG	20,612	76	535	3.1	744.3	744.3	745.0	0.7
AH	20,878	66	342	4.9	744.6	744.6	745.3	0.7
AI	21,122	45	157	10.7	748.3	748.3	748.3	0.0
AJ	21,427	50	164	10.3	784.5	784.5	784.5	0.0
AK	22,457	2,295	14,159	0.1	786.2	786.2	786.3	0.1
AL	23,462	1,890	11,869	0.1	786.2	786.2	786.3	0.1

¹Feet above confluence with Little Cotton Indian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

HENRY COUNTY, GA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: RUM CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	112,200	408 / 268	7,058	2.8	614.1	614.1	614.7	0.6
B	114,840	383 / 53	4,811	4.1	614.7	614.7	615.3	0.6
C	118,300	167 / 57	2,533	7.8	616.8	616.8	617.6	0.8
D	120,650	320 / 215	3,261	6.1	619.2	619.2	620.0	0.8
E	121,900	326 / 226	3,797	5.2	620.5	620.5	621.3	0.8
F	123,000	417 / 57	4,721	4.2	621.4	621.4	622.2	0.8
G	124,900	1,238 / 148	10,620	1.8	622.4	622.4	623.2	0.8
H	127,850	652 / 32	4,045	4.8	623.1	623.1	624.0	0.9
I	130,000	1,168 / 678	9,036	2.2	625.2	625.2	626.0	0.8
J	130,800	367 / 117	3,565	5.5	625.2	625.2	625.9	0.7
K	132,200	141 / 101	2,103	9.2	626.1	626.1	626.9	0.8
L	133,300	190 / 23	2,923	6.7	628.1	628.1	629.1	1.0
M	136,200	213 / 63	3,434	5.7	630.1	630.1	631.0	0.9
N	138,500	663 / 72	6,582	3.0	631.6	631.6	632.5	0.9

¹Feet above confluence with Yellow River

²Total width/ Width within county

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

HENRY COUNTY, GA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SOUTH RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	54,526	199	1,647	4.3	694.8	694.8	695.8	1.0
B	55,843	184	1,534	4.6	698.6	698.6	699.3	0.7
C	58,215	530	2,843	2.5	704.0	704.0	704.2	0.2
D	59,149	189	1,304	5.4	705.0	705.0	705.7	0.7
E	59,407	149	1,398	5.1	706.1	706.1	706.7	0.6
F	60,316	138	1,166	6.1	707.9	707.9	708.5	0.6
G	61,639	276	3,985	1.8	711.3	711.3	712.1	0.8
H	62,046	454	10,551	0.7	728.0	728.0	728.3	0.3
I	68,017	159	1,189	6.0	728.9	728.9	729.1	0.2
J	68,494	133	1,198	5.9	730.3	730.3	730.6	0.3
K	70,963	220	1,749	4.1	734.6	734.6	735.4	0.8
L	71,136	141	1,361	5.2	736.0	736.0	736.0	0.0
M	74,321	119	1,287	5.5	740.8	740.8	741.6	0.8
N	74,603	48	1,048	6.8	745.0	745.0	745.3	0.3
O	78,580	289	3,027	2.3	746.8	746.8	747.4	0.6
P	79,867	84	886	8.0	747.7	747.7	748.1	0.4
Q	80,067	211	1,908	3.7	749.9	749.9	749.9	0.0
R	81,272	290	2,530	2.8	751.6	751.6	751.9	0.3
S	82,532	410	3,105	1.4	752.7	752.7	753.3	0.6
T	84,235	203	1,705	2.5	754.1	754.1	754.8	0.7
U	86,772	343	1,577	2.7	756.7	756.7	757.6	0.9

¹Feet above confluence with South River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: WALNUT CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FT NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FT)	SECTION AREA (SQ. FT)	MEAN VELOCITY (FT / SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	88,002	275	1,429	2.9	758.9	758.9	759.8	0.9
W	88,170	160	1,154	3.6	761.4	761.4	761.4	0.0
X	89,094	300	1,309	2.7	762.1	762.1	762.3	0.2
Y	90,546	166	1,125	3.1	766.0	766.0	766.8	0.8
Z	90,751	86	870	4.0	767.5	767.5	768.1	0.6
AA	92,385	205	1,532	2.3	768.8	768.8	769.6	0.8
AB	94,104	116	653	5.3	770.6	770.6	771.6	1.0
AC	94,213	116	756	4.6	771.6	771.6	772.2	0.6
AD	96,357	160	730	4.8	775.5	775.5	776.0	0.5

¹Feet above confluence with South River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
HENRY COUNTY, GA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: WALNUT CREEK

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams
[Not Applicable to this Flood Risk Project]

6.4 Coastal Flood Hazard Mapping

This section is not applicable to this Flood Risk Project.

