

Town of Ravenel

See File "Ravenel AR" for Adopting Resolution

**A RESOLUTION FOR THE ADOPTION OF THE REVISED
CHARLESTON REGIONAL HAZARD MITIGATION PLAN BY
THE TOWN OF RAVENEL**

WHEREAS, the Town of Ravenel has experienced the effects of natural and man-made hazard events; and

WHEREAS, the Charleston Regional Hazard Mitigation Project Committee has prepared a recommended *Charleston Regional Hazard Mitigation Plan*; and

WHEREAS, the recommended *Charleston Regional Hazard Mitigation Plan* has been widely circulated for review by residents/business organizations/professional organizations of the unincorporated and incorporated areas of Charleston County, state, federal, regional and local government agencies and has been supported by those reviewers; and

WHEREAS, the Town of Ravenel originally adopted the *Charleston Regional Hazard Mitigation Plan* in 1999 and readopted it in 2004, and is required to adopt the amended version of this plan on a five-year cycle for the Town to remain eligible for certain Federal programs in which the Town of Ravenel participates, and

NOW, THEREFORE, BE IT RESOLVED that the Town Council of Ravenel hereby declares that:

1. The *Charleston Regional Hazard Mitigation Plan* is hereby adopted as an official plan of the Town of Ravenel, and
2. The Charleston Regional Hazard Mitigation Project Committee is recognized as a continuing entity charged with reviewing, maintaining in accordance with Community Rating System, Flood Mitigation Assistance, and Disaster Mitigation Act requirements, and periodically reporting on the progress towards and revisions to the plan to the Ravenel Town Council.

DONE this 4th Day of September, 2008



OPAL N. BALDWIN, Mayor



MARK A. BLOOMER, Town Clerk

STATUS REPORT FOR RAVENEL, SC

Following are the projects proposed to be undertaken/continued in Ravenel, SC for hazard mitigation during 2010-2011 and their status as of March, 2011:

(Abbreviations for "Type" are as follows: "PA" is Preventive Activities, "PP" is Property Protection Activities, "NB" is Natural and Beneficial Functions/Resource Preservation Activities, "ES" is Emergency Services Activities, "SP" is Structural Projects Activities, and "PI" is Public Information Activities, "GIS" is Geographic Information Systems Activities.)

Type	Activity	Lead Agency	Funding Source	Goal(s) addressed	Priority <i>(1 highest, 4 lowest)</i>	Status as of March, 2011
PA	Continue enforcement of the International series Building-related and Fire codes and the floodplain management regulations (including the one foot freeboard, cumulative substantial improvement clause, and/or other provisions deemed necessary to enhance Community Rating System credits) to maintain participation in the National Flood Insurance Program and the Community Rating System.	Building Services Town of Ravenel	General Fund	Minimize future flood damage; minimize future earthquake damage; minimize future hurricane damage; protect the lives of our citizens from natural and man-made hazards	1	Activities on-going.
PA	Continue to provide coordination of County stormwater management through development and implementation of a comprehensive program. Enhance efforts at improving water quality through the Community Action for a Renewed Environment (CARE) project.	Planning Public Works Building Services Town of Ravenel	General Fund Enterprise Fund Grant Funding	Improve water quality; minimize future flood damage; reduce existing flood damage; educating citizens regarding steps to take to reduce vulnerabilities; improve hazard resistance of infrastructure; reduce vulnerability of our infrastructure to natural and man-made hazards	1	The EPA CARE grant ended December, 2010. One month of programming this year was devoted to stormwater. Final CARE report was submitted to EPA in March, 2011. Other Storm water activities on-going.
PA	Continue implementing the stormwater master plan for Charleston County and the applicable regulations.	Public Works Building Services Planning Town of Ravenel	Enterprise Fund Grant Funding	Minimize future flood damage; minimize future hurricane damage; protect the lives of our citizens from natural and man-made hazards	2	The Stormwater Master Plan was approved by the Community Rating System as meeting the prerequisite for the Class 4 rating. The plan implementation is on-going.

PA	Continue enforcement of zoning regulations, including the low density zoning provisions of the Zoning and Land Development Regulations.	Planning Town of Ravenel	General Fund	Minimize future flood damage; preserve environmental resources; promote long-term economic prosperity; preserve open space; encourage recreational activities; minimize future hurricane damage; minimize future earthquake damage; protecting the lives of our citizens from natural and man-made hazards	1	On-going.
PA	Conduct or co-sponsor training workshops regarding the International Building-related, flood, and Fire Prevention Codes and Regulations, and on sustainable construction / landscaping practices, if there is interest in these workshops	Building Services Town of Ravenel	General Fund/self-supporting through workshop revenues	Educating citizens regarding vulnerability to natural hazards and steps to reduce vulnerability; minimize future flood damage; minimize future earthquake damage; improve hazard resistance of infrastructure; minimize hurricane damage; preserve environmental resources	1	Seven(7) seminars/training sessions on code and/or flood related topics were held during this time period.
PA	Continue providing information to citizens regarding propane tank anchoring	Building Services Town of Ravenel	General Fund/ Grant Funding	Educating citizens regarding vulnerability to natural hazards and steps to reduce vulnerability; minimize future flood damage; minimize future earthquake damage; minimize future hurricane damages; preserve environmental resources	2	Project Impact attended 9 expos during this time period where information was distributed to attendees.
PA	Continue enforcing regulations requiring new manufactured homes brought into Charleston County to be constructed to wind zone 2 requirements as required per State law.	Building Services Town of Ravenel	General Fund	Minimize future hurricane damages; protecting lives of citizens from natural and man-made hazards	1	On-going

