

# Memorandum

Date: December 8, 2014  
To: Lower Alloways Creek Township Municipal Working Group  
From: Stuart Wallace, LLC

**Re: Mitigation Plan for Four New Jersey Counties  
Preliminary Salem County Municipal Appendices  
Appendix SC.06: Lower Alloways Creek Township, New Jersey**

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This document contains the Preliminary Municipal Appendix for your municipality, which is part of the Salem County portion of the Mitigation Plan for Four New Jersey Counties.

As discussed during the 1<sup>st</sup> and 2<sup>nd</sup> Round Working Sessions earlier this year, Stuart Wallace, LLC (SW LLC) is providing this document for review by the Municipal Working Group and any interested parties. This review process is consistent with the requirements of the Federal Emergency Management Agency (FEMA) and the New Jersey Office of Emergency Management (NJOEM).

Please note the following:

- The review period for the Preliminary Municipal Appendix will conclude no later than Friday, January 9, 2014. On or before January 9<sup>th</sup>, any review comments will need to be compiled by the Municipal Working Group and provided to SW LLC. In addition, page 2 of this memorandum includes a checklist of specific items to be reviewed and/or additional information needed from the Municipal Working Group. This checklist and corresponding information should be completed and provided to SW LLC by January 9<sup>th</sup> with the compiled review comments.
- Notification should be provided to the public on your municipality's website that the Preliminary Municipal Appendix is available for public review and comment. The following is recommended text to include in this notification:

*As part of the on-going update of the Salem County Multi-Jurisdictional Hazard Mitigation Plan, a Preliminary Municipal Appendix is available for review that addresses natural hazard mitigation issues for our community. The Preliminary Municipal Appendix can be downloaded from <http://nj4hmp.com> by clicking on "Salem County" and then clicking on "Lower Alloways Creek Township". Comments can be submitted via the "Contact Us" page on the website. However, please note that comments must be submitted no later than Friday, January 9, 2014.*

- A Public Hearing should be scheduled between now and January 9<sup>th</sup> to allow for comments by the general public and any interested parties. It is recommended that the Public Hearing be scheduled as an agenda item on a regularly scheduled meeting of the municipality's elected officials. However, the municipality may also choose to schedule a special meeting for this purpose.
- It is strongly recommended that the Municipal Working Group meet to review the Preliminary Municipal Appendix between now and January 9<sup>th</sup>, provide any additional requested information, and compile all review comments for transmittal to SW LLC. Following this memorandum is a sign-up sheet to use for this meeting and a participant information sheet for new members of the Municipal Working Group who participate in the review of the Preliminary Municipal Appendix.

After the review period concludes on January 9<sup>th</sup> SW LLC will address all comments. Then, unless otherwise indicated by the Municipal Working Group, it is assumed that the Municipal Working Group authorizes the Salem County Office of Emergency Management to submit the Municipal Appendix to NJOEM and FEMA for review.

Please provide review comments and completed checklist to:

Fay Makrinos  
Email: [theofani@gmail.com](mailto:theofani@gmail.com)  
Mail: 20 Tulip Lane,  
Colts Neck, NJ 07722  
Phone: 202.870.0491

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Stuart Wallace, LLC

P.O. Box 2001 ♦ Shepherdstown, WV 25443 ♦ 304.377.7586 ♦ [sw@stuartwallace.com](mailto:sw@stuartwallace.com)

### **Checklist for Preliminary Municipal Appendix – Quinton Township, Salem County**

The Municipal Working Group should review all the contents of the Preliminary Municipal Appendix to confirm accuracy and applicability to the municipality.

Items highlighted in green throughout the Preliminary Municipal Appendix will be provided by SW LLC prior to submittal of the Draft Municipal Appendix to NJOEM and FEMA or as part of planned workshops later in the project.

In addition, the following items are highlighted in yellow on the indicated pages as SW LLC is requesting confirmation of these specific items and/or additional information to complete the document for submittal to NJOEM and FEMA.

#### Municipal Working Group Participation

- Page SC.6-2: Per Footnote #3, provide date, sign-up sheet and participant information forms for Municipal Working Group meeting(s) to review the Preliminary Municipal Appendix
- Page SC.6-3: Confirm / revise name and department of Floodplain Administrator
- Page SC.6-3: Ensure Floodplain Administrator participates in the review of the Preliminary Municipal Appendix

#### Public Participation

- Page SC.6-5: Provide information regarding Public Participation activities in Table SC.6-2, in particular, the highlighted cells in the 2<sup>nd</sup> and 3<sup>rd</sup> lines from the bottom
- Page SC.6-5: Provide copy or link to July Newsletter per third cell from the top in Table SC.6-2
- Page SC.6-5: Confirm notification to the public regarding the Preliminary Municipal Appendix is posted on the municipality website no later than December 9<sup>th</sup>

*Note: See recommended text for website posting on page 1 of this Memorandum.*

#### Critical Facilities

- Page SC.6-12: Review and confirm that to the best of the Mitigation Working Group's knowledge, the Critical Facilities included in Table SC.6-8 represent a complete and comprehensive list of critical facilities in the municipality

*Note: Other possible Critical Facilities can include:*

- ✓ *Municipal offices and facilities*
- ✓ *Emergency services*
- ✓ *Staging areas for emergency operations*
- ✓ *Shelters*
- ✓ *Healthcare facilities*
- ✓ *Schools*
- ✓ *Municipal utilities*
- ✓ *Vulnerable populations*

- Page SC.6-13: Confirm / revise facility names for CF-1, CF-3, CF-4, CF-6 and CF-7 in Table SC.6-8
- Page SC.6-13: Confirm / revise “Sub-Type” for CF-7 in Table SC.6-8

#### SDVR Mitigation Measures

- Page SC.6-15: Confirm / revise mitigation strategy (bulleted list)
- Page SC.6-16: Confirm / revised “Comments” for “Lower Alloways 1” in Table SC.6-10

#### Mitigation Measures

- Page SC.6-17: Review and confirm that to the best of the Mitigation Working Group’s knowledge, the Mitigation Measures included in Tables SC.6-11 and SC.6-13 represent a complete and comprehensive list of possible risk reduction programs, activities, and projects

*Note: Other possible mitigation measures can include:*

- ✓ *Areas where recurrent flooding or drainage problems create regular, lengthy disruptions and/or property damage*
- ✓ *Evacuation routes that are subject to flooding or drainage problems*
- ✓ *Manufactured home parks that are subject to flooding or drainage problems and that may not have adequate safe room / shelter capacity*

*Note: A good reference to review for ideas about other possible mitigation measures is FEMA’s Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards.<sup>1</sup>*

- Page SC.6-19: Confirm / revise entries for “Responsible Part(ies)” in Table SC.6-12
- Page SC.6-19: Confirm / revise / complete entries for “Priority” in Table SC.6-12

