

U.S. Army Corps of Engineers Baltimore District

Baltimore Metropolitan Coastal Storm Risk Management Feasibility Study

APPENDIX H

Agency and Public Involvement Coordination

FINAL REPORT

April 2024

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September 9, 2019

Mr. Cosmo Servidio Regional Administrator U.S. Environmental Protection Agency – Region 3 1650 Arch Street Mail Code: 3RA00 Philadelphia, PA 19103-2029

Dear Mr. Servidio,

The U. S. Army Corps of Engineers, Baltimore District (USACE), has begun a feasibility study to investigate coastal storm risk problems in the Baltimore metropolitan area and develop solutions to reduce future risk (see enclosed study area map). The non-federal sponsor is the Maryland Department of Transportation (MDOT). As part of the feasibility study, we are preparing environmental documents pursuant to the National Environmental Policy Act (NEPA) of 1969, as amended. As the lead federal agency under NEPA, we are inviting your participation as a cooperating agency in the development of the environmental documents (either an Environmental Impact Statement or an Environmental Assessment). The NEPA documents will evaluate environmental impacts from project alternatives. We are currently formulating alternatives, and the draft integrated Feasibility Report and NEPA document is tentatively scheduled to be released in the fall of 2020.

The study is built upon the USACE North Atlantic Coast Comprehensive Study (NACCS), which identified nine high-risk areas that warrant further investigation of coastal storm risk management solutions, including the Baltimore area. More information on the NACCS can found at: <u>https://www.nad.usace.army.mil/CompStudy/</u>.

The study will seek to identify alternative plans to reduce coastal storm risks in ways that support the long-term resilience and sustainability of human communities and the coastal ecosystem. More information on the Baltimore Metropolitan Coastal Storm Risk Management Study can be found at: https://www.nab.usace.army.mil/missions/civil-works/baltimore-coastal-study/.

Based on your agency's jurisdiction by law and/or special expertise, specifically under the Clean Water Act and NEPA, your participation as a cooperating agency may enhance the interdisciplinary capability of the USACE and contribute to a more thorough evaluation of the proposed plan. In accordance with the Council on Environmental Quality final implementing regulations for NEPA (40 C.F.R. § 1501.6 and § 1508.5), your agency's specific responsibilities as a cooperating agency would include:

- Participation in agency coordination meetings, conference calls, and site visits;
- Comment and feedback on the NEPA document schedule, overall scope of the document, significant issues to be evaluated, environmental impacts, study and assessment methodologies, range of alternatives, and proposed compensatory mitigation, if applicable;
- Identification of issues related to your agency's jurisdiction by law and special expertise;
- Participation, as appropriate, at public meetings and hearings; and
- Timely review of the draft and final NEPA document prior to public review to communicate any concerns of your agency.

Please provide your written statement of interest to this invitation and an agency point of contact within 30 days of this letter. If you elect not to become a cooperating agency, you must decline this invitation in writing within 30 days of this letter, indicating that your agency has no jurisdiction or authority with respect to the project, no expertise or information relevant to the project, does not have adequate funds to participate in the project, or does not intend to submit comments on the project. Your response may be transmitted electronically to Ms. Vanessa Campbell, Project Biologist at <u>Vanessa.m.campbell@usace.army.mil.</u> Please be advised that if your agency does not respond within the specified timeframe, your agency will automatically become a cooperating agency.

We look forward to your response to this request and your role as a cooperating agency on this study. If you have questions or would like to discuss the project in more detail or our agencies' respective roles and responsibilities during the preparation of the NEPA document, please contact Ms. Campbell at the email above or by phone at (410) 962-6704.

Sincerely,

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Daniel M. Bierly Chief, Civil Project Development Branch Planning Division

Enclosure



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 1650 Arch Street Philadelphia, Pennsylvania 19103-2029

September 26, 2019

Ms. Vanessa Campbell U.S. Army Corps of Engineers, Baltimore District Planning Division,10th Floor 2 Hopkins Plaza Baltimore, Maryland 21201

Re: Cooperating Agency Role for the Baltimore Metropolitan Coastal Storm Risk Management Study

Dear Ms. Campbell:

The U.S. Environmental Protection Agency (EPA) is responding to your letter dated September 9, 2019, in which you requested our participation as a cooperating agency in the development of an Environmental Impact Statement (EIS) or Environmental Assessment (EA) for the Baltimore Metropolitan Coastal Storm Risk Management Study. EPA is pleased to reply that we are committed to playing an active role as a cooperating agency for the subject project.

The Council of Environmental Quality (CEQ) has determined that a cooperating agency has the responsibility to assist the lead agency by participating in the National Environmental Policy Act (NEPA) process at the earliest possible time. This participation includes: engaging in the scoping process, developing information and preparing environmental analyses in areas of special technical expertise, and providing staff support at the lead agency's request to enhance the lead agency's interdisciplinary capabilities. Our role as a cooperating agency in support of the subject EIS or EA as presented in your letter, will include providing technical assistance for:

- General NEPA work such as scoping, development of the range of alternatives, analysis of the alternatives and their environmental impacts, identification of significant issues, and assessment of Environmental Justice, cumulative impacts, and compensatory mitigation as applicable;
- Clean Water Act (CWA) Section 404 and Clean Air Act (CAA) compliance;
- Data, mapping, and assessment methodologies or models that may offer relevant information or analyses;
- Technical support in the field and participation in related meetings.

As you are aware, there are a number of benefits of enhanced cooperating agency participation in the preparation of NEPA analyses, including: disclosing relevant information early in the analytical process; applying available technical expertise and staff support; and establishing a mechanism for



addressing intergovernmental issues. Given reasonable time frames, we would be pleased to review preliminary project documentation, including draft versions of the document.

Please note that CEQ guidance recognizes that status as a cooperating agency should not be construed as expressing agreement with the lead agency regarding the conclusions to be drawn or the selection of the preferred alternative in the NEPA document. In addition, EPA has a number of independent responsibilities related to the proposed project, and we retain our independent obligations and responsibilities pursuant to Section 309 of the Clean Air Act (CAA), Sections 402(d) and 404(b), (c), and (q) of the CWA.

While we plan on being fully engaged as a cooperating agency, resource constraints may require us to limit our in-person attendance at project meetings. We hope that video or telephone conference opportunities are made available for that contingency.

Thank you for the opportunity to be a cooperating agency on this project. We look forward to working with you to ensure that a scientifically sound and sufficient study is developed for this project. If you need additional assistance, the staff contact for this project is Carrie Traver; she can be reached at 215-814-2772.

Sincerely,

Bella all

Barbara Rudnick NEPA Program Coordinator Office of Communities, Tribes, & Environmental Assessment



September 9, 2019

Paul Phifer, PhD Assistant Regional Director – Ecological Services Northeast Region Department of the Interior U.S. Fish and Wildlife Service Northeast Regional Office 300 Westgate Center Drive Hadley, MA 01035-9587

Dear Dr. Phifer:

The U. S. Army Corps of Engineers, Baltimore District (USACE), has begun a feasibility study to investigate coastal storm risk problems in the Baltimore metropolitan area and develop solutions to reduce future risk (see enclosed study area map). The non-federal sponsor is the Maryland Department of Transportation (MDOT). As part of the feasibility study, we are preparing environmental documents pursuant to the National Environmental Policy Act (NEPA) of 1969, as amended. As the lead federal agency under NEPA, we are inviting your participation as a cooperating agency in the development of the environmental documents (either an Environmental Impact Statement or an Environmental Assessment). The NEPA documents will evaluate environmental impacts from project alternatives. We are currently formulating alternatives, and the draft integrated Feasibility Report and NEPA document is tentatively scheduled to be released in the fall of 2020.

The study is built upon the USACE North Atlantic Coast Comprehensive Study (NACCS), which identified nine high-risk areas that warrant further investigation of coastal storm risk management solutions, including the Baltimore area. More information on the NACCS can found at: <u>https://www.nad.usace.army.mil/CompStudy/</u>.

The study will seek to identify alternative plans to reduce coastal storm risks in ways that support the long-term resilience and sustainability of human communities and the coastal ecosystem. More information on the Baltimore Metropolitan Coastal Storm Risk Management Study can be found at:

https://www.nab.usace.army.mil/missions/civil-works/baltimore-coastal-study/.

Based on your agency's jurisdiction by law and/or special expertise, specifically under the Fish and Wildlife Coordination Act and Endangered Species Act, your participation as a cooperating agency will enhance the interdisciplinary capability of the USACE and contribute to a more thorough evaluation of the proposed plan. In accordance with the Council on Environmental Quality final implementing regulations for NEPA (40 C.F.R. § 1501.6 and § 1508.5), your agency's specific responsibilities as a cooperating agency would include:

- Participation in agency coordination meetings, conference calls, and site visits;
- Comment and feedback on the NEPA document schedule, overall scope of the document, significant issues to be evaluated, environmental impacts, study and assessment methodologies, range of alternatives, and proposed compensatory mitigation, if applicable;
- Identification of issues related to your agency's jurisdiction by law and special expertise;
- Participation, as appropriate, at public meetings and hearings; and
- Timely review of the draft and final NEPA document prior to public review to communicate any concerns of your agency.

Please provide your written statement of interest to this invitation and an agency point of contact within 30 days of this letter. If you elect not to become a cooperating agency, you must decline this invitation in writing within 30 days of this letter, indicating that your agency has no jurisdiction or authority with respect to the project, no expertise or information relevant to the project, does not have adequate funds to participate in the project, or does not intend to submit comments on the project. Your response may be transmitted electronically to Ms. Vanessa Campbell, Project Biologist at <u>Vanessa.m.campbell@usace.army.mil.</u> Please be advised that if your agency does not respond within the specified timeframe, your agency will automatically become a cooperating agency.

We look forward to your response to this request and your role as a cooperating agency on this study. If you have questions or would like to discuss the project in more detail or our agencies' respective roles and responsibilities during the preparation of the NEPA document, please contact Ms. Campbell at the email above or by phone at (410) 962-6704.

Sincerely,

Daniel M. Bierly Chief, Civil Project Development Branch Planning Division

Enclosure



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Chesapeake Bay Field Office 177 Admiral Cochrane Drive Annapolis, Maryland 21401 http://www.fws.gov/chesapeakebay

October 3, 2019

Daniel M. Bierly, Chief, Civil Project Development Branch, Planning Division Army Corps of Engineers, Baltimore District 2 Hopkins Plaza Baltimore, MD 21201

RE: Request to be a Cooperating or Participating Agency in the Baltimore Coastal Storm Risk Reduction Feasibility Study

Dear Mr. Bierly:

This responds to your letter, dated September 9, 2019, requesting participation of the U.S. Fish and Wildlife Service (Service) as a cooperating or participating agency in a feasibility study to investigate coastal storm risk problems in the Baltimore metropolitan area. We have reviewed the information provided and the following response is in accordance with the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) and Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*).

