SUMMARY NOTES OF THE JUNE 2, 2015 MEETING OF THE RACINE COUNTY HAZARD MITIGATION PLAN LOCAL PLANNING TEAM

INTRODUCTION

The June 2, 2015 meeting of the Racine County Hazard Mitigation Plan Local Planning Team was convened at the Racine County Center at 9:00 a.m. The meeting was called to order by David Maack, Coordinator of the Racine County Office of Emergency Management. Attendance was taken by circulating a sign-in sheet.

In attendance at the meeting were the following individuals:

Local Planning Team Members

David Maack, Chair Coordinator, Racine County Office of Emergency Management
Aaron Owens, Secretary Planner, Southeastern Wisconsin Regional Planning Commission
Julie Anderson Director, Racine County Department of Public Works and

Development Services

Mark Anderson Lieutenant, City of Burlington Police Department

Christopher Bennet Trustee, Village of Rochester

Brandon Bledsoe Management Intern, Village of Wind Point

Dottie Bowersox Public Health Administrator, Racine Health Department

Joseph Boxhorn Senior Planner, Southeastern Wisconsin Regional Planning Commission

Jyl Brunner Administrative Captain, Racine Youthful Offender Correctional Facility

Jeff Busch Building Superintendent, Town of Dover

Pat Campbell Clerk, Town of Norway

Tom Christensen Administrator, Village of Caledonia
Jeff Collen Chief Executive Officer, YMCA of Racine

Aaron Collins Director of Plant Operations and Maintenance, Wheaton Franciscan

Healthcare

James F. Day Assistant Chief, S.C. Johnson & Son Fire Brigade

Jonathan Delagrave County Executive, Racine County

Tom Ditscheit Chief, Town of Waterford Police Department
Jeff Dolezal Director of Public Works, Village of Waterford
Mark Dubiel Emergency Management Coordinator, Cree

Brian Freitag Manager of Environmental and Facility Services, In-Sink-Erator Silviano E. Garcia Public Health Specialist, Central Racine County Health Department

Michael Hawes Village Administrator, Village of Wind Point Nicholas Hempel Division Chief, City of Racine Fire Department

Ken Hinz Supervisor, Town of Waterford Public Works Department

Perry Howard Fire Chief, City of Burlington Fire Department
Jody Howell Supervisor, Racine County Communication Center
Jake Isaacson Supervisor, Town of Dover Roads Department
Jon Keiser Battalion Chief, South Shore Fire Department

Laura L. Kletti Chief Environmental Engineer, Southeastern Wisconsin Regional

Planning Commission

Jill Kopp Clerk-Treasurer, Village of Union Grove

Tom Kramer Administrator, Town of Norway

Heidi Lange Manager, Marketing, Communications & Public Relations, Wheaton

Franciscan Healthcare

Chris Litzau President, Great Lakes Community Conservation Corps

Jennifer Loizzo Registered Sanitarian, Central Racine County Health Department

Paul Madden Battalion Chief, City of Racine Fire Department

Michael McKinney Clerk/Treasurer, Town of Yorkville

Luke Miller Trustee, Franksville United Methodist Church

Moira Moon Administrative Assistant, Racine County Office of Emergency

Management

Jane Nikolai Treasurer, Racine County

Mark Osmundsen Director of Public Works, Village of Union Grove

Nakeisha Payne Senior Public Involvement & Outreach Specialist, Southeastern

Wisconsin Regional Planning Commission

Cody Pearce Public Health Educator, City of Racine Dick Roeder Chief, Caledonia Fire Department

Kyle Roeder Disaster Program Manager, American Red Cross of Southeast Wisconsin

Ben Schliesman

Southeast Region Director, Wisconsin Emergency Management

Village Engineer, Village of Sturtevant Department of Public Works

John P. Serketich Assistant Corporation Counsel, Racine County

Robert Stedman Chief, South Shore Fire Department

Anthony Trevino Security Manager, Cree

Skip Twardosz Emergency Management Director, Town of Burlington Captain, Village of Caledonia Police Department Dan Warren Business Manager, Accu-Temp Heat Treating Stacev Webber James Weidner Captain, Racine County Sheriff Department Chuck Weitzel Lieutenant, City of Racine Police Department Lieutenant, City of Racine Police Department David Wohlgemuth Craig Workman Director of Public Works, City of Burlington Mark Yehlen Commissioner of Public Works, City of Racine

Mr. Maack welcomed all attendees to the meeting and thanked them for their participation. He noted that the first Racine County hazard mitigation plan was completed ten years ago and that the plan was updated in 2010. He further explained that the plan is required to be updated every five years, and that this meeting marked the beginning of the second update to the original plan. Mr. Maack emphasized that input from the Local Planning Team will be invaluable throughout the process and that the plan is very important to ensure communities maintain eligibility for funding for potential mitigation projects.