*Note: The Municipal Working Group should confirm the priority rankings by evaluating the proposed mitigation measures relative to criteria established by the group and/or by using established evaluation processes.*

*General criteria the Municipal Working Group should consider are engineering feasibility, costs versus benefits, and potential environmental impacts.*

*A more involved evaluation process recommended by FEMA is called “STAPLEE”. The acronym incorporates the first letters of the various review criteria including Social, Technical, Administrative, Political, Legal, Economic, and Environmental.*

*Note: A good reference for information on the STAPLEE process is FEMA’s State and Local Mitigation Planning ‘how-to’ Guide #3: Developing the Mitigation Plan.<sup>2</sup>*

- Page SC.6-19: Confirm / revise entries for “Estimated Cost (\$)” in Table SC.6-12
- Page SC.6-19: Confirm / revise entries for “Target Date” in Table SC.6-12
- Page SC.6-19: Confirm / revise entries for “Next Step(s)” in Table SC.6-12
- Page SC.6-21: Confirm / revise entries for “Responsible Part(ies)” in Table SC.6-13

<sup>1</sup> <https://www.fema.gov/media-library/assets/documents/30627>

<sup>2</sup> <https://www.fema.gov/media-library/assets/documents/4267>, pages 2-12 through 2-20

- Page SC.6-21: Confirm / revise entries for "Priority" in Table SC.6-13
- Page SC.6-22: Provide URL or access to copies of Emergency Operations Plan – Base Plan and Stormwater Management Plan

Attachments:

- Municipal Working Group Preliminary Municipal Appendix Review Session Sign-in Sheet
- Municipal Working Group Participant Information Sheet

**Mitigation Plan for Four New Jersey Counties  
Municipal Working Group Preliminary Municipal Appendix Review Session Sign-in Sheet**

Lower Alloways Creek Township (Salem County)

Date: \_\_\_\_\_

Location: \_\_\_\_\_

\_\_\_\_\_

First Name	Last Name	Department	Position	Signature
David	Sowers	OEM / Police Department	OEM Coordinator / Public Safety Director	
Douglas	Hassler	Police Department / OEM	Lieutenant / OEM Deputy Coordinator	
Ronald	Campbell	Administration	Municipal Clerk	
Kevin	Clour	Finance Department	CFO	
John	Pulumbo	Lower Alloways Creek Township Construction	Construction Code Official / Floodplain Administrator	
James	Carll	Public Works	Detail Foreman	
Lewis	Fogg	Department of Public Works	Foreman	
Jay	Eitner	Board of Education	Superintendent	
David	Burgin	Emergency Services - PSEG Nuclear LLC	Emergency Preparedness	

<b>First Name:</b>		
<b>Last Name:</b>		
<b>Title:</b>		
<b>Phone Number:</b>		
<b>Email Address:</b>		
<b>Department Name:</b>		
<b>Employment Status (circle one):</b>	Volunteer / Stipend	Salaried
<b>Is your position Federally funded? (circle one):</b>	Yes	No
<b>Number of Years in Current Role:</b>		



Mitigation Plan for Four New Jersey Counties  
**Salem County Municipal Appendices**

**Appendix SC.6**  
**Lower Alloways Creek Township,**  
**New Jersey**

Preliminary

December 8, 2014

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## Part 1: Overview

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### Part 1.1: Mitigation Plan for Four New Jersey Counties

The Mitigation Plan for Four New Jersey Counties (NJ4 HMP) incorporates input from approximately ninety (90) participating municipalities in Camden, Cumberland, Gloucester, and Salem Counties. The NJ4 HMP is an update and expansion of the South Delaware Valley Region Multi-jurisdictional Hazard Mitigation Plans that were adopted by all four counties and approved by the Federal Emergency Management Agency in 2010 and 2011.

The NJ4 HMP has two main parts:

- Regional Hazard Mitigation Plan
- County and Municipal Appendices

The Regional Hazard Mitigation Plan includes descriptions and information that is common to all participating NJ4 HMP jurisdictions organized according to the following three main focus areas:

- Planning Process
- Hazard Identification and Risk Assessment
- Mitigation Measures

The Regional Hazard Mitigation Plan also includes Annexes that contain detailed background information for these three focus areas and additional reference materials for the implementation of the NJ4 HMP.

The County and Municipal Appendices include specific information for these same three main focus areas for each of the participating municipalities. Detailed tabulations are included in these Appendices for critical facilities, status of past mitigation activities, and proposed mitigation measures for each municipality.

### Part 1.2: Lower Alloways Creek Township (Salem County) Municipal Appendix

This Municipal Appendix is focused on Lower Alloways Creek Township in Salem County, New Jersey.

The Lower Alloways Creek Township Municipal Working Group recommended the Lower Alloways Creek Township (Salem County) Municipal Appendix for adoption on [date to be determined].

The Lower Alloways Creek Township Committee adopted the Municipal Appendix by resolution on [date to be determined].

Region II of the Federal Emergency Management Agency subsequently approved the Municipal Appendix on [date to be determined].

## Part 2: Participation

### Part 2.1: Municipal Working Group Participation

Part 2.1 includes:

- *Municipal Working Group members including positions in the community, meetings and work sessions attended, and specific contributions to the Municipal Appendix*
- *Municipal positions and organizations that were invited but were not able to participate in the plan update process*
- *Municipal positions and organizations that have been recommended by the Federal Emergency Management Agency (FEMA) as candidates for participation on Municipal Working Groups but do not exist in the municipality*

Table SC.6-1 identifies the Municipal Working Group members. As explained in *Section 2: Planning Process* of the Mitigation Plan for Four New Jersey Counties (NJ4 HMP) Regional Hazard Mitigation Plan, the Municipal Working Groups are comprised of community representatives who worked to make sure mitigation measures included in the Municipal Appendix addressed the risks faced by residents, businesses, and property owners and reflected the priorities of the community. The Working Group will also continue to stay involved during the implementation and maintenance of the NJ4 HMP.

**Table SC.6-1: Lower Alloways Creek Township (Salem County) Working Group**

First Name	Last Name	Department	Position	Round 1 Work Session <sup>1</sup>	Round 2 Work Session <sup>2</sup>	Other <sup>3</sup>	Contribution <sup>4</sup>
David	Sowers	Lower Alloways Creek Township OEM / Police Department	OEM Coordinator / Public Safety Director	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Organized Working Group and Work Sessions.
Douglas	Hassler	Lower Alloways Creek Township Police Department / OEM	Lieutenant / OEM Deputy Coordinator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Organized Working Group and Work Sessions. Provided Municipal documents for review.
Ronald	Campbell	Lower Alloways Creek Township Administration	Municipal Clerk	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Kevin	Clour	Lower Alloways Creek Township Finance Department	CFO		<input checked="" type="checkbox"/>		

<sup>1</sup> Round 1 Work Session was held on June 27, 2014.

