



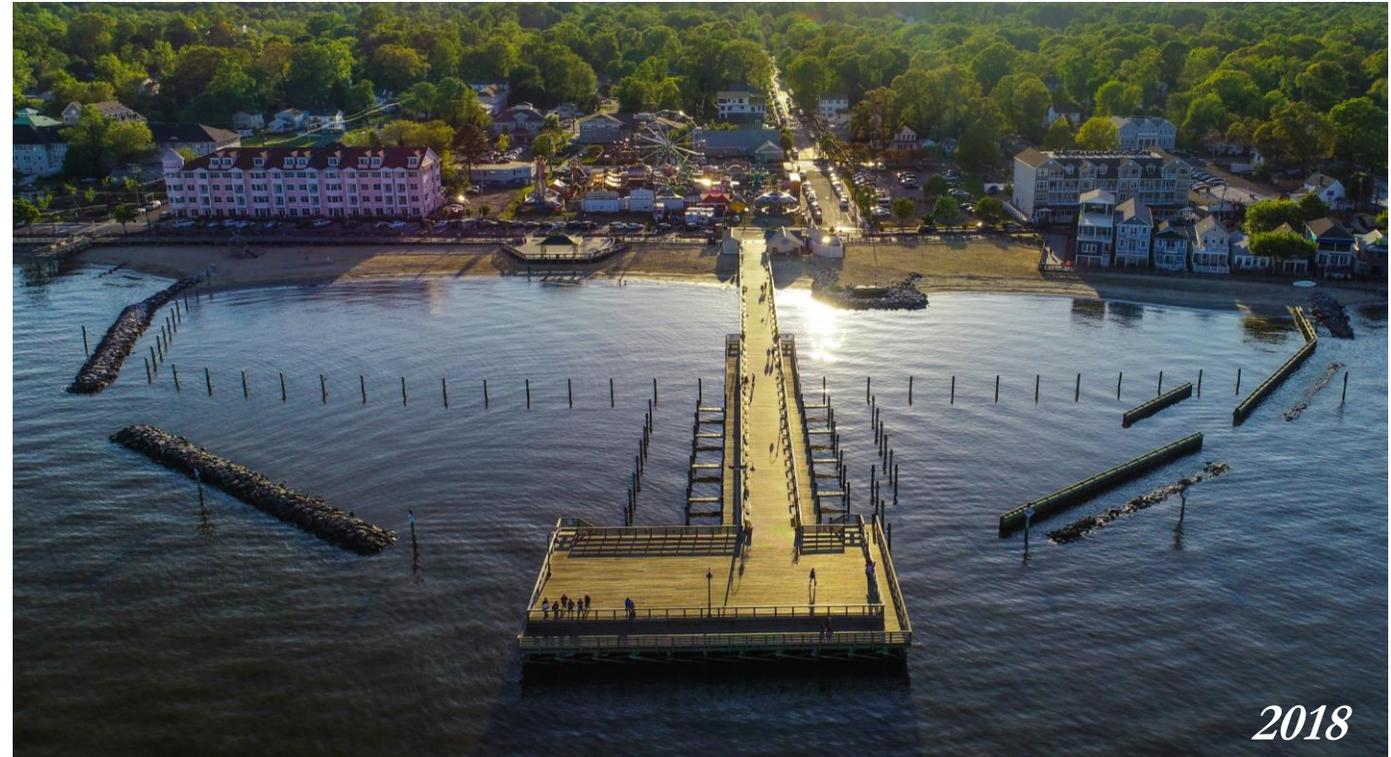
**Recognition of the Town of North Beach
Stormwater and Flood Mitigation Advisory Committee**

