

## APPENDIX D.

This appendix includes the sign in sheets, minutes, and advertisements, when available, for meetings. They are presented in chronological order.

Below is a table indicative of the in-person meetings held with each participating jurisdiction (in addition to emails and phone calls) to present and review their draft chapters, ensuring the accuracy and acquiring first-hand accounts of past hazard events. Some of these were with staff, the mayor, and/or the entire Town Council.

<b>County/Town</b>	<b>Date</b>
Accomack County	July 14, 2016
Northampton County	January 25, 2016
Bloxom	January 25, 2016
Cape Charles	June 8, 2016
Cheriton	January 14, 2016
Chincoteague	January 21, 2016
Eastville	December 7, 2015
Exmore	December 7, 2015
Hallwood	June 2, 2016
Keller	November 4, 2015
Melfa	January 27, 2016
Nassawadox	January 27, 2016
Onancock	June 2, 2016
Onley	February 18, 2016
Parksley	January 14, 2016
Saxis	June 9, 2016
Tangier	June 16, 2016
Wachapreague	May 18, 2016

## Meetings & Outreach

### NOV. 6, 2014 ESHMP KICKOFF MEETING

#### Sign-In Sheet

Name	Organization	Position	EMAIL	INITIALS
Denise Bendick	Melfa	Mayor	trevdee@verizon.net	
Jim McGowan	The Nature Conservancy	Director, Virginia Coast Reserve	<a href="mailto:jmcgowan@TNC.org">jmcgowan@TNC.org</a>	
Ruth Boettcher	Virginia Department of Game and Inland Fisheries Hampton Roads Small Business Development Center	Business Counselor	<a href="mailto:Ruth-Boettcher@dgif.virginia.gov">Ruth-Boettcher@dgif.virginia.gov</a> <a href="mailto:gbryan7600@gmail.com">gbryan7600@gmail.com</a>	
George Bryan		Mayor	<a href="mailto:townofbloxom@verizon.net">townofbloxom@verizon.net</a>	
R. Scott Callander	Bloxom		<a href="mailto:ccharlton@ncpsk12.com">ccharlton@ncpsk12.com</a>	
Coleen Charlton	Northampton County Public Schools		<a href="mailto:Jane.Lassiter@va.usda.gov">Jane.Lassiter@va.usda.gov</a>	
Jane Corson-Lassiter	USDA		<a href="mailto:chamber@northamptoncountychamber.com">chamber@northamptoncountychamber.com</a>	
Elizabeth Dodd	Northampton County Chamber of Commerce		<a href="mailto:WA2AIC@verizon.net">WA2AIC@verizon.net</a>	
Eric Dodge	ES Amateur Radio Club			
Peaches Dodge	ESV Coalition Against Domestic Violence	President	email?	PHD
Denise Drewer	Saxis	Mayor	<a href="mailto:adrewer@intercom.net">adrewer@intercom.net</a>	

Carmie Duer	Eastern Shore Soil and Water Conservation Service		<a href="mailto:carmie.duer@esswcd.org">carmie.duer@esswcd.org</a>	
Robert Duer	Exmore	Town Manager	<a href="mailto:rduer@exmore.org">rduer@exmore.org</a>	
Taylor Dukes	Exmore	Public Works	<a href="mailto:tdukes@exmore.org">tdukes@exmore.org</a>	
Alvy Dunahoo	ES Amateur Radio Club		<a href="mailto:WOADD@verizon.net">WOADD@verizon.net</a>	

Name	Organization	Position	EMAIL	INITIALS
David Eder	Eastville	Town Sergeant	<a href="mailto:deder17@yahoo.com">deder17@yahoo.com</a> ; <a href="mailto:eastvillepd@esva.net">eastvillepd@esva.net</a>	
James Eicheberger	Parksley	Mayor	<a href="mailto:eichelberger@parksley.org">eichelberger@parksley.org</a>	
James Eskridge	Tangier	Mayor	<a href="mailto:tgitownoffice@yahoo.com">tgitownoffice@yahoo.com</a>	
Paul Ewell	Watermens Museum	Executive Director	<a href="mailto:pewell@esvawatermen.org">pewell@esvawatermen.org</a>	
Joe Fehrer	Nature Conservancy	Nassawango Reserve	<a href="mailto:jfehrer@TNC.org">jfehrer@TNC.org</a>	
Dot Field	Virginia Department of Conservation and Recreation		<a href="mailto:Dot.Field@dcr.virginia.gov">Dot.Field@dcr.virginia.gov</a>	
Tange Francis	Eastern Shore Project Head Start	Executive Director	<a href="mailto:tfrancis.esvaheadstart.org">tfrancis.esvaheadstart.org</a>	
Ed Gibb	Nassawadox	Mayor	<a href="mailto:edgibb@verizon.net">edgibb@verizon.net</a>	ECO F

## Eastern Shore of Virginia Hazard Mitigation Plan 2016

	Virginia Department of Conservation and Recreation			
Forrest Gladden	Recreation		Forrest.Gladden@dcr.virginia.gov	<i>FG</i>
Chet Gnagey	Tyson		chet.gnagey@tyson.com	
Nancy Gonzales	Habitat for Humanity	Executive Director	<a href="mailto:eshabitat@verizon.net">eshabitat@verizon.net</a>	
Greg Hardesty	Cheriton	Council Member	townofcheriton@aol.com	<i>CS</i>
Harold Higgins	Worcester County, Maryland	Chief Administrative Officer		
Charmin Horton	Foodbank of ESVA	Executive Director	<a href="mailto:chorton@foodbankontine.org">chorton@foodbankontine.org</a>	
Amy Howard	VDEM	Hazard Mitigation Coordinator	Amy.Howard@vdem.virginia.gov	<i>AH</i>
Tina Jerome	USDA		tina.jerome@va.usda.gov	<i>TJ</i>
Joe Joeckel	Wachapreague	Council Member	JJoeckel@seaconsulting.com	<i>Joe Joeckel</i>

Name	Organization	Position	EMAIL	INITIALS
Doug Jones	Accomack County	Depty. Dir. Public Safety	djones@co.accomack.va.us	
Donna Kellam	Eastern Shore Community Services Board		<a href="mailto:dkellam@escsb.org">dkellam@escsb.org</a>	
Jane Lassiter	USDA		Jane.Lassiter@va.usda.gov	
G. Cabell Lawton, IV	Onancock	Town Manager	clawton@onancock.com	
Robert Leffel	U. S. Fish and Wildlife Service		Robert_Leffel@fws.gov	

Larry LeMond	Bay Coast Railroad	Vice President	<a href="mailto:llemond@baycoastrailroad.com">llemond@baycoastrailroad.com</a>	
Robbie Lewis	Virginia Department of Forestry		robbie.lewis@dof.virginia.gov	
Theresa Long	Virginia Cooperative Extension, Accomack County	Extension Agent	<a href="mailto:tmlong@vt.edu">tmlong@vt.edu</a>	<i>Theresa</i>
Caroline Massey	NASA		caroline.r.massey@nasa.gov	
Dr. David Matson	Eastern Shore Health District	Director	<a href="mailto:David.Matson@vdh.virginia.gov">David.Matson@vdh.virginia.gov</a>	
Susan McAndrews	Riverside Shore Memorial Hospital	Vice President	<a href="mailto:susan.mcandrews@rivhs.com">susan.mcandrews@rivhs.com</a>	
Jack McCambridge	VDOT		<a href="mailto:John.McCambridge@VDOT.Virginia.gov">John.McCambridge@VDOT.Virginia.gov</a>	
Jeremy McLean	Broadwater Academy	Headmaster	<a href="mailto:jmclean@broadwateracademy.org">jmclean@broadwateracademy.org</a>	
Moody K Miles	Saxis Island Museum	Director/Chairperson	info@saxisislandmuseum.org	
Mariann Miller	Saxis	Town Clerk	mariann@seaclam.com	
Josephine Mooney	Eastern Shore of Virginia Resource Conservation and Development Council		esrcdc.projectsdirector@gmail.com	

# Meetings & Outreach

Dianne Musso | Eastern Shore Area Agency on Aging | Chief Executive Officer | [esaaa12@gmail.com](mailto:esaaa12@gmail.com)

Name	Organization	Position	EMAIL	INITIALS
Bill Neville	Chincoteague	Town Planner	wneville@chincoteague-va.gov	
Dodd Obensh <i>DOBENS</i>	A & N Electric Cooperative	President and CEO	<a href="mailto:dobenshain@anec.com">dobenshain@anec.com</a>	<i>DOBENS</i>
John Outten	Northampton County	Building Official	<a href="mailto:joutten@co.northampton.va.us">joutten@co.northampton.va.us</a>	<i>JO</i>
Althea Pittman	Center for Independent Living	Executive Director	<a href="mailto:apittman@vaescil.org">apittman@vaescil.org</a>	
J. Jackie Poulson	Hallwood	Mayor		
Jon Richardson	Virginia Department of Health	Supervisory Federal Wildlife Officer	<a href="mailto:Jon.Richardson@vdh.virginia.gov">Jon.Richardson@vdh.virginia.gov</a>	<i>JR</i>
<del>Brian Richardson</del> <del>Robin Rich-Coates</del>	<del>U. S. Fish and Wildlife Service</del> <del>Eastern Shore Community College</del>	<del>Officer</del>	<del><a href="mailto:matthew_b_richardson@fws.gov">matthew_b_richardson@fws.gov</a></del> <del><a href="mailto:rrich-coates@es.vccs.edu">rrich-coates@es.vccs.edu</a></del>	<del></del>
Bryan Rush	Chincoteague	EMS Supervisor	<a href="mailto:brush@chincoteague-va.gov">brush@chincoteague-va.gov</a>	
Will Russell	WESR - Eastern Shore Radio		<a href="mailto:will@wesr.net">will@wesr.net</a>	
Thomas Saufley	Perdue		<a href="mailto:thomas.saufley@perdue.com">thomas.saufley@perdue.com</a>	
Arthur Schwarzchild	University of Virginia		<a href="mailto:arthur@virginia.edu">arthur@virginia.edu</a>	
Ace Seybolt	Chincoteague Resort Realty		<a href="mailto:highcotton57@aol.com">highcotton57@aol.com</a>	
Evelyn Shotwell	Chincoteague Chamber of Commerce		<a href="mailto:eshotwell@chincoteaguechamber.com">eshotwell@chincoteaguechamber.com</a>	<i>ES</i>

Kevin Sfoan	U. S. Fish and Wildlife Service		<a href="mailto:kevin.sloan@fws.gov">kevin.sloan@fws.gov</a>	
Eddie Spencer	Chesapeake Bay Bridge Tunnel	Chief of Police	<a href="mailto:easpencer@cbbt.com">easpencer@cbbt.com</a>	<i>ES</i>
Sylvia Stanley	Accomack County Social Services		<a href="mailto:Sylvia.Stanley@dss.virginia.gov">Sylvia.Stanley@dss.virginia.gov</a>	
Richard Sterrett	Northampton County Social Services	Director	<a href="mailto:richard.sterrett@dss.virginia.gov">richard.sterrett@dss.virginia.gov</a>	

Name	Organization	Position	EMAIL	INITIALS
Peter Stith	Northampton County Virginia Cooperative Extension, Northampton	Long Range Planner	<a href="mailto:pstith@co.northampton.va.us">pstith@co.northampton.va.us</a>	<i>PS</i>
Ursula Tankard	County	Extension Agent	<a href="mailto:utankard@vt.edu">utankard@vt.edu</a>	<i>UT</i>
Jeff Tervilliger	Accomack County	Director of Public Safety	<a href="mailto:jtervilliger@co.accomack.va.us">jtervilliger@co.accomack.va.us</a>	<i>JT</i>
<del>Linda Thomas-Glover</del>	Eastern Shore Community College	President	<a href="mailto:lglover@es.vccs.edu">lglover@es.vccs.edu</a>	<del></del>
Michael Tolbert	Accomack County Public Schools	Facilities Coordinator	<a href="mailto:michael.tolbert@accomack.k12.va.us">michael.tolbert@accomack.k12.va.us</a>	
Chris Truckner	Northampton County Public Schools	Director of Operations	<a href="mailto:ctruckner@ncpsk12.com">ctruckner@ncpsk12.com</a>	<i>CT</i>
Laura Vaughan	Barrier Islands Center	Executive Director	<a href="mailto:barrierislandscenter@live.com">barrierislandscenter@live.com</a>	
Richard Wallace	Accomac	Mayor		

