

ANNEX F

REQUIRED PLANNING DOCUMENTATION

CHATHAM COUNTY MULTI-JURISDICTION PRE-DISASTER HAZARD MITIGATION PLAN

DECEMBER 2015



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HMP / ANNEX F / REQUIRED PLANNING DOCUMENTATION PRE-DISASTER HAZARD MITIGATION PLAN



- I. Public Meeting Notices
- II. Publicity Regarding Hazard Mitigation Planning
- III. Meeting Agendas and Meeting Minutes
- **IV.** Meeting Invitations and Sign-In Sheets



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I. Public notices



For Immediate Release

It is time for Chatham County to update its Hazard Mitigation Plan! The county and participating jurisdictions will be working together to develop a plan that will serve as the blueprint for helping to make our communities more resistant to disasters. This is made possible thanks to a grant awarded by FEMA through the Georgia Emergency Management Agency.

WHY: The purposes of the plan are:

- to protect life and property by reducing the potential for future damages and economic losses that result from natural hazards
- allow the participating communities to qualify for pre and post disaster grant funding
- speed recovery and redevelopment following disaster events
- demonstrate a firm local commitment to hazard mitigation principles
- comply with state and federal legislative requirements.

WHEN: Tuesday, October 21, 2014 from 10:00 am until noon.

WHERE: Garden City planning and Zoning Training Room located at 100 Central Ave, Garden City.

Please make plans to attend this important meeting and learn more about how this plan impacts your community and how you can participate. Should you have any questions, feel free to contact Kate Busbee at 912-201-4500, or Margaret Walton at 919- 357-3299. We look forward to seeing you on October 21!

Meredith Lev

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Public Information Officer/ Emergency Management Specialist

Chatham Emergency Management Agency (CEMA)

Office: 912-201-4508 Cell: 912-657-8671

maley@chathamcounty.org





Clayton S. Scott, Director MEDIA ADVISORY

For Immediate Release

Public Input Needed for County Hazard Mitigation Survey

Savannah, GA – (January 14, 2015)

This is your community. Before a disaster strikes, wouldn't you prefer to have a say in the hazard mitigation process? This is your chance. The county and participating jurisdictions will be working together to develop a plan that will serve as the blueprint for helping to make our communities more resistant to disasters. However, the plan is only as good as public participation. Chatham County residents are encouraged to participate in two ways. First, they can fill out a short survey <u>using this link</u>. Second, citizens may attend a public Hazard Mitigation meeting. The details are below. WHY: The purposes of the plan are:

- to protect life and property by reducing the potential for future damages and economic losses that result from natural hazards
- allow the participating communities to qualify for pre and post disaster grant funding
- speed recovery and redevelopment following disaster events
- demonstrate a firm local commitment to hazard mitigation principles
- comply with state and federal legislative requirements.

WHEN: Thursday, January 22, 2015 from 10:00 am until noon.

WHERE: Bloomingdale City Hall

Please make plans to attend this important meeting and learn more about how this plan impacts your community and how you can participate. Public engagement will impact the Community Rating System (CRS) and can help the county earn points to reduce flood insurance rates for residents. This is made possible thanks to a grant awarded by FEMA through the Georgia Emergency Management Agency.

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Meredith Ley

Public Information Officer/ Emergency Management Specialist

HMP / ANNEX F / REQUIRED PLANNING DOCUMENTATION PRE-DISASTER HAZARD MITIGATION PLAN



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Clayton S. Scott, Director MEDIA ADVISORY

For Immediate Release

Public Participation in Hazard Mitigation Process Will Impact the Community Rating System (CRS)

Savannah, GA - (January 21, 2015)

This is your community. Before a disaster strikes, wouldn't you prefer to have a say in the hazard mitigation process? This is your chance. The county and participating jurisdictions will be working together to develop a plan that will serve as the blueprint for helping to make our communities more resistant to disasters. However, the plan is only as good as public participation. Chatham County residents are encouraged to participate in three ways. First, they can fill out a short survey using this link. Second, citizens are encouraged to attend the Hazard Mitigation public meeting at 10 AM Thursday to learn more about the Hazard Mitigation Process. Finally, citizens can participate as a member of our community advisory panel at 2 p.m., Thursday. The details are below. WHY: The purposes of the plan are:

- to protect life and property by reducing the potential for future damages and economic losses that result from natural hazards
- allow the participating communities to qualify for pre and post disaster grant funding
- speed recovery and redevelopment following disaster events
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- comply with state and federal legislative requirements.

WHEN:

- Public Meeting- Thursday, January 22, 2015 from 10 a.m. until noon.
- Community Advisory Panel, Thursday, January 22, 2015 at 2 p.m.

Any citizen planning on being on the advisory panel must register here

WHERE: Bloomingdale City Hall

Please make plans to attend this important meeting and learn more about how this plan impacts your community and how you can participate. Public engagement will impact the Community Rating System (CRS) and can help the county earn points to reduce flood insurance rates for residents. This is made possible thanks to a grant awarded by FEMA through the Georgia Emergency Management Agency.

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Meredith Ley Public Information Officer/ Emergency Management Specialist Chatham Emergency Management Agency (CEMA)

Office: 912-201-4508 Cell: 912-657-8671

maley@chathamcounty.org





Clayton S. Scott, Director MEDIA ADVISORY

For Immediate Release

TODAY: Public Participation in Hazard Mitigation Process Will Impact the Community Rating System (CRS)

Savannah, GA – (January 22, 2015)

This is your community. Before a disaster strikes, wouldn't you prefer to have a say in the hazard mitigation process? This is your chance. Today, the county and participating jurisdictions will be working together to develop a plan that will serve as the blueprint for helping to make our communities more resistant to disasters. However, the plan is only as good as public participation. Chatham County residents are encouraged to participate in three ways. First, they can fill out a short survey using this link. Second, citizens are encouraged to attend the Hazard Mitigation public meeting at 10 a.m. today to learn more about the Hazard Mitigation Process. Finally, citizens can participate as a member of our community advisory panel at 2 p.m. today. The details are below. WHY: The purposes of the plan are:

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maley@chathamcounty.org



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II. Publicity Regarding Hazard Mitigation Planning

WSAV Channel 3 stories advertising the hazard mitigation plan:

1/6/2015 CEMA And Community Leaders Gather to Plan Hazard Mitigation - Local news, weather, sports Savannah | WSAV On Your Side



CEMA And Community Leaders Gather to Plan Hazard Mitigation

Posted: Oct 21, 2014 10:49 AM EDT Updated: Dec 02, 2014 10:49 AM EST By Shella Parker CONNECT

GARDEN CITY, GA - Officials with Chatham County and each of it's municipalities have gathered in Garden City today to plan an update to the area's Hazard Mitigation Plan.

