City of Brigantine, NJ (CID: 345286)

Hazard Mitigation Plan
2021 Annual Evaluation Report

Submitted by: Jim Rutala, PP, AICP, CFM
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September 20, 2021

Submitted to City Council:
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Name of Plan: *Atlantic County Multi-Jurisdictional Natural Hazard Mitigation Plan*

Date of Adoption of Plan: February 18, 2016

5-Year CRS Expiration Date. October 1, 2021 (The County has started the process of revising the *Atlantic County Multi-Jurisdictional Natural Hazard Mitigation Plan* and the City of Brigantine is actively participate in this process.)

1. How can a copy of the original plan or area analysis report be obtained?

The County Multi-Jurisdictional Natural Hazard Mitigation Plan can be viewed online at http://www.atlantic-county.org/hazard-mitigation/. The City's Flood information website (https://www.brigantinebeach.org/municipal/departments/city-engineer/flood-information/) along with the City's Floodplain Management Plan and Repetitive Loss Area Analyses.

2. Describe how this evaluation report was prepared and how it was submitted to the governing body, released to the media, and made available to the pubic:

The evaluation report was prepared by City staff and its consultants after reviewing City documentation and activities. It was submitted to the governing body and posted on the City's web site on September 21, 2021. The Floodplain Management Committee members include:

> Robert Rubino, Insurance Industry
> Jeanine Oleksiak, Brigantine Resident
> Ralph Busco, Brigantine Resident
> Paul Lauriello, Insurance Industry
> Paula Dumas, Banking Industry
> Ron Powell, Brigantine Resident
> Jim Bennett, City Manager
> Richard Stevens, Construction Official
> Lt. William Stroby, OEM
> Lance Landgraf, Planner
> Edward Stinson, CRS Coordinator

The evaluation report was submitted to the governing body and posted on the City's web site on September 21, 2021. The public and media will be aware of the evaluation through the posting of the City Council meeting agenda and the web site posting.

3. **Provide a review of each recommendation or action item in the action plan or area analysis report, including a statement on how much was accomplished during the previous year:**

   1. *Repetitive street flooding leading to damage to surrounding homes, businesses, and vehicles in the area of the Boat Ramp (3-600 blocks of Bayshore Ave, West Evans Blvd, 5th Street South and 6th Street South.* Various stormwater/drainage and flood control projects have been installed in the City and are planned for the future. More mitigation projects are being identified in the floodplain management planning process currently underway. Several home elevations and reconstructions are also currently underway. A manual floodgate was installed at the City's boat ramp using New Jersey Economic Development Authority funding, which serves to control storm surge during anticipated flooding events.

   2. *Maintain active training schedules for all relative officials.* The City has continued to support professional education for City staff, particularly those involved with floodplain management.

   3. *Revised Flood Prevention codes, construction codes and planning guidance.* Brigantine completed a Floodplain Management Plan in 2019. The City updated its Flood Damage Prevention ordinance in 2018 and anticipates updating it stormwater ordinance in response to its Watershed Master Plan in 2019.

   4. *Repair and upgrade storm drain infrastructure, installation of flood pump station at bulkhead/street end (34th Street and Hackney Place).* Various stormwater pumping stations have been installed. The City's latest project includes drainage improvements and a pumping station in the vicinity of Jenkins Parkway at the North End. The 34th Street and Hackney Place pump stations are complete.

   5. *Utilize existing Code Red, Nixle service, social media accounts, local emergency AM radio system. Ensure local websites are up to date and information linked to ACOEM.* Brigantine's Office of Emergency Management continues to utilize Nixle and various methods of public outreach to inform the public of flooding conditions and provide emergency information.

4. **Discuss why any objectives were not reached or why implementation is behind schedule.**

All objectives have been implemented on schedule. Brigantine has made remarkable progress in planning and implementing mitigation projects since Superstorm Sandy. Despite being severely hampered by a regional economic downturn, the City has aggressively pursued protection projects. The City's Watershed Master Plan and Floodplain Management Plan have been completed and the City is in the process of improving its CRS rating to a Class 3, only the second Class 3 community in New Jersey.

5. **What are the recommendations for new projects or revised recommendations?**

   1. Review and comment on the recommendations of the US Army Corps of Engineers *New Jersey Back Bays Coastal Storm Risk Management Study.*

   2. Continue the stabilization of erosion and flood-prone portions of the City through the use of bulkheads, living shorelines, and similar structures.

3. Support the elevation and resilience of private structures through grants and technical assistance. Support floodproofing for commercial buildings in the Business District.
4. Complete and implement the recommendations to be set forth in the Floodplain Management Plan and Repetitive Loss Area Analyses.

5. Support the elevation of bayfront bulkheads throughout the island to provide a higher level of flood protection.

6. Periodically review and update flood prevention codes, construction codes, and municipal plans.

7. Consider Blue Acres acquisitions primarily on Brigantine Boulevard, Harbor Beach Avenue, and East Evans Avenue.

8. Maintain active training for municipal officials.

9. Emergency Generator Installation-City Hall, South End Sewer Lift Station, Jenkins Parkway Sewer, Harbor Beach Boulevard Stormwater Lift Station, Public Works SCADA Control Center, 12th Street Stormwater Pumping Station.

10. Inspect over 80 check valves and replace/repair as needed. Install and maintain inlet grate, debris collectors, and outlet structures.

11. Utilize existing "reverse 911", Nixle service, social media accounts, local emergency AM radio system. Ensure local websites are up to date and information linked to AC Install City-Wide Warning System/Implement IPAWS notifications using cell towers OEM. Install remotely actuated road flood barrier warning system.

12. Continue to revise the Floodplain Management Plan, Repetitive Loss Analysis, Natural Resources Plan, Watershed Management Plan, mapping elevation certificates, and other actions.

13. Close bulkhead gaps; Elevate bulkheads (Public and Private) Poinsettia Way, Lilac Way, Golf Course, Pepper Cove, 13th Street North to 14th Street North, Bayside Gabion, 9th Street North to 5th Street North – Oceanside.

14. Maintain golf course drainage area.

15. Install City wide warning system and implement IPAWS notifications using cell towers.

16. Elevate evacuation routes. Elevate selected roads with drainage improvements - Brigantine Boulevard by Edgewater; Harbor Beach Boulevard; Sarazen Boulevard; Evans Boulevard; Lafayette Boulevard; East Shore Drive and Golf Course Drive.

17. Extend North End Seawall by 275 feet northward and to Bayside. Create vehicle crossover; implement beachfill from 15th Street North to 4 WD entrance.

18. Continue to support beach replenishment and consider back passing operation for beach replenishment - North End.

19. Complete drainage improvements and inlet installation (for example 32nd - 40th Street South.)

20. Install flood wall at City dock (2519-2601 Bayshore Avenue).

21. Road Elevation/Berm Transformation - identify and construct streets that can also function as berms or floodwalls.

22. Require real estate disclosure of flood hazards.

23. Integrated flood hazard/sea level mapping.