

Borough of Mantoloking
Hazard Mitigation Planning Committee
Meeting Minutes – April 20, 2004

A meeting of the Hazard Mitigation Planning Committee was held on Tuesday, April 20, 2004 at 10:00 am at the Borough Hall. In attendance were the following:

William Dunbar, Mayor
John Jones, Chairman, Councilman
John Wardell, Construction Official
Bob Mainberger, Borough Dune Inspector
Christopher Constantino, Stockton College
Craig Symons, citizen
Nancy Klumb, Deputy Municipal Clerk

The committee reviewed the results of the questionnaire. It was disappointing that only 35 people responded online and on paper. There was discussion over having a session during the summer to advise residents on how to plan for a disaster. Nancy was asked to obtain e-mail addresses for residents.

Mayor Dunbar reported that the Emergency Management Team had a meeting yesterday. They will be having a disaster drill this summer. The new fire sirens will be equipped with a PA system.

The minutes of the previous meeting were reviewed and approved.

There was discussion over duplicating efforts. Bob explained that the Hazard Mitigation Plan would double as CRS Flood Mitigation Plan only if we did the most stringent of plans. The State Office of Emergency Management has furnished their Flood Mitigation Plan and is waiting for comment from FEMA. The County has completed their Emergency Operating Procedure and will send it to the Borough when they are distributed. Bob stated that flood hazard is the single most prevalent hazard in the borough. John Jones led a discussion on whether to continue with only the Flood Mitigation Plan and put the Hazard Mitigation Plan on hold. Would the Borough want to only do the FMP? Bob will continue to sort this out with Rich Laird to prevent duplication of work. (see attachment G)

The status of hazard identification, profiling, asset inventory and loss estimate were discussed. Bob Mainberger reported that a summary of flood damage was done in December of 1992 after the big storm. Chris stated that we need a base map with zones and firms that will cost money to produce. The money provided by the State that is being absorbed in the work being done by Sue Halsey and Stevens Institute. The Mayor and Rich are supplying information to Sue Halsey. Rich is working on the Mitigation 20/20 plan.

The possibility of a Tsunami in this area was discussed. (See attachment H)

The next committee will be on June 15th @ 9:00 am.

John Jones would like to be able to do an All Hazards Plan along with the Flood Mitigation Plan. A draft skeleton of the flood mitigation plan would have to be done first. Craig Symons volunteered to do this.

John Jones reviewed the tasks to be performed by the next meeting.

In summary;

1. Nancy will get e-mail addresses for residents.
2. The Mitigation 20/20 questionnaire will be completed by Rich Laird.
3. John Jones will post the Marlowe newsletter on the Mantoloking web site.
4. John Jones will present the results of the questionnaire at the next public meeting.
5. Craig and Rich will draft a flood plan and forward it to the committee.
6. Craig will cross-reference the checklist to the plan as completed.
7. Chris Constantino will work with Jim Anderson, Tax Assessor, on the asset inventory and loss estimate task.

The meeting was adjourned at 11:04 am.

Borough of Mantoloking
Hazard Mitigation Planning Committee
Meeting Minutes – June 15, 2004

A meeting of the Hazard Mitigation Planning Committee was held on Tuesday, June 15, 2004 at 9:00 am at the Borough Hall. In attendance were the following:

William Dunbar, Mayor
John Jones, Chairman, Councilman
John Wardell, Construction Official
Bob Mainberger, Borough Dune Inspector
Thomas Guldin, Borough Engineer
Christopher Constantino, Stockton College
Rich Laird, Emergency Management Coordinator
Nancy Klumb, Deputy Municipal Clerk

The committee reviewed the minutes from the previous meeting of April 20, 2004. The minutes were approved as submitted.

Rich Laird reported that he has spoken with State and FEMA representatives who say we are duplicating our efforts. The Hazard Mitigation Plan incorporates the Flood Mitigation Plan. The Hazard Mitigation Plan has been submitted to Stevens Institute who will develop a draft for us to review. Rich suggested postponing doing further work on the Flood Mitigation Plan until we receive and review the Hazard Mitigation Plan. This should be ready in September.

The first handout John Jones passed out was Credit Documentation (attachment I). During discussion it was stated that our five-year CRS is due next year, although we do update every year. We are currently at level 7 trying to achieve level 6.

Rich Laird stated the County OEM has offered use of their helicopter and photographer to do aerial photos of our beach before an incident occurs and afterward, if necessary.

It was also suggested that we put information on the website to let residents know what we are doing in regards to hazard mitigation. Have the information available for them to review. Rich Laird was asked to write something up to submit to Irene for the website.

The Community Rating System handout (attachment J) was discussed.