Background

The U.S. Army Corps of Engineers, Baltimore District (Corps) is developing a feasibility study to investigate coastal storm risk problems in the Baltimore metropolitan area with the intent of developing solutions to reduce future risk. The study is built upon the Corps' North Atlantic Comprehensive Study (NACCS) (USACE, 2015) of which the Service was a cooperating agency. The NACCS identified nine high-risk areas that warrant further investigation with regard to coastal storm risk management solutions. One of these nine areas is the Baltimore metropolitan area. The intent of this study is to identify alternative plans to reduce coastal storm risk in a way that supports long-term resilience and sustainability of communities and ecosystems. The study focuses on the Patapsco River in Baltimore City, Baltimore County, and Anne Arundel County. The Corps requests that the Service participates as a cooperating or participating agency as described in the National Environmental Policy Act (NEPA) of 1969.

Service Resources and Response to the Corps Request

The Greater Baltimore region has become an important area to the Service with the establishment of the Baltimore Rivers to Harbor Urban Wildlife Refuge Partnership. The Service has been participating in a number of habitat restoration projects in the Patapsco River watershed including: the Masonville Cove restoration project; Cox Creek/Swan Cove restoration project; Ridgely Cove restoration project; and the Bloede Dam removal project. Objectives of these



projects include increasing aquatic function for resident and migratory fish, including shad and river herring, as well as creating riparian buffers for migratory birds. Because of the importance of the Patapsco River in the Service's Baltimore Rivers to Harbor Urban Wildlife Refuge Partnership, the Service requests to be a cooperating agency in the proposed feasibility study.

The Service appreciates the opportunity to work with the Corps to ensure that the goals of this feasibility study are achieved, while proactively benefitting fish and wildlife resources. If you have any further questions or concerns, please contact Chris Guy of my staff at (410) 573-4529 or <u>chris_guy@fws.gov</u>.

Sincerely, Julie A. Slacum

Acting For Genevieve LaRouche Field Supervisor

References USACE 2015. <u>https://www.nad.usace.army.mil/CompStudy/</u>



September 9, 2019

Gregory Murrill Division Administrator Federal Highway Administration - Maryland Division George H. Fallon Federal Building 31 Hopkins Plaza, Suite 1520 Baltimore, MD 21201

Dear Mr. Murrill:

The U. S. Army Corps of Engineers, Baltimore District (USACE), has begun a feasibility study to investigate coastal storm risk problems in the Baltimore metropolitan area and develop solutions to reduce future risk (see enclosed study area map). The non-federal sponsor is the Maryland Department of Transportation (MDOT). As part of the feasibility study, we are preparing environmental documents pursuant to the National Environmental Policy Act (NEPA) of 1969, as amended. As the lead federal agency under NEPA, we are inviting your participation as a cooperating agency in the development of the environmental documents (either an Environmental Impact Statement or an Environmental Assessment). The NEPA documents will evaluate environmental impacts from project alternatives. We are currently formulating alternatives, and the draft integrated Feasibility Report and NEPA document is tentatively scheduled to be released in the fall of 2020.

The study is built upon the USACE North Atlantic Coast Comprehensive Study (NACCS), which identified nine high-risk areas that warrant further investigation of coastal storm risk management solutions, including the Baltimore area. More information on the NACCS can found at: <u>https://www.nad.usace.army.mil/CompStudy/</u>.

The study will seek to identify alternative plans to reduce coastal storm risks in ways that support the long-term resilience and sustainability of human communities and the coastal ecosystem. More information on the Baltimore Metropolitan Coastal Storm Risk Management Study can be found at: https://www.nab.usace.army.mil/missions/civil-works/baltimore-coastal-study/.

Based on your agency's jurisdiction by law and/or special expertise, your participation as a cooperating agency may enhance the interdisciplinary capability of the USACE and contribute to a more thorough evaluation of the proposed plan.

In accordance with the Council on Environmental Quality final implementing regulations for NEPA (40 C.F.R. § 1501.6 and § 1508.5), your agency's specific responsibilities as a cooperating agency would include:

- Participation in agency coordination meetings, conference calls, and site visits;
- Comment and feedback on the NEPA document schedule, overall scope of the document, significant issues to be evaluated, environmental impacts, study and assessment methodologies, range of alternatives, and proposed compensatory mitigation, if applicable;
- Identification of issues related to your agency's jurisdiction by law and special expertise;
- Participation, as appropriate, at public meetings and hearings; and
- Timely review of the draft and final NEPA document prior to public review to communicate any concerns of your agency.

Please provide your written statement of interest to this invitation and an agency point of contact within 30 days of this letter. If you elect not to become a cooperating agency, you must decline this invitation in writing within 30 days of this letter, indicating that your agency has no jurisdiction or authority with respect to the project, no expertise or information relevant to the project, does not have adequate funds to participate in the project, or does not intend to submit comments on the project. Your response may be transmitted electronically to Ms. Vanessa Campbell, Project Biologist at <u>Vanessa.m.campbell@usace.army.mil.</u> Please be advised that if your agency does not respond within the specified timeframe, your agency will automatically become a cooperating agency.

We look forward to your response to this request and your role as a cooperating agency on this study. If you have questions or would like to discuss the project in more detail or our agencies' respective roles and responsibilities during the preparation of the NEPA document, please contact Ms. Campbell at the email above or by phone at (410) 962-6704.

Sincerely,

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Daniel M. Bierly Chief, Civil Project Development Branch Planning Division

Enclosure



Maryland Division

31 Hopkins Plaza, Suite 1520 Baltimore, MD 21201 (410) 962-4440 (410) 962-4054 http://www.fhwa.dot.gov/mddiv/

October 4, 2019

In Reply Refer To: HDA-MD

Mr. Daniel M. Bierly Chief, Civil Project Development Branch Corps of Engineers, Baltimore District 2 Hopkins Plaza Baltimore, MD 21201

Dear Mr. Bierly:

In response to your September 9, 2019 letter, the Federal Highway Administration accepts U.S. Army Corps of Engineers, Baltimore District's invitation to be a cooperating agency in its undertaking to investigate coastal storm risk problems in the Baltimore metropolitan area.

As a cooperating agency, per 40 CFR §1501.6 and §1508.5, we will participate in agency coordination meetings and site visits as appropriate, provide comment and feedback on NEPA document development and environmental impacts, and identify any issues related to our agency's special expertise.

Thank you for the opportunity to participate as a cooperating agency. We look forward to working with you as the feasibility study is developed. We have designated Ms. Jeanette Mar, Environmental Program Manager as the point of contact (POC) for this study. If you have any questions, she can be reached at (410) 779-7152 or Jeanette.mar@dot.gov.

Sincerely,

Gregory Murrill Division Administrator

cc: Ms. Vanessa Campbell, USACE, Project Biologist



September 9, 2019

Michael Pentony **Regional Administrator** Greater Atlantic Regional Fisheries Office Office of National Marine Fisheries Service 55 Great Republic Drive Gloucester, Massachusetts 01930

Dear Mr. Pentony:

The U.S. Army Corps of Engineers, Baltimore District (USACE), has begun a feasibility study to investigate coastal storm risk problems in the Baltimore metropolitan area and develop solutions to reduce future risk (see enclosed study area map). The non-federal sponsor is the Maryland Department of Transportation (MDOT). As part of the feasibility study, we are preparing environmental documents pursuant to the National Environmental Policy Act (NEPA) of 1969, as amended. As the lead federal agency under NEPA, we are inviting your participation as a cooperating agency in the development of the environmental documents (either an Environmental Impact Statement or an Environmental Assessment). The NEPA documents will evaluate environmental impacts from project alternatives. We are currently formulating alternatives, and the draft integrated Feasibility Report and NEPA document is tentatively scheduled to be released in the fall of 2020.

The study is built upon the USACE North Atlantic Coast Comprehensive Study (NACCS), which identified nine high-risk areas that warrant further investigation of coastal storm risk management solutions, including the Baltimore area. More information on the NACCS can found at: https://www.nad.usace.army.mil/CompStudy/.

The study will seek to identify alternative plans to reduce coastal storm risks in ways that support the long-term resilience and sustainability of human communities and the coastal ecosystem. More information on the Baltimore Metropolitan Coastal Storm Risk Management Study can be found at:

https://www.nab.usace.army.mil/missions/civil-works/baltimore-coastal-study/.

Based on your agency's jurisdiction by law and/or special expertise, specifically under the Magnuson-Stevens Fishery Conservation and Management Act, Fish and Wildlife Coordination Act and Endangered Species Act, your participation as a cooperating agency may enhance the interdisciplinary capability of the USACE and contribute to a more thorough evaluation of the proposed plan.

In accordance with the Council on Environmental Quality final implementing regulations for NEPA (40 C.F.R. § 1501.6 and § 1508.5), your agency's specific responsibilities as a cooperating agency would include:

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We look forward to your response to this request and your role as a cooperating agency on this study. If you have questions or would like to discuss the project in more detail or our agencies' respective roles and responsibilities during the preparation of the NEPA document, please contact Ms. Campbell at the email above or by phone at (410) 962-6704.

Sincerely,

Daniel M. Bierly Chief, Civil Project Development Branch Planning Division

Enclosure



UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL MARINE FISHERIES SERVICE GREATER ATLANTIC REGIONAL FISHERIES OFFICE 55 Great Republic Drive Gloucester, MA 01930-2276

October 10, 2019

Daniel Bierly, Chief Civil Project Development Branch Planning Division US Army Corps of Engineers Baltimore District 2 Hopkins Plaza Baltimore, MD 21201-2930

RE: Baltimore Metropolitan Coastal Storm Risk Management Feasibility Study

Dear Mr. Bierly:

Thank you for your September 9, 2019, letter inviting us to be a cooperating agency on the preparation of environmental documents pursuant to the National Environmental Policy Act (NEPA) of 1969, as amended, regarding the feasibility study to investigate potential solutions to reduce flood risk associated with coastal storm events in the Baltimore, Maryland metropolitan area. Because this project is covered under the provisions of Section 1005 of the Water Resources Reform and Development Act of 2014 (WRRDA 2014), we accept your invitation to become a cooperating agency for this project.

Our role and degree of involvement is dependent on existing staff and fiscal resources, and our contribution to the process will be limited to participating in project meetings and providing written comments in response to your documents prepared as part of the National Environmental Policy Act (NEPA) process. We will provide technical information identifying aquatic species and habitats of concern, identification of issues to be considered and evaluated during the NEPA process and guidance on evaluating, avoiding, and minimizing project effects to our trust resources. At this time, we are unable to undertake any data collection, conduct analyses or to prepare any sections of the NEPA document as our staff and resources are fully committed to other obligatory programs of NOAA Fisheries.

Please note that our involvement as a cooperating agency does not constitute an endorsement of this project, nor does it obviate the need for consultations required under the Magnuson-Stevens Fishery Conservation and Management Act, Fish and Wildlife Coordination Act, and the Endangered Species Act.

We look forward to working with you and your staff as the project moves forward. If you have any questions regarding this matter, please contact Kristy Beard in our Annapolis, MD field office (kristy.beard@noaa.gov) or Brian Hopper in our Protected Resources Division



(brian.d.hopper@noaa.gov) regarding threatened and endangered species listed by us under the ESA.