The plan was first prepared a decade ago and last updated five years ago. The benefits of doing so are two-fold - first, to save lives and protect property; second, to bring money back into the community through Federal and State grants available to help with mitigation efforts.



http://www.wsav.com/story/26841013/cema-and-community-leaders-gather-to-plan-hazard-mitigation



1/6/2015

CEMA And Community Leaders Gather to Plan Hazard Mitigation - Local news, weather, sports Savannah | WSAV On Your Side



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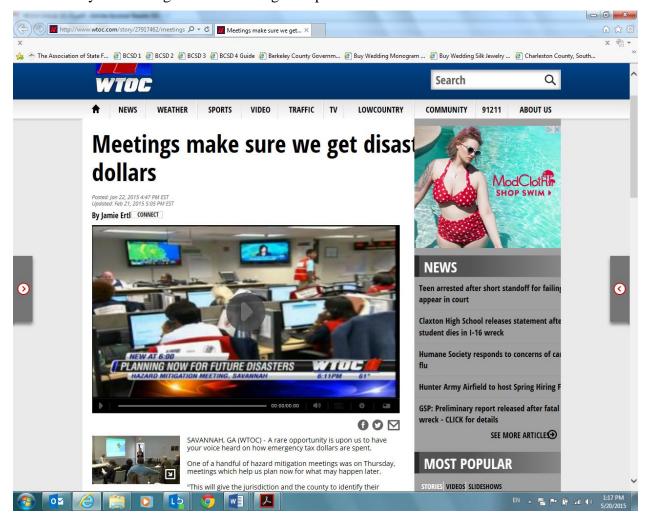
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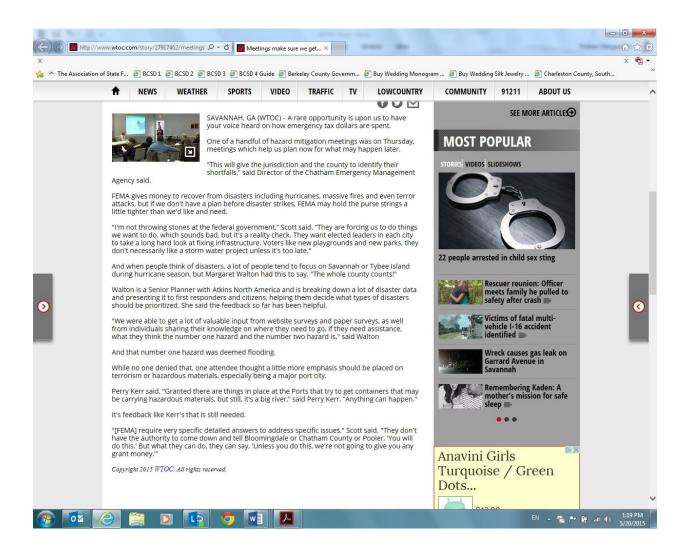
http://www.wsav.com/story/26841013/cema-and-community-leaders-gather-to-plan-hazard-mitigation



WTOC story advertising the hazard mitigation plan:

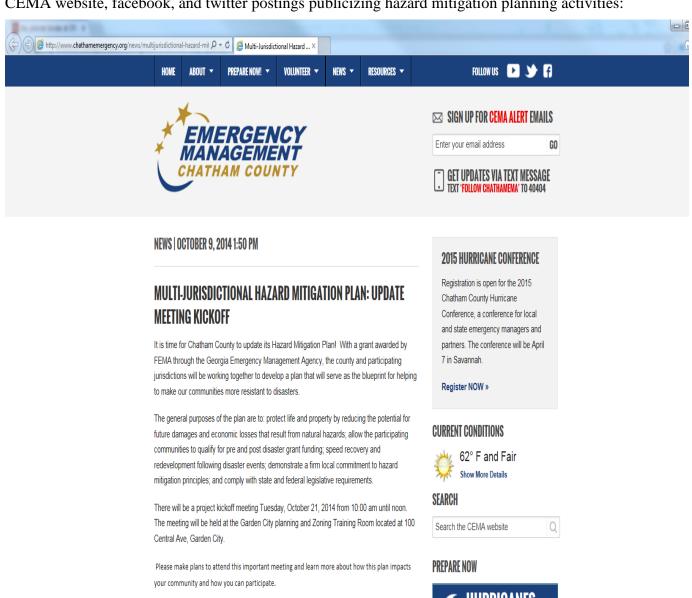








CEMA website, facebook, and twitter postings publicizing hazard mitigation planning activities:





TORNADOES

Should you have any questions, feel free to contact Kate Busbee at 912-201-4500, or Margaret

Walton at 919-357-3299 We look forward to seeing you on October 21!





NEWS | OCTOBER 21, 2014 1:57 PM

YOUR INPUT NEEDED: HELP US REDUCE OUR NATURAL HAZARD

Chatham County is asking for your input as it works to develop a plan to reduce our community's vulnerability to natural hazards. The county has developed an online survey, and is asking residents to complete the survey by January 31st.

The County, along with participating local jurisdictions and other participating partners, are now working to prepare a multi-jurisdictional Hazard Mitigation Plan. The purpose of this Plan is to identify and assess our community's natural hazard risks and determine how to best minimize or manage those risks. Upon completion, the Plan will represent a comprehensive multi-jurisdictional Hazard Mitigation Plan for the County.

This survey questionnaire provides an opportunity for you to share your opinions and participate in the mitigation planning process. The information you provide will help us better understand your hazard concerns and can lead to mitigation activities that should help lessen the impact of future hazard events.

Click here to begin the survey. Thanks in advance for your participation!

To kick off the hazard mitigation planning process, there was an informational meeting on Tuesday, October 21st in Garden City. The following photos were taken during that meeting, including an ice breaker activity for participants.



2015 HURRICANE CONFERENCE

Registration is open for the 2015 Chatham County Hurricane Conference, a conference for local and state emergency managers and partners. The conference will be April 7 in Savannah.