*Stewart Baker* VDEM [stewart.baker@vdem.virginia.gov](mailto:stewart.baker@vdem.virginia.gov)  
*Shelia Corbin* Riverside Shore Infection Control/EM [shelia.corbin@rivhs.com](mailto:shelia.corbin@rivhs.com)  
*Beverly Misuna* Riverside Shore Director of Nursing [beverly.misuna@rivhs.com](mailto:beverly.misuna@rivhs.com)  
*Elaine May*  
*David A. Rogers* Eastern Shore Community College Chief of Police [drogers@es.vccs.edu](mailto:drogers@es.vccs.edu)  
*Curt Smith* A-MDC

# Eastern Shore of Virginia Hazard Mitigation Plan 2016

Comm. Min. A-NPDC

Name	Organization	Position	EMAIL	INITIALS
Dodd Obenshain	A & N Electric Cooperative	President and CEO	<a href="mailto:dobenshain@anec.com">dobenshain@anec.com</a>	
John Outten	Northampton County	Building Official	<a href="mailto:joutten@co.northampton.va.us">joutten@co.northampton.va.us</a>	
Althea Pittman	Center for Independent Living	Executive Director	<a href="mailto:apittman@vaescil.org">apittman@vaescil.org</a>	
J. Jackie Poulson	Hallwood	Mayor		
Brian Richardson	U. S. Fish and Wildlife Service	Supervisory Federal Wildlife Officer	<a href="mailto:matthew_b_richardson@fws.gov">matthew_b_richardson@fws.gov</a>	
Jon Richardson	Virginia Department of Health		<a href="mailto:Jon.Richardson@vdh.virginia.gov">Jon.Richardson@vdh.virginia.gov</a>	
Robin Rich-Coates	Eastern Shore Community College		<a href="mailto:RRich-Coates@es.vccs.edu">RRich-Coates@es.vccs.edu</a>	
David A. Rogers SP	Eastern Shore Community College	Chief of Police	<a href="mailto:drogers@es.vccs.edu">drogers@es.vccs.edu</a>	
Bryan Rush	Chincoteague	EMS Supervisor	<a href="mailto:brush@chincoteague-va.gov">brush@chincoteague-va.gov</a>	
Will Russell	WESR - Eastern Shore Radio		<a href="mailto:will@wesr.net">will@wesr.net</a>	
Thomas Saufley	Perdue		<a href="mailto:thomas.saufley@perdue.com">thomas.saufley@perdue.com</a>	
Carmie Savage	Eastern Shore Soil and Water Conservation District		<a href="mailto:carmie.duer@esswcd.org">carmie.duer@esswcd.org</a>	
Arthur Schwarzschild	University of Virginia		<a href="mailto:arthur@virginia.edu">arthur@virginia.edu</a>	
Ace Seybolt	Chincoteague Resort Realty		<a href="mailto:highcotton57@aol.com">highcotton57@aol.com</a>	
Evelyn Shotwell	Chincoteague Chamber of Commerce		<a href="mailto:eshotwell@chincoteaguechamber.com">eshotwell@chincoteaguechamber.com</a>	
Kevin Sloan	U. S. Fish and Wildlife Service		<a href="mailto:kevin_sloan@fws.gov">kevin_sloan@fws.gov</a>	
Curtis Smith	A-NPDC		<a href="mailto:csmith@a-npdc.org">csmith@a-npdc.org</a>	

Name	Organization	Position	EMAIL	INITIALS
Denise Bendick	Melfa	Mayor	<a href="mailto:trevdee@verizon.net">trevdee@verizon.net</a>	
Ruth Boettcher	Virginia Department of Game and Inland Fisheries		<a href="mailto:Ruth.Boettcher@dgif.virginia.gov">Ruth.Boettcher@dgif.virginia.gov</a>	
George Bryan	Hampton Roads Small Business Development Center	Business Counselor	<a href="mailto:gbryan7600@gmail.com">gbryan7600@gmail.com</a>	
R. Scott Callander	Bloxom	Mayor	<a href="mailto:townofbloxom@verizon.net">townofbloxom@verizon.net</a>	
Coleen Charlton	Northampton County Public Schools		<a href="mailto:ccharlton_nc_sk12.com">ccharlton_nc_sk12.com</a>	
Shelia Corbin	Riverside Shore Memorial Hospital		<a href="mailto:shellacorbin@rivhs.com">shellacorbin@rivhs.com</a>	
Jane Corson-Lassiter	USDA		<a href="mailto:Jane-Lassiter@va.usda.gov">Jane-Lassiter@va.usda.gov</a>	
Elizabeth Dodd	Northampton County Chamber of Commerce		<a href="mailto:chamber@northamptoncountychamber.com">chamber@northamptoncountychamber.com</a>	
Eric Dodge	ES Amateur Radio Club		<a href="mailto:WA2AIC@verizon.net">WA2AIC@verizon.net</a>	
Peaches Dodge	ESV Coalition Against Domestic Violence	President		
Denise Drewer	Saxis	Mayor	<a href="mailto:adrewer@intercom.net">adrewer@intercom.net</a>	
Robert Duer	Exmore	Town Manager	<a href="mailto:rduer@exmore.org">rduer@exmore.org</a>	

# Meetings & Outreach

Taylor Dukes	Exmore	Public Works	tdukes@exmore.org
Alvy Dunahoo	ES Amateur Radio Club		WOADD@verizon.net

David Eder	Eastville	Town Sergeant	deder17@yahoo.com;eastvillepd@esva.net
James Eichelberger	Parksley	Mayor	eichelberger@parksley.org
James Eskridge	Tangier	Mayor	jeskridge@tangier.org
Paul Ewell	Watermens Museum	Executive Director	pewell@eswatermen.org
Joe Fehrer	Nature Conservancy	Nassawango Reserve	jfehrer@TNC.org

tgittownoffice@yahoo.com

Watermens Museum pewell@eswatermen.org h rer@TN

Virginia Department of Conservation and

Recreation Dot.Field@dcr.virginia.gov

Dot Field

Tange Francis Eastern Shore Project Head Start Executive Director tfrancis@esvaheadstart.org PG.

Ed Gibb	Nassawadox	Mayor	edgibb@verizon.net
Nassawadox	edgibb@verizon.net		

Virginia Department of Conservation and

Forrest Gladden

Recreation

forrestgladden@tson.com

Forrest-

Gladden@dcr.virginia.gov chet.gnagey@tyson.com

Nancy Gonzales	Habitat for Humanity	Executive Director	eshabitat@verizon.net
Chet Gnagey	Tyson	Executive Director	eshabitat@verizon.net

Nancy Gonzales	Cheriton	Council Member	townofcheriton@aol.com
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Harold Higgins	Worcester County, Maryland	Chief Administrative Officer	
Charmin Horton	Foodbank of ESVA	Executive Director	chorton@foodbankonline.org
Amy Howard	VDEM	Hazard Mitigation Coordinator	Amy.Howard@vdem.virginia.gov
Tina Jerome	USDA		tina.jerome@va.usda.gov
Joe Joeckel	Wachapreage	Council Member	JJoeckel@seaconsulting.com
Doug Jones	Accomack County	Depty. Dir. Public Safety	djones@co.accomack.va.us
Donna Kellam	Eastern Shore Community Services Board		dkellam@escsb.org

# Eastern Shore of Virginia Hazard Mitigation Plan 2016

Name	Organization	Position	EMAIL	INITIALS
Jane Lassiter	USDA		Jane.Lassiter@va.usda.gov	
G. Cabell Lawton, IV	Onancock	Town Manager	clawton@onancock.com	
Robert Leffel	U. S. Fish and Wildlife Service		Robert_Leffel@fws.gov	
Larry LeMond	Bay Coast Railroad	Vice President	llemond@baycoastrailroad.com	
Robbie Lewis	Virginia Department of Forestry		robbie.lewis@dof.virginia.gov	
<b>Name</b>	<b>Organization</b>	<b>Position</b>	<b>EMAIL</b>	
<del>E. Spencer</del>	Virginia Cooperative Extension, Accomack County	Extension Agent	tm'lon@vt.edu	VIRGINIA
Caroline Massey	NASA	Chief of Police	caroline.r.massey@nasa.gov	HELEN
Sylvia Stanley	Accomack County Social Services		Sylvia.Stanley@dss.virginia.gov	
Dr. David Matson	Eastern Shore Health District	Director	David.Matson@vdh.virginia.gov	
Richard Sterrett	Northampton County Social Services	Director	richard.sterrett@dss.virginia.gov	
Susan McAndrews	Riverside Shore Memorial Hospital	Vice President	susan.mcandrews.rivhs.com	
Peter	Northampton County	Long Range Planner	pstith@co.northampton.va.us	
Jack McCambridge	VDOT		John.McCambridge@VDOT.Virginia.gov	
Jim McGowan	The Nature Conservancy	Director, Virginia Coast Reserve	owen.TNC@tnc.org	
Ursula Tankard	Accomack County	Extension Agent	utankard@vt.edu	
Jeffrey M. Morgan	Broadwater Academy	Headmaster	jeffm@broadwateracademy.com	
Moddy Miles-Glover	Saxis Island School Community College	Director/Chairperson	info@saxisislandhighschool.com	
Michael Tolbert	Accomack County Public Schools	Facilities Coordinator	michaeltolbert@accomack.k12.va.us	
Mariann Miller	Saxis	Town Clerk	mariann@seaclam.com	
Chris Truckner	Northampton County Public Schools	Director of Operations	ctruckner@ncpsk12.com	
Laura Vaughan	Eastern Shore of Virginia Resource	Executive Director	barrierislandscenter@live.com	
Josephine Mooney	Conservationists Development Council		esrcdc.projectsdirector@gmail.com	
Dianne Wallace	Eastern Shore Area Agency on Aging	Chief Executive Officer	esaaa.dianne@aol.com	
Bill Neville	Chincoteague	Town Planner	wneville@chincoteague-va.gov	Bill

EASTERN SHORE HISTORICAL SOCIETY

TOWN OF CAPE CHARLES  
COUNTY OF ACCOMACK

Tom Brockenbrough  
Jim McGowan The Nature Conservancy  
Joel Mitchell NASA/WFF

SECRETARY	Wc HELEN @ VERIZON.NET	WcH ✓
CODE OFFICIAL	CODEOFFICIAL@CAPECHARLES.OCG	JSB ✓
Acting CODE OFFICIAL	mboaden@co.accomack.va.us	✓
Acting Flood Program Mgr	tbrockenbrough@co.accomack.va.us	TB ✓
Lead Protection Manager	jmcgowan@tnc.org	JMG ✓
Environmental Eng'r	joel.t.mitchell@nasa.gov	✓

## Eastern Shore Hazard Mitigation Plan

Summary of Nov. 6, 2014 Kickoff Meeting

**Steering Team Members Present:**

Ed Gibb, Town of Nassawadox

Taylor Dukes, Town of Exmore

Greg Hardesty, Town of Cheriton

Joe Joeckel, Town of Wachapreague

Doug Jones, Accomack County

John Outten, Northampton County

Peter Stith, Northampton County

Jeff Terwilliger, Accomack County

**VDEM Present:**

Amy Howard

Stewart Baker

**A-NPDC Staff Present:**

Elaine Meil

Connie Morrison

Curtis Smith

**Planning Council Members Present:**

Ruth Boettcher, Virginia Department of Game and Inland Fisheries

George Bryan, Hampton Roads Small Business Development Center

Coleen Charlton, Northampton County Public Schools

Sheila Corbin, Riverside Shore Memorial Hospital

Jane Corsan-Lassiter, USDA

Eric Dodge, Eastern Shore Amateur Radio Club

Peaches Dodge, Eastern Shore Coalition against Domestic Violence

Paul Ewell, Watermens' Museum

Tange Francis, Eastern Shore Project Head Start

Forrest Gladden, Virginia Department of Conservation and Recreation

Theresa Long, Virginia Cooperative Extension, Accomack County

Dr. David Matson, Eastern Shore District, Virginia Department of Health

Jim McGowan, Nature Conservancy

Beverly Misuna, Riverside Shore Memorial Hospital

Dianne Musso, Eastern Shore Area Agency on Aging

Jackie Phillips, A&N Electric Cooperative

Brian Richardson, U.S. Fish and Wildlife Service

## Eastern Shore of Virginia Hazard Mitigation Plan 2016

Jon Richardson, Virginia Department of Health

David Rogers, Eastern Shore Community College Chief of Police

Carmie Savage, Eastern Shore Soil and Water Conservation District

Evelyn Shotwell, Chincoteague Chamber of Commerce

Eddie Spencer, Chesapeake Bay Bridge Tunnel

Ursula Tankard, Virginia Cooperative Extension Service, Northampton County

Chris Truckner, Northampton County Public Schools

### Call to Order – 11:00 a.m.

Elaine Meil, Accomack-Northampton Planning District Commission (A-NPDC) Executive Director welcomed participants.