PA	Continue prohibiting new manufactured homes to be installed in "V" flood zones and requiring manufactured homes installed in "A" flood zones to be on permanent foundations.	Building Services Town of Ravenel	General Fund	Minimize future flood damage; minimize future earthquake damage; minimize future hurricane damage; protecting lives of citizens from natural and man-made hazards.	1	On-going
PA	Continue the Charleston County Special Inspection program for any jurisdictions that want to use it, unless the State develops a Special Inspection program for use State-wide at which time the County's program will be discontinued.	Building Services Town of Ravenel	General Fund	Minimize future earthquake damage; minimize future hurricane damage; protecting lives of citizens from natural and man-made hazards.	1	On-going. The State of South Carolina was originally scheduled to implement a state-wide special inspection program during 2010, but this was delayed until July, 2011.
PP	Promote the use of voluntary standards for single family residences to exceed minimal building code requirements for wind and seismic design.	Building Services Town of Ravenel	General Fund	Minimize future flood damage; minimize future earthquake damage; minimize future hurricane damage; preserve environmental resources; educating citizens regarding vulnerability to hazards and steps to reduce vulnerability	2	Project Impact attended 9 expos during this time period where information was distributed to attendees.
PP	Promote standards for existing homes to be retrofitted to that exceed minimal codes.	Building Services Town of Ravenel	General Fund	Reduce existing flood damage; preserve environmental resources; minimize future hurricane damages; minimize future earthquake damages; educating citizens regarding vulnerability to hazards and steps to reduce vulnerability	2	Project Impact attended 9 expos during this time period where information was distributed to attendees.
PP	Work cooperatively with the S.C. Dept. of Insurance to promote the SafeHome program to Charleston County residents.	Building Services Town of Ravenel	Grant Funding	Reduce existing flood damage; minimize future hurricane damages	2	Charleston County is represented on the Safe Home Advisory Board and attends periodic meetings to review applications and determine programmatic directions.

PP	Continue providing information to citizens regarding hazard safe interior rooms	Building Services Town of Ravenel	General Fund	Minimize future tornado-related loss of life; Educating citizens regarding vulnerability to hazards and steps which may reduce vulnerability	2	Project Impact attended 9 expos during this time period where information was distributed to attendees.
PP	Continue demolishing structures posing a threat to public safety, considering location within the special flood hazard area as a prioritization factor.	Building Services Town of Ravenel	Grant Funding	Reduce existing flood damages; promote long-term economic prosperity; encourage recreational activities; minimize future hurricane damage; minimize future flood damage; reducing vulnerability of infrastructure to hazards	3	There were 41 substandard structures demolished in the City of North Charleston and Unincorporated Charleston County during this time period.
PP	Seek funding for retrofitting, demolishing, or relocating repetitively flooded properties, if suitable candidates can be identified.	Building Services Town of Ravenel	Grant Funding	Reduce existing flood damage; minimize future flood damage; preserve historic building inventory; reducing vulnerability of built-environment to hazards	1	There were no suitable candidates during this time period.
PP	Continue distributing a brochure on protecting boats from damages during hurricanes to interested citizens through expos, offices, marinas, and boat dealers.	Building Services Town of Ravenel	Grant Funding	Educating citizens regarding steps to take to reduce hazard vulnerability; minimize future hurricane damage; encourage recreational activities; preserve environmental resources, improve water quality	3	Project Impact attended 9 expos during this time period where information was distributed to attendees.
PP	Continue distributing a brochure on protecting and preserving historic artifacts to interested citizens through expos, government offices, etc.	Building Services Town of Ravenel	Grant Funding	Educating citizens regarding steps to take to reduce hazard vulnerability; preserve historic building inventory; minimize future flood damage	2	Project Impact attended 9 expos during this time period where information was distributed to attendees.
PP	Seek funding for retrofitting critical facilities or infrastructure to enhanced hazard resistance in accordance with the County of Charleston Facilities Master Plan Update "Building Utilization and Needs Survey" (2003) or other applicable plans, if funding sources become available.	Building Services Town of Ravenel	Grant Funding	Reduce vulnerability of infrastructure to natural and man-made hazards; minimize future hurricane damage; minimize future earthquake damage; reduce existing flood damage; preserve historic building inventory; promote long-term economic prosperity	1	No hazard mitigation grant funds were available during this time period (<i>there were no Presidential disaster declarations including Charleston County during this reporting cycle</i>).

PP	Continue energy conservation retrofitting of County-owned facilities as resources are available.	Facilities Management Town of Ravenel	General Fund Grant Funding	Improve air quality	2	Charleston County received a grant to install solar panels on the detention center and continued its efforts to reduce energy usage through lighting system enhancements.
NB	Continue enforcement of the tree protection/landscaping ordinance	Planning Town of Ravenel	General Fund	Preserve environmental resources; promote long-term economic prosperity; encourage recreational activities; improve water quality; improve air quality	2	On-going
NB	Continue maintaining permanent open space as parks.	Parks and Recreation Commission Town of Ravenel	General Fund	Preserve environmental resources; promote long-term economic prosperity; encourage recreational activities; minimize future flood damages	2	Charleston County Council approved \$20 million to the Parks and Recreation Commission to purchase 245 acres for a future park site in Mt. Pleasant in December, 2010 (<i>Slade, 2010, December 20</i>).
NB	Continue encouraging the Greenbelt Advisory Board to acquire greenspace in the special flood hazard area, to the extent feasible.	Building Services Parks and Recreation Commission Town of Ravenel	Special Revenue Fund	Preserve environmental resources; promote long-term economic prosperity; encourage recreational activities; minimize future flood damages; improve water quality; improve air quality	2	The Greenspace Program has preserved 15,209 acres to date.