The Hazard Mitigation Planning Process form (attachment K) was reviewed.

The status of the Draft Flood Mitigation Plan was put on hold.

Tom Guldin passed out a form demonstrating the credit points awarded for CRS activities. (attachment L) This was reviewed and discussed step by step. Tom will put together a handout for review by all.

The following tasks are to be performed by the next meeting.

In summary;

1. Nancy will get e-mail addresses for residents.
2. The Mitigation 20/20 questionnaire will be completed by Rich Laird.
3. John Jones will post the Marlowe newsletter on the Mantoloking web site.
4. John Jones will present the results of the questionnaire at the next public meeting.
5. Craig and Rich will draft a flood plan and forward it to the committee.
6. Craig will cross-reference the checklist to the plan as completed.
7. Chris Constantino will work with Jim Anderson, Tax Assessor, on the asset inventory and loss estimate task.
8. Tom Guldin will provide preliminary information related to certain activities within the CRS program under which additional points can be achieved.

The next committee will be on September 14th @ 9:00 am.

The meeting was adjourned at 11:40 am.

Borough of Mantoloking
Hazard Mitigation Planning Committee Meeting
Minutes – April 19, 2005

A meeting of the Hazard Mitigation Planning Committee was held on Tuesday, April 19, 2005 at 9:30 am at the Borough Hall. In attendance were the following:

William Dunbar, Mayor
John Jones, Chairman, Councilman
John Wardell, Construction Official
Bob Mainberger, Borough Dune Inspector
Thomas Guldin, Borough Engineer
Mark Mihalsky, Stockton State College
Craig Symons, resident
Peter Flihan, resident
Jake Schmierer, resident
Nancy Klumb, Deputy Municipal Clerk

John Jones reviewed the results of the flood strategy committee meeting held February 22, 2005 with Tom Guldin and Bob Mainberger. Bob had volunteered to develop the Mantoloking Flood Mitigation Plan which will be reviewed in this meeting. Tom had stated that other steps could be taken in the CRS program to obtain the next level and these will be reviewed, also. The Hazard Mitigation Plan will include the Flood Mitigation Plan.

The committee reviewed the minutes from the previous meeting of January 18, 2005. The minutes were approved as submitted.

Bob Mainberger reviewed the status of the Hazard Mitigation Plan which has been submitted to the State. FEMA and the State have resolved their issues. The State Plan should be adopted by May 1st. The Ocean County Plan has not been completed since one municipality is still outstanding, but it should be adopted later in May. Mantoloking's plan will be enveloped into the county plan. They need to have a public meeting but no one is sure how this will be handled.

Bob handed out his version of the Flood Mitigation Plan for Mantoloking (attachment P). This document is about 75% completed and needs attachments and miscellaneous information added to it. This was reviewed and discussed step by step.

- Step 1 **Introduction**
- Step 2 **Natural Hazards**
- Step 3 **Flood Mitigation Program Evolution** – Tom will complete this.
- Step 4 **Strategic Planning** – summary of past committee meetings and public involvement. Nancy has compiled this information and will distribute to the members.

We need another meeting of the committee prior to the public information session to compile the additional information to complete this report. A draft will be developed and made available to the public for review. The meeting

should be in the summer when more people are here...perhaps July or August.

Step 5 **Projects and Implementation** – discussion followed of current programs and projects that have been authorized and implemented in Mantoloking. Mark Mihalasky passed out the Annual Report for 2004 from Richard Stockton College. Report shows vulnerable areas in town and what can be done to prevent future damage to the beach and dunes.

Further discussion followed for future programs planned and present projects to be implemented by the Borough. These included;

- ways to prevent back bay flooding – Tom is checking into this.
- a bulkhead ordinance raising the height required
- elevate roads to resist flooding
- new public alerting system (i.e. siren, emergency broadcast system, public address system)
- acquire flood response vehicle –mayor will talk with Fire Co. regarding a used military vehicle.
- increase identification of evacuation routes – County designates these routes
- adding structural piling requirements – Planning Board was against this – there was discrepancy over cost issues
- flood-proof critical emergency service buildings – could be costly
- need an assessment of this
- prepare shoreline for resistance to a minimum 25 yr. storm – this would be in the report from Stockton College
- review current storm drainage system – Tom is working on that now
- enforcement of Bulkhead Ordinance –Bob will get a copy of a bulkhead ordinance (Avalon). Discussion of construction & how other towns deal with this
- develop a Repetitive Loss Reduction Plan – Bob will do this

Step 6 **Building Code** – need an ordinance requiring 2 ft height above BFE for construction

Step 7 **Atlantic Ocean – Dune Ordinance** – Bob will begin inserting backup data