### Introduction to Hazard Mitigation Planning

Connie Morrison, Regional Planner for A-NPDC, described Hazard Mitigation Planning as a plan of policies and sustained actions to reduce or eliminate the long-term risk to human life and property from hazards that can also prevent damage to unique economic, cultural, and environmental assets.

Communities that participate in hazard mitigation planning, and that adopt the final plan, are eligible for hazard mitigation grants. Some mitigation grants are pre-disaster, but large amounts also become available during disaster recovery. Those localities that choose not to participate hazard mitigation planning will not be eligible for any mitigation funding.

Examples of mitigation actions from the current plan include outreach to increase risk awareness, projects to protect critical facilities, and removal of structures from flood hazard areas.

### Eastern Shore Hazard History

Curtis Smith from (A-NPDC) reviewed the Eastern Shore's hazard history. High winds, coastal flooding, and coastal erosion from hurricanes, tropical storms, and nor'easters, constitute the majority of hazards.

Storm records date back to the 1600, but data are lacking regarding the extent of damage for most of the historical storms. What can be said is they occur with some regularity and the category of storm does not necessarily dictate its potential for danger. Storm track, speed, and direction, current ground conditions (i.e. soils that are already saturated from a recent storm), tide cycle, and other factors contribute to its potential to cause harm to people and property.

Other hazards discussed included storm water flooding from brief, high intensity rainfall that exceeds stormwater drainage capacity, blizzards and other ice and snow events, drought, and extreme heat and cold.

## Meetings & Outreach

Participants were asked to forward information about hazard damage that was not captured in the material presented to Connie Morrison for inclusion in the plan's hazard history.

Dr. David Matson, Director of the Eastern Shore District, Virginia Department of Health, asked the group to consider pandemic pathogen in the list of hazards to prioritize.

### Hazard Mitigation Plan Process and Timeline

Amy Howard, Hazard Mitigation Coordinator for VDEM, briefed attendees on federal requirements for hazard mitigation plans.

At their most basic, the plans require jurisdictions to identify hazards and their vulnerabilities to them, and then identify goals, strategies and actions to reduce losses caused by these hazards. It is a systematic approach that involves a broad cross section of stakeholders and the community at large.

The plan not only improves conditions before disasters, but also guides post-disaster recovery. A well-coordinated plan can be integrated into other plans, such as comprehensive plans, housing plans, and transportation plans, and can be implemented through local tools such as county zoning and building ordinances.

Once goals are set and strategies developed, mitigation actions are selected and prioritized. The plan is sent to VDEM and FEMA for approval and local units of government adopt it by resolution. From there, communities work towards meeting their goals, documenting progress, and updating the plan with additional strategies.

Connie Morrison explained the Steering Committee and Planning Council roles. The Steering Committee is made up of representatives of participating county and town governments. They will vote on the contents of the plan, because they are the ones who will have to adopt the plan in the end. The Planning Council is a wide-reaching stakeholder group that will participate throughout the process, offering expertise and experience. Planning Council members will be invited to attend all Steering Committee meetings and will receive all agenda and supporting materials.

It was noted that some Planning Council members will want to be more engaged than others, but there are a few places where their participation will be essential to having confidence that the plan is thorough in its considerations. Each stakeholder can choose the level of participation he or she thinks is appropriate.

A-NPDC staff will provide technical assistance, process management, and accountability for meeting state and federal plan requirements.

## Eastern Shore of Virginia Hazard Mitigation Plan 2016

The entire process will take about two years to complete from kickoff until adoption by participating local governments.

Steering Committee members were told they would be sent an email to find a date for a December meeting.

### Hazard Mitigation – What the Future Might Hold

Past hazard mitigation plans have relied solely on hazard histories as predictors of future probability of reoccurrence. Curt Smith presented considerations of accelerating long-term climatic and geologic changes, as seen in outcomes of warmer oceans and relative sea level rise that could alter the patterns of future hazards.

Data suggest that rates of change and scale of impact will be greater in intensity and severity than in past decades. The hurricane season is expected to become longer. Changes to climate and sea level are expected to affect coastal flooding, stormwater flooding, high winds, and coastal erosion hazards, along with other trends such as ground water use, changes to growing season, and water quality changes.

These are important consideration for mitigation actions taken during periods of accelerated environmental and climatic change. What was expected to be a 20-year fix, could turn out to be only a 10-year solution.

At the conclusion of the presentation, Stewart Baker, Hurricane Program Manager for VDEM, asked A-NPDC, when talking about flooding, to clearly state and define the terms it is using, such as storm surge, inundation, and mean higher high water (MHHW).

### Hazard Prioritization

Participants were asked to work together in groups to complete the hazard prioritization worksheets, using the scoring guides and considering the hazard history information, forecasted changes to hazard patterns in the future, and their own knowledge and experience. They were also told they could add to the list of hazards on the worksheet if they thought others should be considered. This information was to be presented to the Steering Committee at its December meeting for its action.

Peaches Dodge, President of the Coalition against Domestic Violence, asked about the applicability of disaster and mitigation planning to the domestic violence shelter. She was offered examples of possible mitigation actions for the shelter and encouraged to continue with both disaster response planning for the shelter and participation in mitigation planning.

The group was dismissed at the end of the prioritization activity, approximately 2 p.m.

## Meetings & Outreach

Dear Community Member:

Natural disasters affect us all.

The Eastern Shore has seen hurricanes, tornadoes, snow storms, ice storms, wildfires, and nor'easters. Add temperature extremes, high winds, coastal flooding, coastal erosion, and storm water flooding to the possibilities of sewage spills, well contamination, hazmat incidents, and biohazards, and you might think our luck is running out.

Here's some reassurance: we are not relying on luck. Through the Eastern Shore Hazard Mitigation Plan, we are getting ahead of the inevitable hazards, and the result will be a reduction, over time, in exposure to harm.

The Accomack-Northampton Planning District Commission (A-NPDC) has received funding from the Virginia Department of Emergency Management (VDEM), through the Federal Emergency Management Administration (FEMA), to rewrite the Hazard Mitigation Plan which was originally drafted in 2006 and updated in 2011.

The plan identifies policies and actions that can be taken over time to reduce losses from hazards. These actions protect our community - our friends, family, employees, neighbors, business owners, and their property. These actions reduce exposure to risk and curb financial losses.

FEMA requires the plan to be updated every five years. Since there is substantially more data available than at the time of the last update, we have elected to entirely re-write the plan, which is a two-year process. That means we need to start now to have the plans complete and fully adopted by the end of 2016.

Local agencies that participate in creating the plan will be eligible for hazard mitigation grants. Those that don't, will miss out. Northampton and Accomack Counties and 13 of 19 towns participated in 2011. We expect more will participate this time, forming the plan's Steering Committee.

You have been identified as a stakeholder in this process, meaning that you possess knowledge about community assets, vulnerable populations, resources, or other important information that will contribute to developing the plan, the ability to effectively implement the plan, or how it might affect the people you represent.

If we are to have a comprehensive plan that identifies every critical asset, accurately assesses the threats posed by hazards, and how the mitigation measures we proposed affect all of us, we need broad participation from across the Eastern Shore.

## Eastern Shore of Virginia Hazard Mitigation Plan 2016

We invite you to be a part of the Hazard Mitigation Planning Council, which consists of representatives of business, education, state and federal government agencies, health care, transportation, non-governmental organizations, and individuals who work with vulnerable populations. The Council and Steering Committee together will ensure the plan is thorough in its considerations, complete in its recommendations, and solid in its capacity to mitigate hazards.

Please join us for the plan's kick-off meeting on November 6. Registration opens at 10:30 a.m., with the meeting beginning promptly 11 a.m. and running until 2:00 p.m. At this meeting we will explain the planning process and take the Planning Council and Steering Committee through its first activities: validating and updating an inventory of historical hazard events, identifying future hazards, and rating the likelihood of future occurrences. A complete draft agenda is enclosed.

The Steering Committee will check in with the Planning Council at least two more times during plan development to review, validate, and supplement the steering team's work, each time before taking the Steering Committee's work to the general public. Your time is valuable, and we pledge to make good use of it.

Please give serious consideration to our request for your organization's participation in this civic activity that will strengthen our community and give us something more than luck to rely on before disaster strikes.

Lunch will be served, so please R.S.V.P to Leslie Mason at [lmason@a-npdc.org](mailto:lmason@a-npdc.org) or call 757-787-2936, ext.120 so that we can reserve your spot.

Sincerely,

Elaine Meil  
Executive Director

DEC. 3, 2014 ESHMP STEERING COMMITTEE MEETING

**Minutes of the Eastern Shore Hazard Mitigation Plan Steering Committee**

**December 3, 2014**

The Eastern Shore Hazard Mitigation Plan Steering Committee met December 3, 2014 in Room 160 of the Workforce Development Building at Eastern Shore Community College in Melfa, Virginia.

Steering Committee Members Present:

**Steering Team Members Present:**

Mark Bowden, Accomack County  
Jeb Brady, Town of Cape Charles  
Tom Brockenbrough, Accomack County  
Taylor Dukes, Town of Exmore  
Robert Duer, Town of Exmore  
James Eichelberger, Town of Parksley  
Ed Gibb, Town of Nassawadox  
Doug Jones, Accomack County  
John Outten, Northampton County  
Bill Neville, Town of Chincoteage  
Peter Stith, Northampton County

**VDEM Present:**

Amy Howard (via telephone)

**A-NPDC Staff Present:**

Connie Morrison, Regional Planner  
Curtis Smith, Planning Director

**Planning Council Members Present:**

George Bryan, Hampton Roads Small Business Development Center  
Sheila Corbin, Riverside Shore Memorial Hospital  
Bill Helin, Eastern Shore of Virginia Historical Society  
Jim McGowan, Nature Conservancy  
Joel Mitchell, NASA/WFF  
Arthur Schwarzchild, University of Virginia

1. Call to Order and Introductions.  
Meeting was called to order at 10:02 by A-NPDC staff person Connie Morrison.
2. Election of Chair and Vice Chair.

## Eastern Shore of Virginia Hazard Mitigation Plan 2016

Jim Eichelberg, Mayor of Parksley was made chair by consensus, and Peter Stith, Northampton County Long-Range Planner, agreed to serve as Vice-Chair.

3. Nov. 6 Kick-off Meeting Summary and Timeline Review.  
Notes of Nov. 6 kick-off meeting were reviewed, with emphasis on reviewing the process and time frame for the benefit of those who were not present for the kick-off meeting.
4. Meeting Times, Frequency, Structure  
The Steering Committee opted for monthly two-hour meetings wanted to continue to operated similarly to the Dec. 3 meeting that allowed for open participation by all those in attendance for as long as
5. Finalization of Hazard Prioritization Worksheet  
The Steering Committee was presented with a worksheet that compiled all of the hazard prioritization worksheets of participants in the November 6 kick-off meeting. High priority hazards that will be quantified and receive detailed analysis were determined to be high winds, coastal erosion, coastal flooding, and storm water flooding. Medium priority hazards were determined as well contamination, ice and snow, drought, and sewage spills. Hazards assigned low priority were wildfires, hazardous materials incidents (including oil spills, thermo/nuclear incidents, and blast zones), heat wave, fish kills, biological hazards (including human invasive diseases and pandemic pathogens), invasive environmental diseases (including invasive land and water diseases and species), and earthquakes.
6. Wetland Watch Presentation in February  
Wetland watch will make two presentations – one in the afternoon and one in the evening- to the Steering Committee and Planning Council in February to explain the Community Rating System and National Flood Insurance Program. Wetlands Watch is a non-profit that educates the Hampton Roads area on sea level rise. A poll will be sent prior to the next Steering Committee meeting, and the date announced at the January meeting.
7. Local Government Match Timesheets  
Steering Committee members were reminded to complete timesheets so that their time can be converted to a dollar value that is used to match the FEMA grant that is paying for the Hazard Mitigation Plan.
8. Adjourn.  
Meeting adjourned at approximately 11:50 a.m.
9. Next Meeting  
The next meeting is scheduled for January 7, 10 a.m. until noon, Eastern Shore Community College.

**JAN. 7, 2015 ESHMP STEERING COMMITTEE MEETING**

**Minutes of the Eastern Shore Hazard Mitigation Plan Steering Committee**

**January 7, 2015**

The Eastern Shore Hazard Mitigation Plan Steering Committee met January 7, 2015 in Room 160 of the Workforce Development Building at Eastern Shore Community College in Melfa, Virginia.

