



To: Honorable Mayor and City Council Members

From: John F. McDonough, City Manager

By: Nancy J. Leathers, AICP, Director, Community Development Department

A handwritten signature in black ink, appearing to read "N. Leathers", is written over the "By:" line.

Date: July 27, 2010 for Submission on August 17, 2010 City Council Meeting

Agenda Item: Memorandum of Agreement Between Georgia Department of Natural Resources and City of Sandy Springs Regarding the Georgia Flood Mapping Assessment and Planning Program

Director of Community Development Recommendation:

Agree as indicated by signature on Memorandum of Agreement to work with the Georgia DNR to participate in the Georgia Flood Mapping Assessment and Planning Program, including working with the GaDNR to produce Digital Flood Insurance Rate Maps (DFIRM) for the City of Sandy Springs.

Background:

Under a Cooperating Technical Partner Agreement with the Federal Emergency Management Agency (FEMA), the State of Georgia through the Department of Natural Resources (DNR) – Environmental Protection Division (EPD) accepted responsibility for updating the flood maps of all 159 counties, including municipalities. This five-year mapping initiative is known as Map Modernization. As a result of the state's efforts, county-wide DFIRMs will be available to local officials and citizens.

To effectively participate in the Map Modernization Program and to effectively generate the DFIRM, the GaDNR needs the full support and involvement of local communities. Therefore, the GaDNR is requesting that the city enter into a Memorandum of Agreement for cooperating with the GaDNR for the purpose of generating the DFIRM and informing the community about the DFIRM. The city has already provided input and assistance by making the results of the 2009 city flood mapping effort available to the GaDNR for use in generating the DFIRM for the City of Sandy Springs.

Discussion:

Goals of the Georgia Flood Mapping Assessment and Planning Program include the creation of DFIRMs for the city; the creation of more informative, comprehensive, and accurate flood risk mapping; increased public awareness of flood risk; and more effective floodplain management. Participation in the Program involves providing the best available flood mapping data to the GaDNR (which has already been done), reviewing draft maps and preliminary maps, facilitating the dissemination of information and outreach to the public, and the issuance of final DFIRMs in July, 2012.



Alternatives:

Not participating in the Program would likely result in continued use of Flood Insurance Rate Maps that include outdated or inaccurate information, and possibly the suspension of the city's participation in the National Flood Insurance Program.

Financial Impact:

No financial impact.

Concurrent Review:

Cecil McLendon, Assistant City Attorney
Tom Black, Public Works Director

Attachments:

GaDNR 6-29-2010 letter to City Manager regarding Memorandum of Agreement
Memorandum of Agreement
Partner Floodplain Mapping Scoping Report (5-28-10) submitted by GaDNR

Georgia Department of Natural Resources

Environmental Protection Division, Watershed Protection Branch
4220 International Parkway, Suite 101, Atlanta, Georgia 30354
404/675-6232

Reply to:
Floodplain Unit
Phone: 404/675-6233; Fax 404/675-6246

Memorandum of Agreement

June 29, 2010

Mr. John McDonough
City Manager, City of Sandy Springs
City Hall
7840 Roswell Road, Building 500
Sandy Springs, Georgia 30050

Dear Mr. McDonough:

Under a Cooperating Technical Partner (CTP) Agreement with the Federal Emergency Management Agency (FEMA), the State of Georgia through the Department of Natural Resources (DNR) - Environmental Protection Division (EPD) accepted responsibility for the remapping of all 159 counties including municipalities. This five-year mapping initiative is known as Map Modernization. As a result of the State's efforts, county-wide digital flood hazards maps will be available to local officials as well as to citizens.

As Map Modernization draws to a conclusion, FEMA has begun to evolve into Risk MAP (Mapping, Assessment and Planning), which will, through collaboration with Federal, State, and Local entities, deliver quality flood hazard data that increases public awareness of flood risk and leads to action that reduces risk to life and property. As part of FEMA's Risk MAP program, the State of Georgia through the DNR-EPD will continue to participate as a CTP and manage the maintenance and remapping of Georgia's counties and municipalities under the Georgia Flood M.A.P. Program.

To effectively manage the Georgia Flood M.A.P. Program, EPD will need the full support and involvement of local communities. Attached are two (2) signed copies of a Scoping Report that details the combined flood mapping effort between EPD and your community. After you have reviewed the Scoping Report, please sign both Signature Pages and return one (1) signed copy to my attention by July 15th, 2010. The second fully executed copy is your community's copy to keep on file.

My office will continue to work closely with you throughout this project to provide any assistance that may be required. Should you have questions regarding this Memorandum of Agreement, please contact Andrea Foard or Yongqing Yu at 404-675-6233.

Sincerely,



Collis O. Brown, CFM
State Floodplain Management Coordinator

Attachments

FEMA Scoping Report
Signature Page

cc: Floodplain Administrator
Bennett White, Chief Engineer

Reply to:
Collis O. Brown, CFM
Georgia Department of Natural Resources
Environmental Protection Division
Floodplain Management
4220 International Parkway
Suite 101
Atlanta, GA 30354
(404) 675-6233

Memorandum of Agreement

Signature Page

The undersigned acknowledge that they have reviewed the Scoping Report detailing the Digital Flood Insurance Rate Map (DFIRM) scope of work for City of Sandy Springs, Georgia. Both parties agree to:

- work together to produce the best DFIRM possible given the constraints of the program;
- adopt and enforce the new DFIRM once it becomes effective;
- amend, revise, or update local floodplain management ordinance as needed;
- communicate and openly discuss concerns during the process; and
- appropriately transition this knowledge to their successors, if any.

City of Sandy Springs, GA

Community Name (city, town, or county)

Community Representative

Title

Date



Collis O. Brown, CFM

State Coordinator
Title

6/29/2010
Date

Signature Page

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- work together to produce the best DFIRM possible given the constraints of the program;
- adopt and enforce the new DFIRM once it becomes effective;
- amend, revise, or update local floodplain management ordinance as needed;
- communicate and openly discuss concerns during the process; and
- appropriately transition this knowledge to their successors, if any.

City of Sandy Springs, GA

Community Name (city, town, or county)

Community Representative

Title

Date

Collis O. Brown
Collis O. Brown, CFM

State Coordinator
Title

6/29/2010
Date



FEMA

Scoping Report

**Fulton County, Georgia
and Incorporated Areas**



**Submitted By: Georgia Department of Natural Resources
Submittal Date: May 28, 2010**

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Partner Floodplain Mapping Scoping Report
Fulton County, Georgia
MAS# FY09.09
May 28, 2010

I. Background

This project involves a selected remapping effort for Fulton County, Georgia. The scope of work includes new study of the Chattahoochee River basin within Fulton County. The Chattahoochee River (77 miles) and approximately 81 miles of its major tributaries will be studied with new detailed study as well as the South River. The study also includes the incorporation of significant local contributions within the Cities of Sandy Springs, Roswell, East Point, and Atlanta. All remaining effective floodplains will be either redelineated or have new enhanced approximate studies developed. The total mileages for this project include 158 miles of New/Revised Detail Study, 108 miles of Leverage Detail Study, 173 miles of Redelineation , 450 miles of New/Revised Approximate Study, and 69 miles of Leverage Approximate Study. A total of 175 FIRM panels will be created/updated for Fulton County. This study will be processed as a countywide map revision. In addition, the vertical datum for Fulton County, currently NGVD29, will be converted to NAVD88.

Table 1: Statistical Information

| Statistical Data | Fulton County |
|--|---------------|
| Number of Panels affected/updated | 175 |
| County Area (mi²) | 534 |
| Study Area (mi²) | 534 |
| Population[†] | |
| County | 1,033,756 |
| Density (people / mi ²) | 1,935 |
| Growth (% / year) | 26.7 |
| % of Total State | 10.5 |
| Flood Insurance | |
| Policies | 1,095 |
| Claims | 301 |
| Repetitive Losses | |
| Number of Losses | 41 |
| Number of Properties | 20 |
| Declared Disasters since 1990 | 9 |
| Number of LOMC | 448 |

† Based on 2009 Census Estimate

II. Meetings and 44 CFR Part 66 Compliance:

An All-Hands Meeting was held on April 9, 2010 at 9:30 A.M. to 12:00 P.M. at Georgia DNR Tradeport offices to introduce the project to all stakeholders involved in the process. Attendees included affected community officials, Georgia Home Builders Association, Georgia Board of Realtors, U.S. Army Corps of Engineers, U.S. Geological Survey, U.S.D.A. Natural Resources Conservation Service, Georgia Regional Development Centers, FEMA Region IV, and various other agencies and affected groups.

Scoping Meetings were held for North Fulton County on April 15, 2010, 8:30 AM to 11:00 AM at the Georgia Department of Agriculture, South Fulton County on April 15, 1:30 PM to 4:00 PM at the Georgia Department of Agriculture, and The City of Atlanta on April 13, 2010, 8:30 AM to 11:00 AM at the Atlanta Department of Watershed Management. These meetings successfully identified the needs of the communities affected by the current floodplain mapping project. See Appendix A for the Scoping Meeting Minutes and Attendance Sheets.

All communities that were at the scoping meeting and all communities not at the scoping meeting were called to verify needs and available data. Scoping meeting packets including project related information, scoping maps, and presentation were sent to officials that did not attend the scoping meeting. Data request letters were sent to all community officials in advance of the scoping meeting.

Part 66 compliance:

| | | | | |
|---|-------------------------------------|-----|--------------------------|----|
| The CTP has begun and has on record its Case file and docket? | <input checked="" type="checkbox"/> | YES | <input type="checkbox"/> | NO |
| The CTP has written record of its initial contact made to the local communities affected by this map modernization project? | <input checked="" type="checkbox"/> | YES | <input type="checkbox"/> | NO |
| The CTP has written record of its request for additional flood study data and base information from the local communities? | <input checked="" type="checkbox"/> | YES | <input type="checkbox"/> | NO |

III. NFIP Compliance

- a) Have you obtained all the communities' ordinances to review for compliance?
Yes.
- b) Have you checked with the community and determined if they can adopt a digital product, proof copy, or will they need the official paper copy from MSC to adopt?
Yes.
- c) Have you ensured that local floodplain administrators were in attendance?
All floodplain administrators were notified of the scoping meeting.

IV. Project Overview

Fulton County (Unincorporated Areas) and the Cities of Alpharetta, Atlanta, Chattahoochee Hills, College Park, East Point, Fairburn, Forest Park, Hapeville, John’s Creek, Milton, Mountain Park, Palmetto, Roswell, Sandy Springs, and Union City were previously mapped on May 7, 2001. See Appendix B for current study information, depicting effective reach information within Fulton County.

The graphical depiction in Appendix C reflects the riverine flooding sources to be studied in Fulton County. Fulton County prioritized mapping needs based on new development, high growth, community concerns, and past flood events. The proposed panel layout map is located in Appendix D. The proposed panel layout will slightly vary from the effective panel layout. There will be 175 FIRM panels created for Fulton County.

There are no coastal flooding sources included in this project.

Table 2 contains the total stream mileage count for each level of study. Total effective miles within Fulton County are reported below.

Table 2: Estimated Total Stream Mile Counts by Type of Study

| | Coastal | Detailed | Limited Detailed | Approximate | Redelination | Verified Digital Conversion |
|---------------------------------|----------------|------------------------------------|---|------------------------------------|---------------------|------------------------------------|
| Effective Flood Insurance Study | N/A | 387 | 0 | 98 Zone A/ 430 Zone X Shaded | | |
| Updated Effective Studies | N/A | 156 FEMA Funded/ 86 Leverage | 0 with BFEs/ 500 Enhanced Approximate | 0 | 172 | N/A |
| New Studies Identified | N/A | 2 FEMA Funded/ 22 Leverage | 0 with BFEs/ 19 Enhanced Approximate | 0 | | |

A scoping map detailing the study types identified is located in Appendix C.