Table 26: Summary of Coastal Transect Mapping Considerations
[Not Applicable to this Flood Risk Project]

6.5 FIRM Revisions

This FIS Report and the FIRM are based on the most up-to-date information available to FEMA at the time of its publication; however, flood hazard conditions change over time. Communities or private parties may request flood map revisions at any time. Certain types of requests require submission of supporting data. FEMA may also initiate a revision. Revisions to Flood Risk Projects may take several forms, including Letters of Map Amendment (LOMAs), Letters of Map Revision Based on Fill (LOMR-Fs), Letters of Map Revision (LOMRs) (referred to collectively as Letters of Map Change (LOMCs)), Physical Map Revisions (PMRs), and FEMA-contracted restudies. These types of revisions are further described below. Some of these types of revisions do not result in the republishing of the FIS Report. To assure that any user is aware of all revisions, it is advisable to contact the community repository of flood-hazard data (shown in Table 31, “Map Repositories”).

6.5.1 Letters of Map Amendment

A LOMA is an official revision by letter to an effective NFIP map. A LOMA results from an administrative process that involves the review of scientific or technical data submitted by the owner or lessee of property who believes the property has incorrectly been included in a designated SFHA. A LOMA amends the currently effective FEMA map and establishes that a specific property is not located in a SFHA.

To obtain an application for a LOMA, visit <http://www.fema.gov> and download the form “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill”. Visit the “Flood Map-Related Fees” section to determine the cost, if any, of applying for a LOMA.

FEMA offers a tutorial on how to apply for a LOMA. The LOMA Tutorial Series can be accessed at http://www.fema.gov/plan/prevent/fhm/ot_lmreq.shtm.

For more information about how to apply for a LOMA, call the FEMA Map Information eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627).

6.5.2 Letters of Map Revision Based on Fill

A LOMR-F is an official revision by letter to an effective NFIP map. A LOMR-F states FEMA’s determination concerning whether a structure or parcel has been elevated on fill above the base flood elevation and is, therefore, excluded from the SFHA.

Information about obtaining an application for a LOMR-F can be obtained in the same manner as that for a LOMA, by visiting <http://www.fema.gov> for the “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill” or by calling the FEMA Map Information eXchange, toll free, at 1-877-FEMA MAP (1-877-336-2627). Fees for applying for a LOMR-F, if any, are listed in the “Flood Map-Related Fees” section.

A tutorial for LOMR-F is available at http://www.fema.gov/plan/prevent/fhm/ot_lmreq.shtm.

6.5.3 Letters of Map Revision

A LOMR is an official revision to the currently effective FEMA map. It is used to change flood zones, floodplain and floodway delineations, flood elevations and planimetric features. All requests for LOMRs should be made to FEMA through the chief executive officer of the community, since it is the community that must adopt any changes and revisions to the map. If the request for a LOMR is not submitted through the chief executive officer of the community, evidence must be submitted that the community has been notified of the request.

To obtain an application for a LOMR, visit <http://www.fema.gov> and download the form “MT-2 Application Forms and Instructions for Conditional Letters of Map Revision and Letters of Map Revision”. Visit the “Flood Map-Related Fees” section to determine the cost of applying for a LOMR. For more information about how to apply for a LOMR, call the FEMA Map Information eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627) to speak to a Map Specialist.

Previously issued mappable LOMCs (including LOMRs) that have been incorporated into the Henry County FIRM are listed in Table 27.

Table 27: Incorporated Letters of Map Change

[Not Applicable to this Flood Risk Project]

6.5.4 Physical Map Revisions

PMRs are an official republication of a community’s NFIP map to effect changes to base flood elevations, floodplain boundary delineations, regulatory floodways and planimetric features. These changes typically occur as a result of structural works or improvements, annexations resulting in additional flood hazard areas or correction to base flood elevations or SFHAs.