Sincerely,

Lacon Speend

Louis A. Chiarella Assistant Regional Administrator Habitat Conservation Division

cc: Vanessa Campbell, NAB Corps Kristy Beard, HCD Mark Murray-Brown, PRD Chris Vaccaro, PRD Brian Hopper, PRD



September 9, 2019

MaryAnn Tierney Regional Administrator Federal Emergency Management Agency-Region III 615 Chestnut Street One Independence Mall, Sixth Floor Philadelphia, PA 19106-4404

Dear Ms. Tierney,

The U. S. Army Corps of Engineers, Baltimore District (USACE), has begun a feasibility study to investigate coastal storm risk problems in the Baltimore metropolitan area and develop solutions to reduce future risk (see enclosed study area map). The non-federal sponsor is the Maryland Department of Transportation (MDOT). As part of the feasibility study, we are preparing environmental documents pursuant to the National Environmental Policy Act (NEPA) of 1969, as amended. As the lead federal agency under NEPA, we are inviting your participation as a cooperating agency in the development of the environmental documents (either an Environmental Impact Statement or an Environmental Assessment). The NEPA documents will evaluate environmental impacts from project alternatives. We are currently formulating alternatives, and the draft integrated Feasibility Report and NEPA document is tentatively scheduled to be released in the fall of 2020.

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The study will seek to identify alternative plans to reduce coastal storm risks in ways that support the long-term resilience and sustainability of human communities and the coastal ecosystem. More information on the Baltimore Metropolitan Coastal Storm Risk Management Study can be found at: https://www.nab.usace.army.mil/missions/civil-works/baltimore-coastal-study/.

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We look forward to your response to this request and your role as a cooperating agency on this study. If you have questions or would like to discuss the project in more detail or our agencies' respective roles and responsibilities during the preparation of the NEPA document, please contact Ms. Campbell at the email above or by phone at (410) 962-6704.

Sincerely,

Daniel M. Bierly Chief, Civil Project Development Branch Planning Division

Enclosure



Jonathan M. Watson Marine Habitat Resource Specialist NOAA Fisheries Greater Atlantic Regional Fisheries Office Habitat & Ecosystem Services Division (Habitat Conservation) 177 Admiral Cochrane Drive Annapolis, MD 21401

Dear Mr. Watson:

In compliance with the National Environmental Policy Act (NEPA), the U.S. Army Corps of Engineers (USACE) Baltimore District, is preparing an Integrated Feasibility Report/ Environmental Assessment for the Baltimore Coastal Storm Risk Management Study in Baltimore, MD. This study originally began in August 2019. The study was paused in February 2020 because of an interruption in funding. Funding was restored and the study re-started in July 2021, and shortly thereafter, coordination with the agencies resumed. On December 29, 2021, USACE (Chris Johnson, Biologist) re-initiated coordination with NOAA Fisheries (Jonathan Watson) via email. The email included information pertaining to past coordination efforts with NOAA Fisheries from November 2019, and asked Mr. Watson for the necessary processes to ensure Essential Fish Habitat (EFH) coordination and documentation was performed accurately and thoroughly as the study progresses.

To reiterate, the study's purpose is to reduce coastal flood risk to vulnerable populations, properties, infrastructure, and environmental and cultural resources, while considering future climate and sea level change scenarios. Two separate study areas are being analyzed for this study; Baltimore City and Martin State Airport, the latter being located in Baltimore County. The objectives for the Baltimore City portion of the study area include reducing economic damages associated with coastal flooding to residential, commercial, industrial, and government buildings while also protecting critical infrastructure, such as utilities, roadways, and electronic services. The objective of the Martin State Airport portion of the study area is to reduce coastal flooding impacts that may disrupt or damage transportation and emergency service infrastructure and assets that support the airport. The initial array of 11 alternatives were screened down to four (Alternatives 4-7). The alternatives and their locations are listed in the table below and shown in the attached maps:

March 3, 2022

Location	Structural/Non- Structural	Alt 4	Alt 5	Alt 6	Alt 7
Patapsco Wastewater Treatment Plant	Non-Structural	Х	Х	Х	Х
Martin State Airport (Baltimore County)	Non-Structural	X	Х	X	X
Fort McHenry	Non-Structural	X	Х	X	
Inner Harbor	Non-Structural		Х	X	
Canton	Non-Structural		Х	X	
US Coast Guard Yard	Non-Structural		Х	Х	Х
I-895 & I-95 Tunnel Entrances Floodwall	Structural	X	Х	X	X
Seagirt Terminal Floodwall	Structural			X	X
Inner Harbor Floodwalls	Structural				X
Canton Floodwalls	Structural				Х
Fells Point Floodwalls	Structural				X
Martin State Airport Perimeter Road Elevation (Baltimore County)	Structural				X

In December 2021, USACE developed an EFH report through the NOAA 'EFH Mapper'. Below are the list of species and life stages found at the location used for the mapper. Additionally, the Atlantic sturgeon and the short-nosed sturgeon were identified through the Endangered Species Act (ESA) Section 7 mapper as potentially occurring within the study area.

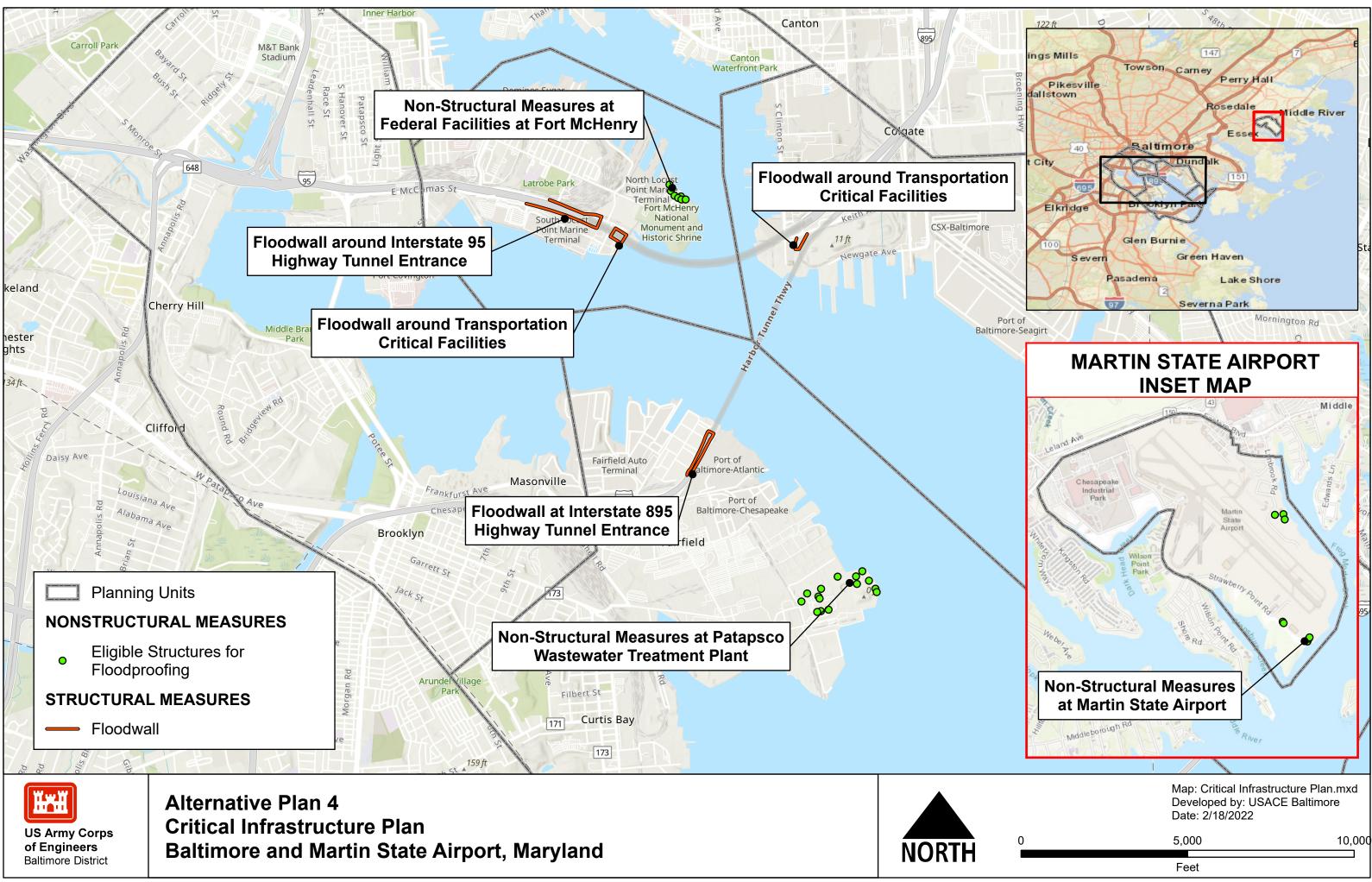
EFH Species	Life Stage	
Atlantic Butterfish	Adult, larvae, eggs	
Atlantic Herring	Adult, juvenile	
Black Sea Bass	Adult, juvenile	
Bluefish	Adult, juvenile	
Clearnose Skate	Adult, juvenile	
Little Skate**	Adult	
Red Hake	Adult, juvenile, eggs, larvae	
Scup	Adult, juvenile	
Summer flounder*	Adult, juvenile, larvae	
Windowpane Flounder	Adult, juvenile	
Winter Skate**	Adult	
* = Habitat Areas of Particular Concern (HAP	C)	
** = No longer have EFH designated in the Ch	esapeake Bay, per the Final Omnibus EFH	
Amendment 2 dated October 25, 2017 (NEFMC2017) and codified in 50 CFR Part 648 et seq.		
(Info provided by Jonathan Watson to Chris Jo	hnson, via email on December 29, 2021).	

Although the species listed above may exist within the vicinity of study areas, there will be no in-water construction, mobilization, or placement of structures during the life of the study. Additionally, state, county, and/or City best management practices and guidelines, as well as erosion and sediment control measures will be followed during the construction process. For these reasons, USACE is seeking concurrence from NOAA Fisheries that no further EFH assessments, worksheets, or coordination are required to complete this study. In the unlikely event changes to the proposed alternatives or the methods of construction occur, USACE will re-engage with your office to re-initiate coordination.