A map of the proposed paneling scheme for Fulton County, Georgia has been created. It exhibits 175 panels with areas being studied. These panels with areas being studied include 165 500-scale and 10 1000-scale panels. See Appendix D for Proposed Paneling Scheme Map.

Table 3 contains various GIS data is available from State, local, and Federal agencies.

Table 3: GIS Data Layers Available

| GIS data available | Source (ie, State, Local, Federal) | Acquisition Date | Vertical Datum | Horizontal Datum | Use Restrictions? |
|---------------------------|---|-------------------------|-----------------------|-------------------------|--------------------------|
| Cadastral Data | Local | TBD | N/A | TBD | Yes |
| Hydrography | Local | TBD | N/A | TBD | Yes |
| Flood Hazard Information | Local | TBD | N/A | TBD | None |
| County Boundary Data | GA GIS Data Clearinghouse | March 2009 | N/A | NAD83 | None |
| Municipal Boundary | Local | TBD | N/A | TBD | TBD |
| Digital Orthophoto | Local | TBD | N/A | TBD | TBD |
| Publicly Owned Lands Data | Local | TBD | N/A | TBD | TBD |
| Transportation Data | Local | TBD | N/A | TBD | TBD |
| Elevation Data | Local | TBD | NAVD88 | NAD83 | Yes |
| ETJ Data | Local | TBD | TBD | TBD | TBD |

As orthophoto and elevation data obtained from non-federal sources to be used for Fulton County have not yet been obtained from Fulton County, NDEP and NDOP metadata cannot be generated. Data will be entered into NDEP and NDOP once data is obtained and reviewed.

V: Project Status:

Scoping Meetings were held for North Fulton County on April 15, 2010, South Fulton County on April 15, and The City of Atlanta on April 13. The MIP baseline form including detailed schedule information is located in Appendix E.

VI. Proposed Resolution to Outstanding Issues

N/A

VII. Unmet Needs and Requests

Mapping needs acquired through FEMA's Mapping Needs Update Support System (MNUSS) were presented and discussed at the scoping meeting. Throughout the scoping process community requests have also been collected and documented. The mapping needs and community requests that are unable to be addressed through this scope of work are provided in Appendix F. These unmet needs and unmet community requests will be stored as needs and/or requests in a spatial format complying with the CNMS (Coordinated Needs Management Strategy) database specifications. Needs obtained through MNUSS will not be stored geospatially when the spatial location or extent of the need is unable to be determined due to insufficient information.

VIII. Summary

This project involves a selected remapping effort for Fulton County, Georgia. The scope of work includes a focus on the Chattahoochee River throughout the entire reach within Fulton County. The scope of work includes new study of the Chattahoochee River basin within Fulton County. The Chattahoochee River and approximately 185 miles of its major tributaries will be studied with new detailed study as well as the South River. These reaches were selected based on needs identified through both MNUSS and through correspondence with local community officials. The study also includes the incorporation of significant local contributions within the Cities of Sandy Springs, Roswell, East Point, and Atlanta. All studies except for the City of East Point study are complete and will be reviewed under this contract for incorporation into the flood hazard maps. East Point anticipates that all modeling will be complete by the end of the summer. All remaining effective floodplains will be either redelineated or have new enhanced approximate studies developed. Total mileage for this project includes 158 miles of New/Revised Detail Study, 108 miles of Leverage Study, 519 miles of Limited Detail Study, and 172 miles of Redelineation. 175 FIRM panels will be created/updated for Fulton County. In addition, the vertical datum for Fulton County, currently NGVD29, will be converted to NAVD88.

A meeting was held with USACE and GADNR on April 20, 2010. Also in attendance were representatives from GADNR's study contractors. The USACE presented their Corps Water Management System (CWMS). This system is a real-time H&H modeling system funded through the American Recovery and Reinvestment Act of 2009 that will be used for the operation of dams throughout the Apalachicola-Chattahoochee-Flint watershed. As a result of CWMS, the USACE will be able to share valuable information for use in calibrating the updated Chattahoochee River models. Due to limited funding, the USACE was unable to survey new cross sections and structures for use in their system. Survey of new cross sections and structures will be collected as a part of GADNR's efforts. GADNR has agreed to share the survey data along the Chattahoochee River with the USACE to improve the accuracy of their study and in return the USACE will share the results of the CWMS and also review the Chattahoochee River study with regards to the influences of the Buford Dam operations on flood control along the

Chattahoochee River. The results of the CWMS will not be available until September 2010. The Chattahoochee River study will not be completed until after the CWMS results are available and further calibration of the models can be conducted. The CWMS results and the coordination efforts with USACE will improve the accuracy of the Chattahoochee River model producing an extremely defensible model.

The Cities of College Park, Palmetto, and Mountain Park are multi-county communities but will be mapped in their entirety in Fulton County. The City of Atlanta is also located in more than one community. The City of Atlanta will be mapped as part of the scope of work in both Fulton and DeKalb County. Consequently, Fulton County and DeKalb County will be required to have the same LFD date and Effective Date.

On April 6 and April 7, 2010 messages were left for officials informing them that scoping meeting letters had been mailed and confirmed the location and time of meetings. Recipients included: Bennett White, Blake Detwiler, John McDonough, Nancy Leathers, and George Vail of Sandy Springs; Ann Heard, Ibrahim Maslamani, Robert Jones, Steve Williams, Brenda Ross and Rob Hunter of Atlanta; Tony Kaper, Robert Hernandez, Angela Barrett, Angela Parker, Isaac Standard, Zachary Williams and David Ricks of Fulton County; Seth Yurman, John Kachmer, Tim Inglis, Justin Kirouac of Johns Creek; Paul Ivey, Lynn Pierson, Jill Bazinet, Gary George, Diane Wheeler, Arthur Letchas, Pete Sewczwicz, Randy Bundy, and Jill Bazinet of Alpharetta; Jere Wood, Allen Amcik, Bradford Townsend, Scott Huffman, Alice Champagne, Ricky Spencer, Jean Rearick, and Scott Huffman of Roswell; Steve Rapson, Ann Lippman, David Mundt, and Charles Corbin of Union City; Terry Todd, Cindy Hanson, and John Miller of Palmetto; Jim Still, and Craig Carpenter of Mountain Park; Carter Lucas, Nick O'Day, Jimmy Sanders, Lynn Tulley, Joe Lockwood, Melissa Henderson, and Joe Lockwood of Milton; Vincent Washington, Elias Geneasea, Lamar Holt, Jones Crandall, and Herbut Humphrey of East Point; Jody Weller, Mario Avery, Troy Besseche, Jennifer Rossi, Myesha Calloway, and Gail Denman of Fairburn; Tami Fowler, Oscar Hudson, Bill Johnson, Jack Longino, and Jackson Myers of College Park; Leonard Thompson, and Don Hayes of Chattahoochee Hills, Chris Montesinos, Lee Sudduth, Rick Glavosek, and Allen Hallman of Hapeville. George Vail of Sandy Springs was also sent an email requesting data.

Appendix A



SCOPING MEETING MINUTES

| | |
|---|---|
| Community/Mapping Project: North Fulton County, GA | |
| Date: April 15, 2010 | Time: 8:30 AM to 11:00 AM |
| CTP/SC/FEMA Lead: Georgia DNR FEMA Region IV PBS&J | Location of Meeting: Georgia Department of Agriculture Conference Room 201 19 Martin Luther King Dr, SW Atlanta, Georgia |
| Meeting Items | |
| <p>1. Introductions (See Scoping Meeting Sign-In Sheet for Attendance)</p> <p>2. National Flood Insurance Program Overview - Map Modernization to Risk MAP</p> <p>The status of the Map Modernization program was discussed, including the goals and achievements that have been made during the last five years.</p> <ul style="list-style-type: none"> • Nationwide effort to update the Flood Insurance Rate Maps • Produce seamless digital flood data • Build State partner mapping capacity • More accurately reflect the current flood risk • Reduce map production time and cost <p>Included in this discussion was the role that Georgia EPD played in being a Cooperating Technical Partner. Then FEMA's new initiative, Risk MAP, was introduced and the goals of the program were discussed. The main goal is to deliver quality data to increase public awareness and actions that reduce risk. It was stated that this year of map production is classified as a transition year from Map Mod to Risk MAP, while all of the final details for Risk MAP are being worked out by FEMA Headquarters. Some of the specifics for the Georgia Flood MAP program were discussed, including:</p> <ul style="list-style-type: none"> • Watershed-based studies • A more robust website (www.GeorgiaDFIRM.com) that includes project status and outreach guidance and documents • Dynamic flood risk mapping data • Enhanced presentation of data to increase risk understanding <p>3. Georgia FY09 Overview – Upper Chattahoochee River Basin Project</p> <p>The specific project for this year's mapping of the Upper Chattahoochee River basin was discussed including:</p> <ul style="list-style-type: none"> • 107 miles of restudy along the Chattahoochee from Buford dam through Coweta County • Incorporation of flood data gathered after the September 2009 floods to calibrate the modeling • Possible restudy of high priority sub basins within the project area | |

- Incorporation of any new high-accuracy elevation data

We will not be doing future conditions mapping as it is not a requirement for FEMA. Communities will not have to adopt new ordinances as long as they have the automatic adoption clause.

4. Study Process Overview

The milestones and touch points for this year's projects were then discussed, including several additional outreach opportunities (in *italics*) listed below:

- *Stakeholders Meeting*
- Community Project Scoping Meetings
- *Community Project Kick-off Meeting*
- *Draft Map Review Meetings*
- Communities sent copies of Preliminary Map
- Flood Risk Information Open House
- FEMA issues proposed BFEs to CEO of community; publishes notice in local newspaper and Federal Register
- 90-day Appeal period commences
- FEMA & GA DNR resolve appeals & protests
- *Pre-New Effective Map Assessment & Planning meeting with GA DNR*

5. Outreach

The new outreach plan was then discussed in detail that included both Outreach and In-reach within each community. The attendees were instructed to keep all communication lines within their communities open and notify all groups and individuals that use the flood maps for any aspect of their daily duties about the project and to solicit any information or data that can possibly be used in the project. In addition, the various support mechanisms were introduced that included:

- www.GeorgiaDFIRM.com
- Various Project Meetings
- Outreach Guidebook

The outreach notebook is cafeteria style – communities can pick and choose what they want to do. They can call to bounce ideas or discuss options with the DNR, PBS&J or FEMA. FEMA throughout RiskMAP will do a lot more to educate the media.

6. Community and Partner Agreement Discussions

A discussion on the need to reach an agreement between FEMA, the state, and the community was discussed. The agreement with FEMA will be to document the good faith efforts to collaboratively assess the community's needs, develop an appropriate Scope of Work, and develop and publicize the revised DFIRMs.

7. Identify Base Map & Topographic Data

The next item that was discussed was the data items that would need to be collected for the project. This included both GIS data to be used for the base map, as well as completed or known flood studies that could be reviewed for possible incorporation. The items below were specifically requested:

Flood Studies

- Hydrologic and hydraulics models (USGS, USACE, State, Local/MNGWPD)
- Certified Survey
- Workmaps (GIS format preferred)

GIS Data

- Aerial Photography/Imagery
- Elevation (contours, DTM)
- Roads / Railroads

- Streams / Lakes
- Political Boundaries
- Data Standards (accuracy and restrictions)

Additional Community Data

- Parcel Data
- Impervious surface
- Land Use

8. Breakout Session – Review Community’s Areas of Concern

The City of Milton may have an HMS model but most likely just some small subdivision level studies. The most important thing for the city will be to develop elevations for their Zone A floodplains. The city of Alpharetta developed future conditions floodplains and found that Foe Killer Creek had significant differences between existing and future conditions so this would be their top priority.



GEORGIA FLOOD M.A.P.