Mr. Maack introduced Julie Anderson, Director, Racine County Department of Public Works and Development Services. Ms. Anderson welcomed everyone to the plan updating process and reiterated the importance of keeping the County's hazard mitigation plan up to date. She discussed the flooding that the County experienced in 2008 and 2009 and explained how the hazard mitigation plan allowed the County to access State and Federal aid to rehabilitate homes damaged by the floods. She noted that the County has had a great partnership with the Southeastern Wisconsin Regional Planning Commission (SEWRPC) throughout the initial planning process and the update to the plan. Ms. Anderson said that in addition to assisting Racine County with its plan update, SEWRPC is currently working with two other counties on their hazard mitigation plans as well.

Ms. Anderson introduced Jonathan Delagrave, Racine County Executive. Mr. Delagrave welcomed everyone and commended the good mix of government, non-profit, and business interests coming together for this important process. Mr. Delagrave discussed notable hazard events that had occurred within the County, and indicated that most were related to weather and particularly flooding hazards. He explained that the County was eligible and received FEMA assistance to help make communities whole again after these events. He said that in addition to keeping the County eligible for aid, the hazard mitigation plan identifies policies and actions to reduce the risk of costly damages and loss of life within the County.

OVERVIEW OF HAZARD MITIGATION AND HAZARD MITIGATION PLAN UPDATING PROCESS

Mr. Maack introduced Joseph Boxhorn, Senior Planner, SEWRPC. Mr. Boxhorn presented an overview of hazard mitigation and the hazard mitigation plan updating process.

[Secretary's Note: A copy of Mr. Boxhorn's presentation is attached herein as Exhibit A.]

BACKGROUND ON THE SECOND UPDATE OF THE RACINE COUNTY HAZARD MITIGATION PLAN

Mr. Boxhorn introduced Aaron Owens, Planner, SEWRPC who then presented background information on the initial hazard mitigation plan and the first update to the plan. He explained that the initial planning process began in 2001 and the first edition plan was published in 2004. Study began in 2009 for the first update of the plan, which was coordinated with the development of the County's comprehensive plan that was ongoing at the time. The first update to the hazard mitigation plan was published in 2010. Mr. Owens stated that all municipalities, as well as many additional non-governmental partners, participated in some fashion in both the initial planning effort as well as the update to the plan. Mr. Owens also outlined the main plan components to be reviewed and revised, presented a work schedule for the plan update, and explained the role of the Local Planning Team in the plan development process. He stated that a project webpage has been created on the SEWRPC website and indicated that draft chapters of the plan report, meeting materials, and summary notes from planning team meetings will be available on this page. He added that a comment screen is also available on this webpage through which planning team members and members of the public may submit questions or comments on the draft plan.

[Secretary's Note: Mr. Owens' presentation is attached herein as Exhibit A. A copy of the proposed work schedule for the plan update is attached herein as Exhibit B.]

REVIEW OF HAZARD MITIGATION GOALS FROM FIRST PLAN UPDATE

Mr. Owens presented a brief overview of the goals that were established for the initial Racine County hazard mitigation planning program and revised during the first update of the plan. He explained that each goal had several objectives and standards associated with them and asked the Team to review the goals and to begin to think about any changes and/or additions that may be necessary. He noted that there will be opportunities to revise goals as needed as the planning process continues.

[Secretary's Note: A copy of the hazard mitigation goals is attached herein as Exhibit C.]