October 27, 2021



The Jewel of the Chesapeake Bay
North Beach, Maryland

North Beach Waterfront Past and Present



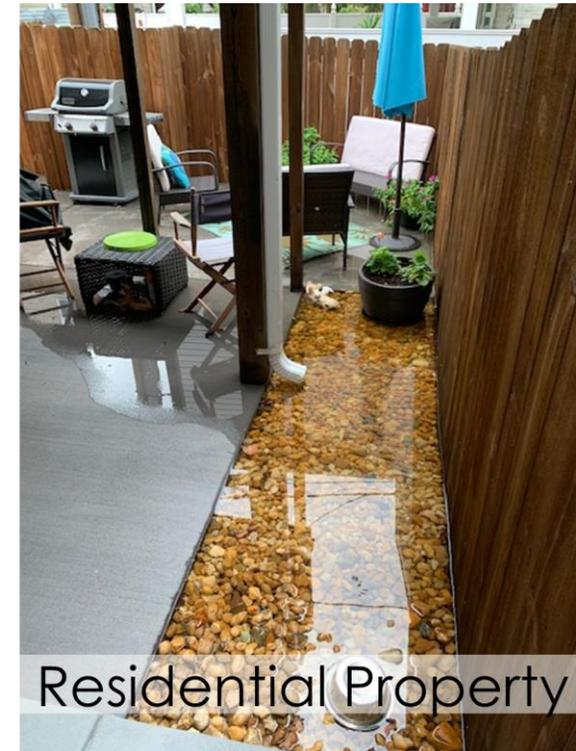
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Tidal Flooding



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Tidal Flooding



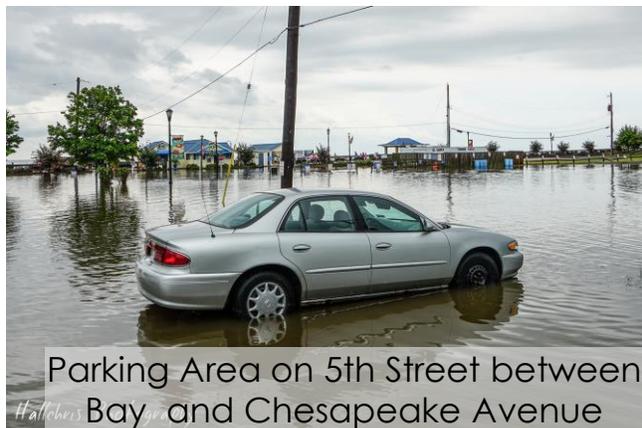
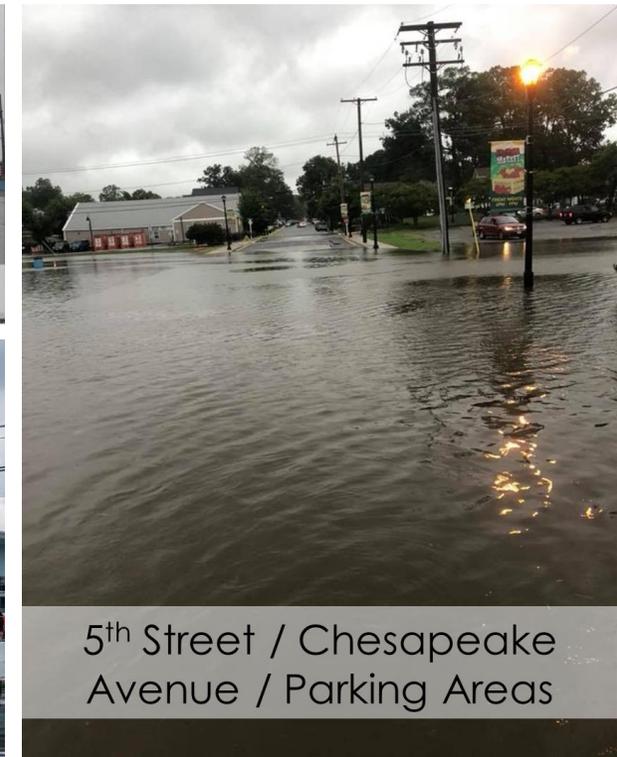
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Stormwater Flooding



The Town of North Beach takes a beating from damaging winds and rainfall, and it inherits stormwater runoff from areas to the west of town.

Stormwater Flooding



The town has committed significant funding to address flooding.

We believe it is critical to understand and address the flood risks associated with the effects of climate change and the town's adjacency to the Chesapeake Bay.



In 2015, a living shoreline was constructed along the water's edge at the town's Walton Beach Nature Preserve. It created over an acre of new tidal wetlands and vastly improved the capacity of the tidal marsh to capture/dissipate flood water between the living shoreline and Bay Avenue.