Mapping Assessment & Planning

SCOPING MEETING SIGN-IN Sheet

Community/Flood Map Project: Fulton County, GA (North Fulton)

Date/Time: April 15, 2010/8:30am - 11:00am

CTP/SC Lead/FEMA Lead: GA DNR, FEMA Region IV, PBS&J

Location of Meeting: Georgia Department of Agriculture, 19 Martin Luther King, Jr. Dr., S.W., Atlanta, GA 30334, Conference Room 201

| Name | Title | Community/ Organization | Telephone | E-Mail Address |
|----------------|------------------------|-------------------------|----------------|------------------------------|
| Seth Yurman | Lead Dev. Manager | City of Johns Creek | 678.512.3284 | seth.yurman@johnscreekga.gov |
| Nick O'Day | GIS Manager | City of Milton | 678-242-2575 | nick.oday@cityofmiltonga.us |
| Collis Brown | NFIP Coord. GA | DNR/EPD | 404) 656-6382 | collis-brown@dnr.state.ga.us |
| Tom Shilloch | GIS Specialist | Georgia DNR/EPD | 404. 463. 0606 | tom.shilloch@dnr.state.ga.us |
| Lynne Keating | NFIP outreach Sp. | FEMA Reg. IV FMI Branch | 770-220-3156 | Lynne.Keating@dh.s.jod |
| Alli Champagne | Water Resource Manager | City of Roswell | 770-641-3715 | achampagne@roswellga.com |

| Name | Title | Community/ Organization | Telephone | E-Mail Address |
|-----------------|----------------------------|-------------------------|--------------|-------------------------------------|
| Jill Bazinet | Senior Stormwater Engineer | City of Alpharetta | 678-297-6200 | jbazinet@alpharetta.ga.us |
| Jimmy Sanders | Public Review Eng | MILTON | 678 229 7650 | Jimmy.Sanders@CITYOFMILTONGA.US |
| Chris Budd | Project Mgr | PBS&J | 678-581-3513 | clbudd@pbsj.com |
| Bennett White | Engineer | City of S. Springs | 770-206-1567 | bennett.white@sandy Springs.ga.org |
| Garrett Skinner | Project Manager | PBS&J | 678-581-3474 | gskinnerepbsj.com |
| David Cloutier | Storm Water Services Mgr | Sandy Springs | 770-2062524 | david.cloutier@sandy Springs.ga.org |
| Yongjing Yu | Engineer | DNRI/EPD | 678-760-7562 | Yongjing.Yu@dnr.state.ga.us |
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SCOPING MEETING MINUTES

| | |
|---|---|
| Community/Mapping Project: City of Atlanta, Fulton County, GA | |
| Date: April 13, 2010 | Time: 8:30 AM to 11:00 AM |
| CTP/SC/FEMA Lead: Georgia DNR FEMA Region IV PBS&J | Location of Meeting: Atlanta Department of Watershed Management 263 Decatur Street Atlanta, Georgia |
| Meeting Items | |
| <p>1. Introductions (See Scoping Meeting Sign-In Sheet for Attendance)</p> | |
| <p>2. National Flood Insurance Program Overview - Map Modernization to Risk MAP</p> <p>The status of the Map Modernization program was discussed, including the goals and achievements that have been made during the last five years.</p> <ul style="list-style-type: none"> • Nationwide effort to update the Flood Insurance Rate Maps • Produce seamless digital flood data • Build State partner mapping capacity • More accurately reflect the current flood risk • Reduce map production time and cost <p>Included in this discussion was the role that Georgia EPD played in being a Cooperating Technical Partner. Then FEMA's new initiative, Risk MAP, was introduced and the goals of the program were discussed. The main goal is to deliver quality data to increase public awareness and actions that reduce risk. It was stated that this year of map production is classified as a transition year from Map Mod to Risk MAP, while all of the final details for Risk MAP are being worked out by FEMA Headquarters. Some of the specifics for the Georgia Flood MAP program were discussed, including:</p> <ul style="list-style-type: none"> • Watershed-based studies • A more robust website (www.GeorgiaDFIRM.com) that includes project status and outreach guidance and documents • Dynamic flood risk mapping data • Enhanced presentation of data to increase risk understanding | |
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Fulton County will be countywide and will change vertical datums from NGVD 29 to NAVD 88. The City has automatic adoption ordinances in place. The city will definitely still want to be split between Dekalb and Fulton County however would like some maps made for the entire city if possible.

4. Study Process Overview

The milestones and touch points for this year's projects were then discussed, including several additional outreach opportunities (in *italics*) listed below:

- *Stakeholders Meeting*
- Community Project Scoping Meetings
- *Community Project Kick-off Meeting*
- *Draft Map Review Meetings*
- Communities sent copies of Preliminary Map
- Flood Risk Information Open House
- FEMA issues proposed BFEs to CEO of community; publishes notice in local newspaper and Federal Register
- 90-day Appeal period commences
- FEMA & GA DNR resolve appeals & protests
- *Pre-New Effective Map Assessment & Planning meeting with GA DNR*

The city would like their own meeting (as was set up for scoping). The open house could be held at the Atrium if enough setup time was given. The process of the SOMA was explained to the City as a way to revalidate or re-evaluate effective LOMAs/LOMRs.

5. Outreach

The new outreach plan was then discussed in detail that included both Outreach and In-reach within each community. The attendees were instructed to keep all communication lines within their communities open and notify all groups and individuals that use the flood maps for any aspect of their daily duties about the project and to solicit any information or data that can possibly be used in the project. In addition, the various support mechanisms were introduced that included:

- www.GeorgiaDFIRM.com
- Various Project Meetings
- Outreach Guidebook

There is no mandatory notice to individuals who are affected by changes however it has shown to be helpful in the past and is an outreach activity the City could take on. FEMA's official notification is through the newspaper. The City of Atlanta has a strong grassroots internal network with neighborhood groups that could be utilized during this process. Their communications groups also has movie making capability if required.

There will eventually be away on the Georgia DFIRM website to sign up for updates and there will likely bimonthly/monthly newsletters developed to update on process. One feature that might be helpful to communities would be the option to get meeting reminders.

The City will plan on adding a link from their website to GeorgiaDFIRM.

6. Community and Partner Agreement Discussions

A discussion on the need to reach an agreement between FEMA, the state, and the community was discussed. The agreement with FEMA will be to document the good faith efforts to collaboratively assess the community's needs, develop an appropriate Scope of Work, and develop and publicize the revised DFIRMs.

7. Identify Base Map & Topographic Data

The next item that was discussed was the data items that would need to be collected for the project. This included both GIS data to be used for the base map, as well as completed or known flood studies that could be reviewed for possible incorporation. The items below were specifically requested:

Flood Studies

- Hydrologic and hydraulics models (USGS, USACE, State, Local/MNGWPD)
- Certified Survey
- Workmaps (GIS format preferred)

GIS Data

- Aerial Photography/Imagery
- Elevation (contours, DTM)
- Roads / Railroads
- Streams / Lakes
- Political Boundaries
- Data Standards (accuracy and restrictions)

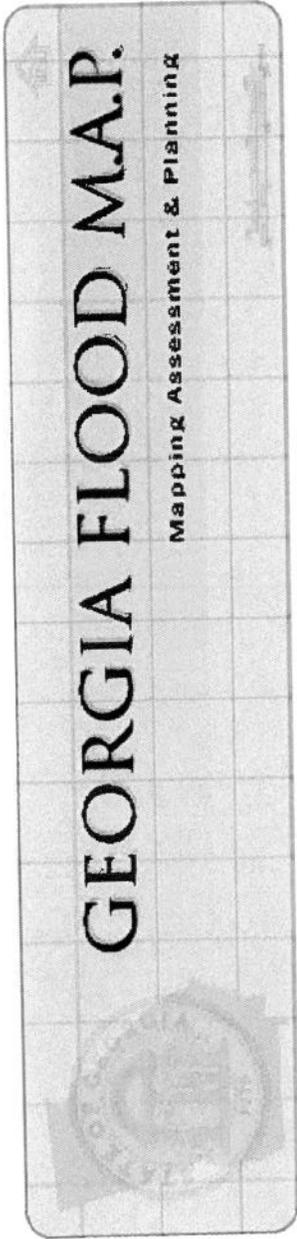
Additional Community Data

- Parcel Data
- Impervious surface
- Land Use

The City has several small future conditions flood studies developed as well as some larger studies that they could provide. These studies include extensive survey throughout the City as well as two full time survey crews that could be used if needed. South River has extensive survey. Other data the city has includes a citywide impervious surface file, parcels, subwatersheds developed to the 100 acre limit, and building footprint data. Peachtree Creek is also a pilot study with the USGS to provide real-time flood warnings. There are several small future conditions studies done on Utoy (Panel 353), Proctor (Panel 242) and Camp Creek (Panel 341/342). A combined sewer model was developed with Sharon Matthews that included a study of the 100-year storm. The City has a newly developed stream layer that they would like us to use. All data cannot be provided until the data sharing agreement is signed. They have separate data sharing agreements for private and public entities. Christina Garcia will be the main point of contact throughout the process. Another meeting should be set up to go over the specific data that is available.

8. Breakout Session – Review Community’s Areas of Concern

The top two priorities are Peachtree and Proctor Creek as they saw the most significant damage during the September floods.



SCOPING MEETING SIGN-IN Sheet

Community/Flood Map Project: Fulton County, GA (City of Atlanta)

Date/Time: April 13, 2010/8:30am - 11:00am **CTP/SC Lead/FEMA Lead:** GA DNR, FEMA Region IV, PBS&J

Location of Meeting: Atlanta Department of Watershed Management, 263 Decatur Street, Atlanta, GA 30309

| Name | Title | Community/ Organization | Telephone | E-Mail Address |
|-----------------|-----------------|-------------------------|--------------|-------------------|
| Garrett Skinner | Project Manager | PBS&J | 678-581-3474 | gskinner@pbsj.com |
| Chris Budd | Proj. Manager | PBS & J | 678-581-3513 | cbudd@pbsj.com |
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GA Flood MAP → City of Atlanta Scoping Meeting
 April 13, 2010

| Name | Title | Community / Organization | Telephone | E-Mail Address |
|-----------------|---------------------------|--|-----------------|------------------------------|
| Andrea Board | Env. Egr | GA DNR/EPD | 404.232.1343 | andrea.board@dnr.state.ga.us |
| Yongging Yu | Engineer | GA DNR/EPD | 678-760-7562 | Yongging.Yu@dnr.state.ga.us |
| Kyrene Keating | NFIP Outreach Spec. | FEMA, Reg. 10 FMI Branch | 770-220-3156 | Kyrene.Keating@dhs.gov |
| Seham Abdulahad | Civil Engineer, Sr. | COA | 404-546-1256 | sabduahad@atlantaga.gov |
| Tom Shillock | GIS Specialist | GA DNR/EPD | 404.413.0606 | Tom.Shillock@dnr.state.ga.us |
| Emily Wingo | Env. Spec | DNR/EPD | 404 362 6539 | emily.wingo@dnr.state.ga.us |
| Kris Garcia | Stormwater Compl. Manager | COA | 404-546-1255 | kgarcia@atlantaga.gov |
| Jason Briley | GIS Manager | COA | 4/546-1201 | jbriley@atlantaga.gov |
| Amy Bergbreiter | Proj Manager | PBS&J | 800-697-7275 | ambergbreiter@pbsj.com |
| Sally Mills | Deputy Communi | COA/DNR | 4-572-5754 cell | smills@atlantaga.gov |
| Jeff Butler | Sr GIS Analyst | PBS&J | 678-581-3497 | jbutler@pbsj.com |
| Collis Brown | GA NFIP Coord. | DNR/EPD | 404-656-6382 | Collis.brown@dnr.state.ga.us |
| Walt Rekuce | Sr Civil Eng | City of Atlanta/Dept of Water and Wastewater | 4/865-861 | wrekuce@atlantaga.gov |

GEORGIA FLOOD M.A.P.