Mr. Maack asked if these goals are similar to the goals of other communities conducting hazard mitigation planning. Mr. Boxhorn responded that most of the hazard mitigation plans that he has worked on have very similar goals. He indicated that Kenosha County has one additional goal related to communications interoperability amongst first responders. Mr. Maack also asked if communicable diseases would fall under the goal of "Unpredictable Hazards". Mr. Owens responded that the "Unpredictable Hazards" goal was intended to cover a broad range of hazards which are unpredictable and not geographically specific which would include communicable diseases. If the planning team feels that there should be a separate goal pertaining to communicable disease or any other hazard, there will be an opportunity to add or revise goals as the process proceeds.

HAZARD AND VULNERABILITY ASSESSMENT EXERCISE

Mr. Owens stated that as part of the hazard and vulnerability analysis for the plan, it will be necessary to decide which hazards will be addressed by the plan. He indicated that a hazard and vulnerability assessment tool and instructions for completing the tool were included with the agenda for this meeting.

[Secretary's Note: A copy of the hazard and vulnerability assessment tool and the instructions for completing the tool are attached herein as Exhibit D.]

Mr. Owens explained that the tool assesses the potential that a specific hazard may occur, the likely severity of impacts resulting from these hazards, and the extent to which these impacts may be mitigated by current levels of preparedness. Mr. Owens asked the members of the Local Planning Team to complete the hazard and vulnerability assessment tool. He noted that the results of this exercise would be used to help determine which hazards are addressed by the hazard mitigation plan update.

In response to a request from Mr. Maack, Mr. Boxhorn guided the Team through the assessment tool using the first listed hazard, riverine flooding, as an example.

Jennifer Loizzo, registered sanitarian, Central Racine County Health Department, asked if the assessment should be completed utilizing their experience from the entity that they are representing or through their perception of the entire County. Mr. Owens responded that ideally they would complete the exercise through their observations of the entire County. He added that if the members felt uncomfortable assessing the entire County, utilizing their experience from only their entity would be sufficient and asked that they note the entity they are representing on the top of the assessment tool.

ADJOURNMENT

There being no further business, the meeting was adjourned by unanimous consent at 10:30 a.m.

CAPR-266-3 SUMMARY NOTES RACINE CTY HMP LPT MTG JUNE 2, 2015 (00226216). DOC 500-1113 LLK/AWO/kmd

Exhibit A









Why Do We Mitigate?



- Disasters cost society too much
- State and federal aid insufficient
- Can prevent future damages
- Reduce impacts of disaster and speed response and recovery process
- Mitigation happens at the local level

Why Do We Mitigate?

Nationwide Trends

- \$80 Billion 2004-2011 (GAO) responding to disasters
- \$6 Billion per year in flood damages
- · Costs continue to rise
- People continue to build and live in high-risk areas





Why Do We Mitigate?





In Wisconsin

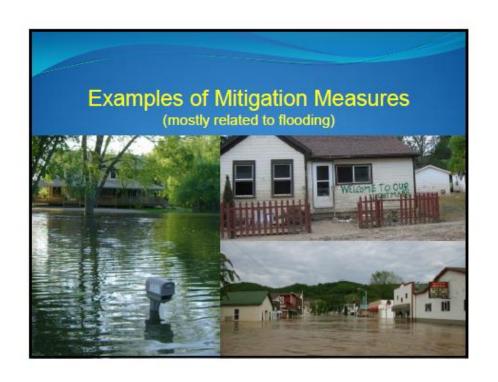
- \$3 billion in disaster-related damages last 3 decades
- 12 Federal Disaster
 Declarations in the 90's compared to 6 in the 80's
- 2000, 2001, two in 2002, 2004, 2007, 2008, two in 2010, 2011, 2012, 2013
- 2 snow emergencies (2000 and 2008)

Value of Mitigation





- In 2005, the National Institute of Building Sciences found that for every \$1 spent on mitigation, \$4 are saved in avoided future damages
- A loss avoidance study for Crawford, Jefferson, and Kenosha Counties found that as of 2009 mitigation measures taken between 1989 and 2008 costing \$11.0 million resulted in \$14.3 million in avoided damages