NB	Continue participating in "Build-A-Dune" projects as funding permits, and assist other jurisdictions in participating in this initiative upon request	Building Services, Public Works, Town of Ravenel	Grant Funding	Minimize future flood damage; reduce existing flood damage; preserve environmental resources; improve hazard resistance of infrastructure; minimize future hurricane damage; educating citizens regarding vulnerability to hazard and steps to reduce vulnerability; establishing cooperative relationships between public, private and non-profit sectors to enhance preparedness for hazard events	2	No grant funding was secured for build-a-dune projects during this time period.
NB	Continue to distribute literature on riparian buffer zones and hazard resistant landscaping to citizens through government offices and at expos.	Building Services Town of Ravenel	Partner donations/ Grant Funding	Educating citizens regarding vulnerability to hazards and steps to reduce vulnerability; minimize future flood damage; preserve environmental resources; improve water quality; improve hazard resistance of infrastructure; preserve open space; encourage recreational activities; minimize future hurricane damage; improve water quality; improve air quality	2	Project Impact attended 9 expos during this time period where information was distributed to attendees.
NB	Continue working with scouts on the Project Impact scout patch program	Building Services/ Project Impact partners Town of Ravenel	Grant Funding/ General Fund	Educating citizens regarding vulnerability to hazards and steps to take to reduce that vulnerability; establishing cooperative relationships between the public, private and non-profit sectors to enhance preparedness for hazard events; reducing vulnerability to infrastructure and built-environment to hazard	2	Information on Project Impact and the CARE programs for scouts was provided to the Girl Scouts of Eastern South Carolina Office for inclusion in the troop leaders' manuals.

NB	Develop and implement projects to reduce air and water pollution in Charleston County under the Community Action for a Renewed Environment project	Building Services/ Project Impact partners Town of Ravenel	Grant Funding	Preserve environmental resources; improve water quality; improve air quality	1	Eight (8) 30-minute television programs on air and water quality topics were produced and aired during this time period. There were over 5.1 million viewers of this programming. The <i>Charleston Region Toxics Risk Assessment</i> was updated during this time period.
NB	Encourage cooperation between county departments, other government entities, interested businesses, and citizens regarding recommended sustainable practices to protect environmental quality	Building Services/ Project Impact committee members/ other County Departments as applicable Town of Ravenel	Grant Funding/ General Fund	Preserve environmental resources; improve water quality; improve air quality; promote long term economic prosperity	2	On-going
NB & ES	Continue educating residents about the FireWise program, and encourage participation in this program by interested neighborhoods or communities.	Awendaw Fire Department/ Building Services Town of Ravenel	General Fund/ Grant Funding	Protecting lives of our citizens from man-made hazards; preserve environmental resources; improve hazard resistance of infrastructure; assessing vulnerability to man-made hazards; establishing cooperative relationships between public, private and non-profit sectors to enhance response for hazard events.	2	On-going
ES	Continue hazardous material training	Hazardous Materials Coordinator Town of Ravenel	Enterprise Fund	Protecting lives of our citizens from man-made hazards; minimize future hazardous materials incidents; preserve environmental resources; improve hazard resistance of infrastructure; assessing vulnerability to man-made hazards; establishing cooperative relationships between public, private and non-profit sectors to enhance response for hazard events.	1	On-going

ES	Continue Terrorist Response Training	Hazardous Materials Coordinator Town of Ravenel	General Fund	Protecting lives of our citizens from man-made hazards; minimize future terrorist activity incidents; preserve environmental resources; improve hazard resistance of infrastructure; assessing vulnerability to man-made hazards; establishing cooperative relationships between public, private and non-profit sectors to enhance response for hazard events; promote long-term economic prosperity.	1	On-going
ES	Continue coordinating Emergency Operations Center activities related to a hazard event, including holding drills for EOC personnel.	Emergency Preparedness Town of Ravenel	General Fund	Protecting lives of citizens from natural and man-made hazards; establishing cooperative relationships between public, private and non-profit sectors to enhance response for hazard events; educating citizens regarding vulnerability to hazards and steps to reduce vulnerability; preserve environmental resources; promote long-term economic prosperity	1	The Charleston County Emergency Operations Center was activated twice during this time period. A full activation occurred when the County participated in the state-wide hurricane drill in June, 2010 and a partial activation occurred in January, 2011 when a winter storm struck the area.
ES	Continue responding to hazard emergencies	EMS, Fire Departments, Sheriff Department, Haz. Mat. Coordinator, Emergency Preparedness, Town of Ravenel	General Fund Enterprise Fund	Protecting lives of citizens from natural and man-made hazards; establishing cooperative relationships between public, private and non-profit sectors to enhance response for hazard events; educating citizens regarding vulnerability to hazards and steps to reduce vulnerability; preserve environmental resources; preserve historic building inventory; promote long-term economic prosperity	1	On-going