Steering Committee Members Present:

**Steering Team Members Present:**

Mark Bowden, Accomack County  
Jeb Brady, Town of Cape Charles  
Tom Brockenbrough, Accomack County  
Taylor Dukes, Town of Exmore  
Robert Duer, Town of Exmore  
James Eichelberger, Town of Parksley  
Ed Gibb, Town of Nassawadox  
John Joeckel, Town of Wachapreague  
Doug Jones, Accomack County  
John Outten, Northampton County  
Bill Neville, Town of Chincoteague  
Peter Stith, Northampton County

**A-NPDC Staff Present:**

Curtis Smith, Planning Director  
Connie Morrison, Regional Planner

**Planning Council Members Present:**

George Bryan, Hampton Roads Small Business Development Center  
Trevor Dalee, Coast Guard  
Joel Mitchell, NASA/WFF

10. Call to Order and Introductions.

Meeting was called to order at 10:00.

11. Approval of Minutes.

Robert Duer moved to approve minutes of December 3, 2014 meeting. Motion was seconded by Eichelberger. Minutes were approved by voice vote.

## Eastern Shore of Virginia Hazard Mitigation Plan 2016

### 12. Approval of Agenda.

Robert Duer moved to approve the agenda. Peter Stith seconded the motion, and the agenda was approved by voice vote.

### 13. New Business

Risk Assessment - Critique of 2011 Hazard Mitigation Plan, Coastal Flooding and Sea Level Rise

Suggestions offered for the next plan included:

- better explanation of the interconnectivity of hazards (including between coastal erosion and coastal flooding);
- making it simpler for users to navigate;
- include subsidence in discussion of sea level rise;
- place sea level rise discussion in discussion of coastal hazards;
- needs to address effects of coastal flooding on infrastructure; and
- address economic impact of getting people back to work

Risk Assessment – Critical Facilities

No discussion or action.

Community Capability Review – Plans, Ordinances, Policies, Actions

Discussion of plans, ordinances, policies and actions that could interplay with Hazard Mitigation Plan. Some cited were:

- County and town comprehensive plans
- Building codes enforced at local levels (counties, Chincoteague, Cape Charles, and Cheriton)
- Stormwater ordinances (counties)
- County Emergency Operations Plans and municipal Emergency Management Plans
- Eastern Shore Hazardous Materials Plan
- Transportation Plans (Statewide, Regional)
- Capital Improvements Plans (counties, Cape Charles, Cheriton, Chincoteague, Exmore)
- Subdivision Ordinances (counties, some towns)
- Zoning Ordinances (counties, some towns)
- Floodplain Ordinances (counties, some towns)
- Water Supply Plans
- Regional Groundwater Plan
- Regional Economic Development Strategy

Statewide Plans

- Transportation Plan
- Virginia Outdoors Plan

### 14. Old Business

Finalized Hazard Prioritization

Hazard prioritization approved by consensus, with the following change: the column labeled “probability” will be renamed “likelihood of occurrence.”

### 15. Next Meeting

The next meeting will be two Community Rating System workshops with Wetlands Watch on February 11. They will take the place of the February monthly meeting.

Meetings & Outreach

16. Adjourn.

The meeting adjourned approximately 11:40 a.m.

*Sign - On*  
1.7.15

- John Soeckel - Town of Wachapreague
- ✓ ED GIBB - NASSAWADOX
- ✓ Taylor Dukes - Exmore
- Robert G Duen Exmore
- Trevor Dakee Coast Guard New
- ✓ John Outten Northampton County
- ✓ Joel Mitchell NASA/Wallops Flight Facility
- ✓ JEB BRADY TOWN OF CAPE CHARLES
- ✓ Mark Bowden ACCOMACK COUNTY
- ✓ Tom Brockenbrough Accomack County
- ✓ Doug Jones Accomack County
- ✓ Sgt S. H. A.M.P.S.

- ✓ Bill Neville Town of Chincoteague
- ✓ George Bryan Small Business Dev.
- ✓ Peter Stith Northampton County
- ✓ James Eichelberger PARKS
- ✓ Connie

FEB. 11, 2015 ESHMP & CRS WORKSHOPS

February 11, 2015

THE COMMUNITY RATING SYSTEM AND HAZARD MITIGATION PLANNING



Shannon Hulst Jarbeau and Mary-Carson Stiff

Accomack-Northampton Planning District Commission  
Regional Hazard Mitigation Plan Update



Contact Connie Morrison 757-787-2936, ext. 127

FOR IMMEDIATE RELEASE



## Workshop Teaches Communities to Lower Flood Risk

*Wetlands Watch to bring flood expertise to Eastern Shore*

**ACCOMAC**— Flooding is one of the greatest threats to the personal and financial safety of Eastern Shore residents, according to a local group appointed to make a plan to address flooding, high winds, erosion and other hazards.

“We can’t do anything to stop hurricanes and other storms that bring flooding and high winds, but we can get smarter about the harm they bring, including floods and flood zones, and how to protect ourselves,” said Jim Eichelberger, Mayor of Parksley and Chairman of the local-government-appointed Eastern Shore Hazard Mitigation Steering Committee. The committee was established to re-write the plan that evaluates and prioritizes actions to protect life and property before disaster strikes.

Accomack-Northampton Planning District Commission is organizing the work under a grant from the Federal Emergency Management Agency and the Virginia Department of Emergency Management. The commission and two agencies, along with the National Oceanic and Atmospheric Administration, the Virginia Coastal Zone Management Program, and the non-profit Wetlands Watch are co-sponsoring two Feb. 11 workshops for Accomack and Northampton individuals and communities that want to learn more about flooding, flood zones,

and floodplain management actions communities can take to potentially lower flood insurance rates.

Shannon Hulst Jarbeau, Certified Floodplain Manager and Assistant Director of Wetlands Watch in Norfolk, Virginia, and Mary-Carson Stiff, JD, also a Certified Floodplain Manager and Assistant Director of Wetlands Watch, are recognized regional experts in the Community Rating System, and will lead both sessions. They will teach participants how communities can work together to lower flood insurance rates, over time, between 5 percent and 45 percent through the Community Rating System, a voluntary program that offers flood insurance discounts in exchange for advanced floodplain management actions at the local level.

Communities opting into the program increase public flood awareness, enhance public safety, reduce damage to private property and public infrastructure, avoid economic disruption and losses, reduce human suffering, and protect the environment. As communities incrementally implement more rigorous program levels, they qualify for greater flood insurance discounts from the National Flood Insurance Program.

“The Community Rating System is an excellent way to encourage localities to improve their resiliency to flooding, protect open space and wetlands, and adapt to sea level rise, while also earning a discount on flood insurance rates and helping their constituents cope with increasing costs,” says Jarbeau. “These are all positive outcomes that we hope to help localities achieve.”

Jarbeau and Stiff will explain the initial steps communities need to take to qualify for the program, and how to earn credits for further reductions, particularly for actions they are likely already taking.

## Meetings & Outreach

Session one will be held at VIMS in Wachapreague, 40 Atlantic Ave, on Feb. 11 from 1:30-3:30 p.m. The second session is also Feb. 11, from 6:30–8:30 p.m., at the Northampton County Administration Board Room, Second Floor, 16404 Courthouse Road. Eastville. The same information will be presented at both sessions.

For more information about the workshop or the hazard mitigation plan, please contact Connie Morrison, Accomack-Northampton Planning District Commission, 787-2936, or [cmorrison@a-npdc.org](mailto:cmorrison@a-npdc.org).

### MAR. 4, 2015 ESHMP STEERING COMMITTEE MEETING

#### Minutes of the Eastern Shore Hazard Mitigation Plan Steering Committee

March 4, 2015

The Eastern Shore Hazard Mitigation Plan Steering Committee met March 4, 2015 in auditorium of Eastern Shore Community College in Melfa, Virginia.

Steering Committee Members Present:

**Steering Team Members Present:**

Mark Bowden, Accomack County  
Jeb Brady, Town of Cape Charles  
Tom Brockenbrough, Accomack County  
James Eichelberger, Town of Parksley  
Ed Gibb, Town of Nassawadox  
John Joeckel, Town of Wachapreague  
Doug Jones, Accomack County  
John Outten, Northampton County  
Peter Stith, Northampton County

**A-NPDC Staff Present:**

Connie Morrison, Regional Planner  
Curtis Smith, Planning Director

**Planning Council Members Present:**

Sheila Corbin, Riverside Shore Memorial Hospital  
Joel Mitchell, NASA/WFF  
Arthur Schwarzschild, University of Virginia

17. Call to Order

## Eastern Shore of Virginia Hazard Mitigation Plan 2016

The meeting was called to order at approximately 10:10 a.m., after being slightly delayed because it was diverted from the usual meeting space in room 160 of the Workforce Development Building to the Auditorium.

### 18. Approval of Agenda

The agenda was approved by consensus.

### 19. Approval of March 7 Minutes

The minutes of the March 7, 2014 meeting were approved by consensus.

### 20. New Business

#### a. Federal Flood Risk Management Standards

Connie told the group about an upcoming meeting sponsored by FEMA about proposed federal flood risk management standards. It was one in a series of meetings around the country to hear reactions to proposals to make federal investments more resistant to sea level rise. This was an information-only item.

#### b. Coastal Flooding Chapter Review

- The team reviewed an early draft of the coastal flooding chapter of the Hazard Mitigation Plan.
- Joel Mitchell offered to provide estimates of Hurricane Sandy damage to Wallops Flight Facility to add to the table showing past hurricanes and damage amounts.
- Art Schwarzchild recommended reviewing and incorporating work by Bruce Haydon of the Anheuser-Busch Coastal Research Center for more information regarding storm paths and area of impacts, and also Haydon's research on the impacts of sea level rise on storms.
- There was a discussion around the estimates of sea level rise used in the report. Connie stated that she used the estimates that were recommended by VIMS in its report to the Legislature, since that was a generally-accepted estimate. The group accepted that approach, but that each town would be able to talk about sea level rise in the way it was comfortable.

### 21. Old Business

#### a. Critical Facilities

The group decided by consensus to stick closely to the list of critical facilities found in the emergency operations plans when critical facilities are defined in the Hazard Mitigation Plan. Navigation channels are not currently in the plan and it was suggested they be added. There was also a question about whether Coast Guard stations are included. If not, the recommendation was made to add those as well.

#### b. Recap of Community Rating System Workshops

Connie reviewed the February 11 CRS workshops. She reported to the group that during the workshops attendees were told that in order for the future Hazard Mitigation Plan to be fully creditable under the CRS program, those communities wanting to receive credit for the plan need to have representation for every Hazard Mitigation Steering Committee meeting.

## Meetings & Outreach

Connie spoke with the ISO representative (that's the company that runs the CRS program for FEMA). The representative said it is true that each participating community that wants to receive credit under the CRS should have two designated delegates, and at least one delegate should be present at every meeting. HOWEVER, if one meeting is missed, all is not lost. Of the CRS steps that must be followed, one – AND ONLY ONE – step can be missed, and that would be the missed step, so every other step would have to be scrupulously observed. (NOTE: Connie thought off-hand there were six or seven steps. There are actually 10 CRS steps, and only one can be missed.) Furthermore, this only applies to meetings that are relevant to flooding.

Art Schwarzchild asked for clarification in the administration of CRS. Each entity with land use responsibility can administer its own CRS program, although Curtis Smith clarified that local governments can designate others to administer the program for them. For example, a regional office could be the administering office for all the local governments in an area.

Ed Gibb, Mayor of Nassawadox, expressed frustration with the multiple processes for the CRS, the National Flood Insurance Program, and the Hazard Mitigation Plan, which led to clarification between the requirements and benefits of participating in the CRS, versus the requirements and benefits of participating in the hazard mitigation program.

Connie also asked that communities seeking CRS credit from the Hazard Mitigation Plan to let her know when there are things the Hazard Mitigation Steering Committee needs to do differently in order that they may also qualify for CRS credit. She is using a matrix that compares the two plans, but sometimes there are details in the CRS manual that won't show up in the matrix, and CRS communities are responsible for letting her know when there are extras needed to meet those requirements.

### 22. Adjourn.

Meeting adjourned at approximately 11:25 a.m.

### 23. Next Meeting

The next meeting is scheduled for April 1, 10 a.m. until noon, Eastern Shore Community College.