Register NOW »

CURRENT CONDITIONS



55° F and Rain

SEARCH

Search the CEMA website

PREPARE NOW





■ FLOODING

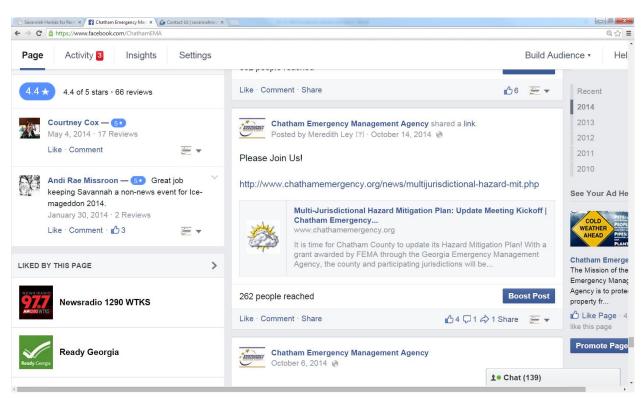








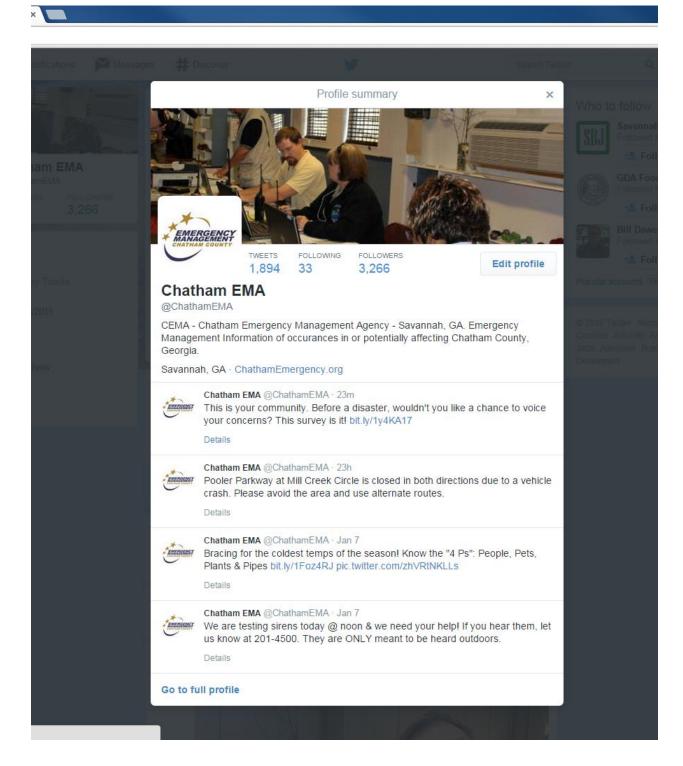








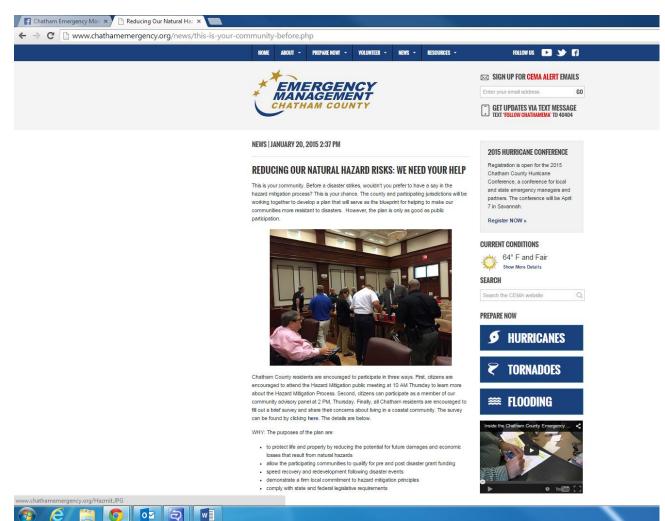








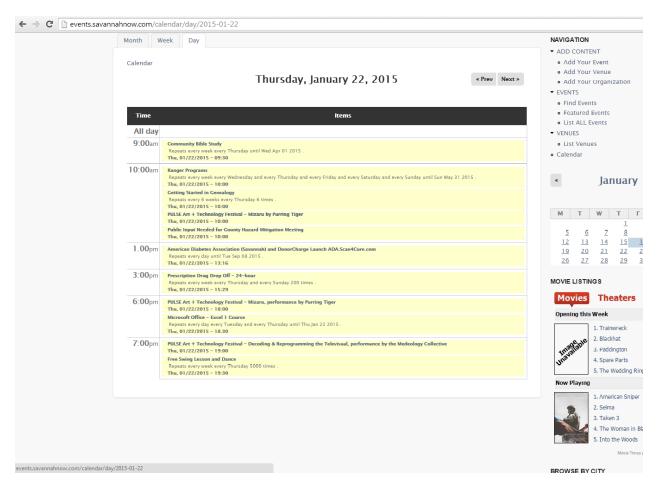
















Chatham EMA

@ChathamEMA

CEMA - Chatham Emergency Management Agency - Savannah, GA. Emergency Management Information of occurances in or potentially affecting Chatham County, Georgia.

Savannah, GA · ChathamEmergency.org

33 FOLLOWING 3,266 FOLLOWERS

Tweets Photos Favorites



Chatham EMA @ChathamEMA

3m

This is your community. Before a disaster, wouldn't you like a chance to voice your concerns? This survey is it! bit.ly/1y4KA17











E-mails to participating partners regarding hazard mitigation planning activities:

Kate Busbee

From: Walton, Margaret M < Margaret.Walton@atkinsglobal.com>

Sent: Friday, October 24, 2014 1:14 PM

To: halll@thempc.org; claire.pelton@gulfstream.com; cynthia.coe@gulfstream.com;

tmcdonald@savannahga.gov; rfeldner@gardencity-ga.gov; Elijah J. Powell; Jill Growe;

Michael Blakely; Maryellen Burner; carmen.young2@redcross.org;

gary@southsidefire.com; Thomas L. Thomson; stuttle@coastalnow.net; ed@georec.net;

ralexander@gardencity-ga.gov; sberry@gardencity-ga.org;

rmerriman@thunderboltga.org; dproudfoot@bloomingdale-ga.com; afields@cityofportwentworth.com; lmoore@cityofportwenworth.com; bjeffcoat@bloomingdale-ga.gov; smcnelly@pooler-ga.gov; Amy Davis;

rlambeth@coastalems.net; jcbrown@cityoftybee.org; Henry Lewandowski; Gregori

Anderson; ajelinski@gardencity-ga.gov; karen@savannahtree.com;

cnguyen@thunderboltga.org; wsimmons@pooler-ga.gov; Lawrence D. Wright; pfjaqibbs@bellsouth.net; Jcarver@POOLER-GA.GOV; jubal.rogers@qulfstream.com

Cc: Kate Busbee; Dennis Jones; Clayton Scott

Subject: Chatham County Hazard Mitigation Plan Update

Attachments: Kick-off Meeting Sign-in.pdf

Good afternoon! Thank you for taking your time to attend the Kick-off Meeting of the Chatham County Hazard Mitigation Plan Update this past Tuesday. We certainly appreciate your participation in this process going forward. As requested, I have included a link to the current County Hazard Mitigation Plan, http://www.chathamemergency.org/documents/%21Chatham%20Base%20HMP_CFA_102110%20FINAL.pdf. I have also attached the meeting sign-in sheet for reference.