In 2017, about 1,000 feet of earthen dike/berm was constructed adjacent to the living shoreline, just north of 9th Street between Bay and Atlantic Avenues. This restored and stabilized approximately 50,000 sq ft of vegetated wetland and increased flood protection in the area.

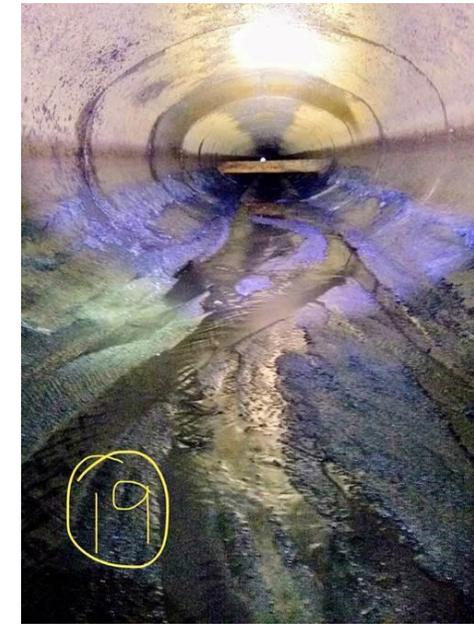
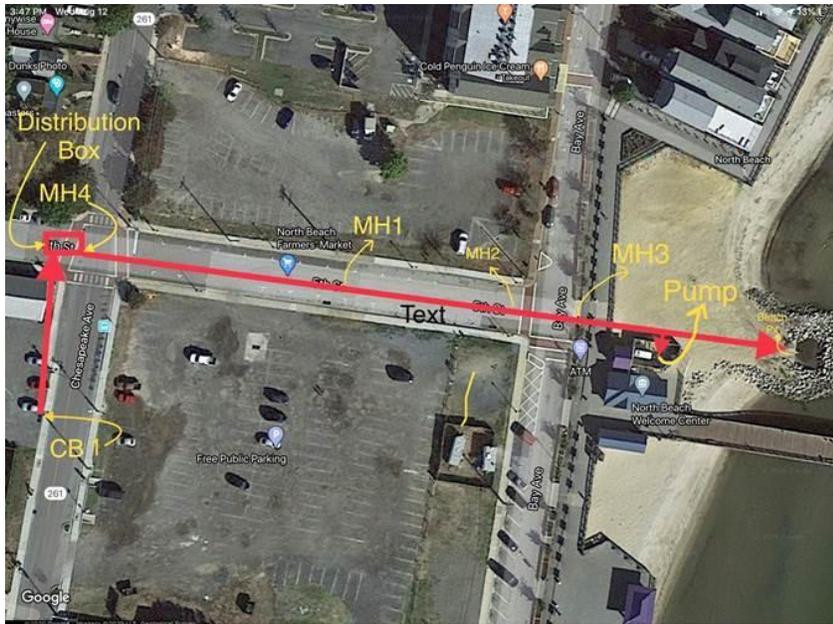


Living Shoreline

Earthen Berm/Dike

The town has taken action.

- ✓ Approved \$295,000 for stormwater and flood-related improvements.
- ✓ Established the Stormwater and Flood Mitigation Advisory Committee.
- ✓ In 2020, the large drainpipe along 5th Street was cleaned out removing about 185 tons of silt and debris.

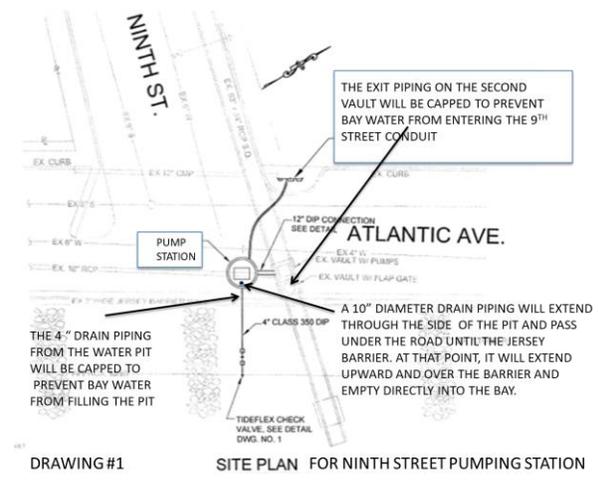


5th Street Drainpipe Cleanout

The town has taken action.