The community’s chief executive officer must submit scientific and technical data to FEMA to support the request for a PMR. The data will be analyzed and the map will be revised if warranted. The community is provided with copies of the revised information and is afforded a review period. When the base flood elevations are changed, a 90-day appeal period is provided. A 6-month adoption period for formal approval of the revised map(s) is also provided.

For more information about the PMR process, please visit <http://www.fema.gov> and visit the “Flood Map Revision Processes” section.

6.5.5 Contracted Restudies

The NFIP provides for a periodic review and restudy of flood hazards within a given community. FEMA accomplishes this through a national watershed-based mapping needs assessment strategy, known as the Coordinated Needs Management Strategy (CNMS). The CNMS is used by FEMA to assign priorities and allocate funding for new flood hazard analyses used to update the FIS Report and FIRM. The goal of CNMS is to define the validity of the engineering study data within a

mapped inventory. The CNMS is used to track the assessment process, document engineering gaps and their resolution, and aid in prioritization for using flood risk as a key factor for areas identified for flood map updates. Visit www.fema.gov to learn more about the CNMS or contact the FEMA Regional Office listed in Section 8 of this FIS Report.

6.5.6 Community Map History

The current FIRM presents flooding information for the entire geographic area of Henry County. Previously, separate FIRMs, Flood Hazard Boundary Maps (FHBM) and/or Flood Boundary and Floodway Maps (FBFM) may have been prepared for the incorporated communities and the unincorporated areas in the county that had identified SFHAs. Current and historical data relating to the maps prepared for the project area are presented in Table 28, "Community Map History." A description of each of the column headings and the source of the date is also listed below.

- *Community Name* includes communities falling within the geographic area shown on the FIRM, including those that fall on the boundary line, nonparticipating communities, and communities with maps that have been rescinded. Communities with No Special Flood Hazards are indicated by a footnote. If all maps (FHBM, FBFM, and FIRM) were rescinded for a community, it is not listed in this table unless SFHAs have been identified in this community.
- *Initial Identification Date (First NFIP Map Published)* is the date of the first NFIP map that identified flood hazards in the community. If the FHBM has been converted to a FIRM, the initial FHBM date is shown. If the community has never been mapped, the upcoming effective date or "pending" (for Preliminary FIS Reports) is shown. If the community is listed in Table 28 but not identified on the map, the community is treated as if it were unmapped.
- *Initial FHBM Effective Date* is the effective date of the first Flood Hazard Boundary Map (FHBM). This date may be the same date as the Initial NFIP Map Date.
- *FHBM Revision Date(s)* is the date(s) that the FHBM was revised, if applicable.
- *Initial FIRM Effective Date* is the date of the first effective FIRM for the community. This is the first effective date that is shown on the FIRM panel.
- *FIRM Revision Date(s)* is the date(s) the FIRM was revised, if applicable. This is the revised date that is shown on the FIRM panel, if applicable. As countywide studies are completed or revised, each community listed should have its FIRM dates updated accordingly to reflect the date of the countywide study. Once the FIRMs exist in countywide format, as Physical Map Revisions (PMR) of FIRM panels within the county are completed, the FIRM Revision Dates in the table for each community affected by the PMR are updated with the date of the PMR, even if the PMR did not revise all the panels within that community.

The initial effective date for the Henry County FIRMs in countywide format was 5/16/2006.

Table 28: Community Map History

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
City of Hampton	5/16/2006	N/A	N/A	5/16/2006	10/6/2016
City of Locust Grove	5/16/2006	N/A	N/A	5/16/2006	10/6/2016
City of McDonough	4/11/1975	4/11/1975	12/28/1979	6/1/2004	10/6/2016 5/16/2006
City of Stockbridge	2/27/1976	2/27/1976	N/A	6/15/1983	10/6/2016 5/16/2006
Henry County Unincorporated Areas	8/4/1978	8/4/1978	N/A	11/2/1983	10/6/2016 5/16/2006

SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION

7.1 Contracted Studies

Table 29 provides a summary of the contracted studies, by flooding source, that are included in this FIS Report.