Mapping Assessment & Planning

SCOPING MEETING MINUTES

Community/Mapping Project: South Fulton County, GA

Date: April 15, 2010

Time: 1:30 PM to 4:00 PM

CTP/SC/FEMA Lead:

Georgia DNR
FEMA Region IV
PBS&J

Location of Meeting:

Georgia Department of Agriculture
Conference Room 201
19 Martin Luther King Dr, SW
Atlanta, Georgia

Meeting Items

1. Introductions (See Scoping Meeting Sign-In Sheet for Attendance)

2. National Flood Insurance Program Overview - Map Modernization to Risk MAP

The status of the Map Modernization program was discussed, including the goals and achievements that have been made during the last five years.

- Nationwide effort to update the Flood Insurance Rate Maps
- Produce seamless digital flood data
- Build State partner mapping capacity
- More accurately reflect the current flood risk
- Reduce map production time and cost

Included in this discussion was the role that Georgia EPD played in being a Cooperating Technical Partner. Then FEMA's new initiative, Risk MAP, was introduced and the goals of the program were discussed. The main goal is to deliver quality data to increase public awareness and actions that reduce risk. It was stated that this year of map production is classified as a transition year from Map Mod to Risk MAP, while all of the final details for Risk MAP are being worked out by FEMA Headquarters. Some of the specifics for the Georgia Flood MAP program were discussed, including:

- Watershed-based studies
- A more robust website (www.GeorgiaDFIRM.com) that includes project status and outreach guidance and documents
- Dynamic flood risk mapping data
- Enhanced presentation of data to increase risk understanding

3. Georgia FY09 Overview – Upper Chattahoochee River Basin Project

The specific project for this year's mapping of the Upper Chattahoochee River basin was discussed including:

- 107 miles of restudy along the Chattahoochee from Buford dam through Coweta County
- Incorporation of flood data gathered after the September 2009 floods to calibrate the modeling
- Possible restudy of high priority sub basins within the project area

- Incorporation of any new high-accuracy elevation data

We will not be doing future conditions mapping as it is not a requirement for FEMA.

4. Study Process Overview

The milestones and touch points for this year's projects were then discussed, including several additional outreach opportunities (in *italics*) listed below:

- *Stakeholders Meeting*
- Community Project Scoping Meetings
- *Community Project Kick-off Meeting*
- *Draft Map Review Meetings*
- Communities sent copies of Preliminary Map
- Flood Risk Information Open House
- FEMA issues proposed BFEs to CEO of community; publishes notice in local newspaper and Federal Register
- 90-day Appeal period commences
- FEMA & GA DNR resolve appeals & protests
- *Pre-New Effective Map Assessment & Planning meeting with GA DNR*

5. Outreach

The new outreach plan was then discussed in detail that included both Outreach and In-reach within each community. The attendees were instructed to keep all communication lines within their communities open and notify all groups and individuals that use the flood maps for any aspect of their daily duties about the project and to solicit any information or data that can possibly be used in the project. In addition, the various support mechanisms were introduced that included:

- www.GeorgiaDFIRM.com
- Various Project Meetings
- Outreach Guidebook

It is expected that relaying why people are in the floodplain when they weren't originally will be a big communication issue. FEMA explained that flood maps are dynamic, technology has changed and the underlying information used to develop flood studies is more accurate now. The flood risk was always there whether the FEMA flood map illustrated it or not.

6. Community and Partner Agreement Discussions

A discussion on the need to reach an agreement between FEMA, the state, and the community was discussed. The agreement with FEMA will be to document the good faith efforts to collaboratively assess the community's needs, develop an appropriate Scope of Work, and develop and publicize the revised DFIRMs.

7. Identify Base Map & Topographic Data

The next item that was discussed was the data items that would need to be collected for the project. This included both GIS data to be used for the base map, as well as completed or known flood studies that could be reviewed for possible incorporation. The items below were specifically requested:

Flood Studies

- Hydrologic and hydraulics models (USGS, USACE, State, Local/MNGWPD)
- Certified Survey
- Workmaps (GIS format preferred)

GIS Data

- Aerial Photography/Imagery
- Elevation (contours, DTM)
- Roads / Railroads
- Streams / Lakes

- Political Boundaries
- Data Standards (accuracy and restrictions)

Additional Community Data

- Parcel Data
- Impervious surface
- Land Use

Fulton County has over a terabyte of data that will need to be transferred using via an external hard drive. They will only be able to give out 2008, after that there will likely be license issues with Pictometry.

8. Breakout Session – Review Community’s Areas of Concern

The City of Fairburn has some future conditions models but no new survey was conducted for the process They have no major flooding issues. During the September floods the major issues were caused by backed up/clogged culverts.



GEORGIA FLOOD M.A.P.

Mapping Assessment & Planning

SCOPING MEETING SIGN-IN Sheet

Community/Flood Map Project: Fulton County, GA (South Fulton)

Date/Time: April 15, 2010/1:30pm - 4:00pm

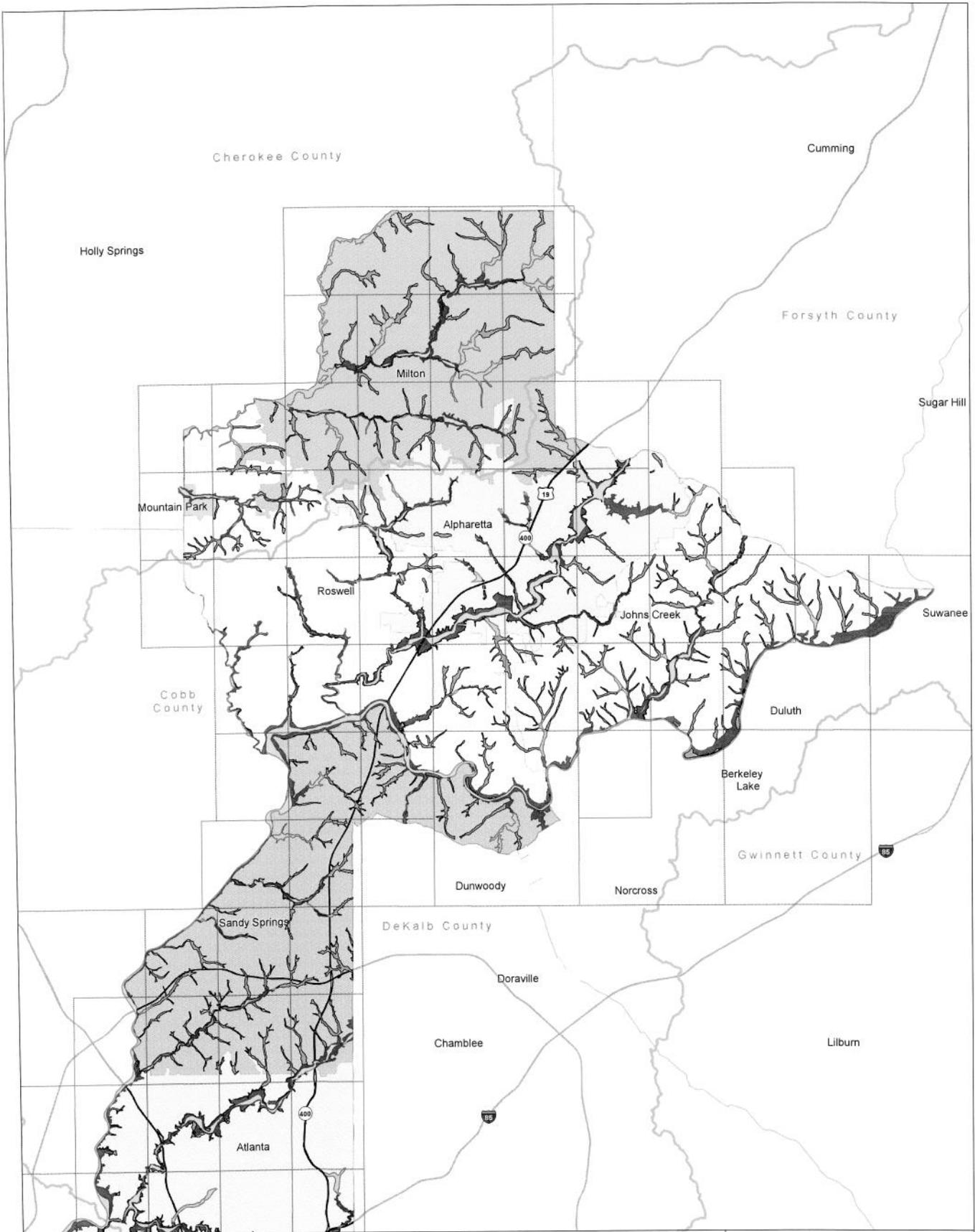
CTP/SC Lead/FEMA Lead: GA DNR, FEMA Region IV, PBS&J

Location of Meeting: Georgia Department of Agriculture, 19 Martin Luther King, Jr. Dr., S.W., Atlanta, GA 30334, Conference Room 201

| Name | Title | Community/ Organization | Telephone | E-Mail Address |
|-------------------|---------------------|----------------------------|--------------|-----------------------------------|
| Pat McCarresher | Fire Marshal | City of Fairburn | 770-964-2254 | mccarresher@fairburn.com |
| Tommy Bush | GIS Tech | College Park | 404-767-1537 | TBush@CollegeParkGa.com |
| Frank West | Code Enforcement | City of Palmetto | 770-990-4156 | west@cityofpalmetto.com |
| Troy Besseche | City Engineer | Fairburn | 770-683-4286 | troy@fairburn.com |
| BERGIO RONDOEN | SENIOR PLANNER | ALABAMA FULTON CO E.M.A | 404-730-5600 | BERGIO.FONTOEN@FULTONCOUNTYGA.GOV |
| Ada Caston | Storm Water Spv. | City of College Park | 404-937-2720 | acaston@colleeseparkga.com |

| Name | Title | Community / Organization | Telephone | E-Mail Address |
|-----------------|---------------------------|--------------------------|-------------------------|-------------------------------------|
| Chris Budd | Project Mgr | PBS & J | 678-581-3513 | clbudd@pbsj.com |
| John Brunson | Floodplain Coordinator | Fulton Co | 678-581-3513 | john.brunson@ fultoncountyga.gov |
| TAMI FOWLER | EMC | COLLEGE PARK FIRE/EMA | 41760-8248 | tfowler@collegedpar.com |
| Collis Brown | GA NFIP Coord. | DNR/EPD | 404) 656-6382 | collis-brown@dnr.state.ga.us |
| Yongging Yu | Engineer | DNR/EPD | 404-656-6382 | yongying.yu@dnr.state.ga.us |
| KURT PICKERING | EXT AFFAIRS | FEMA | 770-220-5246 | kurt.pickering@ dhs.gov |
| Garrett Skinner | Project Manager | PBS&J | 678-581-3474 | gaskinnerepbsj.com |
| Jeff Butler | Sr GIS Analyst | PBS&J | 678-581-3447 | jcbutler@pbsj.com |
| Amy Bergbriter | Proj Manager | PBS&J | 800-447-7275 | ambergbriterepbsj.com |
| Joe Martirena | Program Manager | PBS & J | 678-581-3475 | jamartirena@pbsj.com |
| | | | | |
| | | | | |