Eastern Shore of Virginia Hazard Mitigation Plan 2016

MEETING SIGN-IN SHEET		
<b>Project:</b>	HAZARD MITIGATION	<b>Meeting Date:</b> MARCH 4, 2015
		<b>Place/Room:</b> EASTERN SHORE COMMUNITY COLLEGE

Name	Representing	E-Mail
✓ John Zoetzel	WACHAPREAGUE	zoetzel@seacoastva.gov
✓ JEB BENDY	CAPE CHARLES	codeofficial@capecharles.org
✓ John Outten	Northampton County	joutten@co.northampton.va.us
✓ Ed Gibbs	NASSAWADOX	edgibbs@verizon.net
✓ ART SCHWARZSCHILD	WILMIS WHARF / OYSTER	ARTHUR@VIRGINIA.EDU
✓ Tom Brockenbrough	Accomack County	tbrockenbrough@co.accomack.va.us
✓ Shelia Corbin	Riverside Shore Memorial	shelia.corbin@rshs.com
✓ Joel Mitchell	NASA/Wallops	Joel.T.Mitchell@nasa.gov
✓ Doug Jones	Accomack County Emer. Mgmt	DJONES@CO.ACCOMACK.VA.US
✓ Jim Eichelberger	TOWN OF PARKSLEY	Eichelberger@Parksley.org
✓ Curt Smith	A-NPDC	csmith@anpdc.org
✓ Mark Bowden	ACCOMACK COUNTY	mbowden@co.accomack.va.us
✓ Peter Smith	Northampton County	psmith@co.northampton.va.us

## MAY 6, 2015 ESHMP STEERING COMMITTEE MEETING

### Minutes of the Eastern Shore Hazard Mitigation Plan Steering Committee

May 6, 2015

The Eastern Shore Hazard Mitigation Plan Steering Committee met May 6, 2015 in classroom 160 of the Workforce Development Building of Eastern Shore Community College in Melfa, Virginia.

#### Steering Team Members Present:

Mark Bowden, Accomack County  
Jeb Brady, Town of Cape Charles  
Tom Brockenbrough, Accomack County  
Robert Duer, Town of Exmore  
James Eichelberger, Town of Parksley  
John Joeckel, Town of Wachapreague  
Doug Jones, Accomack County  
John Outten, Northampton County  
Peter Stith, Northampton County

#### A-NPDC Staff Present:

Connie Morrison, Regional Planner  
Curtis Smith, Planning Director

#### Planning Council Members Present:

Jane Corson-Lassiter, USDA-NRCS  
Jim McGowan, TNC

#### 24. Call to Order

Chairman Eichelberger called the meeting to order at 10:04 a.m.

#### 25. Approval of Agenda

The agenda was approved by voice vote.

#### 26. Approval of March 7 Minutes

The minutes of the March 7, 2014 meeting were approved by voice vote.

#### 27. New Business

##### a. Proposed template for Risk Assessment

Connie Morrison presented a proposed template to use as a standardized way of reporting the counties' and towns' risk assessments. The content was based on the 2011 plan, and those items that seem to repeat themselves from location to location were incorporated into the template, such as demographic and employment information. She asked the group for other items it would like to see in the template/risk assessment. Examples provided included seasonal populations and vulnerable populations such as mobility impaired and non-English speaking populations.

Items suggested are shown below (with the acknowledgement that all of the information might not be accessible to the team):

## Eastern Shore of Virginia Hazard Mitigation Plan 2016

- Locations of disabled individuals who might need assistance getting out in the event of an emergency or disaster
- Locations of individuals reliant on electricity for medical devices
- Locations of businesses and types of businesses (for firefighting/hazmat purposes)
- Concentrations of non-auto owning households
- Concentrations of non-English speaking households

Hazardous materials plans completed by counties will have some of this information.

b. Request for Hazard Mitigation Grant Program Subcommittee

John Aigner requested a subcommittee of five people to help review and prioritize hazard mitigation grant requests for elevating homes. The request is at the behest of Accomack County Administrator Steve Miner, who wants the advisory committee so that there will be a group rather than a single person reviewing and approving projects.

The committee will meet with Mr. Aigner regularly to review the program, and provide advice and guidance on selections. Initially, the group would also propose program policies and guidelines. A draft is already under development, and is based on FEMA regulations and requirements.

Building department and floodplain managers from both counties were asked to give consideration to serving on the subcommittee. All current projects are in Accomack County, although some applications have been received from Northampton County. Mr. Aigner was to follow up with individuals after the meeting.

c. Coastal Erosion Chapter Review

The team reviewed an early draft of the coastal erosion chapter of the Hazard Mitigation Plan. Suggestions to improve the chapter include:

- Strengthening the focus on mitigation strategies to prevent erosion.
- Include a discussion of the Coastal Zone Management Act and other tools and policies that aid in protecting coastlines and mitigating erosion.

It was agreed to put the Coastal Erosion chapter on a future meeting agenda to allow everyone another opportunity to comment.

d. Meeting reminder: Joint Meeting with Climate Adaptation Working Group on May 12 to review FEMA Flood Risk MAP products.

28. Adjourn.

Meeting adjourned at approximately 11:05 a.m.

29. Next Meeting

The regular monthly meeting is scheduled for June 1, 10 a.m. until noon, Eastern Shore Community College.

Meetings & Outreach

MEETING SIGN-IN	
Hazard Mitigation	Meeting Date: May 6, 2015
	Place/Room: ESCC

Name	Representing:	E-Mail
1 Jim Eichelberger	Parkley	Email: Eichelberger@Parkley.org
1 Doug Jones	Accomack EM	Email: DJONES@Co, Accomack, VA, US
1 Curt Smith	A.NPD	Email: csmith@anpd.org
1 Jane Corson-Lassiter	USDA-NRCS	Email: jane.lassiter@va.usda.gov
1 Jim W. Williams	TNC-VCIR	Email:
1 John Outten	North Co.	Email: joutten@co.northamptonva.us
Bill Neville	Chincoteague	Email: esvaplane@gmail.com
1 Peter Smith	Northampton Co	Email: psmith@co.northampton.va.us
		Email:



## NOV. 4, 2015 ESHMP STEERING COMMITTEE MEETING

### Minutes of the Eastern Shore Hazard Mitigation Plan Steering Committee

November 4, 2015

The Eastern Shore Hazard Mitigation Plan Steering Committee met Nov. 4, 2015 in classroom 150 of the Workforce Development Building of Eastern Shore Community College in Melfa, Virginia.

#### **Steering Team Members Present:**

Tom Brockenbrough, Accomack County  
Eichelberger, Town of Parksley  
Ed Gibb, Town of Nassawadox  
Amy Howard, VDEM  
John Joeckel, Town of Wachapreague  
Doug Jones, Accomack County  
John Outten, Northampton County  
Peter Stith, Northampton County

#### **A-NPDC Staff Present:**

Hillary Essig, Coastal Program Manager  
James Elaine Meil, Executive Director  
Connie Morrison, Transportation Program Mgr.

#### 30. Call to Order

Chairman Eichelberger called the meeting to order at 10:02 a.m.

#### 31. Approval of Agenda

The agenda was approved by unanimous vote.

#### 32. Approval of March 7 Minutes

May 6 meeting minutes were approved by unanimous vote.

#### 33. Old Business

##### a. Review of Revised Template

Hillary Essig reviews the revised template with the steering committee, highlighting changes since the previous versions, which was reviewed with the committee in May. The newer version was crisper, included additions requested by the Committee in May, including the natural and built environment and public works. The committee had asked to include the following specific information:

- Locations of disabled individuals who might need assistance getting out in the event of an emergency or disaster
- Locations of individuals reliant on electricity for medical devices
- Locations of businesses and types of businesses (for firefighting/hazmat purposes)
- Concentrations of non-auto owning households
- Concentrations of non-English speaking households

Ms. Essig reported that the A and N Electric Co-Op was not able to share information about individuals on dependent on electricity for medical devices because of privacy concerns; nor would they provide information about electrical infrastructure, citing security concerns.

## Eastern Shore of Virginia Hazard Mitigation Plan 2016

Tom Brockenbrough asked for a completed template for one of the coastal towns participating in the CRS program to share with Cynthia from the Community Rating System Program to see if it captures everything that program requires or would like to see.

John Joeckel asked about the schedule for meeting with towns. Ms. Morrison said she hoped to have most of those first meetings scheduled in November and December, beginning with the communities along the spine, and then moving to the coastal communities.

Doug Jones asked about HAZUS results for the Hurricane model. Ms. Morrison reported she had only recently been able to run the hurricane part of the HAZUS model, and only obtained wind results so far – no storm surge results. Mr. Jones asked which basin the model utilized for storm surge – the Norfolk or the Chesapeake. Ms. Morrison said she did not know; that it might depend on which tracks the selected storms took, but she would find out.

### b. HAZUS Model

Ms. Morrison reviewed the HAZUS flood model results with the committee for both counties and Chincoteague, which was the first town for which the model was run.

Ms. Morrison explained that the building valued used in HAZUS were taken directly from both counties' assessing data. The exposure values, however, are not those values, but reflect the full cost to replace buildings, so it is quite a bit higher than the actual assessed value. For Chincoteague, which is the study region, the town's exposure and the scenario exposure, which is what lies within the area expected to be affected by a 100-year, or 1 percent annual chance flood.

Other tables that were highlighted were Table 3, which summarizes expected damage by occupancy under the 100-year flood scenario, and Table 4, which depicts damage by building type. Table 5 indicates that the fire station, police station, and one of the schools would see at least moderate damage, and the fire station and school could expect to see some loss of use.

Ms. Morrison pointed out that debris generation refers to only building debris, and does not take into account vegetative debris. She also pointed out that shelter requirements may vary, depending on time of year.

Table 6 summarizes total losses. Committee members were asked to consider this table and where they might want to note local differences. Business interruption losses were pointed out as one item that require further review, as it could be low in income losses from rental properties. Also business interruption of high season vs. low season. Ms. Morrison said she would check to see whether the model itself could be tweaked to pick the date of the

## Meetings & Outreach

hypothetical storm. For example, for agricultural losses, it allows the user to input the date, but she was not sure if it affects other types of economic loss. Amy Howard asked whether peak hurricane and peak tourism season are the same. Ms. Morrison said they are not.

c. Review of Regional Hazard Mitigation Projects

Ms. Essig reviewed progress on the regional Hazard Mitigation with the committee. Several of these were assigned to the Eastern Shore Disaster Preparedness Coalition. Ms. Essig said she would check with the community college to see whether they obtained the generator hook-up. Ms. Howard reported that if the community college had not acquired the generator, it just missed a funding opportunity with VDEM.

Ms. Morrison offered to send a link for mitigation best practices to the committee.

d. Additional Comments on Coastal Erosion Chapter

Ms. Morrison explained that the hazard chapters are meant to explain the hazards themselves: what causes them, what is their extent, and what is imperiled by them.

She asked Steering Committee members asked for additional comments (the committee had reviewed in May and asked for it come back). She also said that all comments had not yet been incorporated because she wants to get all comments on the table and discussed before making all of the changes, because sometimes there are differences that are best worked out at the committee meetings.

Mr. Joeckel said he did not think the chapter emphasizes enough the erosion that is happening on Cedar Island because of the effect it has on the salt marshes and ultimately the increased risk he believes that poses to the residents of the town of Chincoteague. Mr. Brockenbrough reminded Ms. Morrison that he sent comments about waterways shoaling over.

### 34. Information Items

- a. Ms. Essig reported on a Historic Resources Study to be conducted by the Department of Historic Resources with post-Sandy funding on the Eastern Shore. The study will catalog historic resources within the floodplain, including infrastructure, buildings, and historic settings. Ms. Howard added that an area can be historic, even if the buildings are not, and that historic buildings can add greatly to the cost of building elevations.
- b. Ms. Morrison asked whether either county planned to offer comments on FEMA's Damage Assessment Operations Manual. No one knew of plans for either county to submit comments.
- c. Mr. Jones commented that he expects the Assistance to Firefighters Grant program to be opened shortly.
- d. Mr. commented on the hurricane evacuation route study that was about to be re-done. It will take a couple of years, and this time the Eastern Shore will be considered with the rest of Virginia, instead of being part of the Delmarva region.

## Eastern Shore of Virginia Hazard Mitigation Plan 2016

35. Adjourn.

Meeting adjourned at approximately 11:58 a.m.

36. Next Meeting

The regular monthly meeting is scheduled for Dec. 2, 10 a.m. until noon, Eastern Shore Community College.

A recording of this meeting can be found at:

[http://rec001.freeconferencecalling.com/mp3/1240690/182321/LA3488\\_11042015070310924\\_1069495.mp3](http://rec001.freeconferencecalling.com/mp3/1240690/182321/LA3488_11042015070310924_1069495.mp3)

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MEETING SIGN-IN	
Hazard Mitigation	Meeting Date: November 4, 2015
	Place/Room: ESCC

Name	Representing:	E-Mail (if changed or new)
Dave Jones	Accomack County	Email (if changed)
Jim Eichelberger	Parkley	Email (if changed) Eichelberger@Parkley.org
John Soeckel	WACHA League	Email (if changed) JSoeckel@seo-construction.com
John Outten	Northampton Co.	Email (if changed)
Peter Smith	Norfolk	Email (if changed)
Tou Beckenbrough	Accomack Co	Email (if changed)
ED GIBB	NASSAWADOX	Email (if changed)
Amy Howard	VDEM	Email (if changed)
		Email (if changed)

@

## Eastern Shore of Virginia Hazard Mitigation Plan 2016

### Minutes of the Eastern Shore Hazard Mitigation Plan Steering Committee

February 3, 2015

The Eastern Shore Hazard Mitigation Plan Steering Committee met Feb. 3, 2015 in classroom 160 of the Workforce Development Building of Eastern Shore Community College in Melfa, Virginia.

