

North Charleston Sewer District

See File "N. Charleston Sewer Dist. AR" for Adopting Resolution

RESOLUTION 2008-10

A RESOLUTION FOR THE ADOPTION OF THE REVISED *CHARLESTON REGIONAL HAZARD MITIGATION PLAN*.

Whereas, the North Charleston Sewer District and the County of Charleston 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,

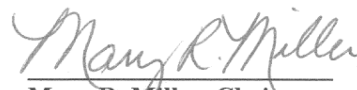
Whereas, the recommended *Charleston Regional Hazard Mitigation Plan* has been widely circulated for review by residents/business organizations/professional organizations of the unincorporated and incorporated areas of Charleston County, state, federal, regional and local government agencies and has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

Whereas, the North Charleston Sewer District 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 North Charleston Sewer District to remain eligible for certain Federal programs in which Charleston County participates, and

Now, therefore, be it resolved that:

1. The *Charleston Regional Hazard Mitigation Plan* is hereby adopted as an official plan of the North Charleston Sewer District, 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 the North Charleston Sewer District will participate on their Committee.

The chairman declared this resolution duly adopted this 11th day of August, 2008.


Mary R. Miller, Chairman

Attest:

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2010-2011 STATUS REPORT NORTH CHARLESTON SEWER DISTRICT

The North Charleston Sewer District is located in Charleston County, SC.

The following are proposed projects to be undertaken/continued in the North Charleston Sewer District 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, "PI" is Public Information Activities, and "GIS" is Geographic Information System Activities.)

<i>Type</i>	<i>Activity</i>	<i>Lead Agency</i>	<i>Funding Source</i>	<i>Goal(s) Addressed</i>	<i>Priority (1-highest, 4-lowest)</i>	<i>Status As of March, 2011</i>
PA	Continue enforcement of the Sewer Disposal Use Resolution.	Administrative Division	General Fund	Minimize future flood damage; protect the lives of our citizens from man-made hazards.	1	On-going Draft revision under staff review
PA	Continue enforcing regulation requiring new manholes to be elevated above the 50 year flood elevation.	Systems Division	General Fund	Minimize future flood damage; protect the lives of our citizens from man-made hazards.	1	On-going
PA	Implement cMOM	Systems Division	General Fund	Minimize the potential for sanitary sewer system overflows	1	On-going
PP	Continue to discourage connection to the sewer system of buildings where the lowest floor of the building is at an elevation lower than one (1) foot above the top of the next upstream manhole.	Systems Division	General Fund	Minimize future flood damage; protect the lives of our citizens from man-made hazards.	1	On-going
PP	Seek funding for retrofitting critical facilities to enhanced hazard resistance if funding sources become available.	Systems Division	Grant Funding	Reduce vulnerability of infrastructure to natural and man-made hazards; minimize future hurricane damage; minimize future earthquake damage; reduce existing flood damage; promote long term economic prosperity.	1	On-going
PP	Continue providing information to citizens about hazard of improper grease disposal.	Industrial Pretreatment	General Fund	Minimize future flood damage; protect the lives of our citizens from man-made hazards.	2	On-going

NB	Continue support of the SC Water Quality Association.	Administrative Division	General Fund	Preserve environmental resources; promote long term economic prosperity; encourage recreational activities.	2	On-going
NB	Continue support of the Cooper River Water Users Association.	Systems Division	General Fund	Preserve environmental resources; promote long term economic prosperity; encourage recreational activities.	2	On-going
ES	Continue to provide hazard communication, anti-terrorism, and emergency preparedness training to employees.	Systems Division	General Fund	Protecting lives of our citizens from man-made hazards; minimize future hazardous materials incidents; preserve environmental resources; assessing vulnerability to man-made hazards.	1	On-going
ES	Continue to provide Designated First Aid Response Team and associated supplies at the Stall Road and Herbert Street facilities.	Systems Division	General Fund	Protecting lives of our citizens from man-made hazards; minimize future hazardous materials incidents; preserve environmental resources; assessing vulnerability to man-made hazards.	2	On-going Team was recertified for CPR
ES	Continue the Process Safety Management and Risk Management Programs.	Plant Division	General Fund	Protecting lives of our citizens from man-made hazards; minimize future hazardous materials incidents; preserve environmental resources; assessing vulnerability to man-made hazards.	1	On-going
ES	Continue to provide visitors and contractors hazard materials orientation at the Herbert Street facility.	Plant Division	General Fund	Protecting lives of our citizens from man-made hazards; minimize future hazardous materials incidents; preserve environmental resources; assessing vulnerability to man-made hazards.	1	On-going
ES	Continue to include contractor and visitor safety program as part of our construction contracts.	System Division	General Fund	Protecting lives of our citizens from man-made hazards; minimize future hazardous materials incidents; preserve environmental resources; assessing vulnerability to man-made hazards.	1	On-going