Also, the public participation survey is live on CEMA's website at http://www.chathamemergency.org/news/your-input-needed-help-us-redu.php. All of the jurisdictions are welcome to post the link on your website as well. Please encourage your citizens to take the survey.

Our next meeting will be a discussion of the risk assessment and the mitigation strategy for the County and the all of the jurisdictions. I certainly hope you will all plan to attend once the date is set.

Please let me know if you have any questions in the meantime, I am here to help!

Thank you! Margaret Walton

Margaret M. Walton, MPA, CFM

Sr. Planner II

ATKINS

Savannah, GA | Cell: +1 (803) 622 4142 |

Email: margaret.walton@atkinsglobal.com Web: www.atkinsglobal.com/northamerica www.atkinsglobal.com

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Consider the environment. Please don't print this email unless you really need to.

1



Dennis Jones

From: Dennis Jones

Sent: Wednesday, August 07, 2013 4:14 PM

To: Ferman Tyler (chieftyler@bloomingdalefiredept.com); Roy Pike (roylpike@hotmail.com);

Blair Jeffcoat (abjeffcoat@gmail.com); Neal Owens (NOwens@pooler-ga.gov); Wade Simmons (WSimmons@pooler-ga.gov); Bear Fields (afields@cityofportwentworth.com);

Matt Libby (mlibby@cityofportwentworth.com); Mike Godbold GC

(mgodbold@gardencity-ga.gov); Dan Stowers (DStowers01@Savannahga.Gov); Jimmy

C. Brown (JCBrown@cityoftybee.org); bmerriman@thunderboltga.org

Cc: Michael Blakely; Dennis Jones; Kate Busbee; David Grotyohann

Subject: Hazard Mitigation Planning

Time is approaching where we need to begin planning for the next update to the Multi-Jurisdictional Hazard Mitigation Plan (HMP).

For the newbies...the HMP is a federal requirement for all jurisdictions to qualify for hazard mitigation funds. The plan identifies local hazards and threats, then lists a variety of possible mitigation projects necessary to lessen the effects of these hazards and threats. In Georgia, this is a community-wide (multi-jurisdictional) plan and incorporates all governments in the Chatham County border.

We are submitting paperwork for a grant to handle the legwork. It will be a 75/25 grant where the 25% will be matched with in-kind services (all local partners). We will be sending a form letter in the near future for you to put on letterhead and have your City Manager or Mayor sign indicating participation. Our deadline to submit a completed grant package is the end of this month.

Please share this information with your flood plain, zoning, planning, public works, police, and fire department employees (all are involved in the update).

A copy of our current HMP can be found by visiting:

http://www.chathamemergency.org/general/em-program-organization.php



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III. Meeting Agendas and Meeting Minutes

Kick-Off Meeting Agenda:

ATKINS



Chatham County Multi-jurisdictional Hazard Mitigation Plan Update Kick-off Meeting Tuesday, October 21, 2014 10:00 am

- Introductions
- Overview of Mitigation
 - Ice Breaker Exercise
- Project Overview
 - Key Objectives
 - Project Tasks
 - Project Schedule
 - Project Staffing
- Data Collection
- Roles & Responsibilities
- Next Steps
- Questions, Issues, Concerns



CRS Users' Group Meeting Agenda:





Chatham County Multi-jurisdictional Hazard Mitigation Plan Update CRS Users' Group Meeting January 7, 2015 2:00 pm

- Introductions
- Current CRS Status
- Overview of CRS Program and 510 Manual
- Benefits of using Hazard Mitigation Planning for CRS
- Next Steps



Risk Assessment and Mitigation Strategy Meeting Agenda:





Chatham County Multi-jurisdictional Hazard Mitigation Plan Update Risk Assessment and Mitigation Strategy Meeting Thursday, January 22, 2015 10:00 am

- 1) Introductions
- 2) Recap What We're Working On Today
- 3) Risk Assessment Findings
 - a) Hazard History and Profiles
 - b) Conclusions on Risk: PRI
 - c) Critical Facilities
- 4) Capability Assessment Findings
 - a) Indicators
 - b) Results
- 5) Public Participation Survey
 - a) Highlights
- 6) Mitigation Strategy
 - a) Current Goals/Actions
 - b) New Actions
 - c) Discussion
- 7) Next Steps
 - a) Mitigation Actions
 - b) Continue public outreach
- 8) Questions, Issues, or Concerns



Haz510 Advisory Group Meeting Agenda:

ATKINS



AGENDA

Chatham County Multi-Jurisdictional Hazard Mitigation Plan Haz510 Advisory Group Meeting January 22, 2015 2:00 PM

- 1) Welcome and Introductions
- 2) Mitigation Overview
- 3) Project Overview
- 4) Present Initial Findings
- 5) Discuss Mitigation Actions
- 6) Next Steps
- 7) Questions, Issues, or Concerns



Steering Committee Meeting Minutes:

Meeting Minutes Chatham County Hazard Mitigation Plan Update Steering Committee October 7, 2014

Members of the Chatham County Hazard Mitigation Steering Committee met in the County Commissioners' room in the Old Chatham County Courthouse in downtown, Savannah, GA. Kate Busbee, Chatham County's Emergency Management Planning Lead and local point of contact for the project, started the meeting by welcoming the representatives from the participating municipal jurisdictions. The jurisdictions of Chatham County, City of Pooler, City of Bloomingdale, and the City of Garden City all had representatives present.

Ms. Walton led the Steering Committee meeting. She began by providing an overview of the items to be discussed at the meeting, and then she asked the meeting attendees to introduce themselves. Following introductions, she provided a brief overview of mitigation and then explained the six different categories of mitigation techniques (emergency services; prevention; natural resource protection; structural projects; public education and awareness; and property protection) and gave examples of each. Ms. Walton outlined the key objectives of the planning efforts as well as the municipalities' role in the process.