<sup>2</sup> Round 2 Work Session was held on September 9, 2014.

<sup>3</sup> **Note to Municipal Working Group:** Entries in the "Other" column can include Municipal Working Group meeting(s) to review the Preliminary Municipal Appendix.

<sup>4</sup> Municipal Working Group members reviewed briefing materials in advance of Work Sessions, contributed during Work Sessions, and reviewed the preliminary Mitigation Plan for Four New Jersey Counties. Additional or unusual contributions are noted in the far right hand column of Table SC.6-1.

**Part 2: Participation**

<b>First Name</b>	<b>Last Name</b>	<b>Department</b>	<b>Position</b>	<b>Round 1 Work Session<sup>1</sup></b>	<b>Round 2 Work Session<sup>2</sup></b>	<b>Other<sup>3</sup></b>	<b>Contribution<sup>4</sup></b>
John	Pulumbo	Lower Alloways Creek Township Construction	Construction Code Official / Floodplain Administrator				
James	Carll	Lower Alloways Creek Township Public Works	Detail Foreman	<input checked="" type="checkbox"/>			
Lewis	Fogg	Lower Alloways Creek Township Department of Public Works	Foreman		<input checked="" type="checkbox"/>		
Jay	Eitner	Lower Alloways Creek Township Board of Education	Superintendent		<input checked="" type="checkbox"/>		
David	Burgin	Emergency Services - PSEG Nuclear LLC	Emergency Preparedness		<input checked="" type="checkbox"/>		

## Part 2: Participation

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The following lists candidate positions and organizations within the community that were extended invitations but could not participate during the development of the Municipal Appendix. These positions and organizations will continue to be extended invitations to participate during subsequent plan implementation and maintenance activities<sup>5</sup>.

- Elected Officials
- Floodplain Administrator / Manager
- Land Use / Economic Development Planner
- GIS / IT Specialists
- Building Code Official
- Fire and Emergency Medical Services
- Community / Faith-Based Organizations

The following lists positions and organizations that are generally recommended for consideration as members of the Municipal Working Groups by FEMA but do not currently exist within the community. An invitation to participate will be extended if positions are created or filled and as organizations are formed.

- Business Associations
- Environmental Organizations
- Non-Governmental Organizations
- Healthcare Institutions

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<sup>5</sup> See *Section 4: Mitigation Measures* of the NJ4 HMP Regional Hazard Mitigation Plan.

## Part 2: Participation

### Part 2.2: Public Participation

*Part 2.2 includes opportunities provided to the public and interested parties in the municipality to participate during the plan update process.*

Table SC.6-2 identifies the date, type, and location (where applicable) for opportunities provided to the public and interested parties to participate in the development of the plan update.

**Table SC.6-2: Public Participation**

Date	Type of Involvement	Location
August 7, 2014	Link to Project Website ( <a href="http://nj4hmp.com">http://nj4hmp.com</a> ) established	Lower Alloways Creek Township – The Heart of South Jersey <sup>6</sup>
July 7, 2014	Flyers posted	Police Department
July, 2014	Monthly Newsletter	Lower Alloways Creek Township – The Heart of South Jersey <sup>6</sup>
[date]	Information item included on [insert name of elected board and/or appointed groups] agenda identifying opportunities for public participation	[location]
[date]	Public meeting with presentation and open discussion	[location]
[date]	Press release regarding hazard mitigation and plan development issued	[media]
[date]	Citizen Survey posted	[insert website title] <sup>7</sup>
[date]	Letter sent to local business owners	n/a
[date]	Public outreach	[insert name of venue or public event (e.g., county fair)]
December 9, 2014	Preliminary Municipal Appendix posted to website for public comment	[insert website title] <sup>8</sup>
[date]	Public hearing included on Lower Alloways Creek Township Committee agenda providing for open discussion, and public comment regarding the Preliminary Municipal Appendix	[location]
[date to be determined in 2015]	Public meeting for plan adoption	[location to be determined]

Public comments and input received for the Preliminary Municipal Appendix were considered by the Municipal Working Group and incorporated into the Draft Municipal Appendix where appropriate. Public comments received during the review of the Preliminary Municipal Appendix [will be] included in Attachment A to the Municipal Appendix along with a brief explanation of how the comments were addressed in the Draft Municipal Appendix.

Public education and outreach is an on-going mitigation measure included in the Municipal Appendix<sup>9</sup>. In addition, public participation will continue to be encouraged during subsequent plan implementation and maintenance activities<sup>10</sup>.

<sup>6</sup> <http://www.lowerallowayscreek-nj.gov/>

<sup>7</sup> [insert website URL]

<sup>8</sup> [insert website URL]

<sup>9</sup> See Mitigation Measure M-1 in Part 4 of the Municipal Appendix.

<sup>10</sup> See *Section 4: Mitigation Measures* of the NJ4 HMP Regional Hazard Mitigation Plan.