Appendix B



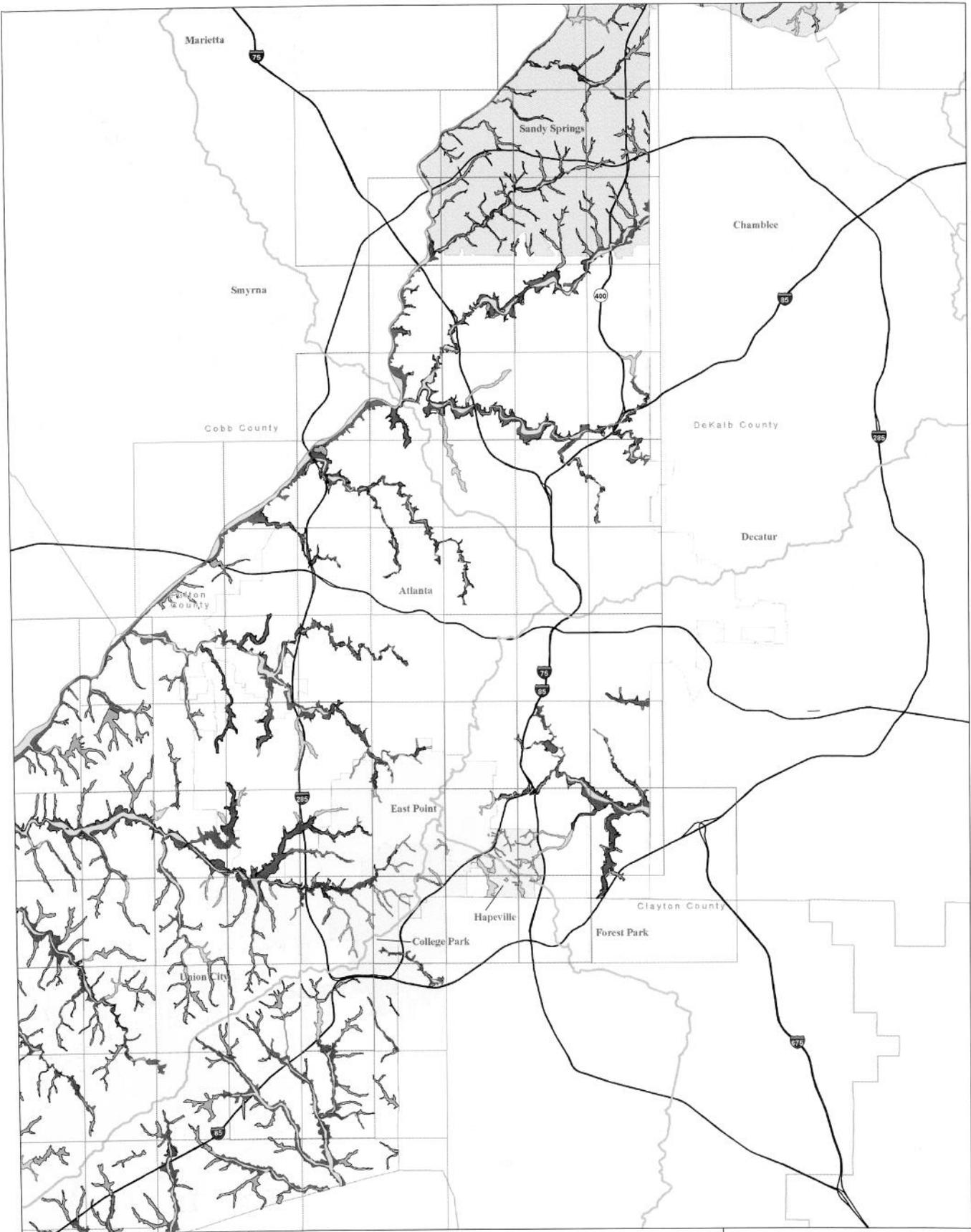
- Legend**
-  ZONE A
 -  ZONE AE
 -  FLOODWAY
 -  X SHADED
 -  Effective FIRM Panels

Current Study Information
North Fulton County, GA



LOCATION MAP





- Legend**
-  ZONE A
 -  ZONE AE
 -  FLOODWAY
 -  X SHADED
 -  Effective FIRM Panel

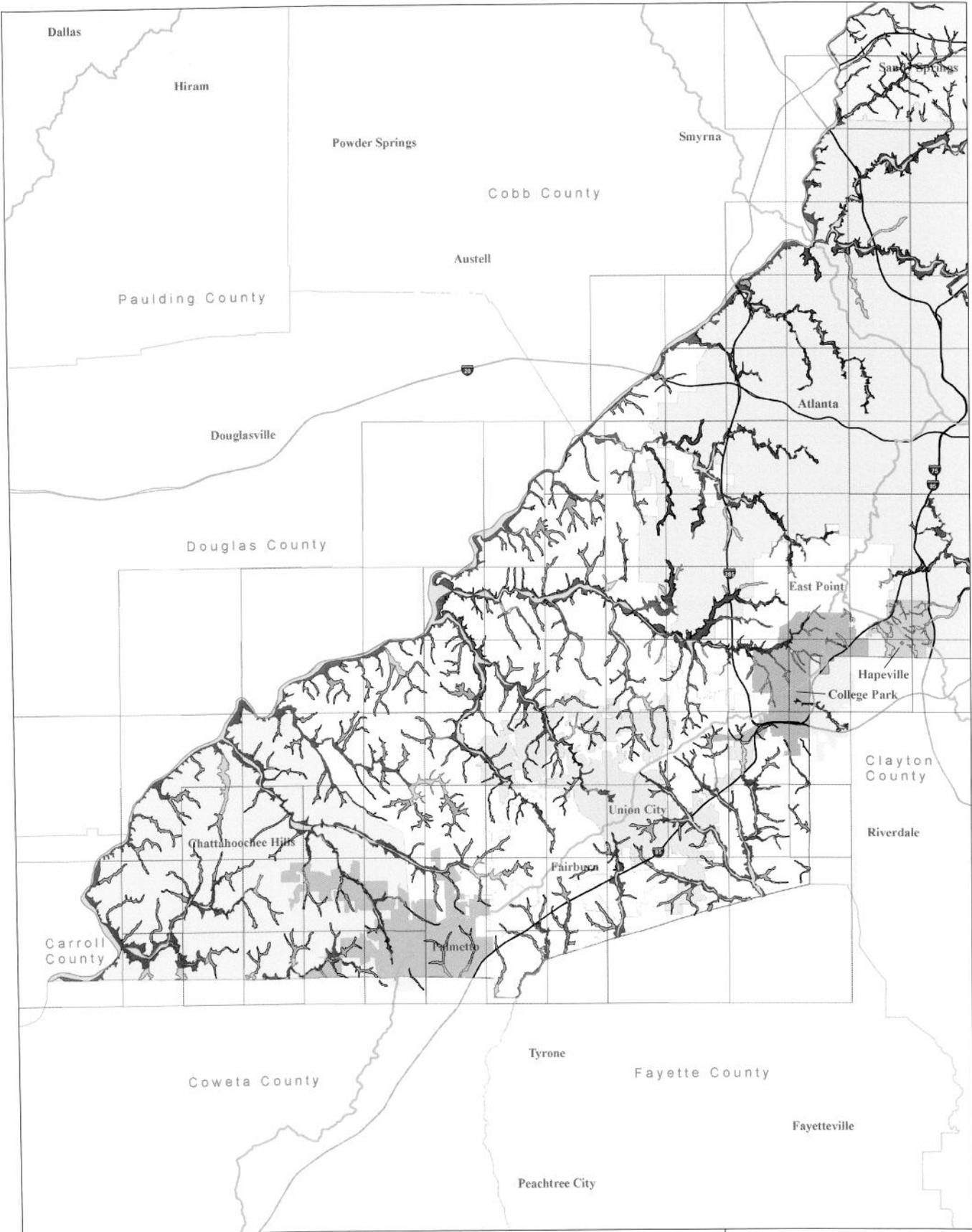
Current Study Information
City of Atlanta, GA



GEORGIA
DEPARTMENT OF NATURAL RESOURCES

LOCATION MAP

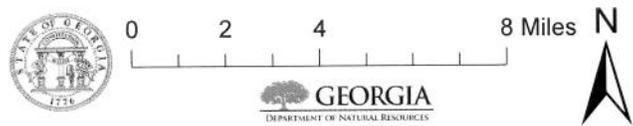




Legend

-  ZONE A
-  ZONE AE
-  FLOODWAY
-  X SHADED
-  Effective FIRM Panels

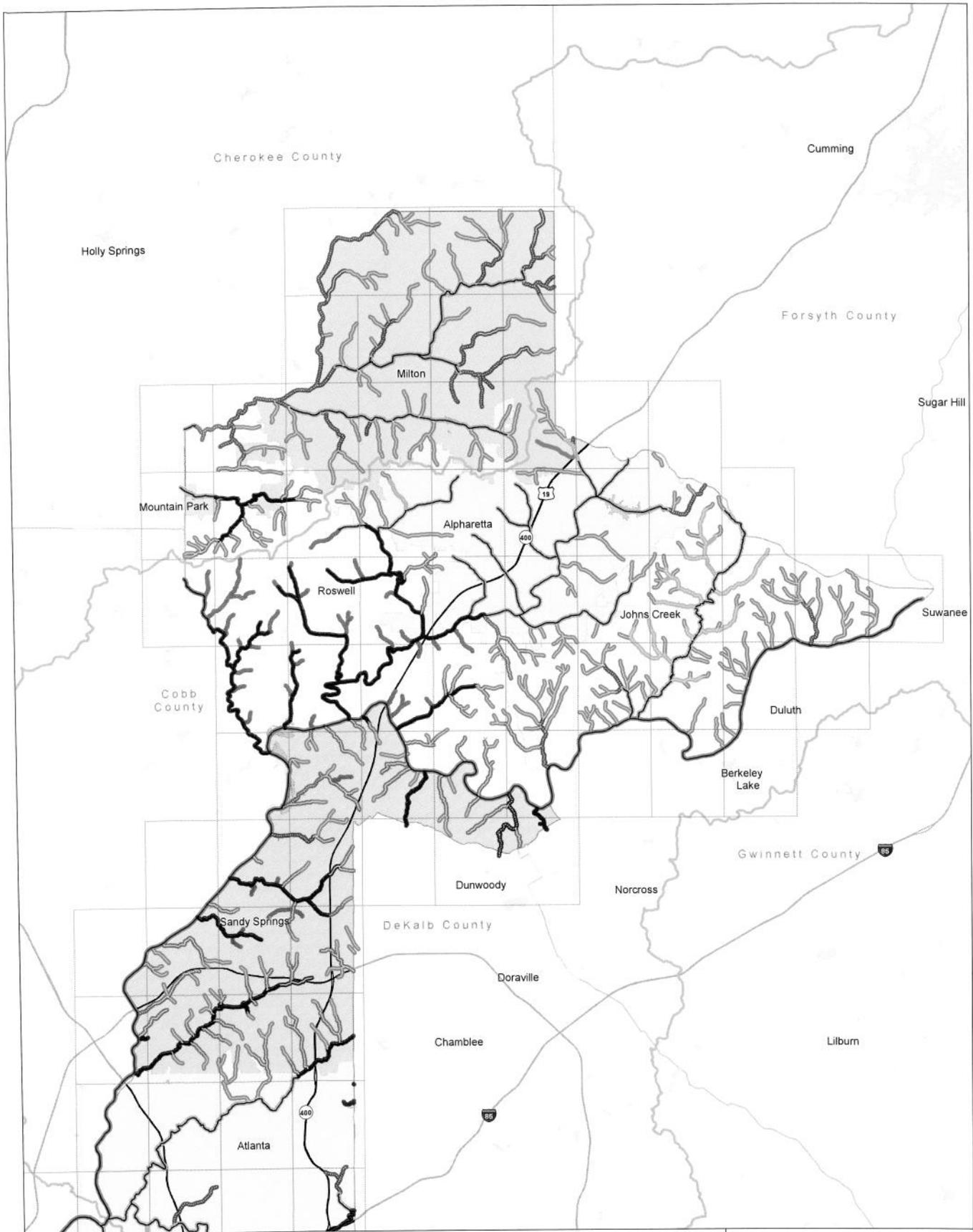
**Current Study Information
South Fulton County, GA**