Step 8 **Flood Hazard Data** – Tom & John will go over this

Step 9 **Flood Plain Management – Strategies** – nationwide strategies

Tsunami possibility was discussed

Step 10 **Property Owner Protection Assistance** – website contains information as well as handouts that are available in the Borough Hall

Step 11 **Flood Warning and Evacuation Routes** – evacuation routes need to be refined, especially after the Mantoloking Bridge is completed

Step 12 **Flood Preparedness Plan** – need Rich to look at this with input from the Mayor

Step 13 **Critical Facilities** – need to add JCP & L substation, state home, and firehouse – should have 7 altogether

Step 14 **Summary and Long Range Plans** –

Step 15 **Program Benefits**- should be researched back to 1962

Step 16 **Flood Mitigation Plan – Review meetings and Adoption Proceedings** –

Step 17 **Plan Review Meetings and Plan Adoption Meeting Documentation**

Step 18 **Outside Agency Review Submission Documentation (in appendix)**

- Step 19 **Overall Flood Plain Management Goals**
- Step 20 **Plan Implementation and Funding –**
- Step 21 **Plan Annual Review and Modification Process –** time frame should be June, July or August

Tom discussed what still needs to be done to increase points for the CRS program. These included but were not limited to;

- need an ordinance to prevent any further construction of critical facilities.
- receive points for maintaining benchmarks

All information should be into Bob by May 13th.

Next committee meeting will be June 14, 2005 at 9:30 am.

Next public meeting will be July 19, 2005 at 7:00 pm.

Meeting adjourned at 11:13 am.

All information is to be submitted to Bob by May 13, 2005 so he can complete the Flood Mitigation Plan and have the draft available for the public prior to the next public meeting. The public meeting is scheduled for Tuesday, July 19th at 7:00 pm.

The next meeting of the full committee will be on Tuesday June 14, 2005 @ 9:30 am.

The meeting was adjourned at 10:34 am.

Borough of Mantoloking
Hazard Mitigation Planning Committee Meeting
Minutes – June 14, 2005

A meeting of the Hazard Mitigation Planning Committee was held on Tuesday, June 14, 2005 at 9:30 am at the Borough Hall. In attendance were the following:

William Dunbar, Mayor
John Jones, Chairman, Councilman
John Wardell, Construction Official
Bob Mainberger, Borough Dune Inspector
Francis Bruton, Hatch, Mott & McDonald
Thomas Guldin, Borough Engineer
Mark Mihalasky, Stockton State College
Craig Symons, resident
Peter Flihan, resident
Officer Mark Wright
Nancy Klumb, Deputy Municipal Clerk

The committee reviewed the minutes from the previous meeting of April 19, 2005. The minutes were approved as submitted.

Bob Mainberger had compiled all the feedback received from the committee and developed the Mantoloking Flood Mitigation Plan which will be reviewed in this meeting. It will be presented at the public meeting scheduled for July 19, 2005 for public feedback. The committee will meet after the public session to review public comments, make changes and present to Council for their approval before it is submitted to the County and State.

Officer Mark Wright reported on the meeting held with Emergency Management regarding evacuation procedures. All traffic is to be directed north on Rt. 35. No traffic is to go over the Mantoloking Bridge except authorized emergency personnel.

Bob handed out his version of the Mantoloking Flood Mitigation Plan (attachment Q). This document was reviewed and discussed. There are still issues that we are trying to incorporate into the plan; back bay bulkhead height, raising height of foundation, and construction on pilings being required in certain zones.

Copies of this Plan;

1. Will be distributed by Nancy to the remaining Council members.
2. A copy will go to Irene to be forwarded to the Webmaster.
3. Abbreviated copies will be made available to the public for the July 19th meeting. Full versions of the Plan will be available for inspection at the Borough Hall.
4. All comments from the committee should be forwarded to Bob by June 21, 2005.
5. The Public Meeting will be July 19, 2005 at 7:00 pm.
6. The public will have until August 5, 2005 to submit comments.
7. The committee will meet on August 9, 2005 to review public comments.
8. Plan should be approved by Council at the Council Meeting on August 15, 2005.

9. Sent to the State after Council approval by resolution.

Tom stated his submittal went to the State and will be audited in September. He discussed some of what was done to increase points for the CRS program;

- The ordinance to prevent any further construction of critical facilities was passed on first reading on May 16, 2005 and should be adopted on June 20, 2005.
- Council adopted the International Building Code

John Jones discussed the goals listed on page 21 of the Plan and assigned who would discuss each one at the public meeting;

1. Tom
2. Tom
3. Bob
4. Bob to start, Tom to finish
5. Bob
6. Bob
7. Mark
8. Tom – CRS program
9. Tom
10. Tom

Each speaker is to send an outline to Nancy who will forward to John and Craig. If accepted, Nancy will make up sheets to be handed out to the public, with space for comments.