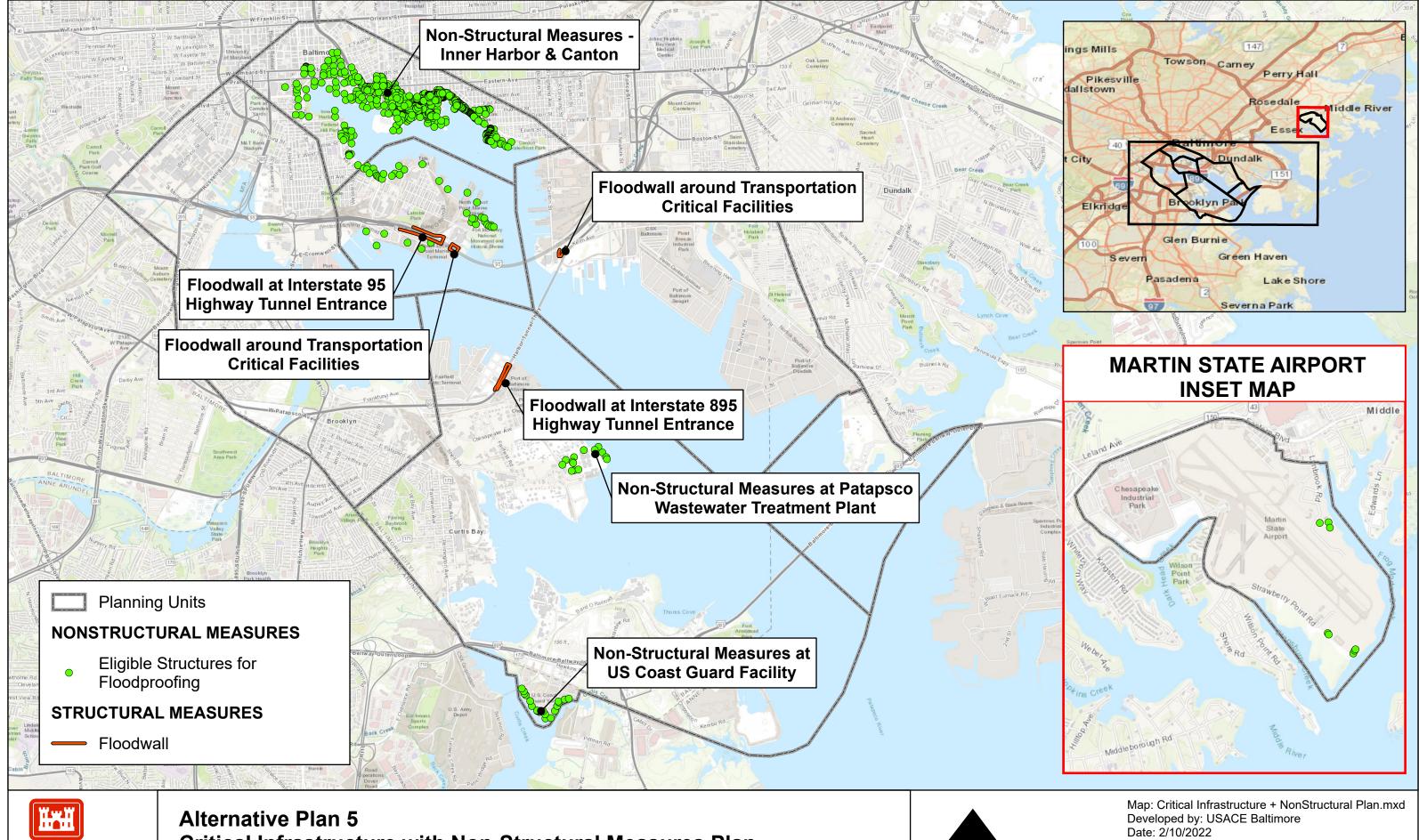
As mentioned previously, an Integrated Feasibility Report/Environmental Assessment will be drafted for this project, including the alternatives. USACE will notify your office when the draft document is available for review, and we would welcome any comments your office may have. If you have any questions about USACE's proposed course of action for NOAA Fisheries resources as they pertain to this project, please contact Chris Johnson by email at Christopher.a.johnson@usace.army.mil, or by phone (443-807-7461).

Sincerely,

Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division





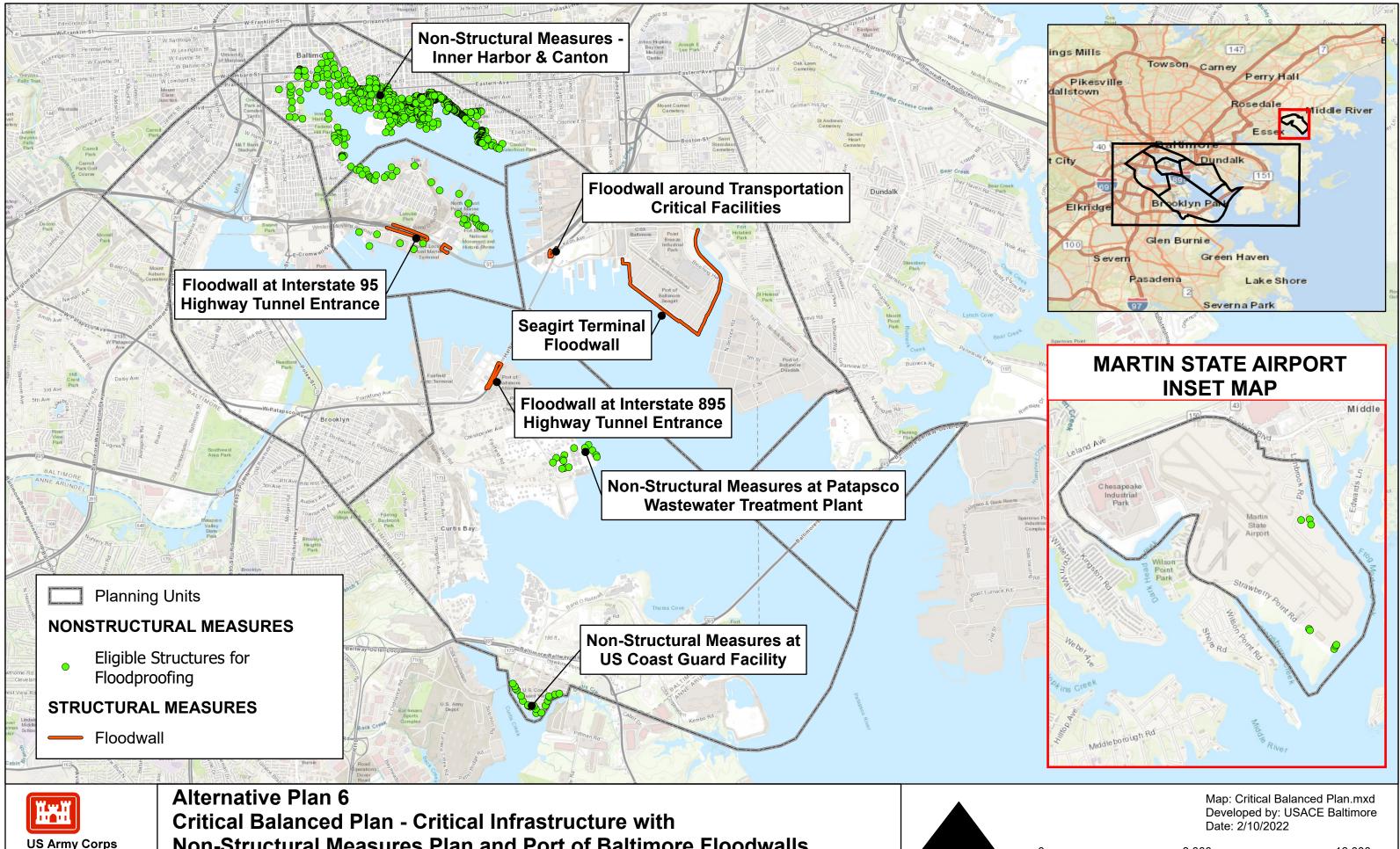


US Army Corps of Engineers Baltimore District

Critical Infrastructure with Non-Structural Measures Plan Baltimore & Martin State Airport, Maryland



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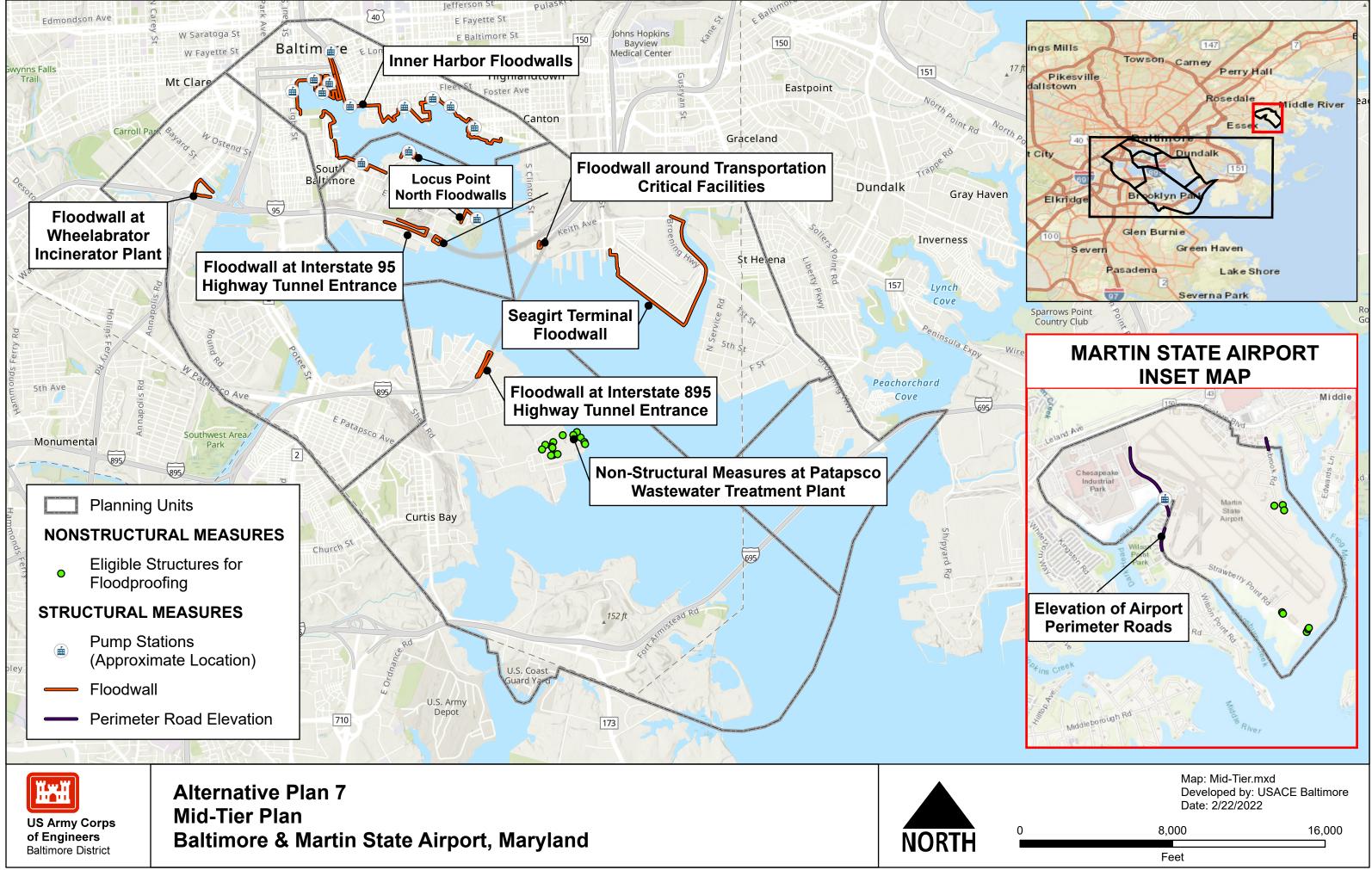


US Army Corps of Engineers Baltimore District

Non-Structural Measures Plan and Port of Baltimore Floodwalls Baltimore & Martin State Airport, Maryland



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Hi Jonathan,

Thank you for your quick response! The email correspondence below will suffice for our efforts. Again, if any changes to the project occurs, we will be sure to reach back out.