ES	Continue to attend LECP meetings and emergency response exercises.	System Division	General Fund	Protecting lives of our citizens from man-made hazards; minimize future hazardous materials incidents; preserve environmental resources; assessing vulnerability to man-made hazards.	2	On-going
ES	Continue to host LECP sponsored emergency response exercises.	Plant Division	General Fund	Protecting lives of our citizens from man-made hazards; minimize future hazardous materials incidents; preserve environmental resources; assessing vulnerability to man-made hazards.	2	On-going
SP	Include construction practices that are sensitive to flood, seismic and hurricane considerations on all facility upgrade projects.	Systems Division	General Fund	Minimize future flood damage; protect the lives of our citizens from man-made hazards; improve water quality; improve hazard resistance of infrastructure; promote long term economic growth.	2	On-going
SP	Continue to use manhole inserts in flood prone areas.	Systems Division	General Fund	Minimize future flood damage; protect the lives of our citizens from man-made hazards; improve water quality; improve hazard resistance of infrastructure; promote long term economic growth.	3	On-line
SP	Continue to use submersible or dry pit submersible pumps for new or upgraded pump stations.	Systems Division	General Fund	Minimize future flood damage; protect the lives of our citizens from man-made hazards; improve water quality; improve hazard resistance of infrastructure; promote long term economic growth.	2	On-going
PI	Continue fats, oils, and grease public education program.	Industrial Pretreatment	General Fund	Educating citizens regarding their vulnerability to man-made hazards and steps to take to reduce vulnerability.	2	On-going
PI	Continue providing annual report to citizens.	Administrative Division	General Fund	Educating citizens regarding their vulnerability to man-made hazards and steps to take to reduce vulnerability.	2	On-going
PI	Continue to provide information about the hazards associated with chlorine and sulfur dioxide use.	Administrative Division	General Fund	Educating citizens regarding their vulnerability to man-made hazards and steps to take to reduce vulnerability.	2	On-going

PI	Continue to provide speakers to civic groups regarding sewer district operations.	Administrative Division	General Fund	Protecting the lives of citizens from man-made hazards; educating citizens regarding their vulnerability to man-made hazards and steps to take to reduce vulnerability.	3	On-going
PI	Continue to maintain NCSD web page.	Administrative Division	General Fund	Educating citizens regarding their vulnerability to man-made hazards and steps to take to reduce vulnerability.	3	On-going
GIS	Continue to update the GIS System	System Division	General Fund	Minimize future flood damage; protect the lives of our citizens from man-made hazards; improve water quality; improve hazard resistance of infrastructure; promote long term economic growth.	3	On-going
PI	Educate citizens about proper disposal of unwanted medicine	Industrial Pretreatment	General Fund	Unwanted and expired medicine may be a risk to human health and the environment if disposed of improperly	2	On-going

The North Charleston Sewer District shall, through Project Impact, provide support to the many activities and projects that will benefit the residents of the NCSD. Additional recommended projects may be added to this project list as other projects are recommended to the North Charleston Sewer District Commission. Some Projects that are being undertaken by other jurisdictions may not necessarily be listed here but may affect the North Charleston Sewer District.

2011-2012 ACTION PLAN FOR THE NORTH CHARLESTON SEWER DISTRICT

The North Charleston Sewer District is located in Charleston County, SC.

The following are proposed projects to be undertaken/continued in the North Charleston Sewer District 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, “PI” is Public Information Activities, and “GIS” is Geographic Information System Activities.)

<i>Type</i>	<i>Activity</i>	<i>Lead Agency</i>	<i>Funding Source</i>	<i>Goal(s) Addressed</i>	<i>Priority (1-highest, 4-lowest)</i>
PA	Continue enforcement of the Sewer Disposal Use Resolution.	Administrative Division	General Fund	Minimize future flood damage; protect the lives of our citizens from man-made hazards.	1
PA	Continue enforcing regulation requiring new manholes to be elevated above the 50 year flood elevation.	Systems Division	General Fund	Minimize future flood damage; protect the lives of our citizens from man-made hazards.	1
PA	Implement cMOM	Systems Division	General Fund	Minimize the potential for sanitary sewer system overflows	1
PA	Continue reduction of Inflow and Infiltration (I&I) into the treatment system.	Engineering	General Fund	Minimize the potential for sanitary sewer overflows (SSOs), maximize WWTP treatment capacity.	1
PP	Continue to discourage connection to the sewer system of buildings where the lowest floor of the building is at an elevation lower than one (1) foot above the top of the next upstream manhole.	Systems Division	General Fund	Minimize future flood damage; protect the lives of our citizens from man-made hazards.	1
PP	Seek funding for retrofitting critical facilities to enhance hazard resistance if funding sources become available.	Systems Division	Grant Funding	Reduce vulnerability of infrastructure to natural and man-made hazards; minimize future hurricane damage; minimize future earthquake damage; reduce existing flood damage; promote long term economic prosperity.	1