ES	Continue to require construction practices for new County-owned critical facilities that are sensitive to flood zone (e.g. avoiding "A" and "V" flood zones where feasible) and seismic considerations.	Capital Projects Town of Ravenel	General Fund Bond Funding	Protecting lives of citizens from natural and man-made hazards; reducing vulnerability of infrastructure and built-environment to hazards; minimize future flood damage; minimize future earthquake damage; minimize future hurricane damage	1	During this time period, Charleston County developed plans and solicited construction bids for its consolidated 9-1-1 dispatch center, which will be located further inland than the current center. This 9-1-1 dispatch center will also serve as the Charleston County Emergency Operations Center when it is completed.
ES	Continue working to attain resources and to provide training for maritime fire fighting through the Maritime Incident Response Team (MIRT).	Hazardous Materials Coordinator Town of Ravenel	Grant Funding	Protecting the lives of citizens from man-made hazards; Establishing cooperative relationships between the public, private, and non-profit sectors to enhance preparedness and response for hazard events; Minimize future hazardous materials incidents; minimize future terrorist activity incidents; promote long-term economic prosperity	1	On-going
ES	Maintain the National Weather Service "StormReady" and "TsunamiReady" Community designations.	Emergency Preparedness Town of Ravenel	General Fund	Protecting lives of citizens from natural hazards; educating citizens regarding vulnerability to natural hazards and steps to reduce vulnerability; minimize future tornado-related loss of life; minimize future flood damage; reduce existing flood damage; minimize future hurricane damage; reduce existing flood damage	1	The StormReady and Tsunami Ready designations were renewed in January, 2010 for a three year period. Signs have been placed at strategic locations around the County indicating the StormReady and Tsunami Ready designations.

ES	Continue coordinating the Anti- Terrorism Task Force (COBRA) of specially trained police, fire and EMS personnel to respond to terrorist acts.	Hazardous Materials Coordinator Town of Ravenel	Grant Funding	Protecting lives of our citizens from man-made hazards; minimize future terrorist activity incidents; preserve environmental resources; improve hazard resistance of infrastructure; assessing vulnerability to man-made hazards; establishing cooperative relationships between public, private and non-profit sectors to enhance response for hazard events; promote long-term economic prosperity.	1	On-going
ES	Continue sponsoring the Community Emergency Response Training (CERT) program.	Emergency Preparedness Town of Ravenel	Grant Funding	Protecting lives of citizens from natural and man-made hazards, establishing cooperative relationships between the public, private and non-profit sectors to enhance preparedness and recovery for hazard events; educating citizens regarding vulnerability to hazards and steps to reduce that vulnerability; minimize future terrorist activity incidents	2	There are currently 503 trained CERT volunteers in Charleston County.
ES	Maintain a web-based Emergency Operations Center capability.	Emergency Preparedness Town of Ravenel	General Fund	Protecting lives of citizens from natural and man-made hazards, establishing cooperative relationships between the public, private and non-profit sectors to enhance preparedness and recovery for hazard events; preserve environmental resources; promote long-term economic prosperity	1	On-going

SP	Continue the drainage maintenance and canal cleaning program	Public Works Town of Ravenel	General Fund	Protect the lives of our citizens from natural hazards; reduce existing flood damage; minimize future flood damage; improve water quality; improve hazard resistance of infrastructure; promote long-term economic prosperity	1	On-going
SP	Continue utility right of way permitting, considering emergency vehicle access and flood zone related issues in permitting decisions	Public Works Town of Ravenel	General Fund	Protect the lives of our citizens from natural hazards; reduce existing flood damage; minimize future flood damage; improve hazard resistance of infrastructure; promote long-term economic prosperity	1	On-going
SP	Continue the elevation reference mark inspection program	Public Works Town of Ravenel	General Fund	Minimize future flood damage; Establishing cooperative relationships between public, private and non-profit sectors to enhance preparedness for hazards	1	On-going
SP	Continue to provide design, permitting, and construction services for the drainage improvement projects defined in Attachment VI-C	Public Works Deputy Administrator (Transportation Sales Tax) Town of Ravenel	Grant Funding General Fund	Protect the lives of our citizens from natural hazards; reduce existing flood damage; minimize future flood damage; improve water quality; improve hazard resistance of infrastructure; promote long-term economic prosperity	1	On-going
SP	Continue the road repair/construction program, considering needs during evacuation and soil liquefaction potential in prioritization decisions	Public Works Deputy Administrator (Transportation Sales Tax) Town of Ravenel	General Fund Grant Funding Enterprise Funding	Protect the lives of our citizens from natural hazards; reduce existing flood damage; minimize future flood damage; minimize future earthquake losses; improve hazard resistance of infrastructure; promote long-term economic prosperity	1	On-going

SP	Design/elevate roadways being constructed or reworked through the ½ cent sales tax program to minimize flooding potential to the extent feasible.	Deputy Administrator (Transportation Sales Tax) Town of Ravenel	Special Revenue Funding	Protect the lives of our citizens from natural hazards; reduce existing flood damage; minimize future flood damage; minimize future earthquake losses; improve hazard resistance of infrastructure; promote long-term economic prosperity	1	On-going
SP	Continue to distribute a generator safety brochure to interested generator retail outlets, utility companies and the general public	Building Services Town of Ravenel	Partner donations/ General Fund	Protecting the lives of citizens from natural and man-made hazards; educating citizens regarding vulnerability to natural hazards and steps to reduce vulnerability; improve hazard resistance of infrastructure; minimize future hurricane-related losses	2	Project Impact attended 9 expos during this time period where information was distributed to attendees.
SP	Continue to provide information about the USGS stream gauge program to the public	Building Services Town of Ravenel	Partner donations/ Grant funding	Protecting the lives of citizens from natural hazards; minimize future flood damage; establishing cooperative relationships between the public, private and non-profit sectors to enhance preparedness and response for hazard events	2	Information regarding the stream gauge program is on the Charleston County flood-related information internet site. Many municipalities in the County maintain links to this web page.
PI	Provide hazard related information to all residents of Charleston County through the AT&T telephone book	Building Services Town of Ravenel	General Fund	Protecting the lives of citizens from natural hazards; reduce existing flood damage; minimize future flood damage; minimize future hurricane damage; educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability; improve water quality	1	Flood Information is provided in the A T & T Community Information Pages.