Each project task was detailed to include the risk assessment, hazard identification, and capability assessment along with the most important piece of the mitigation strategy. The necessary documentation and the roles and responsibilities of all of the stakeholders were shared as well as the next steps for the project.

The discussion continued amongst the attendees regarding the Community Rating System benefits to the jurisdictions. Ms. Walton emphasized some additional benefits to the process and how the jurisdictions can implement them.

The next meeting was planned for the official All-Hands Project Kick-off later in October.



Kick-Off Meeting Minutes:

Meeting Minutes Chatham County Multi-Jurisdictional Hazard Mitigation Plan Update Kick-off Meeting October 21, 2014

Clayton Scott, Director for Chatham County Emergency Management Agency, thanked everyone for attending and shared the type of funding that would be available for participating jurisdictions.

Margaret Walton, Project Manager from the project consultant Atkins, led the meeting and began by providing an overview of the agenda items and briefly reviewed each of the handouts that were distributed in the meeting packets (agenda and presentation slides). She then asked each of the meeting attendees to introduce themselves. Following introductions, she provided a brief overview of the meeting agenda and the stages of the mitigation planning process that would be addressed through this plan. Ms. Walton emphasized that mitigation refers to actions (projects, policies, plans) to reduce the impacts of future hazard events. The hazard mitigation planning process looks at hazards, capability to conduct mitigation, and specific activities to reduce impacts of hazards. She explained how Federal legislation requires local governments to have a hazard mitigation plan in place to remain eligible for federal mitigation grants (e.g., HMGP, FMAP, PDM). So, there is funding to implement some of the actions that this plan may identify.

Nathan Slaughter, Mitigation Planning Lead, then laid out all of the mitigation techniques/categories that mitigation actions fall into. He walked through the PowerPoint presentation to outline various examples of each technique and began a discussion of projects that the County and participating jurisdictions might pursue. Following this discussion, Mr. Slaughter led an icebreaker exercise.

He provided instructions to attendees on how to complete the exercise. Attendees were given an equal amount of fictitious FEMA money (\$20 each) and asked to spend it in the various mitigation categories. Money could be thought of as grant money that communities received towards mitigation. Given the windfall of financial resources, attendees target their money towards areas of mitigation that are of greatest concern. Ideally, the exercise helps pinpoint areas of mitigation that the community may want to focus on when developing mitigation grants. Mr. Slaughter explained that the results would be presented at the end of the meeting and also reviewed at the next Hazard Mitigation Planning Committee meeting.

The results were:

- Emergency Services \$192
- Prevention \$147
- Structural Projects \$115
- Property Protection \$111
- Public Education and Awareness \$82
- Natural Resource Protection \$73



Risk Assessment

Mr. Slaughter explained that FEMA requires that plans address natural hazards, but all-hazards approach is becoming more prevalent. Some manmade/technological hazards have been included in the hazard identification, but vulnerability assessment focuses more on the natural hazards since more mitigation funding is available for natural hazards. Mr. Slaughter presented the list of hazards to be addressed in the plan. The Hazard Mitigation Planning Committee made the following suggestions regarding the Hazard Identification:

- Consider adding additional hazard: **sea level rise** It has become a more prominent issue.
- Consider adding additional hazard: **Depletion of wetlands** It was determined that this might be under coastal erosion.
 - Consider additional hazard: tsunami

This has not been addressed because evacuation is already confusing for the general public. The County has tried to make the evacuation route less specific and not solely for hurricanes.

- Consider adding additional hazard: **infectious disease**Currently, this is in the forefront of today's society and it is included in the public health plan.
- Consider adding additional hazard: **Dam failure/inundation** Currently, the US Army Corps of Engineers has a plan for this hazard.

Capability Assessment

Mr. Slaughter explained the community capability assessment and discussed how capability is divided primarily into 3 categories:

- Administrative
- Technical
- Fiscal

Mitigation Strategy

Mr. Slaughter discussed mitigation strategy and how it is developed. He stated that mitigation goals come from the existing plan and the current mitigation actions will be updated. However, all of the jurisdictions will need to develop new actions as well based on the risk assessment.

He continued the presentation by discussing the necessary documentation for the planning process, the current project schedule, and the project team.

Public Involvement

Ms. Walton explained how public comment and participation is a required part of this process. A public survey was developed that the County will be placing on their website. The link will be shared electronically following the meeting and the jurisdictions were asked to post the link on their sites also.

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Next, Ms. Walton discussed the roles and responsibilities of all the parties involved as well as the expectations on the level of involvement. The Atkins team will provide technical assistance, data collection, facilitation, and plan preparation. The County and jurisdictions were asked to be active participants by assisting with data collection, public awareness, hosting committee meetings, mitigation strategy, plan feedback, and plan adoption.

The next steps are to initiate data collection with the risk assessment and capability assessment. The floor was opened for questions and comments.

Clayton Scott closed the meeting by thanking everyone for attending and reiterating the importance of participation.



CRS Users' Group Meeting Minutes:

Meeting Minutes CRS Users' Group January 7, 2015

Members of the Community Rating Users' Group met at the City of Savannah's Development Services Office to review the current ratings of all of the communities participating in the CRS program. Margaret Walton, Atkins Project Manager for the Chatham County Hazard Mitigation Plan Update led the meeting. She outlined what she was going to review based on a previous meeting with Michael Blakely, Chatham County Floodplain Administrator. The jurisdictions of Chatham County, City of Pooler, City of Savannah, the City of Garden City, and City of Tybee Island all had representatives present. The Metropolitan Planning Commission was also represented.

She began by providing an overview of the items to be discussed at the meeting, and then she asked the meeting attendees to introduce themselves. Following introductions, Mrs. Walton stated that there were three main agenda items. The first agenda item was to review the CRS status and rating of the participating jurisdictions as well as the County. The second agenda item was an overview of the CRS program and Section 510 of the CRS Coordinator's Manual. She provided a PowerPoint presentation that walked through part (a) of Section 510 and what CRS points could be garnered for each items. Questions and comments were taken and discussed during the presentation. Next, the discussion of available CRS points in the hazard mitigation plan and process were outlined. She then addressed how hazard mitigation and CRS fit together and can support one another which necessitated the need to form a CRS Advisory Group for the Chatham County Hazard Mitigation Plan Update. The group chose to name the advisory group, Haz510 Advisory Group. A public meeting was planned for Thursday, January 22 to gain value added input for public citizens on the CRS program within the County.