Thanks again,

Chris Johnson Biologist U.S. Army Corps of Engineers Baltimore District, Planning Division 2 Hopkins Plaza Baltimore, MD 21201 Phone: (410) 962-2926 Email: christopher.a.johnson@usace.army.mil

From: Jonathan Watson - NOAA Federal <jonathan.watson@noaa.gov> Sent: Friday, March 4, 2022 3:18 PM To: Johnson, Christopher A CIV USARMY CENAB (USA) <Christopher.A.Johnson@usace.army.mil> Cc: Ciaramellano Campbell, Vanessa M CIV USARMY CENAB (USA) <Vanessa.M.Campbell@usace.army.mil>; Karen Greene - NOAA Federal <karen.greene@noaa.gov>

Subject: Re: [URL Verdict: Neutral][Non-DoD Source] Re: Baltimore Coastal Storm Risk Management Study

Hi Chris,

Thank you for providing this information regarding the Baltimore Coastal Storm Risk Management Study. Based on the information presented in the documents provided and the fact that no in-water work is proposed, we concur that these projects will not directly affect essential fish habitat (EFH) which we work to protect under the authority of the Magnuson Stevens Fisheries Conservation and Management Act. As indicated in your letter, please reconsult with us should project plans change such that effects to EFH are anticipated. Finally, please let us know if you require indicating our concurrence for your records, or if this correspondence will suffice.

Best regards,

Jonathan Watson

On Thu, Mar 3, 2022 at 4:36 PM Johnson, Christopher A CIV USARMY CENAB (USA) <<u>Christopher.A.Johnson@usace.army.mil</u>> wrote:



Brian D. Hopper Protected Resources Division NOAA Fisheries Greater Atlantic Regional Fisheries Office 200 Harry S Truman Parkway, Suite 460 Annapolis, MD 21401 March 16, 2022

Dear Mr. Hopper:

In compliance with the National Environmental Policy Act (NEPA), the U.S. Army Corps of Engineers (USACE) Baltimore District, is preparing an Integrated Feasibility Study/ Environmental Assessment for the Baltimore Coastal Storm Risk Management Study in Baltimore, MD. This study originally began in August 2019. The study was paused in February 2020 because of an interruption in funding. Funding was restored and the study re-started in July 2021, and shortly thereafter, coordination with the agencies resumed. On December 28, 2021, USACE (Chris Johnson, Biologist) re-initiated coordination with NOAA Fisheries – Protected Resources Division (Brian Hopper) via email. The email included information pertaining to past coordination efforts with NOAA Fisheries – Protected Resources Division from November 2019, and asked Mr. Hopper for the necessary processes to ensure protected and endangered species coordination and documentation was performed accurately and thoroughly as the study progresses.

To reiterate, the study's purpose is to reduce coastal flood risk to vulnerable populations, properties, infrastructure, and environmental and cultural resources, while considering future climate and sea level change scenarios. Two separate study areas are being analyzed for this study; Baltimore City and Martin State Airport, the latter being located in Baltimore County. The objectives for the Baltimore City portion of the study area include reducing economic damages associated with coastal flooding to residential, commercial, industrial, and government buildings while also protecting critical infrastructure, such as utilities, roadways, and electronic services. The objective of the Martin State Airport portion of the study area is to reduce coastal flooding impacts that may disrupt or damage transportation and emergency service infrastructure and assets that support the airport. The initial array of 11 alternatives were screened down to four (Alternatives 4-7). The alternatives and their locations are listed in the table below:

Location	Structural/Non- Structural	Alt 4	Alt 5	Alt 6	Alt 7
Patapsco Wastewater Treatment Plant	Non-Structural	Х	Х	X	X
Martin State Airport (Baltimore County)	Non-Structural	X	Х	X	X
Fort McHenry	Non-Structural	Х	Х	X	
Inner Harbor	Non-Structural		Х	X	
Canton	Non-Structural		Х	X	
US Coast Guard Yard	Non-Structural		X	X	Х
I-895 & I-95 Tunnel Entrances Floodwall	Structural	Х	Х	X	X
Seagirt Terminal Floodwall	Structural			X	X
Inner Harbor Floodwalls	Structural				Х
Canton Floodwalls	Structural				Х
Fells Point Floodwalls	Structural				Х
Martin State Airport Perimeter Road Elevation (Baltimore County)	Structural				X

In December 2021, USACE developed a Section 7 Consultation report through the NOAA Endangered Species Act (ESA) Section 7 Mapper. Below are the list of species and life stages found at the location used for the mapper.

ESA Species	Life Stage	Behavior
Atlantic Sturgeon	Adult, Subadult, Juvenile	Migrating & Foraging
Shortnose Sturgeon	Adult	Migrating, Foraging, Overwintering

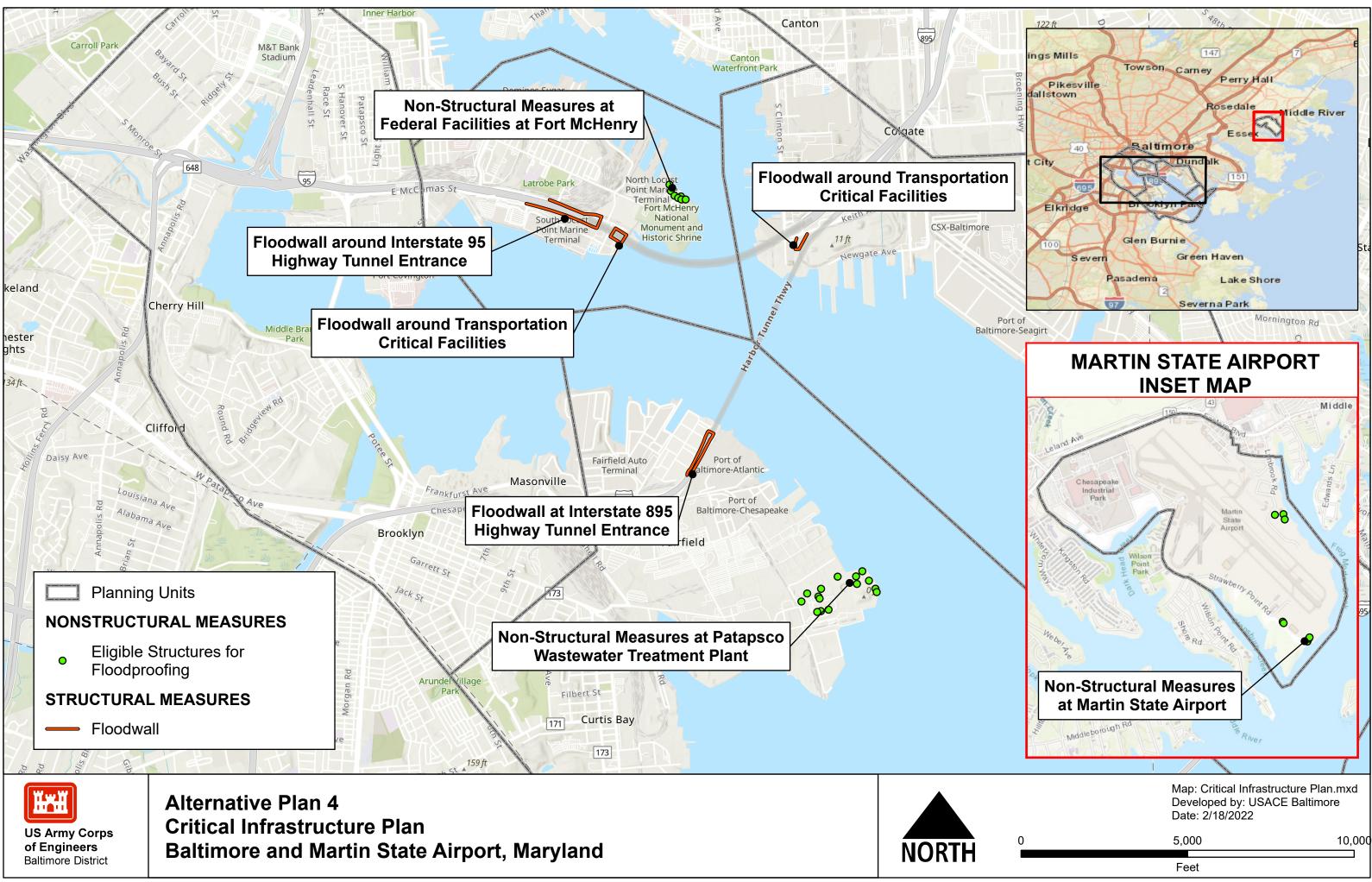
Although the species listed above may exist within the vicinity of study areas, there will be no in-water construction, mobilization, or placement of structures during the life of the project. Additionally, state, county, and/or City best management practices and guidelines, as well as erosion and sediment control measures will be followed during the construction process. For these reasons, USACE is seeking concurrence from NOAA Fisheries – Protected Resources Division that no further ESA Section 7 coordination is required to complete this study. In the unlikely event changes to the proposed alternatives or the methods of construction occur, USACE will re-engage with your office to re-initiate coordination.

As mentioned previously, an Integrated Feasibility Study/Environmental Assessment will be drafted for this project, including the alternatives. USACE will notify your office when the draft document is available for review, and we would welcome any comments your office may have. If you have any questions about USACE's proposed course of action for ESA resources as they pertain to this project, please contact Chris Johnson by email at Christopher.a.johnson@usace.army.mil, or by phone (443-807-7461).