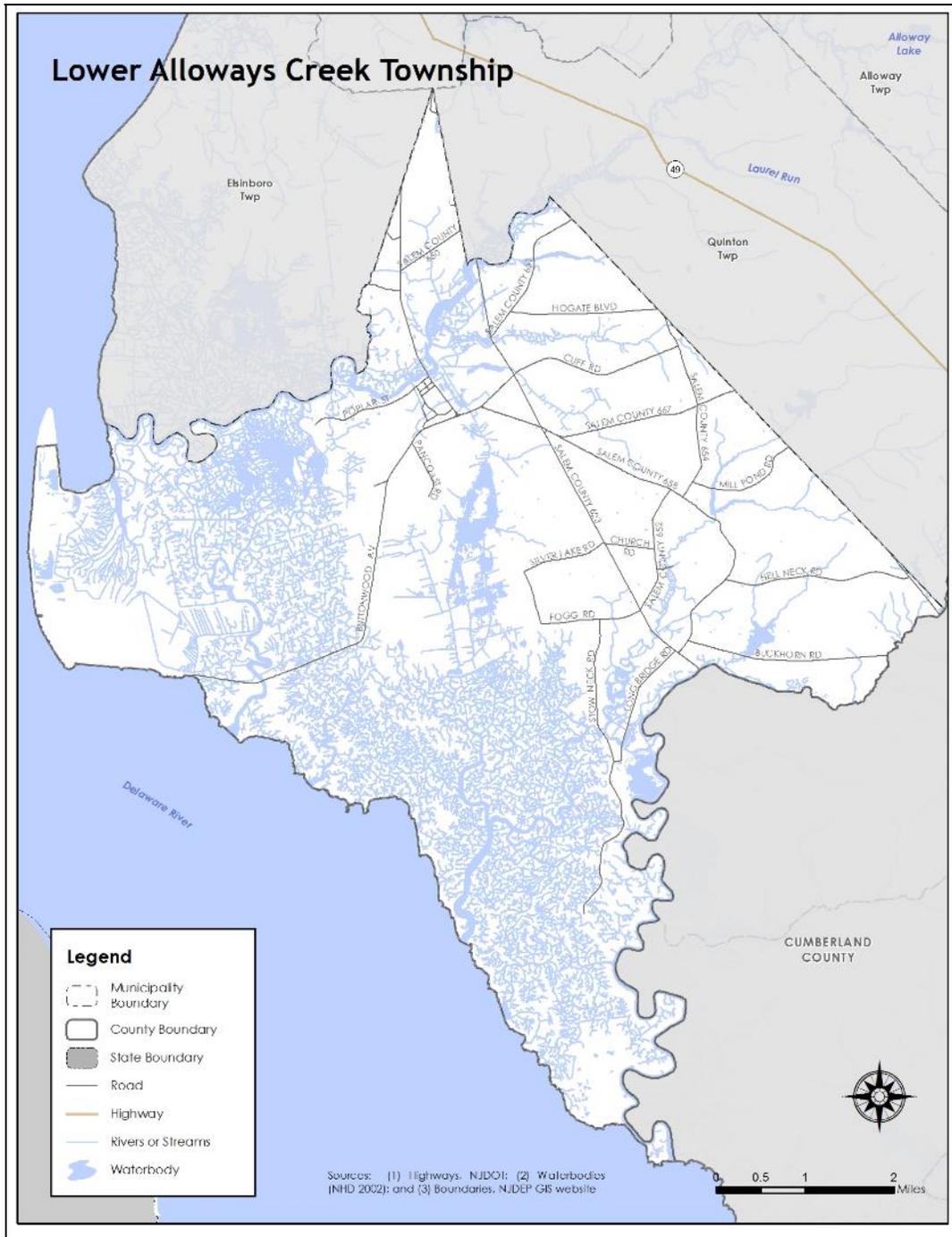


### Part 3: Hazard Identification and Risk Assessment

Lower Alloways Creek Township is a rural residential community where more than a third of the area is water. Unincorporated communities in the municipality include Canton and Hancock's Bridge. PSEG operates three nuclear reactors within the Township.

Per Figure SC.6-2, the major water course includes the Delaware River. Major transportation routes include Salem County Routes 623 and 667. The land is predominantly flat and heavily covered in forests and wetlands.

Figure SC.6-2: Lower Alloways Creek Township Base Map



### Part 3: Hazard Identification and Risk Assessment

In addition, Table SC.6-3 is a compilation of demographic information for the municipality and comparison with the county, the four county region, and State of New Jersey.

**Table SC.6-3: Lower Alloways Creek Township Demographics**  
(Source: Census DP-1, 2010 ACS 5 Year Estimates, DP 3, 4)

	Lower Alloways Creek Township	Salem County	Region	New Jersey
2000 Population <sup>1</sup>	1,851	64,285	974,328	8,414,350
2010 Population <sup>1</sup>	1,770	66,083	1,024,926	8,791,894
Percent Change	-4.38%	2.80%	5.19%	4.49%
Population Density	39.1 / sq. mile	199.1 / sq. mile	754.25 / sq. mile	1,195.5 / sq. mile
Land Area	45.23 sq. miles	331.90 sq. miles	1,358.86 sq. miles	7,354.22 sq. miles
% of Population 18 and younger	21.8	23.5	24.1	23.5
% of Population 18 - 64	60.9	61.5	62.7	63
% of Population 65 and over	17.3	15.0	13.2	13.5

Table SC.6-4 illustrates how Lower Alloways Creek Township ranks in the county, the four county region, and New Jersey.

**Table SC.6-4: Lower Alloways Creek Township Demographic Rankings**

	Salem County (total of 15)	Region (total of 90]	New Jersey (total of 566)
Population Rank	13	78	501
Land Area Rank	1	7	14
Population Density Rank	15	87	558
Population Change Rank	13	79	-

Table SC.6-5 includes information related to economic and housing statistics for Lower Alloways Creek Township, Salem County, the four county region, and New Jersey.

**Table SC.6-5: Lower Alloways Creek Township Economics and Housing**  
(Source: USDA ERS, Census DP-1, 2010 ACS 5 Year Estimates, DP 3, 4; NJ LWD 2010)

	Lower Alloways Creek Township	Salem County	Region	New Jersey
Date Incorporated	February 21, 1798	1694	-	-
Rural / Urban Status	Urban	Urban	Urban	Urban
Median Household Income	\$66,384	\$59,441	\$60,933	\$69,811
Total Number of Housing Units	727	27,417	397,990	3,529,033
Occupied Housing Units	679	25,290	372,472	3,176,069
Vacant Housing Units	48	2,127	25,518	352,964
Owner Occupied Housing Units	551	18,091	266,593	2,126,279

**Part 3: Hazard Identification and Risk Assessment**

	Lower Alloways Creek Township	Salem County	Region	New Jersey
Renter Occupied Housing Units	128	7,199	105,879	1,049,790
Building Permits	0	105	1,554	13,535
Largest Industry	Utilities	Educational Services, and health care and social assistance	Educational services, and health care and social assistance	Educational services, and health care and social assistance

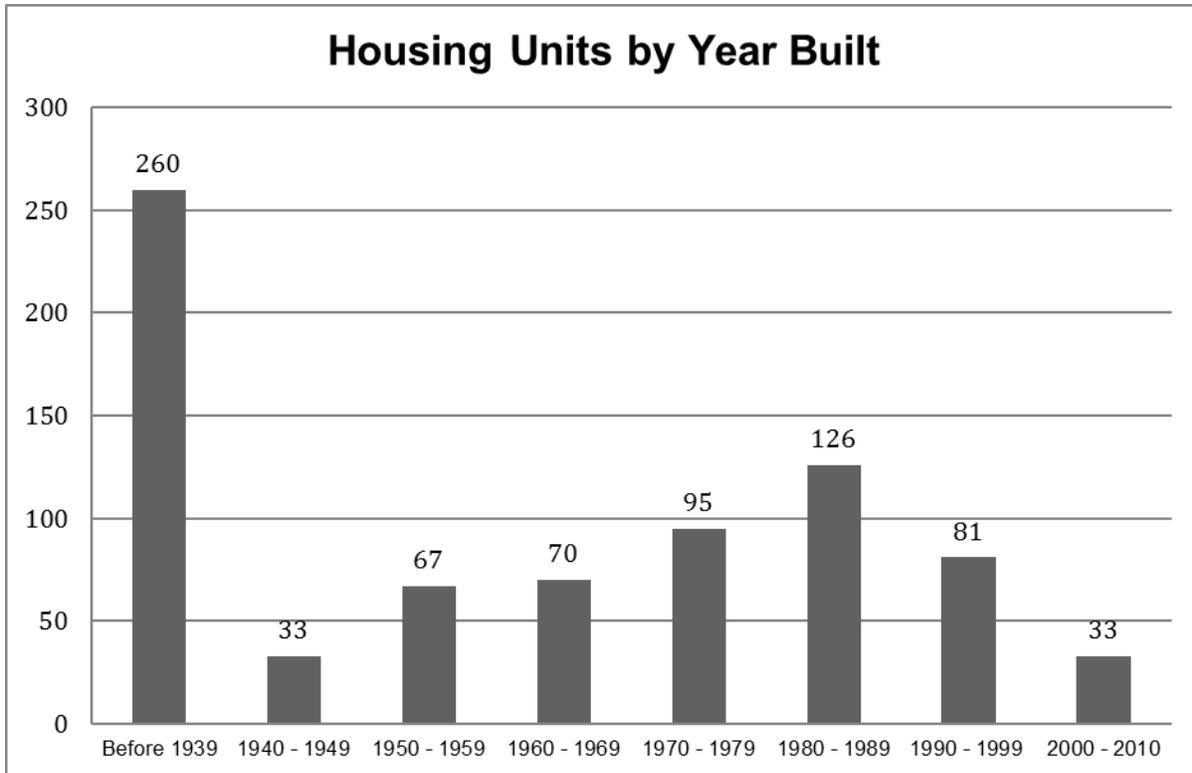
Table SC.6-6 illustrates how Lower Alloways Creek Township ranks in the county and the four county region.