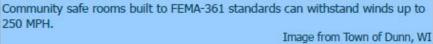


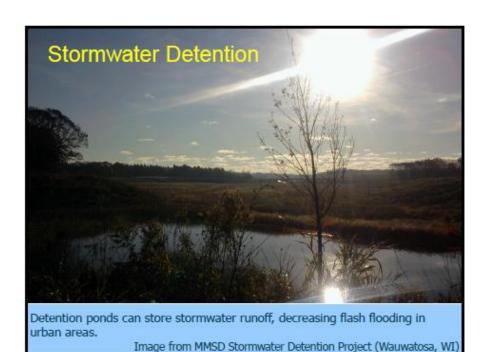




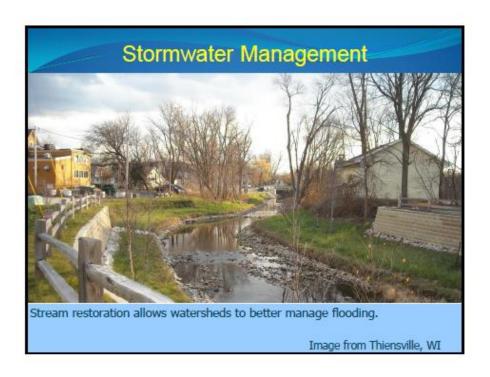


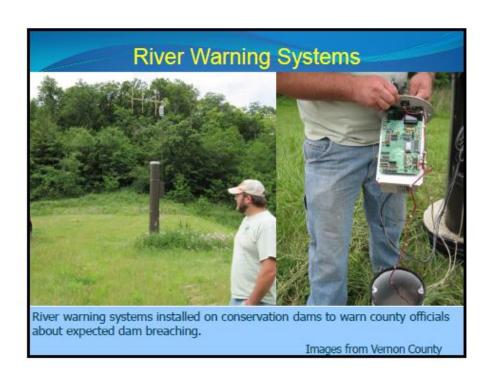






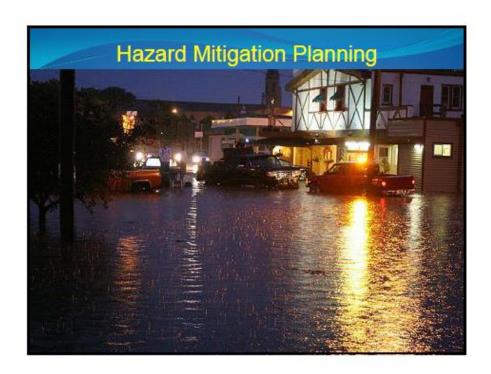
PRELIMINARY DRAFT











Disaster Mitigation Act of 2000

- Established a national disaster mitigation program
- Communities must have an approved hazard mitigation plan to be eligible to receive Federal funds through:
 - Hazard Mitigation Grant Program (HMGP)
 - Pre-disaster Mitigation Program (PDM)
 - Flood Mitigation Assistance Program (FMA)
- Plans must be reviewed and updated every five years

Disaster Mitigation Act of 2000

Vision of the Disaster Mitigation Act of 2000

- Communities will have all hazards mitigation plans that identify and prioritize costeffective mitigation measures that can be implemented prior to a disaster or quickly after a disaster
- Having a plan would speed up the recovery process

- 1. Documentation of the planning process
- 2. Description of study area
- 3. Hazard mitigation goals and objectives
- 4. Analysis of hazard conditions
- 5. Hazard mitigation strategies
- 6. Plan adoption, implementation, and maintenance

Plan Components

- 1. Documentation of the Planning Process
 - Chapter 1 and Appendix A
 - Incorporated municipalities must participate in plan development and adopt the plan in order to be covered
 - County adoption covers the towns
 - Public and adjacent communities must be given an opportunity to comment during the drafting stage

- 2. Description of Study Area Chapter 2
- Demographic
- Surface waters
- Transportation
- Public facilities
 - Police facilities
 - Fire facilities
 - EMS facilities
- Related regulations and programs

- Land use
- · Flood hazard areas
- Utility systems
- Critical community facilities
- Hazardous material use and storage
- Emergency operation planning

Plan Components

- 3. Hazard Mitigation Goals-Chapter 3
 - Express what the plan is trying to achieve
 - Ties the plan to other active plans
 - e.g. The County comprehensive plan
 - Fairly general

- 4. Analysis of Hazard Conditions-Chapter 4
 - Vulnerability and risk analysis for each covered hazard
 - · Historical and recent incidents
 - Vulnerabilities and community impacts
 - · Human lives, property damages, crop damages
 - Potential for future changes in hazard conditions
 - Multijurisdictional aspects