PI	Continue providing hazard-related literature/information to citizens at County offices	Planning Town of Ravenel	General Fund	Protecting the lives of citizens from natural hazards; educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability; minimize future flood damage; minimize future earthquake damage; minimize future tornado-related loss of life; minimize future hurricane damage; minimize future terrorist activity incidents	2	On-going
PI	Mail an outreach project to floodplain residents to those property owners whose property is located in the special flood hazard area.	Building Services Town of Ravenel	General Fund	Protecting the lives of citizens from natural hazards; educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability; minimize future flood damage; minimize future hurricane damage; improve water quality	1	An outreach project to over 10,000 floodplain residents in Unincorporated Charleston County was mailed in February, 2010. Preparations were made for the 2011 mailing during this time period. Many municipalities similarly mailed outreach brochures to floodplain residents during this reporting cycle.
PI	Continue providing speakers to civic groups regarding hazard related activities and environmental quality topics. Update the Speaker's Bureau list as needed.	Building Services Town of Ravenel	General Fund	Protecting the lives of citizens from natural hazards; educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability; improve water quality; improve air quality	1	Presentations were made to 7 groups (professional and school children) during this time period.

PI	Continue programs aimed towards providing resources to local schools to enhance their ability to educate students regarding hazard events and hazard event preparation. Provide educational programs at schools on hazards or environmental quality as opportunities arise.	Building Services/ Project Impact partners Town of Ravenel	Grant Funding/ Project Impact resources	Protecting the lives of citizens from natural hazards; educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability; establishing cooperative relationships between the public, private, and non-profit sectors to enhance preparedness and recovery for hazard events; reducing future flood damage, reducing vulnerability of infrastructure and built environment to natural and man-made hazards; improve water quality; improve air quality	1	Project Impact offered mini-grants to schools during this reporting cycle and sponsored awards for the Lowcountry Science Fair (hazard and environmental quality awards). A 30-minute television program aimed at activities children and youth may undertake to protect the environment aired under the CARE grant during December, 2010. Presentations were made to 4 groups of school children regarding hazard and environmental topics during Science Week.
PI	Continue participating in hazard-related/product or environmental protection-related expos or public events	Building Services Town of Ravenel	General Fund	Protecting the lives of citizens from natural hazards; educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability; establishing cooperative relationships between the public, private, and non-profit sectors to enhance preparedness and recovery for hazard events; improve water quality; improve air quality	2	Project Impact attended 9 expos during this time period where information was distributed to attendees.
PI	Maintain the flood zone frequently asked questions page on the Charleston County web site to provide information on protecting against flood hazards to the public.	Building Services Town of Ravenel	General Fund	educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability	2	On-going

PI	Maintain the Project Impact internet page on the Charleston County web site to relay information on Project Impact events and methods to reduce hazard-related losses to the public.	Building Services Town of Ravenel	General Fund	Establishing cooperative relationships between public, private and non-profit sectors to enhance preparedness and recovery for hazard events; educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability	2	On-going
PI	Maintain a web page with information on environmental resource protection /air and water quality pollution-reduction strategies under the Community Action for a Renewed Environment (CARE) project	Building Services Town of Ravenel	Grant Funding	educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability; Preserve environmental resources; improve water quality; improve air quality	1	New Facebook and "You Tube" sites were created during this reporting cycle as a part of the CARE grant. The television programming produced under the grant is available for viewing on the "You Tube" sites.
PI	Continue educational efforts and initiatives promoting energy conservation.	Building Services Town of Ravenel	General Fund Grant Funding	educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability; improve air quality; preserve environmental resources	2	Two (2) CARE 30-minute television programs focused on energy conservation during this reporting cycle.
PI	Promote environmental pollution reduction strategies through Public Service Announcements; pilot projects; and meetings with government, neighborhood, civic, and professional groups as staff resources permit under the Community Action for a Renewed Environment (CARE) project.	Building Services Town of Ravenel	Grant Funding	educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability; Preserve environmental resources; improve water quality; improve air quality	1	The CARE grant ended December 31, 2010. The Final Technical Report and grant close-out documentation was submitted to the EPA during this reporting period. There were nearly 18.8 million people reached through over 1600 activities and events and 2511 TV program airings during the 3-year period of this grant. Interns from the College of Charleston were also employed under the grant, enhancing their educational experiences.

PI	Continue participating in the Project Impact Outreach Project Strategy for the Community Rating System.	Building Services/ Project Impact committee members Town of Ravenel	General Fund	Establishing cooperative relationships between public, private and non-profit sectors to enhance preparedness and recovery for hazard events; educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability;	1	The Project Impact Public Information Committee approved the Outreach Project Strategy Report that was submitted as a part of the Community Rating system recertification documentation during this time period.
PI	Develop a Facebook page for Project Impact and the CARE project where residents may pose questions, provide input, and view applicable CARE TV programming.	Building Services/ Project Impact committee members Town of Ravenel		Establishing cooperative relationships between public, private and non-profit sectors to enhance preparedness and recovery for hazard events; educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability; Preserve environmental resources; improve water quality; improve air quality	1	The Facebook sites for CARE and Project Impact were established during this reporting period and were advertised in media releases and TV programming under the CARE program. The CARE TV programming is available on the “You Tube” sites for viewing at any time.
GIS	Continue inter-departmental efforts to share geographic digital information and property specific construction-related information	GIS Building Services Planning Emergency Services Town of Ravenel	General Fund Grant Funding	Protecting the lives of citizens from natural hazards; establishing cooperative relationships between the public, private, and non-profit sectors to enhance preparedness and recovery for hazard events	2	On-going

Additional Recommended Projects may be added to this project list as the Project Impact/Disaster Resistant Communities committees consider other projects and recommend these projects for implementation.