**Table SC.6-6: Lower Alloways Creek Township Ranking (Economics and Housing)**

	Salem County (total of 15)	Region (total of 90)
Median Household Income Rank	5	36
Vacant Housing Rank	13	73
Renter Occupied Housing Rank	12	74
Building Permits Rank	14	89

Figure SC.6-3 illustrates development patterns in Lower Alloways Creek Township by examining housing units by year built.

**Figure SC.6-3: Lower Alloways Creek Township Housing Units by Year Built**  
(Source: 2010 ACS 5 Year Estimates, DP 4)



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## Part 3: Hazard Identification and Risk Assessment

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### Part 3.2: Hazard Priorities

*Part 3.2 includes hazard priority determinations per the Municipal Working Group.*

As a key step in the Hazard Identification and Risk Assessment (HIRA) process, the twelve (12) natural hazards identified in the NJ4 HMP<sup>1</sup> were discussed during the Municipal Working Group Work Sessions and the relative priority of these hazards was identified. The Municipal Working Group rated the hazards as follows:

#### High Priority

- Levee Failure

#### Moderate Priority

- Flood

#### Low Priority

- Coastal Erosion & Sea Level Rise
- Dam Failure
- Drought
- Earthquake
- Extreme Temperature: Cold & Hot
- High Wind
- Severe Weather – Summer
- Severe Weather – Winter Weather
- Wildfire

One additional hazard was identified but was not considered applicable to the municipality:

- Geologic Hazards

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<sup>1</sup> See Section 3: Hazard Identification and Risk Assessment.

## Part 3: Hazard Identification and Risk Assessment

### Part 3.3: Hazard Mapping

Part 3.3 includes cross references to hazard inventory and risk assessment mapping included in the NJ4 HMP Regional Hazard Mitigation Plan.

Table SC.6-7 provides information regarding hazard inventory mapping included in *Section 3: Hazard Identification and Risk Assessment* of the NJ4 HMP Regional Hazard Mitigation Plan that support the Hazard Identification and Risk Assessment (HIRA) for the Municipal Appendix. The indicated maps correspond to high and moderate priority hazards as determined by the Municipal Working Group.

**Table SC.6-7: Supporting Mapping and Exhibits**

Figure #	Hazard	Map	HIRA Contribution
Figure RP.3-X	Coastal Erosion and Sea Level Rise	Increased Inundation Areas (Coastal Scenarios) Coastal Water Level Increases of 1, 2, and 3 Feet	Identify areas where increased inundation due to sea level rise may occur
Figure RP.3-X	Dam Failure	Dam Locations and Hazard Classification	Identify areas in proximity to rated dams
Figure RP.3-X	Flood	FEMA Flood Hazard Zones Preliminary FIRM (PFIRM)	Identify areas subject to periodic flooding (work-in-progress for revisions to effective FIRM)
Figure RP.3-X	Flood (Storm Surge)	Coastal Flood Loss Atlas – SLOSH Model Maximum of Maximum	Identify areas where increased inundation due to sea level rise may occur
Figure RP.3-X	Flood	HAZUS – Average Annual Losses for Coastal Region (Average Losses by Census Block)	Indicate relative monetized losses due to flooding
Figure RP.3-X	Levee Failure	Levee Locations	Identify locations of levees in and around the municipality
Figure RP.3-X	Levee Failure	Levee Inventory	Provide information about levee configuration
Figure RP.3-X	Wildfire	Wildland Fuel Hazard Risk	Identify areas subject to wildfire
Figure RP.3-X	Wildfire	Wildland Urban Interface (WUI)	Identify areas subject to wildfire

The following hazards are not referenced as these hazards occur uniformly across the municipality and have the same potential impact on all properties and assets:

- Drought
- Extreme Temperatures – Cold and Hot
- High Wind
- Severe Weather – Summer
- Severe Weather – Winter

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## Part 3: Hazard Identification and Risk Assessment

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### Part 3.4: Critical Facilities Inventory and Hazard Exposure Assessment

*Part 3.4 includes:*

- *Inventory information for municipal critical facilities*
- *Hazard exposure analysis results for municipal critical facilities*

Consistent with the process described in Section 3 of the NJ4 HMP Regional Hazard Mitigation Plan, Table SC.6-8 contains updated inventory information for municipal critical facilities including cross-references to related mitigation measures identified in Part 4 of the Municipal Appendix.

Table SC.6-9 contains results of overlaying critical facility locations with identified hazard inventory information for use in critical site and facility assessments per Mitigation Measure M-2 (see Part 4 of the Municipal Appendix).

Hazards that apply to all critical facilities in the NJ4 region and will automatically be included in the proposed critical site and facility assessment process include:

- Earthquake
- High Winds
- Severe Weather – Summer
- Severe Weather – Winter

Hazards that do not relate to the proposed critical site and facility assessment process include:

- Drought
- Extreme Temperatures – Cold and Hot

As a result, these six (6) hazards are not included in the critical facility exposure assessment in Section 3 of the NJ4 HMP Regional Hazard Mitigation Plan.