Risk Assessment and Mitigation Strategy Meeting Minutes:

Meeting Minutes January 22, 2015 Risk Assessment and Mitigation Strategy Meeting – Bloomingdale, GA

Ms. Walton initiated the meeting with a review of the meeting handouts, which included an agenda and presentation slides and stating that this would be an interactive meeting. Introductions were made and Ms. Walton began by emphasizing community participation in this planning process. The jurisdictions of Chatham County, Town of Bloomingdale, City of Garden City, City of Pooler, City of Port Wentworth, City of Savannah, Town of Thunderbolt, and the City of Tybee Island were all present. Ms. Walton provided a refresher on the definition of mitigation and mitigation techniques.

Ryan Wiedenman with Atkins then presented the findings of the risk assessment. He reviewed the Presidential Disaster Declarations that have impacted the region. He then explained the process for preparing Hazard Profiles and discussed how each hazard falls into one of four basic categories: Atmospheric, Hydrologic, Geologic, and Other. He indicated that each hazard must be evaluated and formally ruled out if it is not applicable to the study area, even where it seems obvious (such as in the case of volcano).

Mr. Wiedenman reviewed the Hazard Profiles and the following bullets summarize the information

pre	sented:
	DROUGHT. There have been 67 events since 1996 where drought conditions have been reported as severe, extreme or exceptional in the County.
	EXTREME HEAT. There have only been 37 recorded extreme heat events reported since 1996.
	HAILSTORM. There have been 150 recorded events since 1957. Future occurrences are highly likely.
	LIGHTNING. There have been 21 recorded lightning events since 1996 causing 2.7 million in reported property damages. Future occurrences are highly likely.
	TORNADOES. There have been 23 recorded tornado events reported in the region since 1955. There was 16.4 million in property damages. 21 injuries were reported. Future occurrences are likely.
	HURRICANES AND TROPICAL STORMS. NOAA data shows that 115 storm tracks have come within 75 miles of the region since 1850. Future occurrences are likely.
	STORM SURGE. Category 5 Storm Surge is possible and highly likely.
	SEA LEVEL RISE. Has been measured to some degree but future occurrences are highly likely.

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SEVERE THUNDERSTORM WINDS. There have been 387 severe thunderstorm events reported since 1960 with \$6 million in reported property damages. 1 death and 7 injuries have been reported. Future occurrences are highly likely.
WINTER STORM. There have been 24 recorded winter events in the region since 1996 resulting in \$1.6 million in reported property damages. Future occurrences are likely.
EARTHQUAKES. There have been 18 recorded earthquake events in the area since 1811. The strongest had a recorded magnitude of VIII (MMI). Future occurrences are possible.
DAM FAILURE. There are 3 dams in the County. There have been no reported significant failures. Future occurrences are unlikely.
EROSION. Gradual shore line erosion has occurred. Future occurrences are possible.
FLOOD. There have been 79 flood events recorded in the County since 1996, resulting in \$11,981,397 in property damage. There have been 2,615 NFIP losses since 1978 and approximately \$35.6 million in claims. Future occurrences are likely. There have been 399 repetitive loss properties with approximately \$21,117,280 in damages.
WILDFIRE. There is an average of 73 fires per year reported in the area. Future occurrences are likely.
HAZARDOUS MATERIALS INCIDENTS. There have been 644 reported events since 1971. Future occurrences are highly likely.
TERROR THREAT. No historic record of major terrorist events in Chatham County, but events have occurred in Georgia.

The results of the hazard identification process were used to generate a Priority Risk Index (PRI), which categorizes and prioritizes potential hazards as high, moderate or low risk based on probability, impact, spatial extent, warning time, and duration. The highest PRI was assigned to Flood, followed by Storm Surge, Hurricane/Tropical Storm, Severe/Thunderstorm and High Wind, and Tornadoes. It was decided that Lightning should be combined with Thunderstorm/High Wind. Extreme Heat was moved up to moderate risk and Drought was moved down to the low risk.

Discussion of hazardous materials occurred and committee members suggested that transportation of chemicals on the County's roadways might be a hazard. The port was also suggested as an area of interest in regards to hazardous materials because it affects land and water.

An in-depth terrorism discussion also followed. The definition of terrorism was addressed and two additional concerns for the County were raised, St. Paddy's Day festivities and the Rock and Roll Marathon. The St. Paddy's Day activities are the 2nd largest in the US and all of the local transportation means are at risk. The marathon could pose a threat to the Talmadge Bridge which lends into South Carolina.

HMP / ANNEX F / REQUIRED PLANNING DOCUMENTATION PRE-DISASTER HAZARD MITIGATION PLAN



Two other issues that were broached were flooding clarification and fixed nuclear facilities in neighboring counties. An open discussion continued on whether the types of flooding in the County should be more diversified between localized flooding and rainwater flooding.

In concluding the review of Hazard Profiles, Mr. Wiedenman stated if anyone had additional information for the hazard profiles, or disagreed with any of the data presented, they should call or email him with their concerns.

Ms. Walton then provided an overview of the Capability Assessment Findings. Atkins has developed a scoring system that was used to rank the participating jurisdictions in terms of capability in four major areas (Planning and Regulatory; Administrative and Technical; Fiscal; Political). Important capability indicators include National Flood Insurance Program (NFIP) participation, Building Code Effective Grading Schedule (BCEGS) score, Community Rating System (CRS) participation, and the Local Capability Assessment Survey conducted by Atkins. Each jurisdiction was asked to review the completed capability assessments and provide feedback later in February.

Ms. Walton then began the mitigation strategy discussion. The existing mitigation goals, mitigation action worksheets, current mitigation actions for each jurisdiction, and mitigation action recommendations were distributed. The goals currently address protecting people, improving education and outreach, improving capabilities and coordination, and improving data collection. It was agreed that the goals were still appropriate and just needed some minor adjustments to include all of the hazards and protecting the County's resources. She stated that each jurisdiction would need to update their implementation status of their current goals as well as create new ones. Every jurisdiction was instructed to develop new goals for each hazard and to ensure that they had an action addressing flood since all of the jurisdictions are in the NFIP. Ms. Walton stated that she would be available to assist with mitigation action development. She then thanked the group for taking the time to attend and the meeting was adjourned.



Haz510 Advisory Group Meeting Minutes:

Meeting Minutes Chatham County Multi-Jurisdictional Hazard Mitigation Plan Haz510 Advisory Group Meeting January 22, 2015

Margaret Walton, Project Manager from the project consultant Atkins, started the meeting by welcoming the attendees and explaining the purpose of the group, which is to provide input on the Chatham County Multi-Jurisdictional Mitigation Plan. She also introduced, Ryan Wiedenman, the Risk As

Mrs. Walton led the meeting and began by providing an overview of the agenda items and briefly reviewed each of the handouts that were distributed in the meeting packets (agenda and presentation slides). She then asked each of the meeting attendees to introduce themselves. Following introductions, he provided a brief overview of the meeting agenda and the stages of the mitigation planning process that would be addressed through this plan.