#### **Steering Team Members Present:**

Tom Brockenbrough, Accomack County  
Ed Gibb, Town of Nassawadox  
Jim Eichelberger, Town of Parksley  
John Joeckel, Town of Wachapreague  
Doug Jones, Accomack County  
John Outten, Northampton County  
John Pavlik, Town of Onley

#### **A-NPDC Staff Present:**

Shannon Alexander, Coastal Programs Manager  
Connie Morrison, Transportation Program Mgr.  
Curtis Smith, Planning Director

#### **Planning Council Members Present:**

Bill Sammler, NWS Wakefield, via telephone  
Evelyn Shotwell, Chincoteague Chamber of Commerce  
Stewart Baker, VDEM

#### 37. Call to Order

Chairman Eichelberger called the meeting to order at 10:04 a.m.

#### 38. Approval of Agenda

The agenda was approved by unanimous consent.

#### 39. Approval of Dec. 2 Minutes

Chairman Eichelberger made a correction to the minutes to add Chris Bruce of The Nature Conservancy as present at the Dec. 2 meeting by telephone.

#### 40. New Business

##### a. Storm Surge Analysis

Ms. Morrison called attention to the storm track/flood depth maps that were sent out prior to the meeting. She reminded the team that it had agreed to use the Nor'Ida storm as its baseline, and asked for a seaside and bayside storm in each of the moderate and high intensity categories. However, after the storm tracks were obtained, she added one storm each in the moderate and high categories for the cross-peninsula storms because they produced higher inundation, and the group had said it wanted to look at worst case scenarios.

But before getting too far into the discussion, she suggested that the group agree on some terminology, and called their attention to a graphic from NOAA describing storm surge and storm tide. The inundation modeling was done based on mean tide level, so depending on when a storm hit during the tide cycle, the actual inundation depth could be plus or minus

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as much as 2 or 2.5'. A call was made to Chris Bruce to clarify that the flood depths on the map were adjusted to show flood depths above ground level.

The model that was used for the scenarios was ADCIRC with SWAN. The ADCIRC model does not use basins, but rather pulls in data from the western Atlantic and Gulf regions. Mr. Baker said that none of the preparedness agencies use ADCIRC, even though it is out there and available. They all use SLOSH. ADCIRC is resource intensive and cannot be run in a short turnaround.

Mr. Joeckel pointed out that the model does not account for wave action. So far, he said, they have not experienced a true storm surge, but rather, high tide with four to six-foot waves pounding the waterfront, and that is what causes the damage in Wachapreague.

The ADCIRG model used in the Coastal Resilience Tool also adds the SWAN model, which models wave action, but only insofar as waves push flood waters farther inland. It does not account for the vertical action of waves.

Mr. Floyd said Storm Track 4 is like Floyd (1999). He said that the highest surge probably occurred on the bayside on the back side of the storm. Without having storm details, don't have how the storm played out.

Mr. Baker said that although Storm Track 5 is a little closer to the shoreline, it is similar to Hurricane Gloria in 1985, which was a strong Category 2 or a weak Category 3 hurricane. Mr. Baker said that where there are other historic storms that are similar to those we are using in our analysis, or where the impacts are similar, that we should call those out to make them more relatable to readers of the document.

Mr. Sammler suggested some cautions with the use of these storms. First, he said, there are no probabilities associated with any given storm. Cross-peninsula storms have least likelihood of occurrence, but will create the worst-case scenarios, especially for the seaside.

Mr. Smith asked Mr. Sammler if he had suggestions for incorporating the storm information into the plan. Other areas have used primarily SLOSH data. Mr. Sammler suggested laying out context or concerns raised during today's discussions: not comprehensive scenarios, different results than standard SLOSH model, and the less likelihood of cross-peninsula storms. If this is done, this data can still be used in the plan.

Mr. Sammler said he didn't know of a single location on the ocean side where water was 9.4' above ground level during Nor'Ida. It probably was not over four or five feet, and ADCIRC does have a history of overestimating storm surge in a tropical frame work.

As a result of conversation with the group, the group decided to eliminate scenario 13. The following changes will be made to the remaining maps:

## Eastern Shore of Virginia Hazard Mitigation Plan 2016

- Add details of the size and speed of the storm, and the wind speed.
- Change color ramp on the depth scale to more easily distinguish the different depths.
- Change title to reflect flood depth above ground level.

More information will be explained in the text about wave action, and its effects, bearing in mind the effects the salt marsh has on negating wave action

### b. Coastal Resilience Tool

Ms. Morrison introduced the Coastal Resilience Tool and briefly explained how it relates to the individual storms the Steering Team is reviewing. The tool provides a composite view of the worst impact of all the medium intensity storms, and does the same for all of the high intensity storms (some of which are not in the set of storms under review by the team). It uses Nor'Ida as a baseline storm for comparison purposes.

The Coastal Resilience tool also allows individuals to look at what those storms might look like under various future sea level rise scenarios. Ms. Morrison encouraged those in attendance to sign up for the Feb. 11 and 12 Coastal Resilience classes.

### c. Regional Hazard Mitigation Chapter

Ms. Morrison asked the group what should be included in the regional chapter, in addition to regional resources. The Eastern Shore Disaster Preparedness Coalition was mentioned. Mr. Smith mentioned that we are using templates across localities, and asked whether the group is good with us using the same template for the regional chapter. He said in the past, the plan has contained regional actions and strategies, but we have not had regional assessments of risk in the past (county only). The team agreed to try the template format at first. There was some concern about how detailed the critical infrastructure lists would be, and what would be helpful. Doug Jones suggested it might be helpful to have a list of all critical infrastructure by category of facility.

### 41. Adjourn.

Meeting adjourned at approximately 11:38 a.m.

### 42. Next Meeting

The regular monthly meeting is scheduled for March 2, 10 a.m. until noon, Eastern Shore Community College.

A recording of this meeting can be found at:

[http://rec001.freeconferencecalling.com/mp3/1240690/182321/LA3488\\_02032016070521944\\_1088993.mp3](http://rec001.freeconferencecalling.com/mp3/1240690/182321/LA3488_02032016070521944_1088993.mp3)

Meetings & Outreach

MEETING SIGN-IN	
Hazard Mitigation	Meeting Date: Feb 3, 2016
	Place/Room: ESCC

Name	Representing:	E-Mail (if changed or new)
Jim Eichelberger	Town of Prasley	Email (if changed)
Connie Morrison	A-NPDC	Email (if changed)
Steve Paulik	Town of Oley	Email (if changed)
Stewart Baker	VTBM	Email (if changed)
John Joe Kel	Wachapreague	Email (if changed)
Don Jones	ACEMA	Email (if changed)
Tom Brockanough	Accomack	Email (if changed)
John Cotten	Northampton	Email (if changed)
Curt Smith	A-NPDC	Email (if changed)
Bill DeLo	NASSAWADOX	Email (if changed)
Evelyn Stotwell	clin. Chamber	Email (if changed)
Shannon Alexander	A-NPDC	Email (if changed)
		Email (if changed)
Bill Sammler via phone		Email (if changed)
		Email (if changed)

## MAR. 2, 2016 ESHMP STEERING COMMITTEE MEETING

### Minutes of the Eastern Shore Hazard Mitigation Plan Steering Committee

March 2, 2015

The Eastern Shore Hazard Mitigation Plan Steering Committee met March 2, 2015 in the Workforce Development Building of Eastern Shore Community College in Melfa, Virginia. [note: nothing has been done beyond this point.]

#### **Steering Team Members Present:**

Tom Brockenbrough, Accomack County  
Jim Eichelberger, Town of Parksley  
Ed Gibb, Nassawadox  
John Joeckel, Town of Wachapreague  
Doug Jones, Accomack County  
Peter Stith, Northampton County

#### **A-NPDC Staff Present:**

Shannon Alexander, Coastal Programs Manager  
Connie Morrison, Transportation Program Mgr.

#### **Planning Council Members Present:**

Stewart Baker, VDEM  
Paul Moye, USACE (via teleconference)

#### 43. Call to Order

Chairman Eichelberger called the meeting to order at 10:04 a.m.

#### 44. Approval of Agenda

The agenda was approved by unanimous consent.

#### 45. Approval of Feb. 3 Minutes

Minutes for the Feb. 3 meeting were approved by unanimous consent.

#### 46. Old Business

##### a. Storm Surge Mapping

The group reviewed changes to the storm surge maps that were made since the last meeting.

Mr. Brockenbrough asked about projecting the storms over a different background other than aerials. Ms. Morrison said that she had tried various backgrounds, but the surge depths did not show up as well those she had tried, especially over the marshes. Another thing she wanted to point out to the group was that flood depths are hard to see in some places at this scale because they appear way up the creeks. The example she gave was Storm Track 2,

## Meetings & Outreach

which has depths up to 11 feet. It is hard to spot those depths on the map because they only show up when zoomed way in on the end of those creeks.

The committee had requested details about the storms' headings, wind speeds, and other data, which were provided, but Ms. Morrison did not know the point in the storm that those data represented. Mr. Baker added that the storms tend to speed up and weaken when they hit Virginia's latitude because they are continuing over land.

After discussion, the following map changes were suggested:

- A zoom-in on each of the storm tracks for coastal towns so towns can see how their vulnerabilities change.
- A different background for the Regional section so it will be less cluttered.
- One foot increments under 10', then in 2' increments with a consistent scale on all of the maps.
- Cut off the storm surge at the state line.

The group discussed how to best examine vulnerable populations, sources of information, and the reliability of each. It was not felt that looking at things like low income population would be useful at this scale. Mr. Brockenbrough said the U. S. Census Bureau's American Community Survey is only available at the block group level, and that level obscures trends. Limited English Proficiency, low income, and housing values were all discussed. The suggestion was made to just map the vulnerable areas. Ms. Morrison said the group was charged with identifying populations that might have difficulty removing themselves from harm's way or receiving information. Staff would continue to look for ways to convey this information.

b. Storm Surge Modeling

Ms. Morrison explained a write-up of storm surge modeling that she put together comparing the ADCIRC and SLOSH models. With the Committee's approval, she would like to include the write-up in the Regional section of the Hazard Mitigation Plan, and asked Committee members to convey comments to her.

c. Regional Hazard Mitigation Chapter

Ms. Morrison reported that she had planned to have the committee review the first draft of the Regional chapter, but she had not finished drafting it yet.

### 47. Information Items

## Eastern Shore of Virginia Hazard Mitigation Plan 2016

The 2015 SAFER Application Grant period and the FY 2016 Pre-Disaster Hazard Mitigation Grants and Flood Mitigation Assistance Grant Programs were brought the attention of committee members.

### 48. Committee Member Comments

Mr. Gibb said he had a chance to read over the storm surge modeling section, and his suggestion was to keep the storm surge maps the same size, and if anything needed to be adjusted to make room for the commentary on each scenario, then it should be the map of the storm track and wind field that appears under the storm data.

Mr. Moye asked whether computed storm tides are available at specific locations, and whether they could be displayed with water surface elevations referenced to NAVD, suggesting this would be useful to readers, either on a map or in a table. Readers could reference it back to the Flood Insurance Study to get an idea of flood probability. Ms. Morrison agreed to check on the availability of this data. Mr. Moye also agreed that zoomed-in maps with 1/2' and 1' flooding maps with building footprints for towns would be helpful.

### 49. Adjourn.

Meeting adjourned at approximately 10:53 a.m.

### 50. Next Meeting

The regular monthly meeting is scheduled for April 6, 10 a.m. until noon, Eastern Shore Community College.