**Part 3: Hazard Identification and Risk Assessment**

**Table SC.6-8: Lower Alloways Creek Township (Salem County) Critical Facilities Inventory**

CF #	Name	Type	Sub-Type	Address	Co-located CF #	Shelter (Y/N)	Generator (Y/N)	Comments	Mitigation Measure #
CF-1	Township Hall	Municipal	Administrative Offices	501 Locust Island Road, Hancocks Bridge		N	Y		
CF-2	Emergency Operations Center	EOC	Co-located Facilities	501 Locust Island Road, Hancocks Bridge	CF-1	N	Y		
CF-3	Police Station	Law Enforcement Facilities	Stations	501 Locust Island Road, Hancocks Bridge	CF-1	N	Y		
CF-4	Fire Station	FireStation	Stations	773 Smick Road, Salem		N	N		M-5
CF-5	Lower Alloways Creek Fire & Rescue	FireStation	Stations	15 New Street, Hancocks Bridge		N	N		M-6
CF-6	EMS	EMS	Municipal Stations	8 Pecks Corner Road, Salem		N	N		M-7
CF-7	Public Works	Public Works	Combined Administrative Office, Maintenance / Work Area, Equipment / Material Storage, and Fueling Station	8 Pecks Corner Road, Salem	CF-6	N	Y		
CF-8	Lower Alloways Creek Elementary School	Schools	Public Schools	967 Main Street, Salem		Y	Y		M-9
CF-9	PSEG Nuclear - Hope Creek Generating Station	Other Municipal	Nuclear Power Plant	1 Alloways Creek Neck Road, Hancocks Bridge		N	Y		

**Part 3: Hazard Identification and Risk Assessment**

**Table SC.6-9: Lower Alloways Creek Township (Salem County) Critical Facilities Hazard Exposure<sup>2</sup>**

CF #	Name	Increased Inundation +1 Foot	Increased Inundation +2 Foot	Increased Inundation +3 Foot	Dam Failure	Flood – FIRM Zone V	Flood – FIRM Zone A	Flood – FIRM Zone 0.02%	Storm Surge – Category 1	Storm Surge – Category 2	Storm Surge – Category 3	Storm Surge – Category 4	Levee Failure	Wildfire Wildland High Density Urban Interface	Wildfire Extreme / High Fuel Level Risk
CF-1	Township Hall														
CF-2	Emergency Operations Center														
CF-3	Police Station														
CF-4	Fire Station														
CF-5	Lower Alloways Creek Fire & Rescue														
CF-6	EMS														
CF-7	Public Works														
CF-8	Lower Alloways Creek Elementary School														
CF-9	PSEG Nuclear - Hope Creek Generating Station														

<sup>2</sup> **Note to Municipal Working Group:** SW LLC will include results for the Critical Facility Exposure Analysis for all hazards in the Draft Municipal Appendix submittal to NJOEM and FEMA. These results will not alter the existing mitigation measures in Part 4 of this Municipal Appendix but will be the basis for the site and facility assessments to be undertaken by the municipality under Mitigation Measure M-2.

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## Part 4: Mitigation Measures

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### Part 4.1: Mitigation Goals and Strategy

Part 4.1 includes:

- *Goal statements reviewed and approved by the Municipal Working Group based on goals included in the Southern Delaware Valley Region (New Jersey) Multi-Jurisdictional Hazard Mitigation Plans (SDVR HMPs) approved by FEMA in 2010 and 2011 for Camden, Cumberland, Gloucester, and Salem Counties*
- *Overarching strategy for the municipality's mitigation program*

Goals were originally established by the Southern Delaware Valley Region Hazard Mitigation Steering Committee and validated by the four County Hazard Mitigation Working Groups in response to risk and capability assessment results.

As part of the plan update process, these goals were reviewed and edited by the Municipal Working Group for use in the Municipal Appendix. All mitigation measures in the Municipal Appendix are related to at least one of these four goal statements.

- **Goal 1: Improve education and outreach efforts** regarding potential risk of natural hazards and appropriate mitigation measures that can be used to reduce risk (including programs, activities, and projects)
- **Goal 2: Improve data collection, use, and sharing** to reduce the risk of natural hazards
- **Goal 3: Improve capabilities and coordination** at municipal and county levels to plan and implement hazard mitigation measures
- **Goal 4: Plan and implement projects** to mitigate identified natural hazards, known problems, and areas of concern

Based on these goals, the results of the NJ4 HMP Regional Hazard Mitigation Plan HIRA, and experience of participants in the plan update process, the Municipal Working Group identified an overarching strategy for mitigation:

- Focus on projects to address known problems or areas of concern for critical facilities and vulnerable populations as additional initial risk reduction efforts
- Provide opportunities for residents and property owners to access available information about risk reduction and mitigation measures
- Identify additional areas of concern for critical facilities and vulnerable populations for future plan updates
- Institutionalize hazard mitigation into municipal activities and programs through regular interactions of the Municipal Working Group and better integration of related regulatory programs and planning initiatives
- Stay informed regarding changing conditions and related improvements in hazard and risk data due to future natural hazard events and increasing understanding of the effects of climate change and use the information as part of periodic evaluations of and refinements or additions to the municipality's mitigation program

The mitigation measures described in Parts 4.3 through 4.5 of the Municipal Appendix reflect this strategy.

## Part 4: Mitigation Measures

### Part 4.2: SDVR HMP Mitigation Measures

Part 4.2 includes the status of mitigation measures identified for the municipality in the SDVR HMP.

Known problems and areas of concern were the basis for mitigation measures identified in the SDVR HMP. In cases where these problems and concerns still existed at the time of the plan update, the related SDVR HMP mitigation measures were candidates for inclusion in the Municipal Appendix.

Table SC.6-10 identifies the status of mitigation measures included in the SDVR HMP. These entries were based on information provided by the Municipal Working Group. In some cases, the SDVR HMP mitigation measures were carried over as part of the Municipal Appendix as indicated in the “Comments” column and the far right-hand column of Table SC.6-10.

**Table SC.6-10: Status of Lower Alloways Creek Township (Salem County) SDVR HMP Mitigation Measures**

Mitigation Action, Program, or Project	Status	Comments	Mitigation Measure # (Notes A & B)
<b>Lower Alloways 1:</b> Extend Steel Bulkheads .4 miles starting from Front Street.	Completed	Issue was resolved by building a bridge to the boat ramp. Project was funded through TBD. Therefore, mitigation measure not included in updated Municipal Appendix.	N/A
<b>Lower Alloways 2:</b> Elevate road at Salem Bridge Road and Front Street and also at New Bridge and Beasley Neck Road.	Not completed, not funded	Revised multi-jurisdictional mitigation measure included in updated Municipal Appendix.	MJ-2
<b>Lower Alloways 3:</b> Identify and map erosion hazard zones.	Not completed, not funded	Revised mitigation measure included in updated Municipal Appendix.	M-8
<b>Lower Alloways 4:</b> Use United States Army Corps of Engineers (USACE) surge maps for community education and outreach.	Not completed, not funded	Revised mitigation measure included in updated Municipal Appendix.	M-1
<b>Lower Alloways 5:</b> Working with NJDEP, develop a public outreach program to educate communities and residents that are subject to inundation as a result of rapid rise/storm surge.	Not completed, not funded	Revised mitigation measure included in updated Municipal Appendix.	M-1
<b>Lower Alloways 6:</b> Conduct all-hazards public education and outreach program for hazard mitigation and preparedness.	Not completed, not funded	Revised mitigation measure included in updated Municipal Appendix.	M-1

**Table SC.6-10 Notes:**

- A. See Tables SC.6-11 and SC.6-12 for municipal (M-#) mitigation measures
- B. See Table SC.6-13 for multi-jurisdictional (MJ-#) mitigation measures

## Part 4: Mitigation Measures

### Part 4.3: Municipal Mitigation Measures – Identification

Part 4.3 includes brief descriptions of mitigation measures that are considered the sole responsibility of the municipality.