ACTION PLAN FOR THE TOWN OF RAVENEL, SC

Following are the proposed projects to be undertaken/continued in the Town of Ravenel for hazard mitigation during 2011-2012:

(Abbreviations for "Type" are as follows: "PA" is Preventive Activities, "PP" is Property Protection Activities, "NB" is Natural and Beneficial Functions/Resource Preservation Activities, "ES" is Emergency Services Activities, "SP" is Structural Projects Activities, and "PI" is Public Information Activities, "GIS" is Geographic Information Systems Activities.)

Type	Activity	Lead Agency	Funding Source	Goal(s) addressed	Priority <i>(1 highest, 4 lowest)</i>
PA	Continue enforcement of the International series Building-related and Fire codes and the floodplain management regulations (including the one foot freeboard, cumulative substantial improvement clause, and/or other provisions deemed necessary to enhance Community Rating System credits) to maintain participation in the National Flood Insurance Program and the Community Rating System.	Building Services Town of Ravenel	General Fund	Minimize future flood damage; minimize future earthquake damage; minimize future hurricane damage; protect the lives of our citizens from natural and man-made hazards	1
PA	Continue to provide coordination of stormwater management through development and implementation of a comprehensive program. Enhance efforts at improving water quality through environmental educational activities.	Planning Public Works Building Services Town of Ravenel	General Fund Enterprise Fund Grant Funding	Improve water quality; minimize future flood damage; reduce existing flood damage; educating citizens regarding steps to take to reduce vulnerabilities; improve hazard resistance of infrastructure; reduce vulnerability of our infrastructure to natural and man-made hazards	1
PA	Continue enforcement of zoning regulations, including the low density zoning provisions of the Zoning and Land Development Regulations.	Planning Town of Ravenel	General Fund	Minimize future flood damage; preserve environmental resources; promote long-term economic prosperity; preserve open space; encourage recreational activities; minimize future hurricane damage; minimize future earthquake damage; protecting the lives of our citizens from natural and man-made hazards	1

PA	Conduct or co-sponsor training workshops regarding the International Building-related, flood, and Fire Prevention Codes and Regulations, and on sustainable construction / landscaping practices, if there is interest in these workshops	Building Services Town of Ravenel	General Fund/self-supporting through workshop revenues	Educating citizens regarding vulnerability to natural hazards and steps to reduce vulnerability; minimize future flood damage; minimize future earthquake damage; improve hazard resistance of infrastructure; minimize hurricane damage; preserve environmental resources	1
PA	Continue providing information to citizens regarding propane tank anchoring	Building Services Town of Ravenel	General Fund/ Grant Funding	Educating citizens regarding vulnerability to natural hazards and steps to reduce vulnerability; minimize future flood damage; minimize future earthquake damage; minimize future hurricane damages; preserve environmental resources	2
PA	Continue enforcing regulations requiring new manufactured homes brought into the Town to be constructed to wind zone 2 requirements as required per State law.	Building Services Town of Ravenel	General Fund	Minimize future hurricane damages; protecting lives of citizens from natural and man-made hazards	1
PA	Continue prohibiting new manufactured homes to be installed in "V" flood zones and requiring manufactured homes installed in "A" flood zones to be on permanent foundations.	Building Services Town of Ravenel	General Fund	Minimize future flood damage; minimize future earthquake damage; minimize future hurricane damage; protecting lives of citizens from natural and man-made hazards.	1
PP	Continue providing information to citizens regarding hazard safe interior rooms	Building Services Town of Ravenel	General Fund	Minimize future tornado-related loss of life; Educating citizens regarding vulnerability to hazards and steps which may reduce vulnerability	2

PP	Continue demolishing structures posing a threat to public safety, considering location within the special flood hazard area as a prioritization factor.	Building Services Town of Ravenel	Grant Funding	Reduce existing flood damages; promote long-term economic prosperity; encourage recreational activities; minimize future hurricane damage; minimize future flood damage; reducing vulnerability of infrastructure to hazards	3
PP	Seek funding for retrofitting, demolishing, or relocating repetitively flooded properties, if suitable candidates can be identified.	Building Services Town of Ravenel	Grant Funding	Reduce existing flood damage; minimize future flood damage; preserve historic building inventory; reducing vulnerability of built-environment to hazards	1
PP	Continue distributing a brochure on protecting boats from damages during hurricanes to interested citizens through expos, offices, marinas, and boat dealers.	Building Services Town of Ravenel	Grant Funding	Educating citizens regarding steps to take to reduce hazard vulnerability; minimize future hurricane damage; encourage recreational activities; preserve environmental resources, improve water quality	3
PP	Continue distributing a brochure on protecting and preserving historic artifacts to interested citizens through expos, government offices, etc.	Building Services Town of Ravenel	Grant Funding	Educating citizens regarding steps to take to reduce hazard vulnerability; preserve historic building inventory; minimize future flood damage	2
PP	Seek funding for retrofitting critical facilities or infrastructure to enhanced hazard resistance, if funding sources become available.	Town of Ravenel	Grant Funding	Reduce vulnerability of infrastructure to natural and man-made hazards; minimize future hurricane damage; minimize future earthquake damage; reduce existing flood damage; preserve historic building inventory; promote long-term economic prosperity	1
NB	Continue enforcement of the tree protection/landscaping ordinance	Planning Town of Ravenel	General Fund	Preserve environmental resources; promote long-term economic prosperity; encourage recreational activities; improve water quality; improve air quality	2