Sincerely,

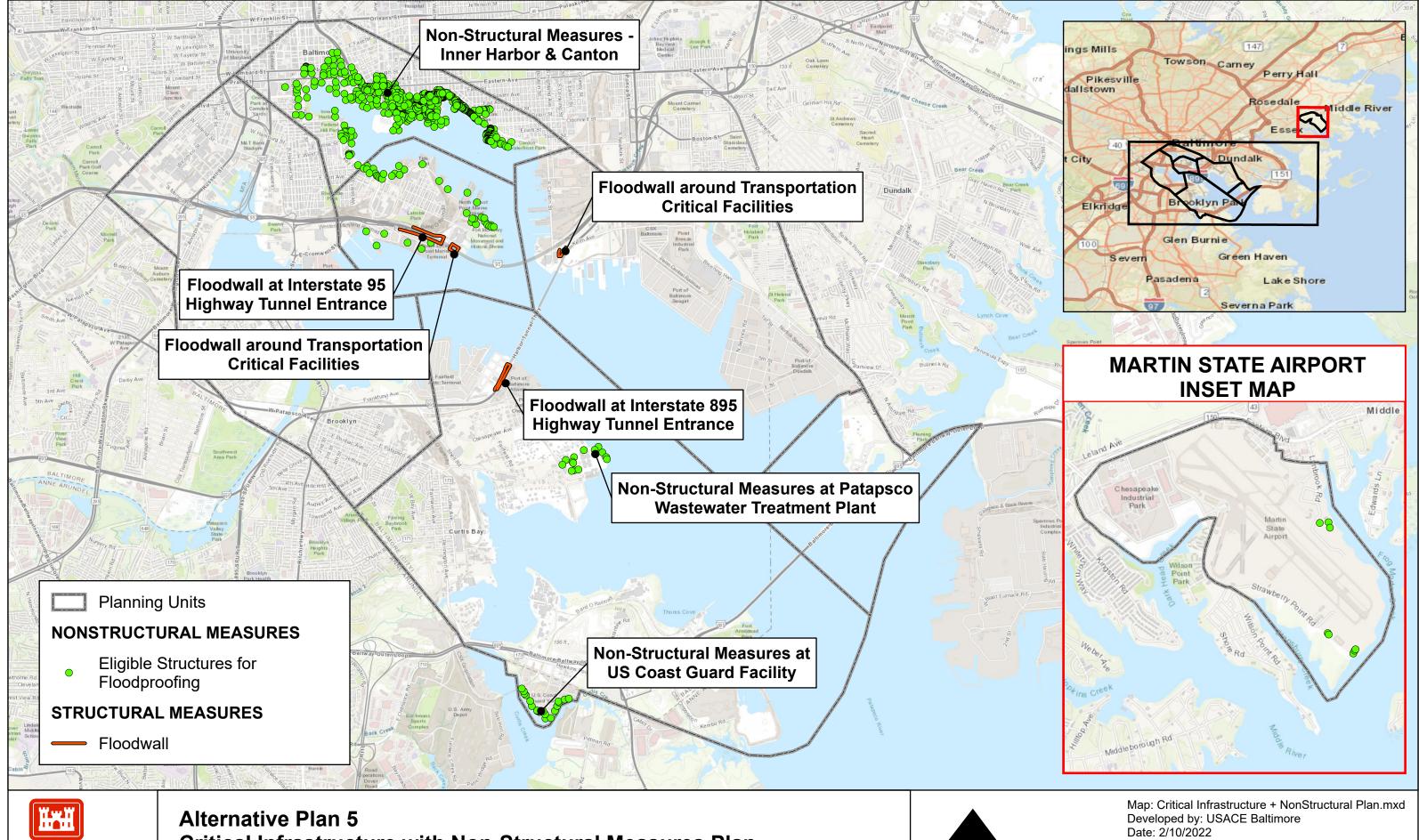
Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division

Enclosure: Site Maps







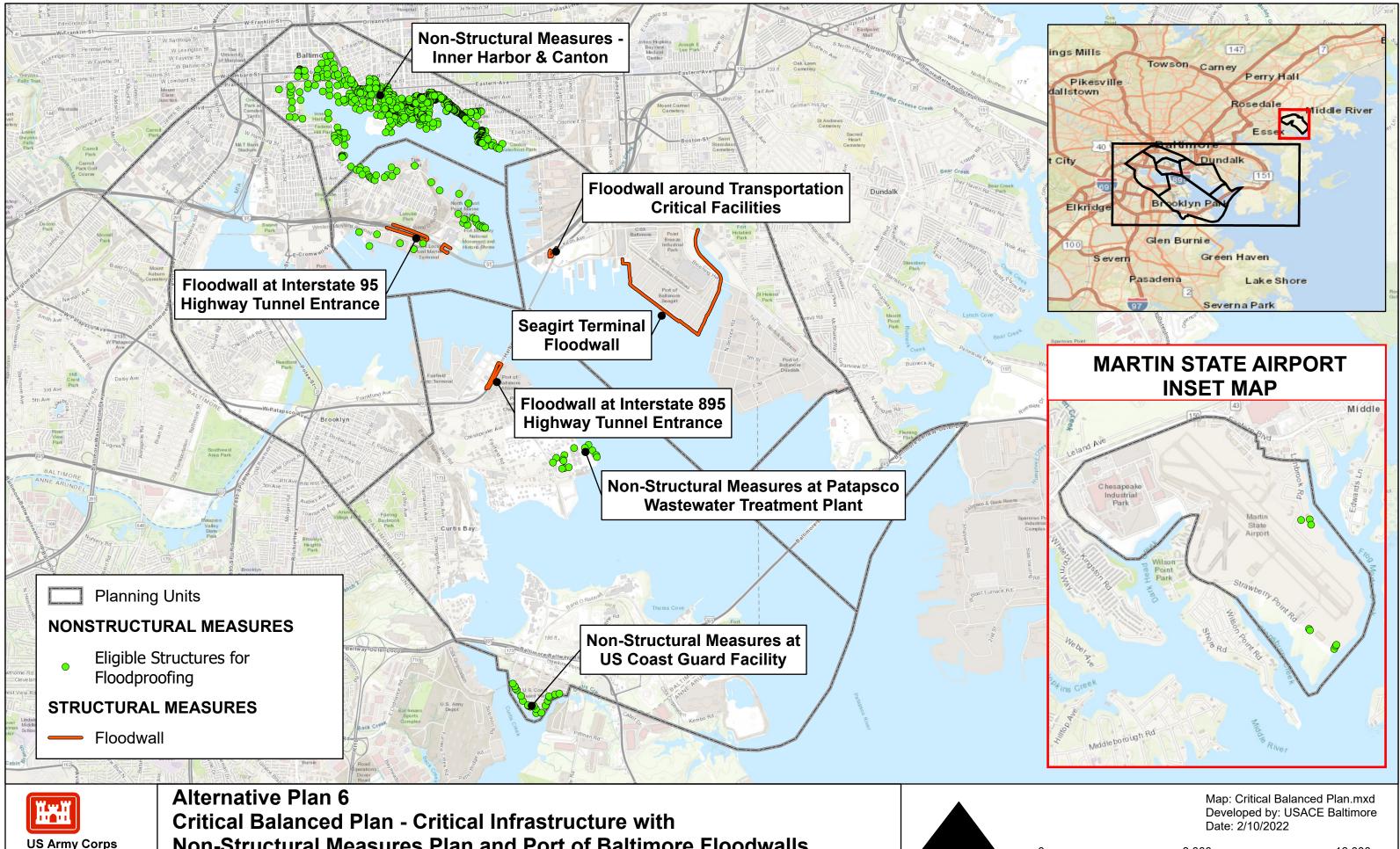


US Army Corps of Engineers Baltimore District

Critical Infrastructure with Non-Structural Measures Plan Baltimore & Martin State Airport, Maryland



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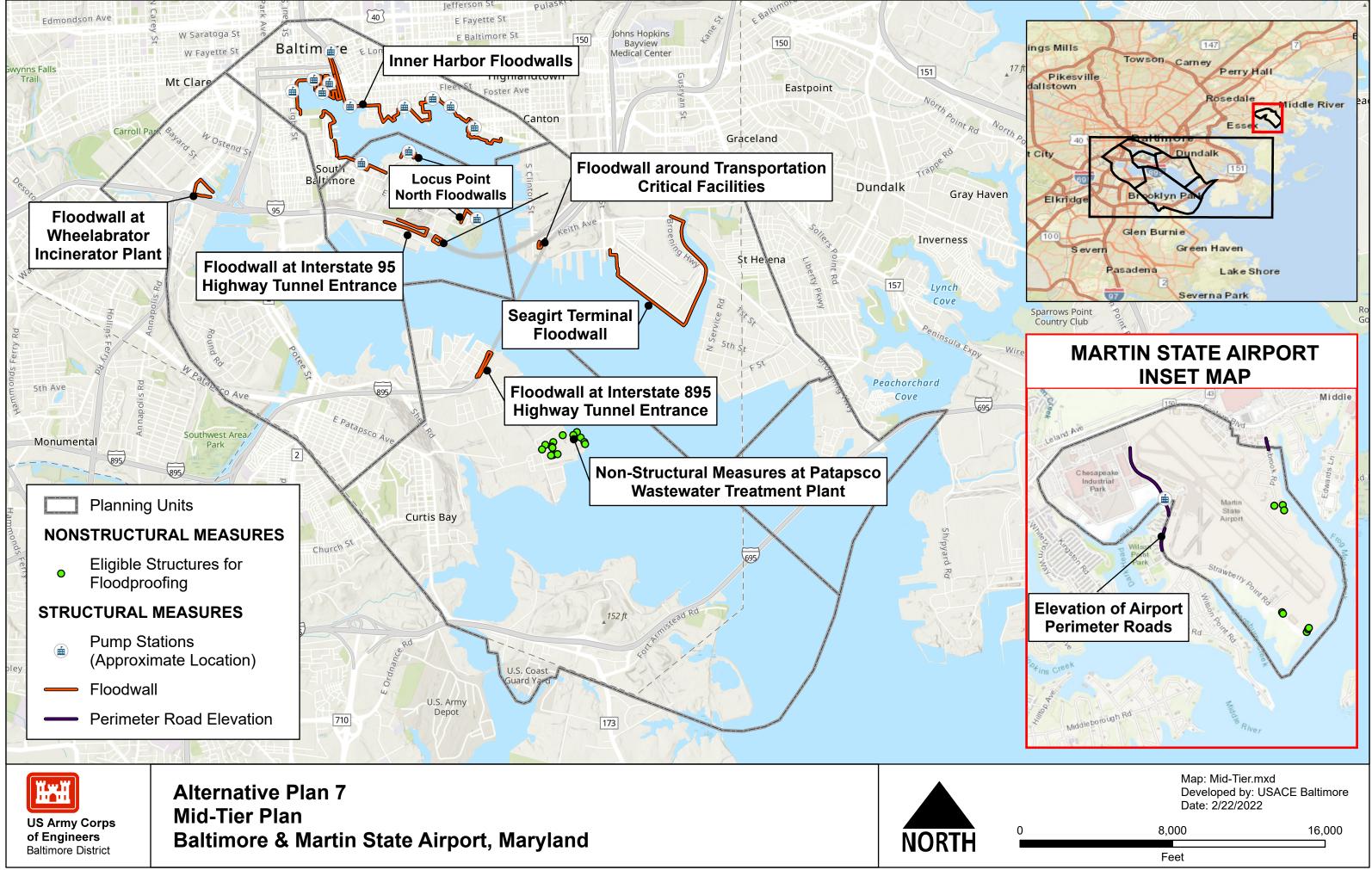


US Army Corps of Engineers Baltimore District

Non-Structural Measures Plan and Port of Baltimore Floodwalls Baltimore & Martin State Airport, Maryland



0	8,000	16,000
	Feet	





From:	Brian D Hopper - NOAA Federal
То:	Johnson, Christopher A CIV USARMY CENAB (USA)
Cc:	Ciaramellano Campbell, Vanessa M CIV USARMY CENAB (USA), Jonathan Watson - NOAA Federal
Subject:	[URL Verdict: Neutral][Non-DoD Source] Re: Baltimore Coastal Storm Risk Management Study
Date:	Thursday, March 17, 2022 8:00:41 AM

Hi Chris,

Thank you for providing the project information. My sincerest apologies for not reaching out sooner, but I've got two formal consultations running back to back and they are taking up 100% of my time. Anyway, your email and letter dated March 16, 2022, regarding the Army Corps' proposed Baltimore Coastal Storm Risk Management Study in Baltimore, MD, requested information on the presence of ESA-listed species under our jurisdiction.