✓ Maryland Department of Transportation State Highway Administration completed the project to raise MD Rt. 261 between 9th Street and the Anne Arundel County line. The purpose of the project was to get the road surface above tidal flooding and provide a high point in the roadway to connect the flood dike.

✓ The town received \$20,000 as fee in lieu from State Highway Administration for the MD Rt. 261 road elevation project. The funds will be directed to the upgrade of the 9th Street Pump Station.



We're up against what every coastal town now faces—climate change, flooding, and the impact of both on living conditions.

✓ As the town plans for the future, it's critical to understand and address the risks.

✓ We are currently working to implement short- and long-term projects to deal with the flooding and protect our infrastructure, our residences, and our businesses.

✓ We've been leveraging resources:

- Maryland Department of Natural Resources
- University of Maryland
- Maryland Department of Planning
- Senator Michael Jackson
- Delegate Mark Fisher
- Calvert County
- The volunteer energy of our residents.



The town established a Stormwater & Flood Mitigation Advisory Committee.

In recognition of the increased frequency of storm and coastal flooding, the town established a Stormwater & Flood Mitigation Advisory Committee (SFMAC) in 2019 by Resolution 19-07.

SFMAC Mission Statement

The mission of the North Beach SFMAC is to provide advice and counsel regarding stormwater and flood issues and to assist with any implementation plans to improve the Town of North Beach's resistance to flooding by identifying actions that reduce stormwater and flooding impacts to residential and commercial structures and infrastructure; and by identifying projected impacts of sea level rise scenarios at 2050 and 2100.

This mission will be attained by working with the Town Government and residents to:

- Identify stormwater and flood issues specific to The Town of North Beach and recommend mitigation measures, both short- and long-term, to address flooding in the Town of North Beach;
- Identify the implications of sea level rise/land subsidence to The Town of North Beach and recommend mitigation measures, both short and long-term, to address potential sea level rise/land subsidence impacts to The Town of North Beach;
- Develop a Town of North Beach Stormwater and Flood Mitigation Plan that will serve as a planning tool to address flood issues in the Town of North Beach; and
- Develop a SFMAC Communications Plan to serve as a roadmap for keeping residents informed of Committee matters.



The SFMAC is comprised of town staff and residents who work together to address flooding issues and to help sustain mitigation efforts over time.



The SFMAC meets monthly.



More information on the committee, photos, agendas and minutes: <https://www.northbeachmd.org/stormwaterand-flood-mitigation-advisory-committee>



SFMAC drafted the town application for, and the town subsequently was awarded a \$112,000 grant from DNR to fund development of a flood action framework (Phase I) and flood action plan (Phase II).

Our town is fortunate to have many volunteers with a wide variety of expertise.

These volunteers bring a wealth of knowledge that increases the chances of successfully addressing storm and coastal flooding. It's a team with complementary skills—and they've been delivering great results.

- ✓ A world-class engineer.
- ✓ An attorney who has worked with the Chesapeake Bay Foundation and the Environmental Protection Agency.
- ✓ A retired speechwriter.
- ✓ A quality system professional with 25+ years of experience in the pharmaceutical and bio-tech industry.
- ✓ A resident who is closely connected to the green community.
- ✓ A former government procurement officer.



All Committee members are listed at <https://www.northbeachmd.org/stormwater-and-flood-mitigation-advisory-committee>

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CHALLENGE:

Heavier and more frequent flooding in recent years from storms and tidal surges that resulted in damaged homes, businesses, and infrastructure, and increased the amount of polluted runoff to the Chesapeake Bay and wetlands.



SHORT-TERM SOLUTION:

SFMAC worked with Department of Public Works on plans for pump upgrade.



LONG-TERM SOLUTION:

SFMAC secured funding from DNR to create a comprehensive flood action plan.



PHASE ONE:

A 6-month effort to build a plan framework with help from University of Maryland’s Environmental Finance Committee.



PHASE TWO:

Utilizing a \$75,000 grant from DNR to develop action items to combat the issues. The committee drafted an RFP and a communications plan to keep everyone up to date on the progress.



WHEN PLAN IS COMPLETE:

SFMAC will seek funding to move forward with implementation of recommendations.



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