NB	Continue maintaining permanent open space as parks.	Parks and Recreation Commission Town of Ravenel	General Fund	Preserve environmental resources; promote long-term economic prosperity; encourage recreational activities; minimize future flood damages	2
NB	Continue to distribute literature on riparian buffer zones and hazard resistant landscaping to citizens through government offices and at expos.	Building Services Town of Ravenel	Partner donations/ Grant Funding	Educating citizens regarding vulnerability to hazards and steps to reduce vulnerability; minimize future flood damage; preserve environmental resources; improve water quality; improve hazard resistance of infrastructure; preserve open space; encourage recreational activities; minimize future hurricane damage; improve water quality; improve air quality	2
NB	Continue working with scouts on the Project Impact scout patch program	Building Services/ Project Impact partners Town of Ravenel	Grant Funding/ General Fund	Educating citizens regarding vulnerability to hazards and steps to take to reduce that vulnerability; establishing cooperative relationships between the public, private and non-profit sectors to enhance preparedness for hazard events; reducing vulnerability to infrastructure and built-environment to hazard	2
NB	Develop and implement projects to reduce air and water pollution in the Town under the Project Impact partnership.	Building Services/ Project Impact partners Town of Ravenel	Grant Funding	Preserve environmental resources; improve water quality; improve air quality	1

NB	Encourage cooperation between the Town, other government entities, interested businesses, and citizens regarding recommended sustainable practices to protect environmental quality	Building Services/ Project Impact committee members/ other County Departments as applicable Town of Ravenel	Grant Funding/ General Fund	Preserve environmental resources; improve water quality; improve air quality; promote long term economic prosperity	2
ES	Continue hazardous material training	Hazardous Materials Coordinator Town of Ravenel	Enterprise Fund	Protecting lives of our citizens from man-made hazards; minimize future hazardous materials incidents; preserve environmental resources; improve hazard resistance of infrastructure; assessing vulnerability to man-made hazards; establishing cooperative relationships between public, private and non-profit sectors to enhance response for hazard events.	1
ES	Continue Terrorist Response Training	Hazardous Materials Coordinator Town of Ravenel	General Fund	Protecting lives of our citizens from man-made hazards; minimize future terrorist activity incidents; preserve environmental resources; improve hazard resistance of infrastructure; assessing vulnerability to man-made hazards; establishing cooperative relationships between public, private and non-profit sectors to enhance response for hazard events; promote long-term economic prosperity.	1
ES	Continue coordinating Emergency Operations Center activities related to a hazard event, including holding drills for EOC personnel.	Emergency Preparedness Town of Ravenel	General Fund	Protecting lives of citizens from natural and man-made hazards; establishing cooperative relationships between public, private and non-profit sectors to enhance response for hazard events; educating citizens regarding vulnerability to hazards and steps to reduce vulnerability; preserve environmental resources; promote long-term economic prosperity	1

ES	Continue responding to hazard emergencies	EMS, Fire Departments, Sheriff Department, Haz. Mat. Coordinator, Emergency Preparedness, Town of Ravenel	General Fund Enterprise Fund	Protecting lives of citizens from natural and man-made hazards; establishing cooperative relationships between public, private and non-profit sectors to enhance response for hazard events; educating citizens regarding vulnerability to hazards and steps to reduce vulnerability; preserve environmental resources; preserve historic building inventory; promote long-term economic prosperity	1
ES	Continue to require construction practices for new Town-owned critical facilities that are sensitive to flood zone (e.g. avoiding "A" and "V" flood zones where feasible) and seismic considerations.	Town of Ravenel	General Fund Bond Funding	Protecting lives of citizens from natural and man-made hazards; reducing vulnerability of infrastructure and built-environment to hazards; minimize future flood damage; minimize future earthquake damage; minimize future hurricane damage	1
ES	Continue working to attain resources and to provide training for maritime fire fighting through the Maritime Incident Response Team (MIRT).	Hazardous Materials Coordinator Town of Ravenel	Grant Funding	Protecting the lives of citizens from man-made hazards; Establishing cooperative relationships between the public, private, and non-profit sectors to enhance preparedness and response for hazard events; Minimize future hazardous materials incidents; minimize future terrorist activity incidents; promote long-term economic prosperity	1
ES	Continue coordinating the Anti- Terrorism Task Force (COBRA) of specially trained police, fire and EMS personnel to respond to terrorist acts.	Hazardous Materials Coordinator Town of Ravenel	Grant Funding	Protecting lives of our citizens from man-made hazards; minimize future terrorist activity incidents; preserve environmental resources; improve hazard resistance of infrastructure; assessing vulnerability to man-made hazards; establishing cooperative relationships between public, private and non-profit sectors to enhance response for hazard events; promote long-term economic prosperity.	1