Although four species of sea turtles, shortnose sturgeon, and Atlantic sturgeon originating from five Distinct Population Segments (DPS) are known to occur in the Chesapeake Bay and its rivers and tributaries, based on the activities associated with the project, the location the project, and information you provided in your letter and email, we believe that these species will not be exposed to any direct or indirect effects of the action. Therefore, we do not believe a consultation in accordance with section 7 of the Endangered Species Act (ESA) is necessary. As such, no further coordination on this activity with the NMFS Protected Resources Division is necessary at this time. Should there be additional changes to the project plans or new information becomes available that changes the basis for this determination, further coordination should be pursued. Please contact me (brian.d.hopper@noaa.gov), should you have any questions regarding these comments. If you have any questions about essential fish habitat, please contact Jonathan Watson in our Habitat and Ecosystems Services Division's Annapolis Field Office (jonathan.watson@noaa.gov, 410-295-3152).

Regards, -Brian

On Wed, Mar 16, 2022 at 4:15 PM Johnson, Christopher A CIV USARMY CENAB (USA) <<u>Christopher.A.Johnson@usace.army.mil</u>> wrote:

Good Afternoon Brian,

It's been a few weeks since we last spoke and I know we've been trying to schedule a meeting to discuss the Baltimore CSRM project but I understand we just haven't been able to sync up. So I'm reaching out today to provide some more information in regard to the project.

We've started to solidify our alternatives but are still working towards selecting our tentatively selected plan. As we've worked through the alternatives, we've come to the realization that we will have no in-water construction, mobilization, or placement of structures during the entirety of this study. For these reasons, USACE is seeking concurrence from your agency that no further ESA (Section 7) assessments are required to complete this study. I attached a coordination letter and site maps to this email for your review, reference, and comment at your earliest convenience. If you have any questions, please feel free to reach out to me via email or phone.



DEPARTMENT OF THE ARMY CORPS OF ENGINEERS, BALTIMORE DISTRICT 2 HOPKINS PLAZA BALTIMORE, MD 21201

June 1, 2022

Lori Byrne, Environmental Review Specialist Wildlife and Heritage Service Maryland Department of Natural Resources 580 Taylor Avenue Tawes State Office Building E-1 Annapolis, MD 21401 Lori.byrne@maryland.gov

Dear Ms. Byrne:

The U.S. Army Corps of Engineers, Baltimore District (USACE), in cooperation with the Maryland Department of Transportation (MDOT), has restarted a feasibility study to examine the Baltimore metropolitan area for problems, needs, and opportunities for improvements related to coastal storm risk. This study originally began in August 2019. The study was paused in February 2020 because of an interruption in funding. Funding was restored and the study re-started in July 2021. The study's purpose is to reduce coastal flood risk to vulnerable populations, properties, infrastructure, and environmental and cultural resources, while considering future climate and sea level change scenarios. More information on the Baltimore Metropolitan Coastal Storm Risk Management Study can be found at: https://www.nab.usace.army.mil/missions/civil-works/baltimore-coastal-study/.

This effort is a spin-off study of the North Atlantic Coast Comprehensive Study (NACCS) that was completed in January 2015 and was commissioned by Congress as part of Hurricane Sandy recovery. The purpose of NACCS was to help local communities better understand their changing flood risks due to climate change and provide them tools to be better prepared for the future. The Baltimore metropolitan region was one of nine high-risk areas identified in NACCS as needing further analysis. More information on the NACCS can be found at: https://www.nad.usace.army.mil/CompStudy/.

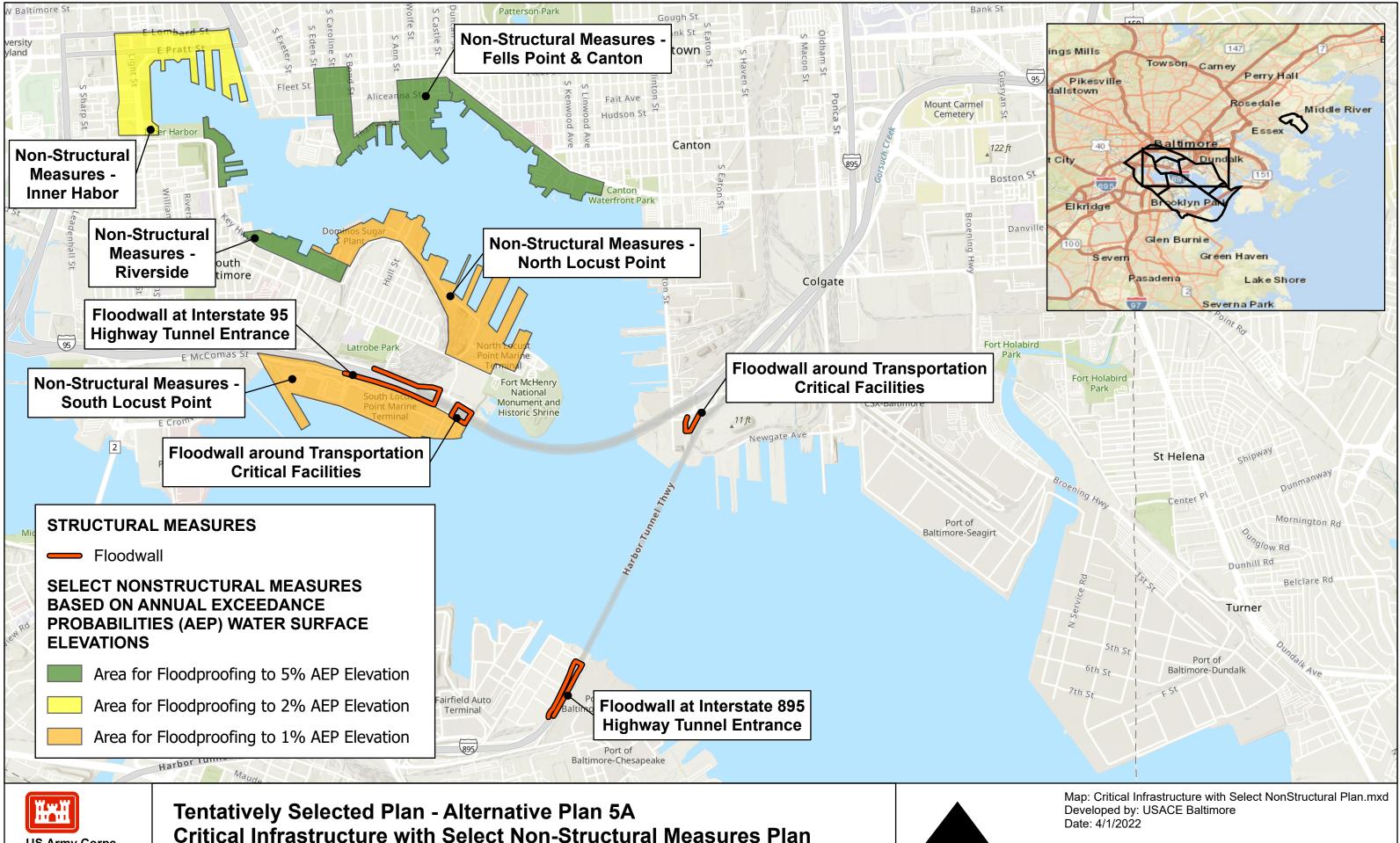
As part of the feasibility study, USACE will prepare an Integrated Feasibility Report (IFR) and Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) of 1969, as amended. An initial array of 11 alternatives was screened down to four, and as of earlier this month, a Tentatively Selected Plan (TSP) was selected (please see enclosure). The TSP will include structural floodwalls around the I-95 and I-895 tunnel entrances and associated critical infrastructure, and nonstructural floodproofing measures along areas within Locust Point, Riverside, Inner Harbor, Canton, and Fells Point. It should be noted that no in-water work is anticipated with this study. USACE would like to request information or comments from your agency that may assist us with the Baltimore Metropolitan Coastal Storm Risk Management Study NEPA document. Following your review, we would appreciate an opinion as to whether any rare, threatened, endangered, or species in need of conservation exist within the study area.

We look forward to the receipt of your findings and appreciate your assistance with this matter. If additional information is required, please do not hesitate to contact Chris Johnson at (443) 807-7461 or at Christopher.a.johnson@usace.army.mil.

Sincerely,

Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division

Enclosures



US Army Corps of Engineers Baltimore District

Critical Infrastructure with Select Non-Structural Measures Plan Baltimore, Maryland



0	3,000	6,000
	Feet	



Larry Hogan, Governor Boyd Rutherford, Lt. Governor Jeannie Haddaway-Riccio, Secretary Allan Fisher, Deputy Secretary

July 15, 2022

Mr. Christopher A. Johnson U.S. Army Corps of Engineers Baltimore District, Planning Division 2 Hopkins Plaza Baltimore, MD 21201

RE: Environmental Review for Baltimore Coastal Storm Risk Management Study (Alternative Plan 5A), Baltimore City and County, Maryland.

Dear Mr. Johnson:

The Wildlife and Heritage Service has no official records for State or Federal listed, candidate, proposed, or rare plant or animal species within the project area shown on the map provided. As a result, we have no specific concerns regarding potential impacts to such species or recommendations for protection measures at this time. If the project changes in the future such that the limits of proposed disturbance or overall site boundaries are modified, please provide us with revised project maps and we will provide you with an updated evaluation.

Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at <u>lori.byrne@maryland.gov</u> or at (410) 260-8573.

Sincerely,

Louia. Bym

Lori A. Byrne, Environmental Review Coordinator Wildlife and Heritage Service MD Dept. of Natural Resources

ER# 2022.0877.bc/ba Cc: C. Jones, CAC



DEPARTMENT OF THE ARMY CORPS OF ENGINEERS, BALTIMORE DISTRICT 2 HOPKINS PLAZA BALTIMORE, MD 21201

June 1, 2022

Matt Wallach Natural Resources Planner Tidal Wetlands Division Maryland Department of the Environment 1800 Washington Boulevard Baltimore, Maryland 21230 matthew.wallach@maryland.gov

Dear Mr. Wallach:

The U.S. Army Corps of Engineers, Baltimore District (USACE), in cooperation with the Maryland Department of Transportation (MDOT), has restarted a feasibility study to examine the Baltimore metropolitan area for problems, needs, and opportunities for improvements related to coastal storm risk. This study originally began in August 2019. The study was paused in February 2020 because of an interruption in funding. Funding was restored and the study re-started in July 2021. The study's purpose is to reduce coastal flood risk to vulnerable populations, properties, infrastructure, and environmental and cultural resources, while considering future climate and sea level change scenarios. More information on the Baltimore Metropolitan Coastal Storm Risk Management Study can be found at: https://www.nab.usace.army.mil/missions/civil-works/baltimore-coastal-study/.

This effort is a spin-off study of the North Atlantic Coast Comprehensive Study (NACCS) that was completed in January 2015 and was commissioned by Congress as part of Hurricane Sandy recovery. The purpose of NACCS was to help local communities better understand their changing flood risks due to climate change and provide them tools to be better prepared for the future. The Baltimore metropolitan region was one of nine high-risk areas identified in NACCS as needing further analysis. More information on the NACCS can be found at: <u>https://www.nad.usace.army.mil/CompStudy/</u>.