LOCATION MAP

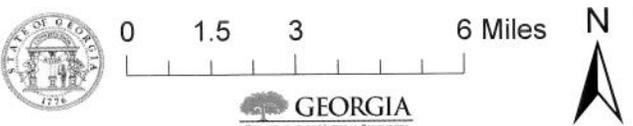


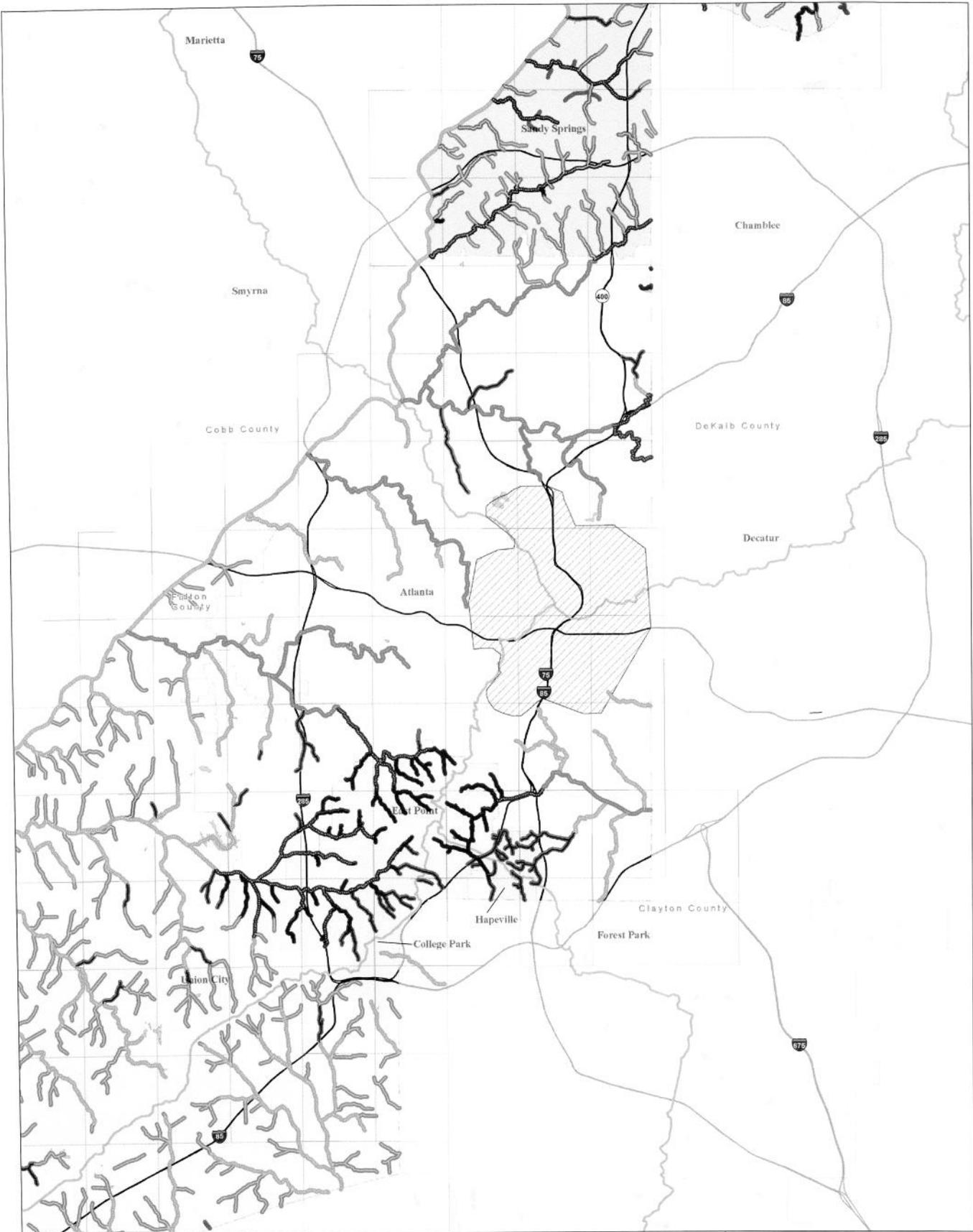
Appendix C



- Legend**
- Proposed Streams**
- Redlineation
 - Leverage Detail Study
 - Revised Detail Study (Chattahoochee)
 - New/Revised Detail Study
 - Leverage Approximate Study
 - New/Revised Approximate Study
 - New/Revised Zone X Study
- Effective Streams**
- ZONE X Shaded
 - ZONE A
 - ZONE AE
- Basemap**
- Proposed FIRM Panels
 - HUC 8 Regional Watershed

GEORGIA DEPARTMENT OF NATURAL RESOURCES
North Fulton County, GA - Proposed Study Map
 EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
 JUNE 22, 1998





Legend

Proposed Streams

- Redlineation
- Leverage Detail Study
- New/Revised Detail Study
- Revised Detail Study (Chattahoochee)
- Leverage Approximate Study
- New/Revised Approximate Study
- New/Revised Zone X Study

Effective Streams

- ZONE X Shaded
- ZONE A
- ZONE AE

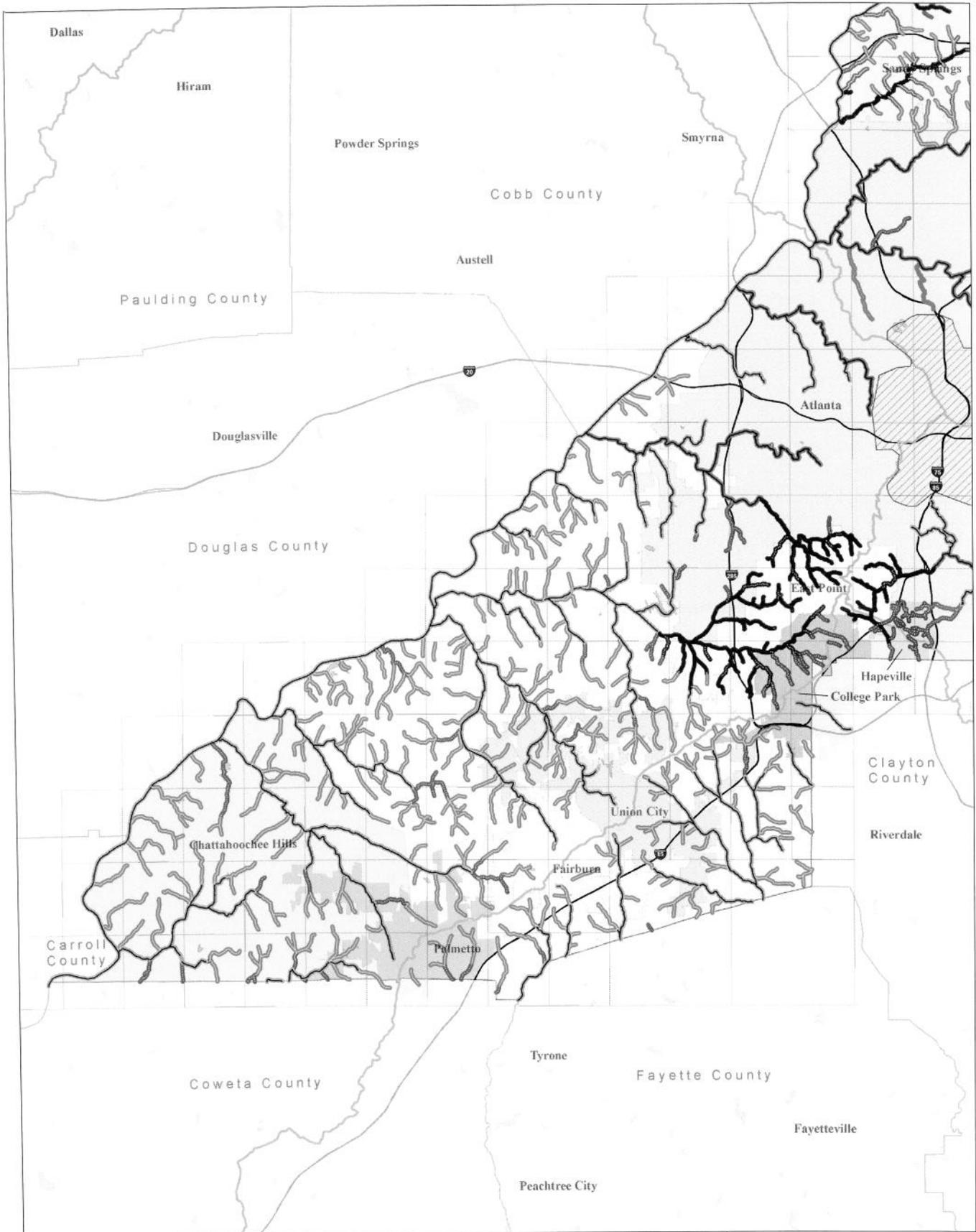
Basemap

- Proposed FIRM Panels
- HUC 8 Regional Watershed
- City of Atlanta Combined Sewer Model

GEORGIA DEPARTMENT OF NATURAL RESOURCES
City of Atlanta, GA - Proposed Study Map
 EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
 JUNE 22, 1998

0 1.5 3 6 Miles N





Legend

Proposed Streams

- Redefinition
- Leverage Detail Study
- New/Revised Detail Study
- Revised Detail Study (Chattahoochee)
- Leverage Approximate Study
- New/Revised Approximate Study
- New/Revised Zone X Study

Effective Streams

- ZONE X Shaded
- ZONE A
- ZONE AE

Basemap

- Proposed FIRI Panels
- HUC 6 Regional Watershed
- ▨ Combined Sewer Area

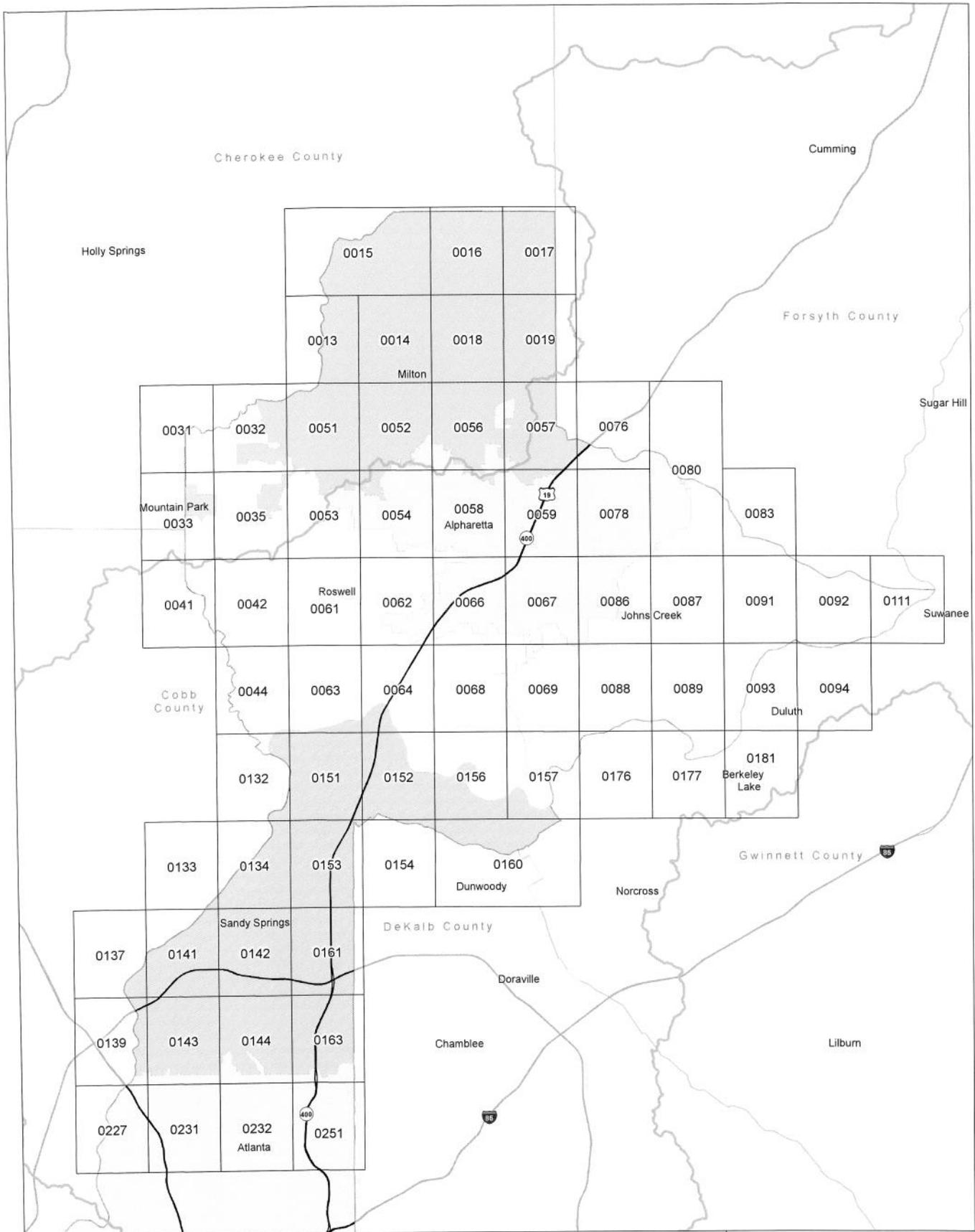
GEORGIA DEPARTMENT OF NATURAL RESOURCES
South Fulton County, GA - Proposed Study Map
 EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
 JUNE 22, 1998