A recording of this meeting can be found at:

[http://rec001.freeconferencecalling.com/mp3/1240690/182321/LA3488\\_03022016070310435\\_1087607.mp3](http://rec001.freeconferencecalling.com/mp3/1240690/182321/LA3488_03022016070310435_1087607.mp3)

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MEETING SIGN-IN	
Hazard Mitigation	Meeting Date: <del>Feb 3, 2016</del> <i>March 2</i>
	Place/Room: ESCC

Name	Representing:	E-Mail (if changed or new)
✓ <i>Dea Eichelberger</i>	<i>Pinebluff</i>	Email (if changed) <i>Eichelberger@Pinebluff.org</i>
✓ <i>Ed Gill</i>	<i>MASSAWADOX</i>	Email (if changed)
✓ <i>Tom Brockenbrough</i>	<i>Accomack</i>	Email (if changed)
✓ <i>Doug Jones</i>		Email (if changed)
✓ <i>Shannon Alexander</i>	<i>ANPDC</i>	Email (if changed)
✓ <i>Stewart Baker</i>	<i>VDGM</i>	Email (if changed)
✓ <i>John Soeckel</i>	<i>WACHMANS</i>	Email (if changed)
<i>Peter Smith</i>	<i>NITCO</i>	Email (if changed)
<i>Comm Mmm</i>	<i>ANPDC</i>	Email (if changed)
		Email (if changed)

## MAY 4, 2016 ESHMP STEERING COMMITTEE MEETING

### Minutes of the Eastern Shore Hazard Mitigation Plan Steering Committee

May 4, 2015

The Eastern Shore Hazard Mitigation Plan Steering Committee met May 4, 2015 in Room 150 of the Workforce Development Building of Eastern Shore Community College in Melfa, Virginia.

#### Steering Team Members Present:

Jeb Brady, Cape Charles  
Tom Brockenbrough, Accomack County  
Ed Gibb, Nassawadox  
John Joeckel, Town of Wachapreague (via teleconference)  
Ron Marney, Town of Chincoteague  
John Outten, Northampton County  
Bryan Rush, Town of Chincoteague  
Peter Stith, Northampton County

#### A-NPDC Staff Present:

Shannon Alexander, Coastal Programs Manager  
Connie Morrison, Transportation Program Mgr.  
Curt Smith, Director of Planning

#### Planning Council Members Present:

George Bryant, Small Business Development Center  
Amy Howard, VDEM (via teleconference)

#### 51. Call to Order

Vice Chairman Peter Stith called the meeting to order in the absence of Chairman Eichelberger at 10:03 a.m.

#### 52. Approval of Agenda

The agenda was approved by unanimous consent.

#### 53. Approval of March 2 Minutes

Minutes for the March 2 meeting were approved by unanimous vote.

#### 54. New Business

##### a. Regional Chapter

The Committee reviewed the Regional Chapter and provided a number of edits. Among the high-level comments were:

- Make maps and graphics larger so that they are more readable.
- Be sure to keep focus at the regional level.
- Acknowledge the effects of seasonal employment and population changes.
- Add ferry service to the transportation section.

## Meetings & Outreach

- Add and electrical transmission section.
- Add a section for broadband.
- Look for NFIP numbers that reflect a full year since the new maps have been in place.
- Move much of the storm modeling information out of the coastal flooding section and bring back in more of the scenario discussion and the scenarios themselves.
- Sources were recommend for some of the medium and low-priority hazards so that those hazards could have a couple of paragraphs written about them.
- Items were provided for inclusion on critical infrastructure chart.

### b. Storm Water Chapter

Suggestions were made for improving the storm water section. Edits for that chapter include:

- Mention of seasonal high water table.
- Zoom in on LIDAR graphic to show more Carolina Bays.
- Keep table of storm water flooding location (for possible mitigation actions)

### 55. Information Items

Household hazardous waste will be collected on May 7 at Birdsnest, Grangeville, and Horntown convenience centers from 10 a.m. until 2 p.m.

### 56. Adjourn

Meeting adjourned at 11:55 a.m.

### 57. Next Meeting

The regular monthly meeting is scheduled for June 1, 10 a.m. until noon, Eastern Shore Community College.

Recordings for this meeting can be found at:

May 4, 2016 HM Meeting Part 1

[http://rec001.freeconferencecalling.com/mp3/1240690/182321/LA3488\\_05042016071528476\\_1067115.mp3](http://rec001.freeconferencecalling.com/mp3/1240690/182321/LA3488_05042016071528476_1067115.mp3)

May 4, 2016 HM Meeting, Part 2

[http://rec001.freeconferencecalling.com/mp3/1240690/182321/LA3488\\_05042016073404248\\_1067187.mp3](http://rec001.freeconferencecalling.com/mp3/1240690/182321/LA3488_05042016073404248_1067187.mp3)

May 4, 2016 HM Meeting, Part 3

[http://rec001.freeconferencecalling.com/mp3/1240690/182321/LA3488\\_05042016075500992\\_1067213.mp3](http://rec001.freeconferencecalling.com/mp3/1240690/182321/LA3488_05042016075500992_1067213.mp3)

(Note: Due to difficulties with the conference call line, there are multiple recordings associated with this meeting)

Eastern Shore of Virginia Hazard Mitigation Plan 2016

MEETING SIGN-IN	
Hazard Mitigation	<b>Meeting Date:</b> May 4, 2016 <b>Place/Room:</b> ESCC

Name	Representing:	E-Mail (if changed or new)
Ron Marney	Town of Chincoteague	Email (if changed) rmarney@chincoteague-va.gov
Bryan Rust	Town of Chincoteague	Email (if changed) brust@chincoteague-va.gov
Sharon Clendenen	ANPDC	Email (if changed)
Ed Jelle	TOWN OF NASSAWADAY	Email (if changed)
Curt Smith	A-NPDC	Email (if changed)
Tom Brockenbrough	Accomack Co	Email (if changed)
John Cutler	Northampton CO	Email (if changed)
John Jeckel	Wach. (joined by phone)	Email (if changed)
Amy Howard	VDEM (joined by phone)	Email (if changed)
Peter Smith	NITCO	Email (if changed)
Georgia Boyer	SBDC	Email (if changed)
JEB BEARD	TOWN OF CAPE CHARLES	Email (if changed)
Connie Martin	ANPDC	Email (if changed)
		Email (if changed)

## JUN. 1, 2016 ESHMP STEERING COMMITTEE MEETING

### Minutes of the Eastern Shore Hazard Mitigation Plan Steering Committee

June 1, 2016

The Eastern Shore Hazard Mitigation Plan Steering Committee met May 4, 2015 in Room 150 of the Workforce Development Building of Eastern Shore Community College in Melfa, Virginia.

#### Steering Team Members Present:

Peter Stith, Northampton County  
John Joeckel, Town of Wachapreague  
Ed Gibb, Nassawadox  
David A. Rogers Sr., ESCC  
Robert Mears, ESCC  
Mark Bowden, Accomack County

#### A-NPDC Staff Present:

Shannon Alexander, Coastal Programs Manager  
Connie Morrison, Transportation Program Mgr.  
Curt Smith, Director of Planning

#### Planning Council Members Present:

George Bryant, Small Business Development Center

#### 58. Call to Order

Vice Chairman Peter Stith called the meeting to order in the absence of Chairman Eichelberger at 10:02 a.m.

#### 59. Approval of Agenda

The agenda was approved by unanimous consent.

#### 60. Approval of May 4 Minutes

Committee Member Gibbs moved to approve the minutes for the May 4 meeting. The motion, seconded by Vice Chairman Stith, carried unanimously.

#### 61. New Business

##### a. Regional Hazard Mitigation Goals and Actions

The Committee reviewed the Regional Chapter and provided a number of edits. Among the high-level comments were:

Agree on maintaining Vision Statement as it was written and included in the 2011 Plan.

Edits to the 2011 Mitigation Goals:

- Goal 1: None.
- Goal 2: Residents, Businesses, ~~and~~ Local Governments, *and other community partners* will work *together* to minimize community disruption through *planning* and ~~commercial~~ mitigation activities.

## Eastern Shore of Virginia Hazard Mitigation Plan 2016

- Goal 3: Local governments encourage self-sufficiency ~~among residents~~ and personal responsibility for managing ~~their own~~ risk. *(This way businesses, visitors, etc. are also included.)*
- Goal 4: Local governments will work to ensure that infrastructure will continuously function during and after a ~~natural~~ hazard event. *(To also include anthropogenic events, such as oil spill, etc.)*
- Goal 5: None.

Committee Members updated the status as of 2016 column in the regional mitigation projects table and agreed upon additional projects to be included in the 2016 Plan.

### 62. Information Items

None.

### 63. Adjourn

Meeting adjourned at 11:55 a.m.

### 64. Next Meeting

The regular monthly meeting is scheduled for July 6, 10 a.m. until noon, Eastern Shore Community College.

Recordings for this meeting can be found at:

June 1, 2016 HM Meeting

[http://rec001.freeconferencecalling.com/mp3/1240690/182321/LA3488\\_06012016070342820\\_1061757.mp3](http://rec001.freeconferencecalling.com/mp3/1240690/182321/LA3488_06012016070342820_1061757.mp3)

Meetings & Outreach

MEETING SIGN-IN	
Hazard Mitigation	<b>Meeting Date:</b> June 1, 2016 <b>Place/Room:</b> ESCC

Name	Representing:	E-Mail (if changed or new)
John Joekel	WACHAPREAGUE	Email (if changed)
David A. Rogers SR.	ESCC	Email (if changed) drogers@es.vccs.edu
Robert Mearns	ESCC	Email (if changed) bmeans@es.vccs.edu
S Alexander	ANPDC	Email (if changed)
Peter STM	NHTCO	Email (if changed)
MARK Bowden	ACCOMACK CO	Email (if changed)
Curt Swick	ANPDC	Email (if changed)
Ed Hill	NASSAWADOX	Email (if changed)
Conni Morrison	ANPDC	Email (if changed)
		Email (if changed)

## AUG. 3, 2016 ESHMP STEERING COMMITTEE MEETING

### Minutes of the Eastern Shore Hazard Mitigation Plan Steering Committee

August 3, 2016

The Eastern Shore Hazard Mitigation Plan Steering Committee met August 3, 2016 in Room 160 of the Workforce Development Building of Eastern Shore Community College in Melfa, Virginia.

#### **Steering Team Members Present:**

Doug Jones, Accomack County  
Tom Brockenbrough, Accomack County  
Chairman Jim Eichelberger, Town of Parksley  
Robert Hodgson, Town of Wachapreague  
John Outten, Northampton County

#### **A-NPDC Staff Present:**

Shannon Alexander, Coastal Resources Program Manager

#### 65. Call to Order

Chairman Eichelberger called the meeting to order at 10:02 a.m.

#### 66. Approval of Agenda

The agenda was approved by unanimous consent.

#### 67. Approval of June 1 Minutes

As no members whom were present June 1 were present, action on this item was postponed until next the Committee meets.

#### 68. Old Business

##### a. Regional Chapter Review:

Committee Member Tom Brockenbrough supplied feedback on the draft of the Regional Chapter, specifically pointing out what seem to be erroneous figures concerning the workforce.

#### 69. New Business

##### a. Ranking Hazard Mitigation Action:

The Committee reviewed the mitigation actions and updated staff on the status of the actions. There were several edits to the wording for some of the actions. Committee Members discussed criteria for ranking and reached consensus on the criteria and the ranking of each of the actions which have not yet been started. The Committee Members request that a copy of the updated table be included with the meeting minutes for greater Committee review and approval. [Attached.](#)

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- b. Staff presented recent opportunity to have FEMA representatives offer training to coincide with the rollout of the final draft of the new Hazard Mitigation. This will be in November.

### 70. Information Items

- a. Staff presented the Residential Hurricane Wind Retrofit Fact Sheet
- b. Staff presented update from the Regional Housing Alliance concerning their intention to apply for funding to elevate 10 homes in the region.
- c. Staff presented 2 web sites offering potentially useful tools for planning:
  - i. <https://coast.noaa.gov/ccapatlas/>
  - ii. <http://ssrf.climatecentral.org/>

### 71. Adjourn

Meeting adjourned at 12:09 p.m.

### 72. Next Meeting

There is no regular monthly meeting scheduled at this time. A November training will serve as an official meeting of the Hazard Mitigation Steering Committee and will be held at the Eastern Shore Community College.



**DEC. 6, 2016 ESHMP RESILIENCE WORKSHOP**

**Accomack-Northampton Planning District Commission Resilience Workshop**

The Hermitage on the Eastern Shore, 23610 North Street, Onancock, VA 23417

December 1, 2016

**Agenda**

**3:00 PM: Sign In**

**3:10 PM: Welcome and Introductions**

**3:20 PM: Making Resilient Connections: NFIP, Hazard Mitigation, Risk MAP, and Agency Programs**

An overview of resiliency and its connection to the National Flood Insurance Program (NFIP), hazard mitigation, Risk Mapping, Assessment and Planning (Risk MAP) program, and State and Federal agencies will help set the course for the workshop.

**3:40 PM: Using Non-Regulatory Flood Risk Products**

Flood Risk Products greatly help assess, visualize, and communicate local flood risk. This presentation will focus on the new tools available for Accomack-Northampton PDC communities and how they can be used to support risk reduction, including the following:

- Support Floodplain Management, Hazard Mitigation Assistance grants, and Community Rating System activities;
- Enhance emergency and community planning by illustrating the most severely impacted areas;
- Assist with response and recovery planning and resource distribution;
- Inform flood risk reduction actions, such as advocating for higher building code requirements or the use of flood-resilient designs and construction materials;
- Inform decision makers where to prioritize mitigation activities and resources;
- Help visually communicate flood risk to the public; and
- Improve risk communication and outreach.