Table SC.6-11 includes the list of mitigation measures that are considered the responsibility of the municipality. These mitigation measures:

- Reflect the goals and strategy identified in Part 4.1
- Include projects carried over from SDVR HMPs as detailed in Part 4.2
- Include new projects, programs or activities identified by the Municipal Working Groups including measures to address known problems or areas of concern for critical facilities and vulnerable populations
- Address Repetitive Flood Loss (RL) and Severe Repetitive Flood Loss Properties (SRL)<sup>1</sup> if applicable

*Note: Lower Alloways Creek Township does not currently have RL or SRL properties per information provided by the New Jersey Department of Environmental Protection.*

Table SC.6-11 includes:

- Brief description of the mitigation action, program or project
- Hazard(s) addressed by the measure
- Relevant goal(s) addressed by the measure
- Whether the measure pertains to existing or new structures or both

**Table SC.6-11: Lower Alloways Creek Township (Salem County) Municipal Mitigation Measures Identification**

#	Mitigation Action, Program, or Project	Hazard(s)	Goal (s)	Existing or New Structures
M-1	Identify and pursue outreach and education opportunities to inform municipal residents, businesses, and property owners regarding: <ul style="list-style-type: none"> <li>• Current hazards and risks to include erosion hazard zones and rapid rise / storm surge</li> <li>• Changing conditions and actions that may reduce / increase risk</li> <li>• Best practices for hazard mitigation at the individual or property level.<sup>2</sup></li> </ul>	All	Goal #1	Both
M-2	Prioritize critical facilities and complete site and facility surveys to identify vulnerabilities and potential mitigation measures.	All	Goal #2	Existing
M-3	Prioritize recurrent drainage problem areas and initiate data collection to track unreimbursed damages and related response and recovery expenses.	Flood	Goal #2	Existing
M-4	Conduct regular Municipal Working Group meetings consistent with the plan maintenance program and the Municipal Adoption Resolution.	All	Goal #3	Both

<sup>1</sup> See Section 3: Hazard Identification and Risk Assessment and related portions of Annex D of the NJ4 HMP Regional Hazard Mitigation Plan for a description of RL and SRL properties.

<sup>2</sup> For example, individual property owners can be informed about back-up power alternatives such as initial battery back-up for power disruptions.

## Part 4: Mitigation Measures

#	Mitigation Action, Program, or Project	Hazard(s)	Goal (s)	Existing or New Structures
M-5	Install permanent backup power generator at Fire Department on 773 Smick Road (CF-4).	All	Goal #4	Existing
M-6	Install permanent backup power generator at Lower Alloways Creek Fire & Rescue Fire Department (CF-5).	All	Goal #4	Existing
M-7	Install permanent backup power generator hookup at EMS facility (CF-6).	All	Goal #4	Existing
M-8	Conduct risk assessment to identify and map erosion hazard zones to include Lower Alloways Creek Neck Road.	Coastal Erosion and Sea Level Rise	Goal #4	Both
M-9	Retrofit / harden Lower Alloways Creek Elementary School, to include the roof (CF-8).	High Wind	Goal #4	Existing
M-10	Conduct risk assessment of levee associated failures in Lower Alloways Creek Township.	Levee Failure	Goal #4	Both4
M-11	Conduct risk assessment of levee at Locust Island to better understand the potential flood hazard and required levee upgrades.	Levee Failure	Goal #4	Existing
M-12	Conduct risk assessment of levee at Silver Lake to better understand the potential flood hazard and required levee upgrades.	Levee Failure	Goal #4	Existing

## Part 4: Mitigation Measures

### Part 4.4: Municipal Mitigation Measures – Implementation

Part 4.4 includes a tabulation of relevant aspects related to the implementation of the municipal mitigation measures.

Table SC.6-12 includes information identified by the Municipal Working Group:

- Part(ies) responsible for following up with implementation of the measure
- Priority for implementation considering a range of criteria<sup>3</sup>
- Project Type to help determine funding options and implementation mechanisms at the municipal level<sup>4</sup>
- Estimated Cost, including estimates provided by the Municipal Working Group or approximate ranges for projects that are in early stages of development
- Target Date, indicating desired completion dates assuming availability of funding
- Next step(s) anticipated to implement the identified mitigation measures at the municipal level

**Table SC.6-12: Lower Alloways Creek Township (Salem County) Municipal Mitigation Measures Implementation**

#	Mitigation Action, Program, or Project	Responsible Part(ies)	Priority	Project Type	Estimated Cost (\$)	Target Date	Next Step(s)
M-1	Identify and pursue outreach and education opportunities.	Municipal OEM	Low	Public Outreach and Education	Staff time commitment	On-going	<ul style="list-style-type: none"> <li>▪ Work with County Working Group to identify resource needs and availability.<sup>5</sup></li> <li>▪ Identify target audience(s).</li> </ul>
M-2	Prioritize critical facilities and complete site and facility surveys to identify vulnerabilities and potential mitigation measures.	Municipal OEM and Facility Managers		Data Acquisition and Management	Staff time commitment	On-going	Review critical facility list and establish priorities, procedures, and tentative time schedule for conducting site and facility surveys. <sup>5</sup>
M-3	Prioritize recurrent drainage problem areas and initiate data collection to track unreimbursed damages and related response and recovery expenses.	Municipal OEM and Municipal Working Group		Capabilities and Coordination	Staff time commitment	On-going	Identify recurrent drainage problem areas, establish priorities, and identify data collection procedures. <sup>5</sup>
M-4	Conduct regular Municipal Working Group meetings.	Municipal OEM and Municipal Working Group		Capabilities and Coordination	Staff time commitment	On-going	Establish regular Municipal Working Group membership, reporting requirements, and meeting / work session schedule. <sup>5</sup>

<sup>3</sup> See *Section 4: Mitigation Measures* and related portions of Annex E of the NJ4 HMP Regional Hazard Mitigation Plan for a description of evaluation criteria considered by the Municipal Working Group.

<sup>4</sup> See *Section 4: Mitigation Measures* and related portions of Annex F of the NJ4 HMP Regional Hazard Mitigation Plan for a description of project types and related information regarding funding options and implementation mechanisms.