Table 29: Summary of Contracted Studies Included in this FIS Report

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Bear Creek and Bear Creek Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	City of Hampton, Henry County Unincorporated Areas
Bethlehem Bottoms and Bethlehem Bottoms Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	City of Locust Grove, Henry County Unincorporated Areas
Big Cotton Indian Creek	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	9/27/2013	City of Stockbridge, Henry County Unincorporated Areas

Table 29: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Big Cotton Indian Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	City of Stockbridge, Henry County Unincorporated Areas
Birch Creek and Birch Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	City of McDonough, Henry County Unincorporated Areas
Brown Branch and Brown Branch Tributaries	10/06/16	Atkins, Atlanta Office	EMA-2011-CA-5087	5/17/2010	City of Locust Grove, Henry County Unincorporated Areas
Brush Creek	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	9/27/2013	City of Stockbridge, Henry County Unincorporated Areas
Brush Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Camp Creek (McDonough)	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	City of McDonough, Henry County Unincorporated Areas
Camp Creek (County Line)	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	9/27/2013	City of McDonough, Henry County Unincorporated Areas
Camp Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Cane Creek and Cane Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Clarks Creek and Clarks Creek Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas

Table 29: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Clear Creek and Clear Creek Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Coker Branch and Coker Branch Tributary	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Cook Branch Tributary 4	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Corn Creek and Corn Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Crittles Creek and Crittles Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Greer Branch and Greer Tributary	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Hambrick Creek and Hambrick Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Honey Creek and Honey Creek Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Indian Creek and Indian Creek Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	City of Locust Grove, Henry County Unincorporated Areas
Island Shoals Creek and Island Shoals Creek Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
James Creek	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	9/27/2013	Henry County Unincorporated Areas

Table 29: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
James Creek and James Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Kalves Creek and Kalves Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	City of McDonough, Henry County Unincorporated Areas
Line Creek	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	9/27/2013	Henry County Unincorporated Areas
Little Cotton Indian Creek	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	9/27/2013	City of Stockbridge, Henry County Unincorporated Areas
Little Cotton Indian Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	City of Stockbridge, Henry County Unincorporated Areas
Long Branch and Long Branch Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Mackey Creek and Mackey Creek Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Martin Creek and Martin Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Mill Creek and Mill Creek Tributary 1	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Mitchell Branch and Mitchell Branch Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas

Table 29: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Mountain Creek and Mountain Creek Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Nails Creek and Nails Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Panther Creek	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	9/27/2013	Henry County Unincorporated Areas
Panther Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Pates Creek	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	9/27/2013	City of Stockbridge, Henry County Unincorporated Areas
Pates Creek and Pates Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	City of Stockbridge, Henry County Unincorporated Areas
Peeksville Creek and Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Reeves Creek	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	9/27/2013	City of Stockbridge, Henry County Unincorporated Areas
Reeves Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	City of Stockbridge, Henry County Unincorporated Areas
Reeves Creek Tributary 9	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	City of Stockbridge, Henry County Unincorporated Areas

Table 29: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Rock Branch and Rock Branch Tributary	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Rum Creek	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	9/27/2013	City of Stockbridge, Henry County Unincorporated Areas
Rum Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	City of Stockbridge, Henry County Unincorporated Areas
Shoal Creek and Shoal Creek Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
South River	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	9/27/2013	Henry County Unincorporated Areas
South River Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Stanley Branch	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Thompson Creek and Thompson Creek Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	City of Hampton, Henry County Unincorporated Areas
Towaliga River and Towaliga River Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Tussahaw Branch and Tussahaw Branch Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	City of Hampton, Henry County Unincorporated Areas
Tussahaw Creek and Tussahaw Creek Tributaries	10/06/16	Atkins North America, Atlanta Office	EMA-2011-CA-5087	5/17/2010	City of McDonough, Henry County Unincorporated Areas

Table 29: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Ward Lake Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	5/17/2010	Henry County Unincorporated Areas
Walnut Creek and Walnut Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	9/27/2013	Henry County Unincorporated Areas
Walnut Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	9/27/2013	Henry County Unincorporated Areas
Wolf Creek and Wolf Creek Tributaries	10/06/16	Georgia Department of Natural Resources	EMA-2011-CA-5087	9/27/2013	Henry County Unincorporated Areas

7.2 Community Meetings

The dates of the community meetings held for this Flood Risk Project and any previous Flood Risk Projects are shown in Table 30. These meetings may have previously been referred to by a variety of names (Community Coordination Officer (CCO), Scoping, Discovery, etc.), but all meetings represent opportunities for FEMA, community officials, study contractors, and other invited guests to discuss the planning for and results of the project.