Plan Components

- 5. Hazard Mitigation Strategies-Chapter 5
 - Develop a range of actions and projects to reduce the impacts of each hazard
 - · Structural, nonstructural, educational
 - Prioritize actions for implementation
 - Identify responsible parties
 - Examine costs and benefits
 - Consider multi-jurisdictional aspects

- Plan Adoption, Implementation, and Maintenance-Chapter 6
 - County and incorporated municipalities must formally adopt the plan
 - Towns are covered by County adoption
 - Detail available funding and technical assistance
 - Monitoring of plan implementation
 - Incorporation of the plan into existing planning mechanisms





Initial Racine County HMP Study conducted 2001-2004 Report published 2004 RACINE COUNTY HAZARD MITIGATION PLAN RACINE COUNTY HAZARD MITIGATION PLAN REPORT STANS OF STANS AND STREETING TO STANS AND STANS AND STREETING TO STANS AND STREETING TO STANS AND S

Initial Racine County HMP

Local Government Partners

- City of Burlington
- City of Racine
- Village of Elmwood Park
- Village of North Bay
- Village of Rochester
- Village of Sturtevant
- Town of Union Grove
- Town of Waterford
- Town of Wind Point

- Town of Burlington
- · Town of Caledonia
- Town of Dover
- Town of Mt. Pleasant
- Town of Norway
- Town of Raymond
- Town of Rochester
- Town of Waterford
- Town of Yorkville

Initial Racine County HMP

Additional Partners

- Racine County Board
- · Racine County Departments
- · Sherriff's, Police, and Fire Departments
- Public Works Departments
- American Red Cross
- National Weather Service
- Racine Area Manufacturers and Commerce
- · Racine Economic Development Corporation
- Sustainable Racine
- UW-Parkside and UW-Extension
- We Energies
- Wisconsin Coastal Management
- Wisconsin Department of Natural Resources
- Wisconsin Division of Emergency Management

First Plan Update

- Study conducted 2009/2010
- Coordinated with development of the County comprehensive plan
- Reviewed and revised
 - Goals
 - Vulnerability and risk analysis
 - Mitigation strategies

Report published 2010

First Update: Participating Jurisdictions

Racine County

City of Burlington

City of Racine

Village of Caledonia

Village of Elmwood Park

Village of Mt. Pleasant

Village of North Bay

Village of Rochester

Village of Sturtevant

Village of Union Grove

Village of Waterford

Village of Wind Point

Town of Burlington

Town of Dover

Town of Norway

Town of Raymond

Town of Waterford

Town of Yorkville

First Plan Update

Additional Partners

- Racine County Executive's Office
- Racine County Board
- Racine County Departments
- · Sherriff's, Police, and Fire Departments
- Public Works Departments
- Racine Area Manufactures and Commerce
- Racine County ARES/RACES
- Volunteer Center of Racine County
- We Energies
- · Western Racine County Health Department
- Wheaton Franciscan Health Care
- Wisconsin Coastal Management
- Wisconsin Division of Emergency Management
- Wisconsin Department of Natural Resources

Plan Components to Review and Revise for 2nd Plan Update

- Review implementation activities
- Update inventories of natural and built features
- Review and reevaluate identification of hazards
- Update and reevaluate risk analysis
- Review and revise mitigation goals
- Review and revise mitigation strategies
- Update plan implementation and maintenance

Tentative Sche	dale
Task	Estimated Completion Date
Update Planning Team Membership	April 1, 2015
Survey Designated Management Agencies Regarding Status of Implementation of Original Plan	June 30, 2015
Kickoff Flanning Team Meeting	Early June
Public Participation	January 2015 through July 2018
Develop Updated Community Profiles	June 15, 2015
Planning Team Meeting (Review Chapters 1 and 2)	Late August 2015
Identify and Describe Hazards	September 15, 2015
Review of Established Goals and Objectives	October 15, 201:5
Update Risk and Vulnerability Assessments	November 15, 2015
Planning Team Meeting (Review Chapters 3 and 4)	Early February 2016
First Public Meeting	Late February 2010
Development of Updated Mitigation Actions	April 30, 2016
Development of Updated Plan Maintenance Process	May 31, 2018
Apply to Wisconsin Emergency Management for Extension of Grant Deadline (Original Period of Performance Deadline is September 1, 2018)	June 15, 2016
Planning Team Meeting (Review Chapters 5 and 6)	Late June 2016
Second Public Meeting	Late July 2010
Submit Draft Plan Update to Wisconsin Division of Emergency Management for Review	August 31, 2016
Reviee Plan Based on State Review	October 31, 2016
Submit Final Plan Update to the Federal Emergency Management Agency for Approval Pending Adoption	November 15, 2016
Formal Adoption	February 15, 2017