Next committee meeting will be August 9, 2005 at 9:30 am.

The meeting was adjourned at 10:37 am.

Borough of Mantoloking
Hazard Mitigation Planning Committee
Public Information Meeting – July 19, 2005

A public Information session was held on Tuesday, July 19, 2005 at 7:00 pm in the Borough Hall.

Councilman John Jones gave a brief history of the efforts done by the Borough for Flood Mitigation. These included establishment of an annual emergency beach contract in the event of storm damage; extensive research on dune erosion, post storm assessment, annual beach walk; quarterly assessment of dunes & beaches; activity in CRS program for discounts in flood insurance; and activity in federal beach nourishment program. Tonight is about future goals.

Robert Mainberger discussed the plan as an awareness plan which needs to evolve as situations change. We need to develop Atlantic Ocean flood protection features to meet a 100-year coastal storm flood resistance level. Bob discussed the definition of a 100-year storm, explained the USACOE Coastal Renourishment Project, and the funding breakdown. We also need to develop back bay bulkhead system to meet a 25-year coastal storm flood level. We also need to review the application of modular pump station systems to relieve flooding in Mantoloking bayside areas.

Dr. Mark Mahalasky presented information gathered since Hurricane Gloria in 1996. He produced a series of maps that had used LIDAR to determine elevations along the beach, height of the dune, width of the dune, and vegetation on the dune. This information would be used to determine susceptibility of the dune system to a 2-year, 5-year, 10-year, 20-year, 50-year and 100-year storm. New maps are currently being constructed.

Thomas Guldin, Borough Engineer, discussed local efforts for stormwater and bay flooding management, structure requirement upgrades and the CRS program efforts. The State plans to change the profile of Rt. 35 which will correct drainage issues. The Borough is also considering changing requirements for bulk heading, raising roadways, installing additional outlets, installing check valves and mandating a higher base flood elevation.

The floor was open to questions from the audience which were addressed by the various members of the committee.

The meeting was adjourned at 8:17 pm.

Borough of Mantoloking
Hazard Mitigation Planning Committee Meeting
Minutes – August 9, 2005

A meeting of the Hazard Mitigation Planning Committee was held on Tuesday, August 9, 2005 at 9:30 am at the Borough Hall. In attendance were the following:

William Dunbar, Mayor
John Jones, Chairman, Councilman
Bob Mainberger, Borough Dune Inspector
Frank Bruton, Hatch, Mott & MacDonald
Mark Mahalasky, Stockton State College
Craig Symons, resident
Peter Flihan, resident
Stan Witkowski, resident
Nancy Klumb, Deputy Municipal Clerk
John Wardell, Construction Official

The committee approved the minutes from the previous meeting of April 19, 2005.

Bob Mainberger reviewed the status of the Hazard Mitigation Plan which has been submitted to the State. The Plan hasn't moved forward as much as expected. One major setback is the funding.

John Jones stated the goal of this meeting is to review any changes made to the Plan since our public information meeting on July 19, 2005. The meeting was not highly attended and therefore the comments were few.

Mayor Dunbar has received several negative phone calls on the suggestion to raise the bulkheads. This was only a suggestion which was to be reviewed by the Engineer. There was some discussion on how the town and surrounding properties would be affected since not all properties have bulk heading.

Bob reiterated that this is a two part program. We study, then we adopt. The next phase is to present the Plan, as it is now, to Mayor & Council and forward copies to the following agencies; Ocean County OEM, JCP & L, NJ Natural Gas Co., NJDOT, NJAW, BTMUA, OCUA, County Engineer, surrounding towns (Brick, Pt. Pleasant, Bay Head), Clark Gilman of the State Flood Plain Management Group, Mantoloking Planning Board, Rich Laird (Mantoloking Emergency Management Coordinator), Sgt. Mark Wright (Mantoloking Deputy Emergency Management Coordinator), Mr. O'Malley (Borough Attorney) and Van Treust.

Mayor Dunbar reported that the town is required to have another OEM drill prior to October 1st. Mark Wright is working with Rosemary in the County office on this. He also reported that the town is in the process of acquiring 2 new fire alerting horns for the Fire Company with a possible third for OEM purposes.

Mark Mahalasky stated he will be making up smaller versions of the color maps showing the condition of the dunes and areas of vulnerability for a 20-year and a 50-year storm. These should be printed by the Council Meeting next Monday.

The Council Meeting Monday, August 15, 2005, will be the next public information meeting. There will be several presentations made at that time.

The meeting was adjourned at 10:17 am.