Table 30: Community Meetings

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Henry County and Incorporated Areas	05/16/2006	02/24/2004	Initial CCO	FEMA, Georgia DNR, Henry County, PBS&J, City of Hampton, City of Stockbridge
		06/07/2005	Final CCO	
Henry County and Incorporated Areas	10/06/2016	4/23/2015	Final CCO	City of Hampton, City of Locust Grove, City of McDonough, City of Stockbridge, Henry County Unincorporated Areas
		03/05/2012	Project Discovery	City of Hampton, City of Locust Grove, City of McDonough, City of Stockbridge, Henry County Unincorporated Areas
Henry County Unincorporated Areas	05/02/1983	06/12/1979	Initial CCO	FEMA, Henry County, Study Contractor
		04/12/1982	Intermediate CCO	
		12/10/1982	Final CCO	
City of Stockbridge	12/15/1982	06/12/1979	Initial CCO	City of Stockbridge, FEMA, Study Contractor
		10/29/1981	Intermediate CCO	
		03/04/1982	Final CCO	

SECTION 8.0 – ADDITIONAL INFORMATION

Information concerning the pertinent data used in the preparation of this FIS Report can be obtained by submitting an order with any required payment to the FEMA Engineering Library. For more information on this process, see <http://www.fema.gov>.

Table 31 is a list of the locations where FIRMs for Henry County can be viewed. Please note that the maps at these locations are for reference only and are not for distribution. Also, please note that only the maps for the community listed in the table are available at that particular repository. A user may need to visit another repository to view maps from an adjacent community.

Table 31: Map Repositories

Community	Address	City	State	Zip Code
City of Hampton	City Hall 17 East Main Street South	Hampton	GA	30228
Henry County Unincorporated Areas	Henry County Courthouse 140 Henry Parkway	McDonough	GA	30253
City of Locust Grove	City Hall 3644 Highway 42	Locust Grove	GA	30248
City of McDonough	City Hall 136 Keys Ferry Street	McDonough	GA	30253
City of Stockbridge	City Hall 4640 North Henry Boulevard	Stockbridge	GA	30281

The National Flood Hazard Layer (NFHL) dataset is a compilation of effective FIRM databases and LOMCs. Together they create a GIS data layer for a State or Territory. The NFHL is updated as studies become effective and extracts are made available to the public monthly. NFHL data can be viewed or ordered from the website shown in Table 32.

Table 32 contains useful contact information regarding the FIS Report, the FIRM, and other relevant flood hazard and GIS data. In addition, information about the state NFIP Coordinator and GIS Coordinator is shown in this table. At the request of FEMA, each Governor has designated an agency of State or territorial government to coordinate that State's or territory's NFIP activities. These agencies often assist communities in developing and adopting necessary floodplain management measures. State GIS Coordinators are knowledgeable about the availability and location of state and local GIS data in their state.

Table 32: Additional Information

FEMA and the NFIP	
FEMA and FEMA Engineering Library website	http://www.fema.gov
NFIP website	http://www.fema.gov/business/nfip
NFHL Dataset	http://msc.fema.gov
FEMA Region IV	3003 Chamblee Tucker Road Atlanta, GA 30341 (770) 220-5515
Other Federal Agencies	
USGS website	http://www.usgs.gov
Hydraulic Engineering Center website	http://www.hec.usace.army.mil
State Agencies and Organizations	
State NFIP Coordinator	State National Floodplain Insurance Program (NFIP) Coordinator Tom Shillock, CFM Georgia Department of Natural Resources 4220 International Parkway, Ste. 101 Atlanta, GA 30354 (404) 675-1607 Tom.Shillock@dnr.state.ga.us
State GIS Coordinator	State GIS Coordinator Lisa Westin Senior GIS Specialist Department of Community Affairs 60 Executive Park South, N.E. Atlanta, GA 30329 404-679-3125 lwestin@dca.state.ga.us

SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES

Table 33 includes sources used in the preparation of and cited in this FIS Report as well as additional studies that have been conducted in the study area.