Key Dates (all tentative)

- Local Planning Team Meetings
 - August 2015, February 2016, June 2016
- Public Meetings
 - February 2016, July 2016
- Submit for Review Wisconsin DEM
 - August 2016
- County Adoption
 - February 2017

Local Planning Team Role

- Weigh in on hazard identification
- Review the plan chapters
- Help us get needed information
 - Recent and historical problems with hazards → Location, occurrence, damages
 - Recent projects, planned and contemplated projects, recent hazard-related outreach
 - Inventory data

Project Web Site

http://www.sewrpc.org/SEWRPC/communityassistance/Haza rd-Mitigation-Planning.htm Copy of the 2010 plan update

- Agendas and other meeting materials
- Summary notes from meetings
- Presentations
- Draft chapters as they are completed
- Comment screen
- Other ways to send a comment/question:

 - (262) 953-4293



Hazard Mitigation Goals

- Land Use: A spatial distribution of the various land uses which minimizes hazards and dangers to health, welfare, and safety, as well as further enhancing the economic base of the County and will result in a compatible arrangement of land uses properly related to the existing and proposed supporting transportation, utility, public safety systems, and public facility systems.
- 2. Natural Resources: A spatial distribution of the various land uses which maintains biodiversity and which will result in the protection and wise use of the natural resources of the County, including its soils, inland lakes and streams, groundwater, wetlands, woodlands, wildlife, and natural areas and critical species habitats.

Hazard Mitigation Goals

- 3. Transportation: An integrated transportation system which, through its location, capacity, and design, will safely, economically, and effectively serve the existing and proposed land use pattern and promote the implementation of the land use plan, meeting the current and anticipated travel demand and minimizing the potential for accidents and the associated toll on life and property damage.
- Fire, Police, and Emergency Medical Services: The provision of facilities necessary to maintain a high quality of fire and police protection and emergency medical services throughout the County.

Hazard Mitigation Goals

- 5. Stormwater and Floodland Management: The development of a stormwater and floodland management system which reduces the exposure of people to drainage- and flooding-related inconvenience and to health and safety hazards and which reduces the exposure of real and personal property to damage through inundation resulting from flooding and inadequate stormwater drainage.
- Lake Michigan Coastal Erosion: The identification of high erosion risk Lake Michigan shoreline areas and the development of a coastal erosion control program which reduces the exposure of people and real and personal property to shoreline erosion and bluff recession.

Hazard Mitigation Goals

7. Unpredictable Hazards: The identification and development of programs which complement County and local emergency operations plans, to mitigate the potential exposure to health and safety and the exposure of real and personal property resulting from a broad range of hazards which are unpredictable and not geographically specific in nature.

Questions?

Hazard and Vulnerability Assessment Exercise

- Evaluate the potential that specific hazards may occur, the likely severity of impacts resulting from these hazards, and the extent to which these impacts may be mitigated by current levels of preparedness.
- First step in identifying which hazards will be addressed by the plan

Exhibit B

Attachment 1

PROPOSED WORK SCHEDULE FOR UPDATING THE RACINE COUNTY HAZARD MITIGATION PLAN

Task	Estimated Completion Date		
Update Planning Team Membership	April 1, 2015		
Survey Designated Management Agencies Regarding Status of Implementation of Original Plan	June 30, 2015		
Kickoff Planning Team Meeting	Early June		
Public Participation	January 2015 through July 2016		
Develop Updated Community Profiles	June 15, 2015		
Planning Team Meeting (Review Chapters 1 and 2)	Late August 2015		
Identify and Describe Hazards	September 15, 2015		
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Submit Draft Plan Update to Wisconsin Division of Emergency Management for Review	August 31, 2016		
Revise Plan Based on State Review	October 31, 2016		
Submit Final Plan Update to the Federal Emergency Management Agency for Approval Pending Adoption	November 15, 2016		
Formal Adoption	February 15, 2017		
Anticipated Period of Performance Deadline	March 1, 2017		