PP	Continue providing information to citizens about hazard of improper grease disposal.	Industrial Pretreatment	General Fund	Minimize future flood damage; protect the lives of our citizens from man-made hazards.	2
NB	Continue support of the SC Water Quality Association.	Administrative Division	General Fund	Preserve environmental resources; promote long term economic prosperity; encourage recreational activities.	2
NB	Continue support of the Cooper River Water Users Association.	Systems Division	General Fund	Preserve environmental resources; promote long term economic prosperity; encourage recreational activities.	2
ES	Continue to provide hazard communication, anti-terrorism, and emergency preparedness training to employees.	Systems Division	General Fund	Protecting lives of our citizens from man-made hazards; minimize future hazardous materials incidents; preserve environmental resources; assessing vulnerability to man-made hazards.	1
ES	Continue to provide Designated First Aid Response Team and associated supplies at the Stall Road and Herbert Street facilities.	Systems Division	General Fund	Protecting lives of our citizens from man-made hazards; minimize future hazardous materials incidents; preserve environmental resources; assessing vulnerability to man-made hazards.	2
ES	Continue the Process Safety Management and Risk Management Programs.	Plant Division	General Fund	Protecting lives of our citizens from man-made hazards; minimize future hazardous materials incidents; preserve environmental resources; assessing vulnerability to man-made hazards.	1
ES	Continue to provide visitors and contractors hazard materials orientation at the Herbert Street facility.	Plant Division	General Fund	Protecting lives of our citizens from man-made hazards; minimize future hazardous materials incidents; preserve environmental resources; assessing vulnerability to man-made hazards.	1
ES	Continue to include contractor and visitor safety program as part of our construction contracts.	System Division	General Fund	Protecting lives of our citizens from man-made hazards; minimize future hazardous materials incidents; preserve environmental resources; assessing vulnerability to man-made hazards.	1

ES	Continue to attend LECP meetings and emergency response exercises.	System Division	General Fund	Protecting lives of our citizens from man-made hazards; minimize future hazardous materials incidents; preserve environmental resources; assessing vulnerability to man-made hazards.	2
ES	Continue to host LECP sponsored emergency response exercises.	Plant Division	General Fund	Protecting lives of our citizens from man-made hazards; minimize future hazardous materials incidents; preserve environmental resources; assessing vulnerability to man-made hazards.	2
SP	Include construction practices that are sensitive to flood, seismic and hurricane considerations on all facility upgrade projects.	Systems Division	General Fund	Minimize future flood damage; protect the lives of our citizens from man-made hazards; improve water quality; improve hazard resistance of infrastructure; promote long term economic growth.	2
SP	Continue to use manhole inserts in flood prone areas.	Systems Division	General Fund	Minimize future flood damage; protect the lives of our citizens from man-made hazards; improve water quality; improve hazard resistance of infrastructure; promote long term economic growth.	3
SP	Continue to use submersible or dry pit submersible pumps for new or upgraded pump stations.	Systems Division	General Fund	Minimize future flood damage; protect the lives of our citizens from man-made hazards; improve water quality; improve hazard resistance of infrastructure; promote long term economic growth.	2
PI	Continue fats, oils, and grease public education program.	Industrial Pretreatment	General Fund	Educating citizens regarding their vulnerability to man-made hazards and steps to take to reduce vulnerability.	2
PI	Continue providing annual report to citizens.	Administrative Division	General Fund	Educating citizens regarding their vulnerability to man-made hazards and steps to take to reduce vulnerability.	2
PI	Continue to provide information about the hazards associated with chlorine and sulfur dioxide use.	Administrative Division	General Fund	Educating citizens regarding their vulnerability to man-made hazards and steps to take to reduce vulnerability.	2

PI	Continue to provide speakers to civic groups regarding sewer district operations.	Administrative Division	General Fund	Protecting the lives of citizens from man-made hazards; educating citizens regarding their vulnerability to man-made hazards and steps to take to reduce vulnerability.	3
PI	Continue to maintain NCSD web page.	Administrative Division	General Fund	Educating citizens regarding their vulnerability to man-made hazards and steps to take to reduce vulnerability.	3
GIS	Continue to update the GIS System	Engineering	General Fund	Minimize future flood damage; protect the lives of our citizens from man-made hazards; improve water quality; improve hazard resistance of infrastructure; promote long term economic growth.	3
GIS	Integrate GIS System with other NCSD business systems	Engineering	General Fund	Improve efficiency between departments and decrease response time to hazards.	3
PI	Educate citizens about proper disposal of unwanted medicine	Industrial Pretreatment	General Fund	Unwanted and expired medicine may be a risk to human health and the Environment if disposed of improperly	2
PI	Educate citizens about improper disposal of garbage into sewer system	Industrial Pretreatment	General Fund	Educate citizens regarding their vulnerability to man-made hazards and take steps to reduce vulnerability.	2

The North Charleston Sewer District shall, through Project Impact, provide support to the many activities and projects that will benefit the residents of the NCSD. Additional recommended projects may be added to this project list as other projects are recommended to the North Charleston Sewer District Commission. Some Projects that are being undertaken by other jurisdictions may not necessarily be listed here but may affect the North Charleston Sewer District.