**4:00 PM: Break**

**4:10 PM: Making the Case for Mitigation**

This session will provide communities with talking points, tools, and resources to capture the cumulative effects of mitigation, its economic impacts, and promote the value of mitigation to decision makers and other audiences in the current reality of competing priorities and fiscal constraint.

**4:30 PM: Implementation Techniques and Tools**

Tools to support community mitigation efforts of all sizes.

**5:00 PM: Next Steps and Conclusion**

Eastern Shore of Virginia Hazard Mitigation Plan 2016

Reg Status	Pay Status	Last Name	First Name	Email Address	Reg Date
REGISTERED	NA	Brockenbrough	Tom	tbrockenbrough@co.accomack.va.us	11/02/2016 11:51 AM EDT
REGISTERED	NA	Corbin	Shelia	shelia.corbin@rivhs.com	11/02/2016 01:11 PM EDT
REGISTERED	NA	Isdell	Chris	christopher.isdell@vdot.virginia.gov	11/03/2016 09:50 AM EDT
REGISTERED	NA	Schwenk	Barbara	bschwenk@a-npdc.org	11/03/2016 04:56 PM EDT
REGISTERED	NA	Hruska	Tom	tom.hruska@verizon.net	11/04/2016 06:16 AM EDT
REGISTERED	NA	Sedjat	MiMi	lsedjat@escsb.org	11/04/2016 10:11 AM EDT
REGISTERED	NA	Francis	Tange	tfrancis@esvaheadstart.org	11/04/2016 10:27 AM EDT
REGISTERED	NA	Horton	Charmin	chorton@foodbankonline.org	11/04/2016 10:41 AM EDT
REGISTERED	NA	Cropper	Garey	gareycropper@msn.com	11/04/2016 08:08 PM EDT
REGISTERED	NA	Eichelberger	James	eichelberger@parksley.org	11/06/2016 06:16 PM EST
REGISTERED	NA	Cousineau	Vanessa	elnessa2002@yahoo.com	11/07/2016 12:43 PM EST
REGISTERED	NA	Leonard	Arthur	5leonards@verizon.net	11/17/2016 09:54 PM EST
REGISTERED	NA	Smith	Curt	csmith@a-npdc.org	11/18/2016 05:20 PM EST
REGISTERED	NA	Jones	Doug	djones@co.accomack.va.us	11/21/2016 10:16 AM EST
REGISTERED	NA	Kerbin	Bill	wkerbin@onancock.com	11/22/2016 08:17 AM EST
REGISTERED	NA	Tremblay	Kristen	ktremblay@co.accomack.va.us	11/22/2016 03:25 PM EST
REGISTERED	NA	Aigner	John	jaigner@a-npdc.org	11/29/2016 07:26 AM EST
REGISTERED	NA	Gunnells	David	david.gunnells@dcr.virginia.gov	11/29/2016 03:50 PM EST
REGISTERED	NA	Prosise	William	prosises@aol.com	11/30/2016 08:13 AM EST

## Meetings & Outreach



### When

Thursday December 1, 2016 from 3:00 PM to 5:00 PM EST

 [Add to Calendar](#)

### Where

The Hermitage in Onancock, Social Hall  
23610 North St.  
Onancock, VA 23417



[Driving Directions](#)

### Contact

**Shannon Alexander**  
Accomack-Northampton Planning District Commission  
757-787-2936 x115  
[salexander@anpdc.org](mailto:salexander@anpdc.org)

## Hazard Mitigation Tools & Training

Please take advantage of the opportunity to hear from representatives from A-NPDC, FEMA, DCR, VDEM, and the Army Corps! Learn tools & techniques that you can use to make your community more resilient and prepared.

Resilient communities have the ability to "bounce back" from hazardous events, successfully respond to stressors, and adapt well to change. What does this mean for the communities on the Eastern Shore? During this interactive workshop, participants will discuss priorities that will inform how communities can respond to hazardous events, review tools and resources for communities to assess risk and promote mitigation efforts, and identify actions to spur future activities or projects to build resilience and reduce risk.

Representatives from FEMA, VDEM, A-NPDC, and the U.S. Army Corps will be presenting and available for questions and consultation.

### Training Opportunity (Registration Required)

3:00 PM: Sign In  
3:10 PM: Welcome and Introductions  
3:20 PM: Making Resilient Connections: Tools You Can Use  
3:40 PM: Using Non-Regulatory Flood Risk Products  
4:00 PM: Break  
4:10 PM: Making the Case for Mitigation  
4:30 PM: Implementation Techniques and Tools  
5:00 PM: Adjourn

### Open House (Registration Not Required)

6:00 - 8:00 PM A-NPDC Hazard Mitigation Plan Open House  
with presentations from A-NPDC and FEMA 6:30 - 7:00 PM.

We look forward to seeing you on December 1! Please do not hesitate to contact Shannon Alexander by phone or email with any questions.

[Register Now!](#)

DEC. 6, 2016 ESHMP PUBLIC OPEN HOUSE

# HAZARD MITIGATION PLAN OPEN HOUSE, PLUS FREE TOOLS & TRAINING FROM FEMA

# BE PREPARED!

...for natural disasters, flooding, and more.

OPEN HOUSE 6-8PM, PRESENTATION @ 6:30PM

Free Event, All are Welcome!  
Evento gratuito, Todos son Bienvenidos!

THURSDAY, DECEMBER 1 at  
The Hermitage on the Eastern Shore  
23610 North St, Onancock

Draft Plan will be made available at [www.a-npdc.org](http://www.a-npdc.org)  
BRING YOUR QUESTIONS AND COMMENTS

COMPLEMENTARY REFRESHMENTS

No registration necessary  
For more information email  
[salexander@a-npdc.org](mailto:salexander@a-npdc.org) or  
call 757-787-2936 x115



FEMA  DCR

## Meetings & Outreach

### Accomack-Northampton Planning District Commission

#### Hazard Mitigation Plan Open House

The Hermitage on the Eastern Shore, 23610 North Street, Onancock, VA 23417

December 1, 2016

6:00 – 8:00 PM

#### Agenda

#### Welcome!

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Please visit stations to learn more about the National Flood Insurance Program (NFIP), hazard mitigation, the Accomack-Northampton PDC Hazard Mitigation Plan Risk Mapping, Assessment and Planning (Risk MAP) program, and State and Federal agencies. The following information stations will be available:

- **Hazard Mitigation for Property Owners and Renters:** This station provides tools to support individual and community mitigation efforts of all sizes.
- **Mapping Tools:** Visit this station to view Risk MAP Non-Regulatory Flood Risk Products, Flood Insurance Rate Maps, and the local Coastal Resilience website. Printers are available to print individual maps of locations that interest you. If you would like to view information after the meeting visit:
  - Map Service Center – [msc.fema.gov](http://msc.fema.gov)
  - Coastal Resilience – [maps.coastalresilience.org/virginia/](http://maps.coastalresilience.org/virginia/)
- **Accomack-Northampton PDC Hazard Mitigation Plan:** The Hazard Mitigation Plan is in the process of being updated for approval and local adoption in 2017. Visit this station to review and comment on the draft plan. View the plan in more detail after the meeting at:
  - [www.a-npdc.org/accomack-northampton-planning-district-commission/coastal-resources/hazard-mitigation-planning/](http://www.a-npdc.org/accomack-northampton-planning-district-commission/coastal-resources/hazard-mitigation-planning/)

#### We will have two brief presentations starting at 6:30 PM

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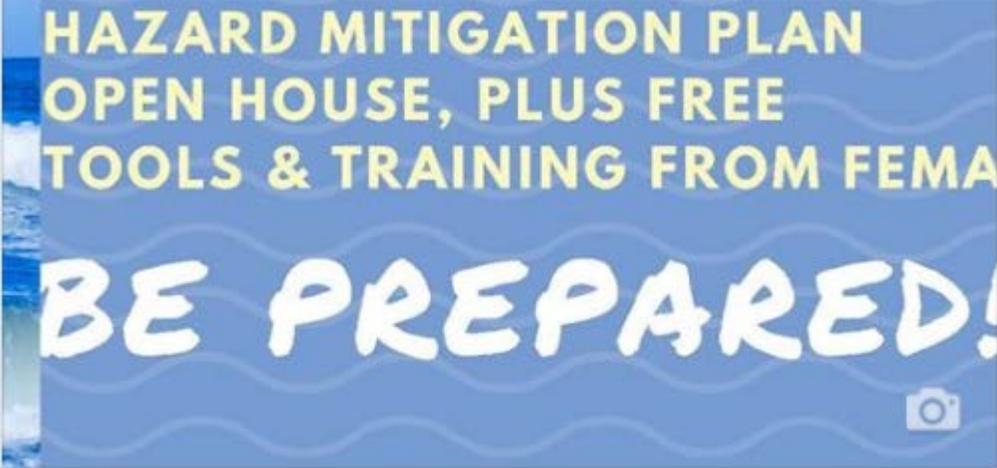
- **Value of Mitigation from the Individual to the National Level:** This presentation by the Federal Emergency Management Agency will engage attendees with opportunities for mitigation from their own property to the Nation.

**Hazard Mitigation Plan Overview and Request for Comments:** The Accomack-Northampton Planning District Commission will provide an overview of the plan and kick-off the public comment period.

Accomack-Norhampton PDC  
 Open House Sign-In Sheet  
 December 1, 2016

Name	Jurisdiction/Organization	Phone	Email
Doug Jones	Accomack EM		DJONES@Co. Accomack.VA.US
Tom Brackenbush	Accomack County		Tbrackenbush@Co. Accomack, VA.US
John Grant	Accomack County		j.grant.2012@gmail.com
Shirley Gehman	gehman.jenng@gmail.com		
Debra Spady	RESILIENCE CO.		Spady@NetzerD.net
Sarah Bowen	Resilience Action Partners		sbowen@mbakerintl.com
Charley Banks	VA DCR		Charleybanks@dc.virginia.gov
Darlene Messina	FEMA FPMI		
David Silvitt	Acc Co Painter		eswoodman@gmail.com
Mari Redwood	FEMA R3		
Paul Moyer	USACE		
Zane Hadrick	FEMA R3		zane.hadrick@fema.his.gov

Meetings & Outreach



**DEC 1** Hazard Mitigation Plan, Tools & Training  
Public · Workshop · Hosted by Accomack-Northampton Planning District Commission

✓ Going ▾ ⋮

🕒 Thursday, December 1, 2016 at 6 PM - 8 PM  
about 3 months ago

📍 23610 North St, Onancock, VA 23417-2024, United States [Show Map](#)

**About** Discussion

Contact Shannon Alexander 757-787-2936, ext. 115

FOR IMMEDIATE RELEASE



FEMA



## Open House Provides Resources for Residents and Communities to Lower Risk During Hazard Events

*FEMA, DCR, and USACE bring their expertise to Eastern Shore*

**ACCOMAC**— For the last two years residents from the Eastern Shore have worked together to make a plan to address flooding, high winds, erosion and other hazards that face our peninsula.

“We can’t do anything to stop hurricanes and other storms that bring flooding and high winds, but we can get smarter about the harm they bring, including floods and flood zones, and how to protect ourselves,” said Jim Eichelberger, Mayor of Parksley and Chairman of the local-government-appointed Eastern Shore Hazard Mitigation Steering Committee. The committee was established to re-write the plan that evaluates and prioritizes actions to protect life and property before disaster strikes.

Accomack-Northampton Planning District Commission is organizing the work under a grant from the Federal Emergency Management Agency and the Virginia Department of Emergency Management. The commission and two agencies, along with the National Oceanic and Atmospheric Administration, the Virginia Coastal Zone Management Program, and the non-profit Wetlands Watch are co-sponsoring two Feb. 11 workshops for Accomack and

## Meetings & Outreach

Northampton individuals and communities that want to learn more about flooding, flood zones, and floodplain management actions communities can take to potentially lower flood insurance rates.

Charley Banks, the Certified Floodplain Manager and NFIP Coordinator for the Commonwealth, will be present.

### USACE

Communities opting into the program increase public flood awareness, enhance public safety, reduce damage to private property and public infrastructure, avoid economic disruption and losses, reduce human suffering, and protect the environment. As communities incrementally implement more rigorous program levels, they qualify for greater flood insurance discounts from the National Flood Insurance Program.

For more information about the open house or the hazard mitigation plan, please contact Shannon Alexander, Accomack-Northampton Planning District Commission, 787-2936 x115, or [salexander@a-npdc.org](mailto:salexander@a-npdc.org).