She explained how Federal legislation requires local governments to have a hazard mitigation plan in place to remain eligible for federal mitigation grants (e.g., HMGP, FMAP, PDM). So, there is funding to implement some of the actions that this plan may identify.

She emphasized that mitigation refers to actions (projects, policies, plans) to reduce the impacts of future hazard events. The hazard mitigation planning process looks at hazards, capability to conduct mitigation, and specific activities to reduce impacts of hazards. She stressed that a mitigation plan is not a response plan. Mrs. Walton also shared concrete examples of mitigation.

Mrs. Walton explained that all of the jurisdictions in Chatham County are participating in the hazard mitigation plan and the planning process. Atkins is in the process of pulling out and updating relevant information from the existing plan. The project schedule estimates that a draft plan will be available in May 2015.

She explained that there is a Hazard Mitigation Planning Committee which have been working through the steps in the planning process for their respective areas:

- 1. Identify and analyze hazards, risk assessment
- 2. Capability assessment (of local governments)
- 3. Mitigation Strategy specific activities to reduce future impacts
- 4. Documentation and maintenance

Risk Assessment

Mr. Ryan Wiedenman explained that FEMA requires that plans address natural hazards, but all-hazards approach is becoming more prevalent. Some manmade/technological hazards have been included in the hazard identification, but vulnerability assessment focuses more on the natural hazards since more mitigation funding is available for natural hazards. Mr. Wiedenman presented the list of hazards to be addressed in the plan. He explained that the initial list of hazards was approved by both of the regional Work Groups.

The Haz510 Advisory Group made the following suggestions regarding the Hazard Identification:



- Consider adding additional hazards:
 - Potable Water Contamination
 - Currently, there is no reservoir in place to provide potable water if a disaster should impact the current system. It has a large environmental impact on the County as a whole.
 - Power grid failure
 - Fiber line cut
 - Water system failure
 - Potable water contamination
 - Transportation of hazardous materials

The group also discussed fixed nuclear sites outside of the County that could affect them.

The Haz510 Advisory Group made the following suggestions regarding the mitigation strategy:

- Creating a water reservoir
- Set-up revenue insurance for a year
- Assistance for small, private utility groups

The group also discussed additional concerns and issues of burying all of the power lines, the need for a County-wide Forestry Plan, assisting small private utility companies in times of disaster, developing a water reservoir, and acquiring revenue insurance for a year.

Capability Assessment

Mrs. Walton explained the community capability assessment and discussed how capability is divided primarily into 3 categories:

- Administrative
- Technical
- Fiscal

Mrs. Walton explained that results from the capability assessment indicate that capability to implement mitigation measures in Chatham County is in the moderate to high level.

Mitigation Strategy

Mrs. Walton discussed the six mitigation techniques and then presented the mitigation goals for the plan. He explained that the existing plans all have separate goals, which were the basis for the draft goals for the multijurisdictional plan. He then explained how the existing mitigation actions have been compiled as a starting point, and jurisdictions have been asked to update these.

Public Involvement

Mrs. Walton explained how public comment and participation is a required part of this process. A public survey was developed and extensively disseminated on numerous websites, to which over 100 responses were received.

It was stated that a draft plan would be available in May for comments and additional questions. The Group will also have another meeting.

${\it HMP/ANNEX}\ {\it F/REQUIRED}\ {\it PLANNING}\ {\it DOCUMENTATION}\ {\it PRE-DISASTER}\ {\it HAZARD}\ {\it MITIGATION}\ {\it PLAN}$



There being no other questions or topics of discussion, the meeting was adjourned.



IV. Meeting Invitation and Sign-In Sheets

Kick-off Letter Emailed to Chatham County stakeholders:

Re: Chatham County Hazard Mitigation Plan Update

Dear:

It is time for Chatham County to update its Hazard Mitigation Plan! With a grant awarded by FEMA through the Georgia Emergency Management Agency, the county and participating jurisdictions will be working together to develop a plan that will serve as the blueprint for helping to make our communities more resistant to disasters. The general purposes of the plan are to: protect life and property by reducing the potential for future damages and economic losses that result from natural hazards; allow the participating communities to qualify for pre and post disaster grant funding; speed recovery and redevelopment following disaster events; demonstrate a firm local commitment to hazard mitigation principles; and comply with state and federal legislative requirements.

There will be a project kickoff meeting Tuesday, October 21, 2014 from 10:00 am until noon. The meeting will be held at the Garden City Administration Building.

Please make plans to attend this important meeting and learn more about how this plan impacts your community and how you can participate.

Should you have any questions, feel free to contact Kate Busbee at (912-201-4500). We look forward to seeing you on October 21!



Reminder Email to Haz510 Advisory Group:

From: Meredith Ley [maley@chathamcounty.org]

Sent: Tuesday, January 27, 2015 8:59 AM

To: Walton, Margaret M

Subject: FW: HazMit Meetings TOMORROW

From: Meredith Ley

Sent: Wednesday, January 21, 2015 3:27 PM

To: Meredith Ley

Subject: HazMit Meetings TOMORROW

Hello All-

You are receiving this email because you responded that you would be available to sit in and be a member of our Community Advisory Panel at 2 p.m. tomorrow.

Any citizen planning on being on the advisory panel must register here

If you would like to attend the public meeting also, that starts at 10 a.m. No registration required.

If you are unable to attend the ADVISORY PANEL, please let me know.

I apologize that this may seem a little confusing. Nothing like having a bunch going on all at the same time! See you tomorrow.