ES	Continue sponsoring the Community Emergency Response Training (CERT) program.	Emergency Preparedness Town of Ravenel	Grant Funding	Protecting lives of citizens from natural and man-made hazards, establishing cooperative relationships between the public, private and non-profit sectors to enhance preparedness and recovery for hazard events; educating citizens regarding vulnerability to hazards and steps to reduce that vulnerability; minimize future terrorist activity incidents	2
ES	Maintain a web-based Emergency Operations Center capability.	Emergency Preparedness Town of Ravenel	General Fund	Protecting lives of citizens from natural and man-made hazards, establishing cooperative relationships between the public, private and non-profit sectors to enhance preparedness and recovery for hazard events; preserve environmental resources; promote long-term economic prosperity	1
SP	Continue the drainage maintenance and canal cleaning program	Public Works Town of Ravenel	General Fund	Protect the lives of our citizens from natural hazards; reduce existing flood damage; minimize future flood damage; improve water quality; improve hazard resistance of infrastructure; promote long-term economic prosperity	1
SP	Continue utility right of way permitting, considering emergency vehicle access and flood zone related issues in permitting decisions	Public Works Town of Ravenel	General Fund	Protect the lives of our citizens from natural hazards; reduce existing flood damage; minimize future flood damage; improve hazard resistance of infrastructure; promote long-term economic prosperity	1
SP	Continue the elevation reference mark inspection program	Public Works Town of Ravenel	General Fund	Minimize future flood damage; Establishing cooperative relationships between public, private and non-profit sectors to enhance preparedness for hazards	1

SP	Continue to provide design, permitting, and construction services for the drainage improvement projects defined in Attachment VI-C	Public Works Deputy Administrator (Transportation Sales Tax) Town of Ravenel	Grant Funding General Fund	Protect the lives of our citizens from natural hazards; reduce existing flood damage; minimize future flood damage; improve water quality; improve hazard resistance of infrastructure; promote long-term economic prosperity	1
SP	Continue the road repair/construction program, considering needs during evacuation and soil liquefaction potential in prioritization decisions	Public Works Deputy Administrator (Transportation Sales Tax) Town of Ravenel	General Fund Grant Funding Enterprise Funding	Protect the lives of our citizens from natural hazards; reduce existing flood damage; minimize future flood damage; minimize future earthquake losses; improve hazard resistance of infrastructure; promote long-term economic prosperity	1
SP	Design/elevate roadways being constructed or reworked through the ½ cent sales tax program to minimize flooding potential to the extent feasible.	Deputy Administrator (Transportation Sales Tax) Town of Ravenel	Special Revenue Funding	Protect the lives of our citizens from natural hazards; reduce existing flood damage; minimize future flood damage; minimize future earthquake losses; improve hazard resistance of infrastructure; promote long-term economic prosperity	1
SP	Continue to distribute a generator safety brochure to interested generator retail outlets, utility companies and the general public	Building Services Town of Ravenel	Partner donations/ General Fund	Protecting the lives of citizens from natural and man-made hazards; educating citizens regarding vulnerability to natural hazards and steps to reduce vulnerability; improve hazard resistance of infrastructure; minimize future hurricane-related losses	2
SP	Continue to provide information about the USGS stream gauge program to the public	Building Services Town of Ravenel	Partner donations/ Grant funding	Protecting the lives of citizens from natural hazards; minimize future flood damage; establishing cooperative relationships between the public, private and non-profit sectors to enhance preparedness and response for hazard events	2

PI	Provide hazard related information to all residents of the Town through the AT&T telephone book	Building Services Town of Ravenel	General Fund	Protecting the lives of citizens from natural hazards; reduce existing flood damage; minimize future flood damage; minimize future hurricane damage; educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability; improve water quality	1
PI	Continue providing hazard-related literature/information to citizens at Town offices	Planning Town of Ravenel	General Fund	Protecting the lives of citizens from natural hazards; educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability; minimize future flood damage; minimize future earthquake damage; minimize future tornado-related loss of life; minimize future hurricane damage; minimize future terrorist activity incidents	2
PI	Mail an outreach project to floodplain residents to those property owners whose property is located in the special flood hazard area.	Building Services Town of Ravenel	General Fund	Protecting the lives of citizens from natural hazards; educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability; minimize future flood damage; minimize future hurricane damage; improve water quality	1
PI	Continue providing speakers to civic groups regarding hazard related activities and environmental quality topics. Update the Speaker's Bureau list as needed.	Building Services Town of Ravenel	General Fund	Protecting the lives of citizens from natural hazards; educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability; improve water quality; improve air quality	1

PI	Continue programs aimed towards providing resources to local schools to enhance their ability to educate students regarding hazard events and hazard event preparation. Provide educational programs at schools on hazards or environmental quality as opportunities arise.	Building Services/ Project Impact partners Town of Ravenel	Grant Funding/ Project Impact resources	Protecting the lives of citizens from natural hazards; educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability; establishing cooperative relationships between the public, private, and non-profit sectors to enhance preparedness and recovery for hazard events; reducing future flood damage, reducing vulnerability of infrastructure and built environment to natural and man-made hazards; improve water quality; improve air quality	1
PI	Continue participating in hazard-related/product or environmental protection-related expos or public events	Building Services Town of Ravenel	General Fund	Protecting the lives of citizens from natural hazards; educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability; establishing cooperative relationships between the public, private, and non-profit sectors to enhance preparedness and recovery for hazard events; improve water quality; improve air quality	2
PI	Maintain link to the flood zone frequently asked questions page on the Charleston County web site to provide information on protecting against flood hazards to the public.	Building Services Town of Ravenel	General Fund	educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability	2
PI	Continue educational efforts and initiatives promoting energy conservation.	Building Services Town of Ravenel	General Fund Grant Funding	educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability; improve air quality; preserve environmental resources	2
PI	Continue participating in the Project Impact Outreach Project Strategy for the Community Rating System.	Building Services/ Project Impact committee members Town of Ravenel	General Fund	Establishing cooperative relationships between public, private and non-profit sectors to enhance preparedness and recovery for hazard events; educating citizens regarding their vulnerability to natural hazards and steps to take to reduce vulnerability;	1

Additional Recommended Projects may be added to this project list as the Project Impact/Disaster Resistant Communities committees consider other projects and recommend these projects for implementation.