0 1.5 3 6 Miles

GEORGIA
DEPARTMENT OF NATURAL RESOURCES



Appendix D



Legend

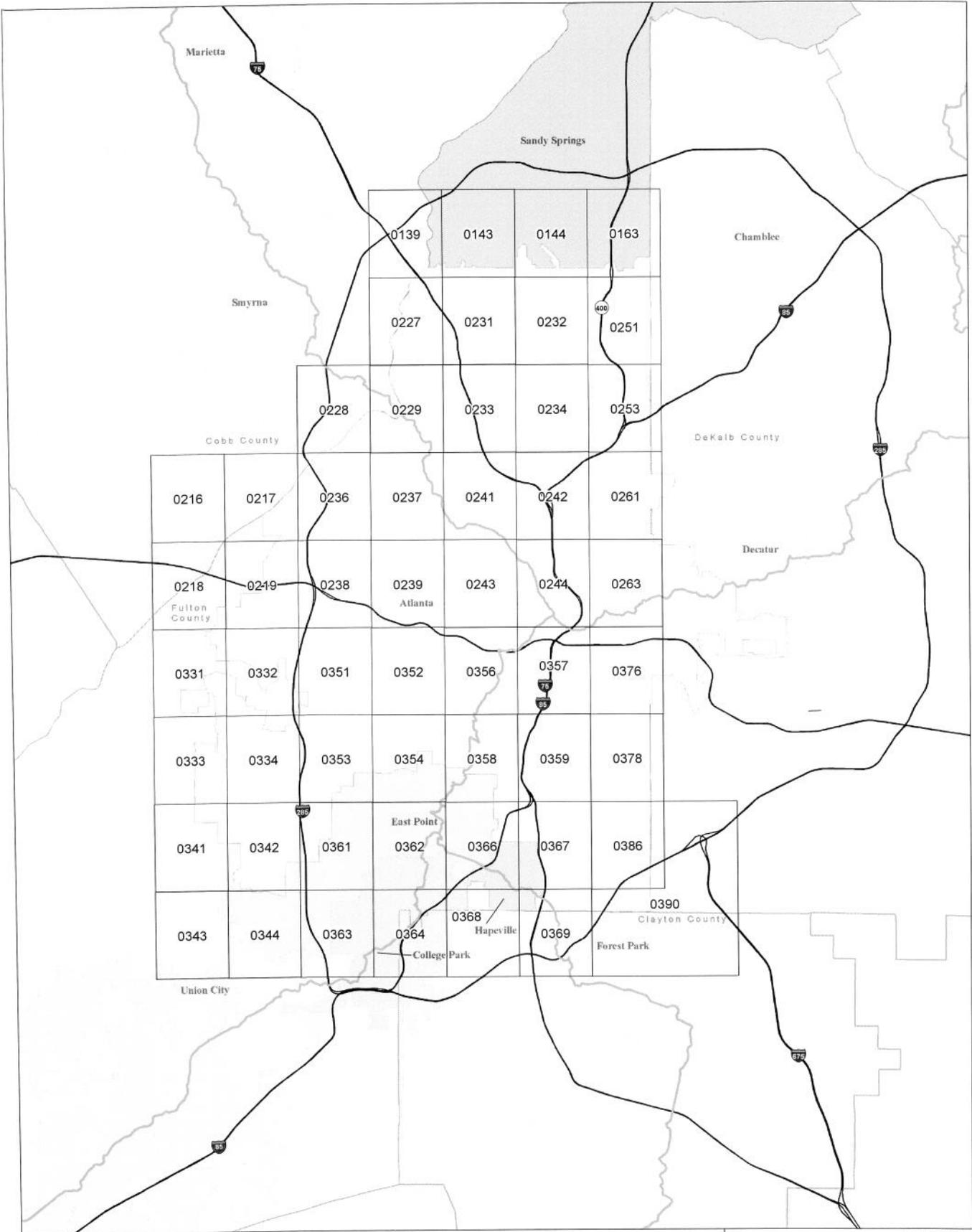
-  Proposed FIRM Panels
-  HUC 8 Regional Watershed

**Proposed Panel Scheme
North Fulton County, GA**



LOCATION MAP





Legend

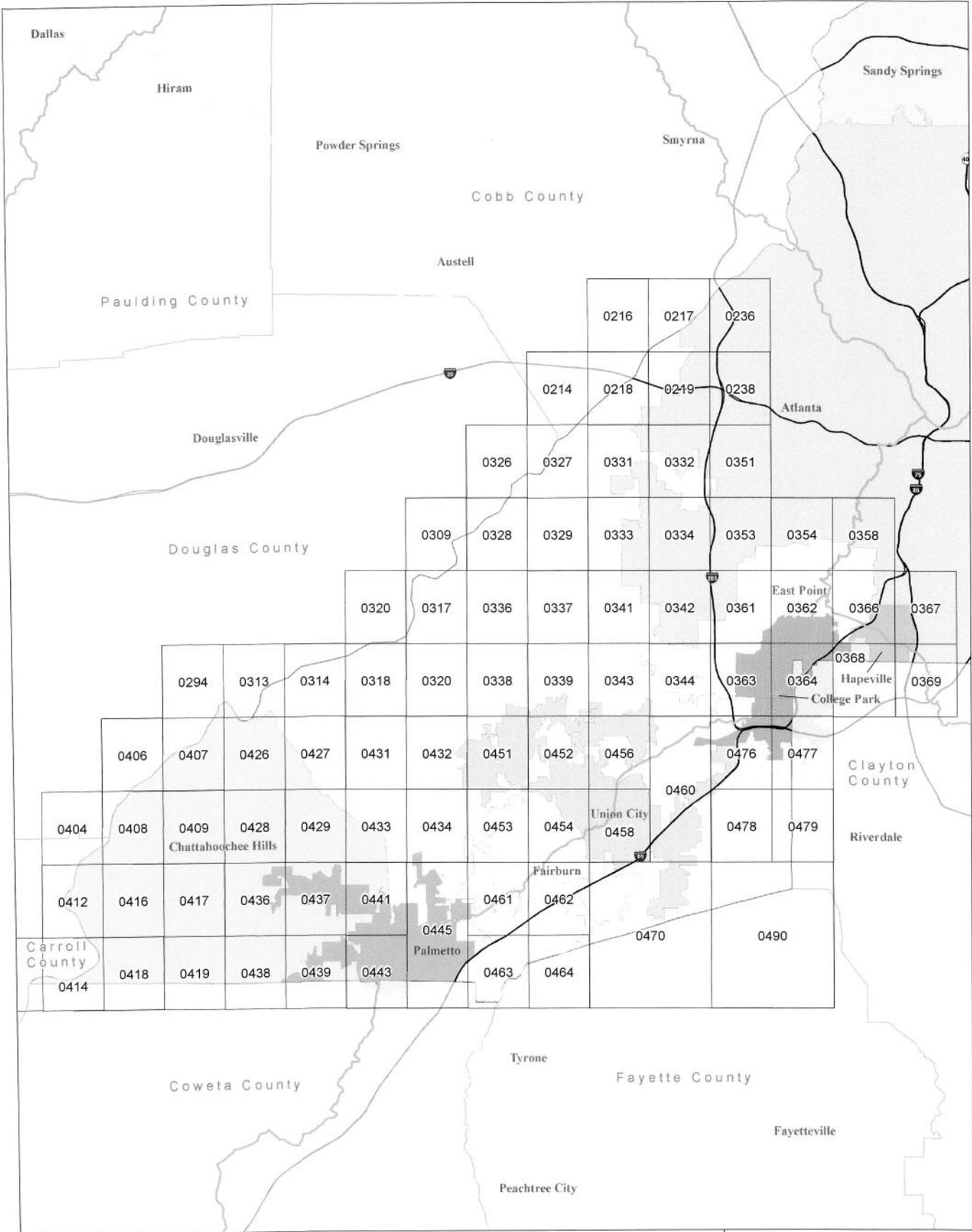
-  Proposed FIRM Panels
-  HUC 8 Regional Watershed

**Proposed Panel Scheme
City of Atlanta, GA**



LOCATION MAP





Legend

-  Proposed FIRM Panels
-  HUC 8 Regional Watershed

**Proposed Panel Scheme
South Fulton County, GA**



0 2 4 8 Miles



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GEORGIA
DEPARTMENT OF NATURAL RESOURCES