Table 33: Bibliography and References

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Arc 2001	Annual Regional Commission	<i>Georgia Stormwater Management Manual</i>	Annual Regional Commission	Atlanta, GA	August 2001	
Cowan 1956	Agricultural Engineering	<i>Estimating Hydraulic Roughness Coefficients</i>	Cowan, W.L.		December 1955	
FEMA 2011	Federal Emergency Management Agency	<i>Guidelines and Specifications for Flood Hazard Mapping Partners, Appendix M</i>	FEMA	Washington, D.C.	August 2011	https://msc.fema.gov
FEMA 2014	Federal Emergency Management Agency	<i>Newton County, Georgia and Incorporated Areas FIS Report, 2014</i>	FEMA	Washington, D.C.	March 2014	https://msc.fema.gov
Henry County 1997	Henry County Government	<i>Digital Topography</i>	Henry County	Henry County, GA	April 1997	
Kirby, W.H. 1981	Agricultural Engineering	<i>Annual flood frequency analysis using U.S. Water Resources Council guidelines</i>	Kirby, W.H			
NARLSAS 2011	Natural Resources Spatial Analysis Laboratory	<i>Georgia Land Use Trends (GLUT), 2008</i>	Natural Resources Spatial Analysis Laboratory			http://narsal.uga.edu
Newton County 2003	Newton County Government	<i>Digital Topography</i>	Newton County	Newton County, GA		
NOAA 2003	National Oceanic and Atmospheric Administration	<i>Datum Conversion Points</i>	National Oceanic and Atmospheric Administration	Washington, D.C.	September 2003	http://vdatum.noaa.gov/

Table 33: Bibliography and References (continued)

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Photo Science Inc. 2006	Henry County Government	<i>Henry County LiDAR</i>	Henry County	Henry County, GA		
Photo Science Inc. 2007	Newton County Government	<i>Newton County Countywide Topographic LiDAR dataset</i>	Newton County	Newton County, GA	2007	
URS 2010	URS	<i>Henry County Floodplain Mapping Present and Future Conditions</i>	URS	Atlanta, GA	May 2010	
USACE 1998	U.S. Army Corps of Engineers	<i>HEC-1 Flood Hydrograph Package, Version 4.1</i>	USACE	Davis, California		
USACE 2001	U.S. Army Corps of Engineers	<i>HEC-GeoHMS, Version 1.0</i>	USACE	Davis, California	July 2001	
USACE 2003	U.S. Army Corps of Engineers	<i>HEC-RAS River Analysis System</i>	USACE	Davis, California	May 2003	
USACE 2004	U.S. Army Corps of Engineers	<i>HEC-RAS River Analysis System Version 4.1.0</i>	USACE	Davis, California	April 2004	
USACE 2004	U.S. Army Corps of Engineers	<i>HEC-GeoRAS, Version BETA 6.0</i>	USACE	Davis, California	April 2004	
USACE 2004	U.S. Army Corps of Engineers	<i>HEC-RAS River Analysis System Version 3.1.2</i>	USACE	Davis, California	April 2004	
USACE 2010	U.S. Army Corps of Engineers	<i>HEC-RAS River Analysis System Version 4.1.0</i>	USACE	Davis, California	April 2010	

Table 33: Bibliography and References *(continued)*

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS 1979	U.S. Geological Survey	<i>Floods in Georgia, Magnitude and Frequency</i>	USGS	Atlanta, GA		
USGS 1979	Georgia DNR	<i>Georgia Department of Natural Resources Cooperating Technical Partner Mapping Activity Statement, Yellow River Hydraulics Study</i>	Dewberry and Davis, LLC	Atlanta, GA		
USGS 2006a	U.S. Geological Survey	<i>User's manual for ANNIE, Version 2</i>	Flynn, Hummel, Lumb, Kittle	Atlanta, GA		
USGS 2006b	U.S. Geological Survey	<i>User's manual for Peak FQ, Annual Flood Frequency Analysis using 17B Guidelines</i>	Flynn, Hummel, Lumb, Kittle	Atlanta, GA		