00226042.DOC AWO 5/21/2015, 05/26/2015

Exhibit C

Attachment 2

GOALS FOR RACINE COUNTY ALL HAZARD MITIGATION PLAN

The following goals have been established for the Racine County hazard mitigation planning program.¹ The goals have been established based, in part, upon goals previously established in watershed, park and open space, and land use planning programs.

- 1. **Land Use:** A spatial distribution of the various land uses which minimizes hazards and dangers to health, welfare and safety as well as further enhancing the economic base of the County, and will result in a compatible arrangement of land uses properly related to the existing and proposed supporting transportation, utility, public safety systems, and public facility systems.
- 2. **Natural Resources:** A spatial distribution of the various land uses which maintains biodiversity and which will result in the protection and wise use of the natural resources of the County, including its soils, inland lakes and streams, groundwater, wetlands, woodlands, wildlife, and natural areas and critical species habitats.
- 3. **Transportation:** An integrated transportation system which, through its location, capacity, and design, will safely, economically, and effectively serve the existing and proposed land use pattern and promote the implementation of the land use plan, meeting the current and anticipated travel demand and minimizing the potential for accidents and the associated toll on life and property damage.
- 4. **Fire, Police, and Emergency Medical Services:** The provision of facilities necessary to maintain a high quality of fire and police protection and emergency medical services throughout the County.
- 5. **Stormwater and Floodland Management:** The development of a stormwater and floodland management system which reduces the exposure of people to drainage- and flooding-related inconvenience and to health and safety hazards and which reduces the exposure of real and personal property to damage through inundation resulting from flooding and inadequate stormwater drainage.
- 6. **Lake Michigan Coastal Erosion:** The identification of high erosion risk Lake Michigan shoreline areas and the development of a coastal erosion management program which reduces the exposure of people and real and personal property to shoreline erosion and bluff recession.
- 7. **Unpredictable Hazards:** The identification and development of programs which complement County and local emergency operations plans, to mitigate the potential exposure to health and safety and the exposure of real and personal property resulting from a broad range of hazards which are unpredictable and not geographically specific in nature.

00226041.DOC AWO 05/21/15

¹SEWRPC Community Assistance Planning Report No. 266, 2nd Edition, *Racine County Hazard Mitigation Plan Update:* 2011-2015, July 2010.

Exhibit D

INSTRUCTIONS FOR COMPLETING HAZARD VULNERABILITY AND ASSESSMENT TOOL

The purpose of this Hazard Vulnerability and Assessment Tool is to evaluate the potential that specific hazards may occur, the likely severity of impacts resulting from these hazards, and the extent to which these impacts may be mitigated by current levels of preparedness. The tool uses estimates of probability of occurrence, likely severity of impacts, and level of preparedness to estimate the risk posed by each hazard.

Please address all of the potential threats that are listed. Instructions for completing entries in each column are given below.

Probability

For each of the listed hazards, please indicate the likelihood that it will occur, with 1 indicating a low probability of occurrence, 2 indicating a moderate probability of occurrence, and 3 indicating a high probability of occurrence. Issues to consider for probability include, but are not limited to:

- Known risk,
- Historical data and experience, and
- Local government or agency experience.

Human Impacts

For each of the listed hazards, please indicate what you consider to be the likely level of impacts to human life if the hazard occurs, with 1 indicating a low level of impacts, 2 indicating a moderate level of impacts, and 3 indicating a high level of impacts. Issues to consider for human impacts include, but are not limited to:

- Potential of the hazard to cause death, and
- Potential of the hazard to cause injury requiring medical treatment.

Property Impacts

For each of the listed hazards, please indicate the likely level of physical losses and damages to property if the hazard occurs, with 1 indicating a low level of losses and damages, 2 indicating a moderate level of losses and damages, and 3 indicating a high level of losses and damages. Issues to consider for property impacts include, but are not limited to:

- The potential of the hazard to cause damage to property or crops,
- The cost to replace damaged property,
- The cost to set up a temporary replacement for damaged property,
- The cost to repair damaged property, and
- The time to recover from the property damage.