LOCATION MAP



Fulton County (South),
Georgia

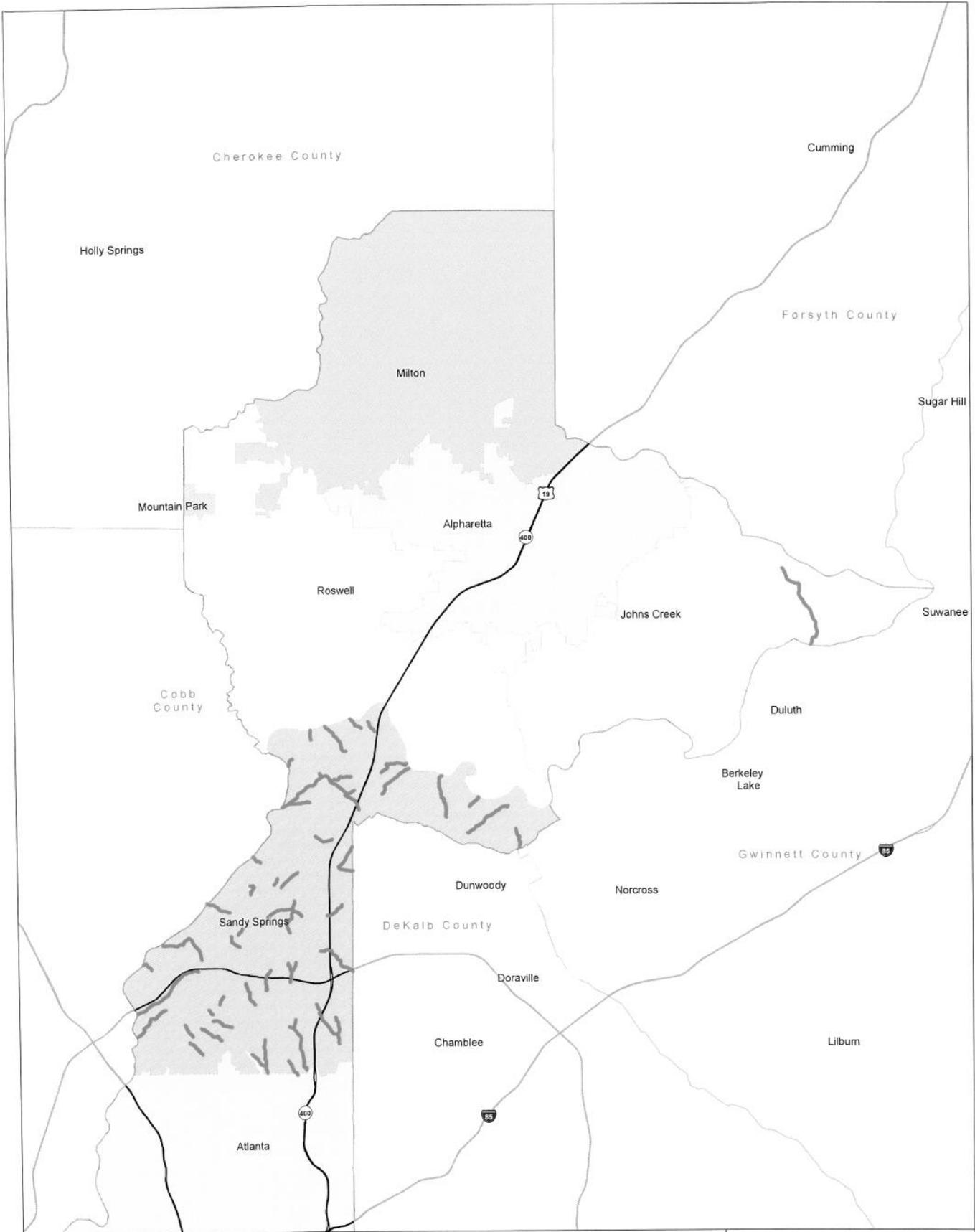
Appendix E

MIP Baseline and Supplemental Data Form

| | | |
|---|-------------------|-------------------|
| Date: April 1, 2010 | Baseline Revised: | |
| PROJECT DESCRIPTION: (i.e. County, State, Contract No., Task Order No) Fulton County, GA - GA DNR MAS FY09.09 | | |
| Performance Period: | Start: 4/1/2010 | Finish: 7/17/2012 |

| Activity | Baseline Task | Baseline Task |
|---|---------------|---------------|
| | Start Date | End Date |
| | (mm/dd/year) | (mm/dd/year) |
| Scoping | 4/1/2010 | 7/2/2010 |
| Perform Field Survey | 4/1/2010 | 9/22/2010 |
| Develop Topographic Data | 9/2/2010 | 9/29/2010 |
| Independent QA/QC of Topographic Data | 9/16/2010 | 9/29/2010 |
| Acquire Base Map | 4/26/2010 | 9/29/2010 |
| Develop Hydrologic Data | 4/1/2010 | 12/1/2010 |
| Independent QA/QC of Hydrologic Data | 11/4/2010 | 11/17/2010 |
| Perform Coastal Analyses | NA | NA |
| Independent QA/QC of Coastal Hazard Analyses | NA | NA |
| Develop Hydraulic Data | 7/30/2010 | 12/8/2010 |
| Independent QA/QC of Hydraulic Data | 8/13/2010 | 12/1/2010 |
| Floodplain Mapping (Detailed Riverine and {Redelineation Using Effective Profiles on new topography, Redelineation (digitization) w/out new topography}, Zone A, merging revised and unrevised data) | 5/31/2010 | 4/27/2011 |
| Independent QA/QC of Floodplain Mapping | 3/24/2011 | 4/20/2011 |
| Develop DFIRM Database | 6/15/2010 | 4/27/2011 |
| Independent QA/QC of DFIRM Database | 3/24/2011 | 4/20/2011 |
| Preliminary Map Production | 4/28/2011 | 6/8/2011 |
| Post-Preliminary Processing | 6/9/2011 | 7/17/2012 |
| Total | | |
| Outreach | | |
| Risk Assessment | | |

Appendix F



Legend

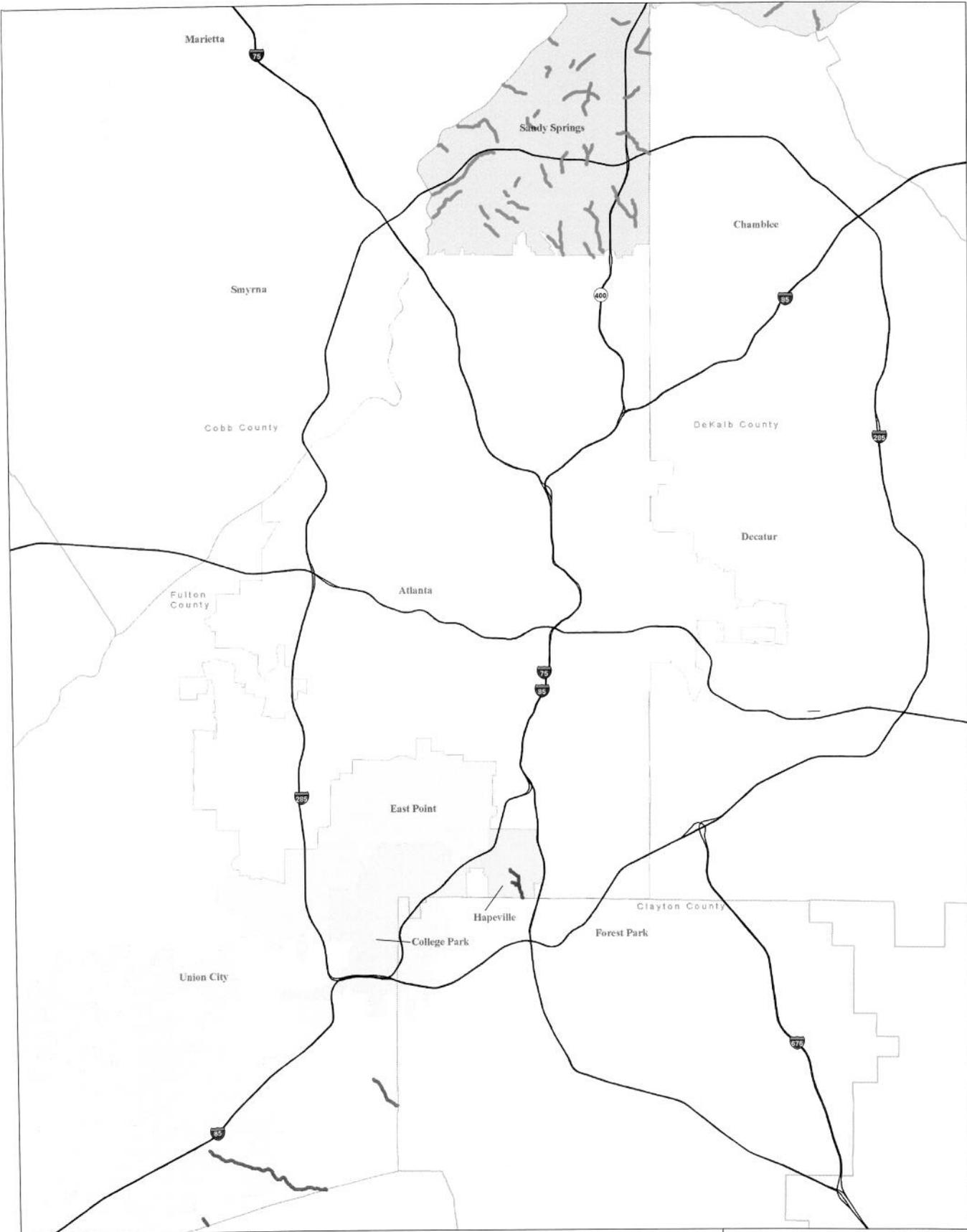
-  Unmet Needs
-  Unmet Requests

**Unmet Needs and Requests
North Fulton County, GA**



LOCATION MAP





Legend

-  Unmet Needs
-  Unmet Requests

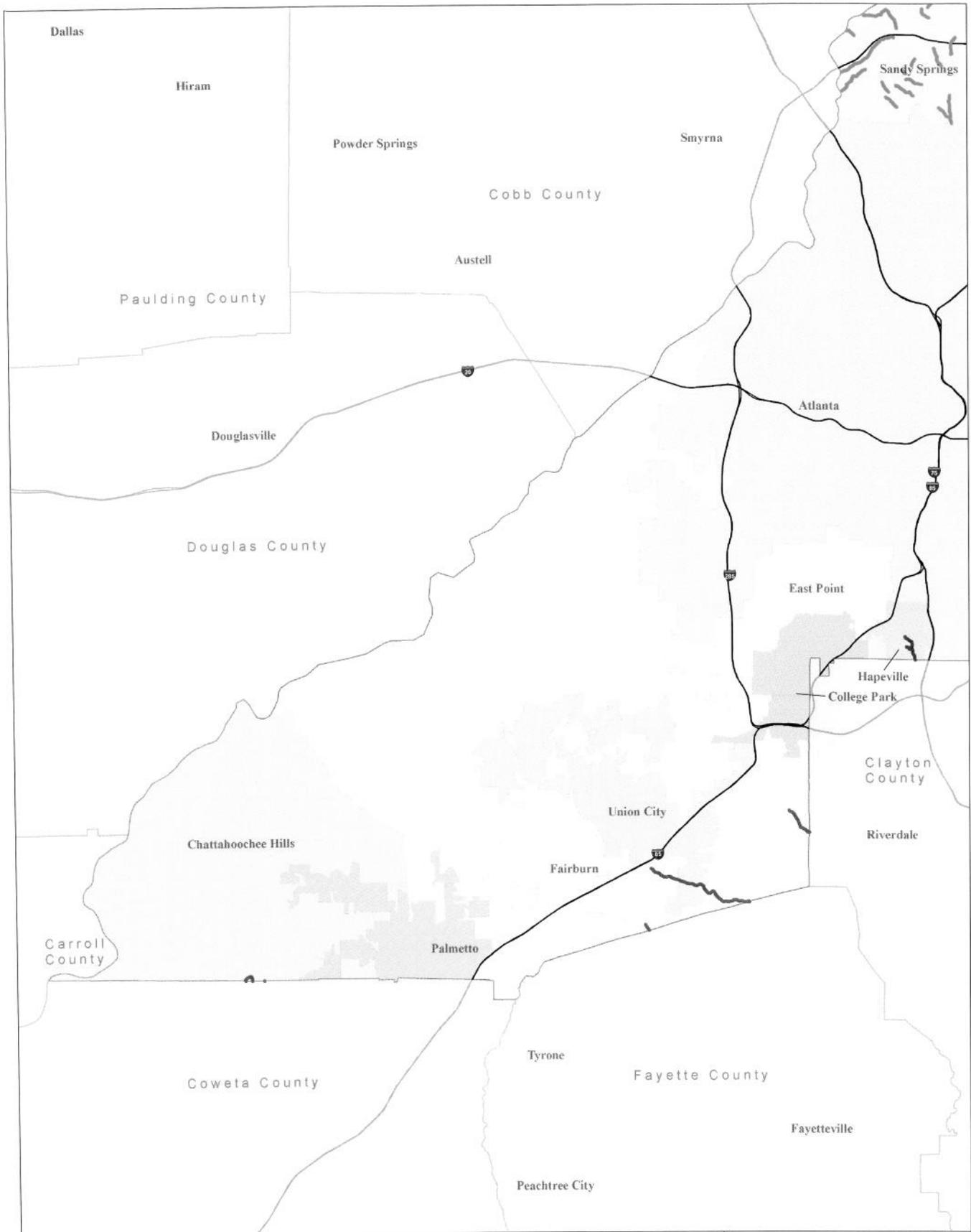
**Unmet Needs and Requests
City of Atlanta**



GEORGIA
DEPARTMENT OF NATURAL RESOURCES

LOCATION MAP





Legend

-  Unmet Needs
-  Unmet Requests

**Unmet Needs and Requests
South Fulton County, GA**



LOCATION MAP