<sup>5</sup> **Note to Municipal Working Group:** Workshops conducted by SW LLC as part of the NJ4 HMP planning process will include information relevant to these project types.

## Part 4: Mitigation Measures

#	Mitigation Action, Program, or Project	Responsible Part(ies)	Priority	Project Type	Estimated Cost (\$)	Target Date	Next Step(s)
M-5	Install permanent backup power generator at Fire Department on 773 Smick Road (CF-4).	Municipal OEM and Fire Department	Low	Back-up Emergency Power Generator	< \$100K	Three to five years	Conduct project scoping. <sup>5</sup>
M-6	Install permanent backup power generator at Lower Alloways Creek Fire & Rescue Fire Department (CF-5).	Municipal OEM and Fire Department	Low	Back-up Emergency Power Generator	< \$100K	Three to five years	Conduct project scoping. <sup>5</sup>
M-7	Install permanent backup power generator hookup at EMS facility (CF-6).	Municipal OEM and EMS	Low	Back-up Emergency Power Generator	< \$100K	Three to five years	Conduct project scoping. <sup>5</sup>
M-8	Conduct risk assessment to identify and map erosion hazard zones to include Lower Alloways Creek Neck Road.	Municipal OEM		Private Property Mitigation	< \$50K	Three to five years	Develop scope of work for engineering study and procure professional consulting services.
M-9	Retrofit / harden Lower Alloways Creek Elementary School, to include the roof (CF-8).	Municipal OEM and School Board		Public Property Mitigation	\$100K - \$500K	Three to five years	Conduct project scoping. <sup>5</sup>
M-10	Conduct risk assessment of levee associated failures in Lower Alloways Creek Township.	Municipal OEM and Public Works Department	Moderate	Private Property Mitigation	< \$50K	Three to five years	Develop scope of work for engineering study and procure professional consulting services.
M-11	Conduct risk assessment of levee at Locust Island to better understand the potential flood hazard and required levee upgrades.	Municipal OEM and Public Works Department	Low	Private Property Mitigation	< \$50K	Three to five years	Develop scope of work for engineering study and procure professional consulting services.
M-12	Conduct risk assessment of levee at Silver Lake to better understand the potential flood hazard and required levee upgrades.	Municipal OEM and Public Works Department	Low	Private Property Mitigation	< \$50K	Three to five years	Develop scope of work for engineering study and procure professional consulting services.

## Part 4: Mitigation Measures

### Part 4.5: Multi-Jurisdictional Mitigation Measures

Part 4.5 includes brief descriptions of mitigation measures that require multiple jurisdictions to implement.

During the Municipal Working Group Work Sessions, the Municipal Working Group identified some SDVR HMP mitigation measures as well as new areas of concern as mitigation measures where implementation requires participation or leadership from other levels of government, including county, state, and federal agencies. These multi-jurisdictional mitigation measures are included in Table SC.6-13.

Section 4: *Mitigation Measures* of the NJ4 HMP Regional Hazard Mitigation Plan describes multi-jurisdictional implementation strategies in detail. Section 4 identifies multi-jurisdictional mitigation measures that Municipal Working Groups believe are partly or wholly the responsibility of County agencies have been referred to the County Working Group for consideration. As part of the mitigation measures in the County Appendix to the NJ4 HMP Regional Hazard Mitigation Plan, the County Working Group will be working with the municipalities to identify:

- Specific responsibilities amongst different level(s) of government to address these problem areas
- Mitigation measures or related projects which may address the described problem areas that are already acknowledged as County responsibilities including identifying the appropriate County agency or department taking the lead role and status of implementing these mitigation measures
- Which, if any, additional mitigation measures the member agencies of the County Working Group will assume responsibility to implement

**Table SC.6-13: Lower Alloways Creek Township (Salem County) Multi-Jurisdictional Mitigation Measures**

#	Problem Description	Hazard(s) Addressed	Goal Addressed	Applies to Existing or New Structures	Responsible Party	Priority
MJ-1	Alleviate flooding at Salem Hancock Bridge Road and Front Street.	Flood (Storm Surge & Tidal)	Goal #4	Both	Municipal OEM, Salem County DPW	High
MJ-2	Alleviate flooding at New Bridge and Beasley Neck Road.	Flood (Storm Surge & Tidal)	Goal #4	Both	Municipal OEM, Salem County DPW	High
MJ-3	Alleviate flooding at New Bridge, main evacuation route for Lower Alloways Creek Township.	Flood (Storm Surge & Tidal)	Goal #4	Both	Municipal OEM, Salem County DPW	High

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## Part 4: Mitigation Measures

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### Part 4.6: Capabilities and Coordination

Part 4.6 includes:

- Cross references to relevant information and recommendations in the NJ4 HMP Regional Hazard Mitigation Plan regarding improving capabilities and coordination at the municipal level
- Plans and programs included in the development of Plan Integration recommendations in the NJ4 HMP Regional Hazard Mitigation Plan

The update of the SDVR HMP included reexamining municipal hazard mitigation capabilities; potential for improving capabilities and coordination within and between jurisdictions; and, plan integration considerations. *Section 4: Mitigation Measures* and related portions of Annex F of the NJ4 HMP Regional Hazard Mitigation Plan include summary observations and recommendations<sup>6</sup> concerning:

- Hazard mitigation planning and mitigation measure implementation capabilities at the regional, county, and municipal levels
- Coordination within municipal governments, between municipal governments and their communities, and between municipal, county, and state agencies responsible for hazard mitigation
- Integration of hazard mitigation data, goals, measures, and/or recommendations with existing plans and programs at the municipal level

Specific documents obtained during the plan update process from the Municipal Working Group that were incorporated into these observations and recommendations regarding plan integration include:

- Land Development Ordinance (2012)<sup>7</sup>
- Stormwater NJDEP Report (2014)<sup>8</sup>
- Capital Improvement Budget (2014)<sup>9</sup>
- Master Plan (1992) and Reexamination Report (2012)
- Stormwater Management Plan
- Emergency Operations Plan – Base Plan

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<sup>6</sup> **Note to Municipal Working Group:** Workshops conducted by SW LLC as part of the NJ4 HMP planning process will include sessions on improving capabilities and coordination at the municipal level.

<sup>7</sup> [http://www.lowerallowayscreek-nj.gov/downloads/LAC\\_CODE\\_ver09162014.pdf](http://www.lowerallowayscreek-nj.gov/downloads/LAC_CODE_ver09162014.pdf)

<sup>8</sup> <http://www.lowerallowayscreek-nj.gov/downloads/StormWater2014.pdf>

<sup>9</sup> [http://www.lowerallowayscreek-nj.gov/downloads/LAC\\_2014\\_Budget3182014.pdf](http://www.lowerallowayscreek-nj.gov/downloads/LAC_2014_Budget3182014.pdf)