Meredith Ley
Public Information Officer
Chatham Emergency Management Agency
124 Bull Street, Suite 140
Savannah, GA 31401
912-201-4500
www.chathamemergency.org



Sign Up for Text Allers: Text "Follow ChathamEMA" to 40404



Steering Committee Sign-In Sheet:

Chatham County, GA Multi-jurisdictional Hazard Mitigation Plan Update



ATKINS

Steering Committee Meeting-October 7, 2014

Name	Dept/Org	Phone Number	Email Address
Michael BLAKERY	Engineering	652-7814	Mbl sleery a chathan county . ong
Jacke Carver	City of Poolex	748-7261	JCAIVER @pooler- qq.qw
Daie Proughead	- Cet, of B' Dale	148-57/2	
Kon Alexander	Garden City	5472972	derandere gerdeneity-sais
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Kick-Off Meeting Sing-In Sheets:

Chatham County, GA Multi-jurisdictional Hazard Mitigation Plan Update





Kick-off Meeting-October 21, 2014

Name	Dept/Org	Phone Number	Email Address
LEW'S (SKP) TUHE	magastio mana (RH)	912.656.5583	Stuttle & Coastalnow NET
ED DITOMMASO	60 Rec	912 586 3407	608 60 Rec. NET
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Ros Herander	GC Planny /Zonin		rateranderegardenerty-ga. soi
Sgra Berry	GC Public Works	9126292296	sberry@gardencity-ga.gov
Bob MERROMAN	THUNDERBOTP.D.		rmerriman & thunder bottga. ong
Prane Proudfort	Blooming Vale		1
ETHESTC. GrizzArd	Bloomingdake	748-4501	Africa diset @ bloomingable-galen
Ashley Field	PWFD	966-7425	afields @ City of Port Wentworth Com
Large moore	PWED	210-7707	LMOOTE @ CITY OF PORT WINT WORTH. COM
Blair Jeffunt	BPD	210-1370	bjeffwed e bloomingdde-ge gou
SMCNelly	C-0.P	210-1520	SMENULLY D Pooler-gargov
Any Davis	CC Finance	652-7900	ajdavis @ chathan county, or





Name	Dept/Org	Phone	Email Address
Richard Lambath	Constal Ems	912 240-1000	RLAmbeth & Constol Ems. Net
Jimmy Brown	776ee Island	912-844-	Jebron- Ccity of
FENRY LEWANDOWSKY	MOSQUITO CONTROL	912-790-2540	HBLENAND @ CHATHAM COUNTY,
FREGDEN ANDERSON	CHATCHAM COUNTY BOILDING SAFETY	912-201-4320	gsanderson Cehathamcounty, org
Al Jelinski	Garden City TD.	912-963-2703	ajelinski@gardeneity-ga.gov
Kapen Jenkins	Savannah Tree Fdn	233-TREE	Karono Savannahtree.com
laroune Nauge	in thunserbolt	912 629 4650	(nguyen@ww.aderbateg.org
NADE SIMMONS	Pooler Fire	912 - 748 - 7012	WSIMMONS @pooler-gagov
AUXENCE CONSLIT	Chatlam Counity S.O.	a12-1672-2727	lowing to achathom carry one
PATRICIA F. GIBBS	CEMA/CERT/SAR	(912) 786-6397	pfjagibbs@bellsouth.net
Jacqueline Carrer	City of Poolee	912 148-7261	JCANEL @ podex-qu. gar
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Carnen young	ARC	818-258-3772	carmen. Young 2 eredeross.org
Gary Jarry	South side Fre/Elis		Gay Q Southside Fre, com
Tom Thomson	MPC '	2.0	1 1



CRS Users' Group Sign-In Sheet:

Chatham County, GA Multi-jurisdictional Hazard Mitigation Plan Update



ATKINS

CRS Users Group Sign-in January 7, 2015

Name	Dept/Org	Phone Number	Email Address
Jimmy Brown	tybee Island	912-814-	Jc brown Ocity of Tybes. org
Michael BLAKERY	Chathan County	652-7814	mblacety a chathancounty o.
JIM Growe	Chathan Count	652-7820	Jegrowe achathancoun
Jacqueline Chruer	City of Poolen	748-7261	jearver @ pooler - 99.90V
Son Alexander	Garden City	9/25472972	ratexander @ sar Dencity - so
Tom MCDONALD	CITY OF SAVANNAH	712 651-6530	tmcdonald@Savannehga.gov
Nick Milion	is Chatham Count	(912)652-7946	nmilioni@chathamcounty
Jackie Teel	MPC	651-1454	JACKSANTE themps, ord





Risk Assessment and Mitigation Strategy Meeting Sign-In Sheets:

Chatham County, GA Multi-jurisdictional Hazard Mitigation Plan Update





Risk Assessment and Mitigation Strategy Meeting Sign-in January 22, 2015

PLEAST PRINT LEGIBLY.

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Adom Strong	CCHD	912.356.2991	Adam. Jap Odph-ga-500
Clyd Se V	CENA	9122014,500	(5500 Tachad bacul, ary
meredish day	CEMA	912-201-1/500	MALEY @ Chuthum Cany.
Kate Busbel	CEMA	912-201-4500	Kbusbee @ chatham country c
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GREGORI ANTERSON	CHATHAM COUNTY BUILDING SAFETY	912-201-4320	gsanderson echathan sounty, erg
Jason Blalack	Bryan County Emergency Services	912-334-1402	jblalouke, byan-county org
Caroline Nguyen	thurderbott	0701.00 CIP	





			ORG
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Kin Middleton	CCSO		3 Kymiddle @ chathancont, ofg
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Jackie Teel	MPC	912-657-1450	





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TON MCDONALD	City of SAV	9126516530	tmcdonald@Savannehgz.gov
Con Alexanor	Carden City	9/25472972	ratexandere gardeneity-ga.ga)



Haz510 Advisory Group Meeting Sign-In Sheets:

Chatham County, GA Multi-jurisdictional Hazard Mitigation Plan Update





Haz510 Advisory Group Meeting Sign-in January 22, 2015

PLEAST PRINT LEGIBLY.

Name	Dept/Org	Phone Number	Email Address
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MARCUS Hunt	Cema/cert	901337 2177	MARCUSHUNT/63@yahoo.com
Karen enkins	SAV. TREE FAIN	96.233.8733	Kavene Savannah tree. com
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Jimmy Brown Diane Proudfost	Bloomingdale	0 3.4	deroudfood & Sloomingdale-gacen
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Jackie Teel MPC 912-651-1454 JACKSON JETHEMPC-026 Jil 1 Growe Eng/CC 652-7800 jegrowe Echothamcountry Jackie Cover City of Pooler 748 7261 j CATKE @ pooler 99 gar	TOM MCDONALD	City OF SAUANNAH	9126516530	tmcdonald@Savannahga.gov
Jackie Teel MPC 912-651-1454 JACKSON JETHEMPC-026- Jill Growe Eng/CC 652-7800 jegrowe Echathancountry Jackie Cover City of Pooler 748 7261 jenrice @ poolex 99 gov	Ron Alexander	Garden City	9/25472972	refexendere perdencity-ca. sa
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