Business and Government Agency Impacts

For each of the listed hazards, please indicate what the likely level of impacts to the operations of businesses and government agencies is if the hazard occurs, with 1 indicating a low level of impacts, 2 indicating a moderate level of impacts, and 3 indicating a high level of impacts. Issues to consider for business impacts include, but are not limited to:

- Business or agency interruption,
- Employees unable to report to work,
- Customers or clients unable to reach facility,
- Company or agency in violation of contractual agreements,
- Imposition of fines and penalties or legal costs,
- Interruption of access to critical supplies,
- Interruption of product or service distribution,
- Financial impact or burden, and

• Interruption of critical care and emergency services.

Preparedness

For each of the listed hazards, please indicate the current level of preparedness for dealing with the hazard and its impacts, with 1 indicating a high level of preparedness, 2 indicating a moderate level of preparedness, and three indicating a low level of preparedness or no preparedness. Issues to consider for preparedness include, but are not limited to:

- The status of current plans that address the hazard,
- The frequency of drills that address the hazard,
- The status of training related to the hazard and its impacts,
- Insurance.
- The availability of back-up systems, and
- The availability of community resources.

This survey will be compiled and the results will be reported during the hazard identification phase of developing or updating the hazard mitigation plan.

#224805.DOC JEB 03/30/15

Exhibit D (continued)

Attachment 3

HAZARD AND VULNERABILITY ASSESSMENT TOOL RACINE COUNTY HAZARD MITIGATION PLAN UPDATE

		SEVERITY = (MAGNITUDE - MITIGATION)				
		BUSINESS HUMAN PROPERTY AND AGENCY			1	
EVENT	PROBABILITY	IMPACT	IMPACT	IMPACT	PREPAREDNESS	RISK
	Likelihood This Will Occur	Possibility of Death or Injury	Physical Losses and Damages	Interruption of Services	Preplanning	Relative Threat*
SCORE	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 - 100%
A1. Riverine flooding						0%
A2. Stormwater flooding						0%
A3. Lake flooding						0%
A4. Tornado						0%
A5. Thunderstorm						0%
A6. High straight-line wind						0%
A7. Lightning						0%
A8. Hail						0%
A9. Heavy snow storm						0%
A10. Blizzard						0%
A11. Ice storm						0%
A12. Extreme cold						0%
A13. Extreme heat						0%
A14. Drought						0%
A15. Fog						0%
A16. Dust storm						0%
A17. Lake Michigan Erosion						
A18. Earthquake						
B1. Contamination or loss of water supply system						0%
B2. Loss of sewerage system						0%
B3. Loss of telecommunication						0%
B4. Electrical system outage						0%
B5. Computer system incident/cyber attack						0%
C1. Hazardous materials railroad incidents						0%
C2. Hazardous materials roadway incidents						0%
C3. Hazardous materials pipeline incidents						0%
C4. Hazardous materials fixed facility incidents (industries, bulk fuel storage sites, grain elevators, agricultural chemical storage, and explosives, including fireworks storage)						0%
D1. Railroad transportation accidents						0%
D2. Roadway transportation accidents					*	0%
D3. Aviation accidents						0%
E1. Correctional center incidents						0%
E2. Civil unrest						0%
E3. Terrorism incidents (bomb threats, hostage situations, biological incidents)						0%
E4. Workplace violence						0%
E5. School violence						0%
F1. Communicable disease outbreak or epidemic						0%
F2. Large-scale food contamination						0%
G1. Wildfire						0%
G2. Large structure fires						0%
G3. Explosions						0%
G4. Mass casualty incidents						0%
G5. Building collapse or cave-in						0%
H1. Dam failure						0%
H2. Landslide						0%
H3. Land subsidence	1					0%
Other Event (write in)						
Other Event (write in)						
AVERAGE SCORE	0.00	0.00	0.00	0.00	0.00	0%

*Threat increases with percentage.

Source: Kaiser Permanente and SEWRPC.

RISK = PROBABILITY * SEVERITY

0.00 0.00 0.00

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