As part of the feasibility study, USACE will prepare an Integrated Feasibility Report (IFR) and Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) of 1969, as amended. An initial array of 11 alternatives was screened down to four, and a Tentatively Selected Plan (TSP) was selected (please see enclosure). The TSP will include structural floodwalls around the I-95 and I-895 tunnel entrances and associated critical infrastructure, and nonstructural floodproofing measures along areas within Locust Point, Riverside, Inner Harbor, Canton, and Fells Point. It should be noted that no in-water work is anticipated with this project.

Between the months of March and May of 2022, USACE (Chris Johnson, Biologist) spoke with Mr. Wallach via teleconference regarding potential impacts to tidal wetlands and/or impacts to areas within the Maryland 1972 Tidal Wetlands Boundary. A specific area of concern was identified east of the Ft. McHenry West Ventilation Building. Based on the information provided by Chris Johnson on the proposed project impacts, it was determined through verbal coordination with Mr. Wallach that USACE will not need to apply for a tidal wetland permit through MDE's Tidal Wetland Division. This is based on the premise that

the project impacts will be negligible and will not have any impacts to tidal wetlands or impacts within the Maryland 1972 Tidal Wetland Boundary. In the unlikely event changes to the proposed alternatives or the methods of construction occur, USACE will re-engage with your office to re-initiate coordination. If all accounts and statements presented in this letter are accurate, we look forward to receiving your concurrence. If additional information is required, please do not hesitate to contact Chris Johnson at (443) 807-7461 or at Christopher.a.johnson@usace.army.mil.

Sincerely,

Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division

Enclosure

From:	Matthew Wallach -MDE-
То:	Johnson, Christopher A CIV USARMY CENAB (USA)
Cc:	Tammy Roberson - MDE-
Subject:	[URL Verdict: Neutral][Non-DoD Source] Re: Baltimore Coastal coordination lette
Date:	Wednesday, June 1, 2022 4:49:07 PM

Hi Chris,

Thank you for discussing the project and for providing the map and Agency Coordination Letter. Below is a response to confirm what was previously discussed. I cc'd my Chief, Tammy Roberson on this email.

Thank you again for sharing the proposed floodwall project with MDE. As we discussed, a section of the project overlaps State Tidal Wetlands as was determined in the Maryland 1972 Tidal Wetland Maps. The State of Maryland reserves the right to regulate any fastland that was previously documented as State Tidal Wetlands in 1972, including any projects proposed in, on, over, or under the land that was previously State Tidal Wetlands. However, in this case, after discussing the proposal, we determined that the area in question is relatively small, is functioning as uplands, and no impacts are proposed to any area functioning as State Tidal Wetlands. Based on this, we determined that the State would not require review or authorization for the proposed work. This determination was made solely for this project based on how it was presented to the Department. Any future projects may have a different determination and if the scope of this project changes, the Department reserves the right to request an application to review the proposed work.



On Wed, Jun 1, 2022 at 1:22 PM Johnson, Christopher A CIV USARMY CENAB (USA) <<u>Christopher.A.Johnson@usace.army.mil</u>> wrote:

Good Afternoon Matt,

I'm following up with you from our phone conversation yesterday regarding the Baltimore Coastal Storm Risk Management study and potential impacts to tidal wetlands and/or areas within the 1972 Tidal Wetland Boundary. Attached is a coordination letter with project details as well as information pertaining to our phone conversations. Just to reiterate, this letter is to close the loop on any potential impacts to tidal wetlands or within the '72 boundary for our (USACE's) records. If all the information in the letter is correct and you're comfortable with how everything is stated, can you please provide your concurrence in either an email response back to me or in a letter, whichever is easiest for you.

Thanks again for all your help with this process and please feel free to reach out with any questions or concerns.

Chris Johnson

Biologist

U.S. Army Corps of Engineers

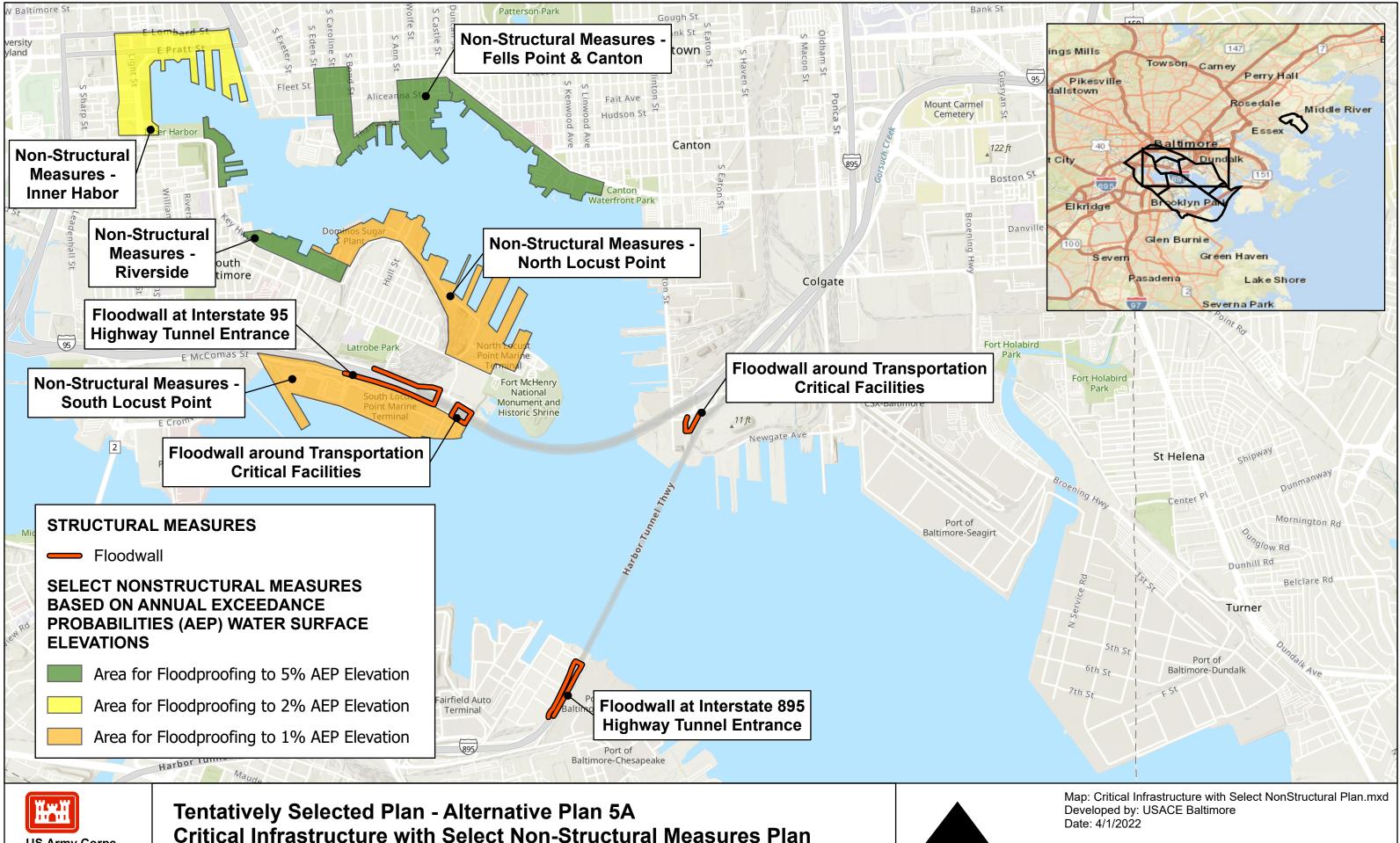
Baltimore District, Planning Division

2 Hopkins Plaza Baltimore, MD 21201

Phone: (410) 962-2926

Email: christopher.a.johnson@usace.army.mil

<u>Click here</u> to complete a three question customer experience survey.



US Army Corps of Engineers Baltimore District

Critical Infrastructure with Select Non-Structural Measures Plan Baltimore, Maryland



0	3,000	6,000
	Feet	

From:	Danielle Spendiff -MDE-
To:	Johnson, Christopher A CIV USARMY CENAB (USA)
Cc:	Kristen Fleming -DNR-; Ciaramellano Campbell, Vanessa M CIV USARMY CENAB (USA)
Subject:	Re: [URL Verdict: Neutral][Non-DoD Source] USACE Baltimore CSRM Study- Federal Consistency Determination
Date:	Wednesday, February 22, 2023 8:33:11 AM

Yes this is the official concurrence- thanks!

On Tue, Feb 21, 2023 at 3:56 PM Johnson, Christopher A CIV USARMY CENAB (USA) <<u>Christopher.A.Johnson@usace.army.mil</u>> wrote:

Hi Danielle,

Thank you for the update! Can I use this email as the official consistency concurrence for the project?

Thanks again!

Chris Johnson

Biologist

U.S. Army Corps of Engineers

Baltimore District, Planning Division

2 Hopkins Plaza Baltimore, MD 21201

Office: (410) 962-2926

Cell: (443) 807-7461

Email: christopher.a.johnson@usace.army.mil

From: Danielle Spendiff -MDE- <<u>danielle.spendiff1@maryland.gov</u>>
Sent: Friday, February 17, 2023 7:04 PM
To: Johnson, Christopher A CIV USARMY CENAB (USA)
<<u>Christopher.A.Johnson@usace.army.mil</u>>
Cc: Kristen Fleming -DNR- <<u>kristen.fleming@maryland.gov</u>>
Subject: [URL Verdict: Neutral][Non-DoD Source] USACE Baltimore CSRM StudyFederal Consistency Determination

Hello Chris,

I am responding to your request for Federal consistency concurrence under CZMA for the following US Army Corps of Engineers (USACE) project located in Baltimore, MD:

USACE Baltimore Coastal Storm Risk Management Study, Tentatively Selected Plan - Alternative Plan 5A: Critical Infrastructure with Select Non-Structural Measures Plan. Structural measures include floodwall installation around transportation critical facilities; nonstructural measures include floodproofing in various locations.

Based on our review of the information provided, the activities described above are consistent with the enforceable coastal policies of the Maryland Coastal Zone Management Program (including but not limited to, TP1 – Sustainability Analysis of Transportation Projects, TP2 – Public Engagement in Transportation Project Planning, TP3 – Projects Must Support Multi-Modal Transportation, TP5 – Transportation Projects Must Consider the Needs of Bicyclists & Pedestrians, and 5.1.4 - Flood Hazards & Community Resilience Policies), subject to the following conditions:

• These projects must comply with all applicable Critical Area Policies under 5.2.1, "The Chesapeake and Atlantic Coastal Bays Critical Area" to the maximum extent practicable

Please note that this determination does not obviate the applicant's responsibility to obtain any other State or local approvals that may be necessary for the project.

If you have any questions regarding this determination, please do not hesitate to contact me.

Thank you,

--



Danielle A. Spendiff

Chief, Regulatory & Customer Service Division Federal Consistency Coordinator Water & Science Administration Maryland Department of the Environment 1800 Washington Boulevard Baltimore, Maryland 21230 danielle.spendiff1@maryland.gov 410-537-4023 (O) 410-913-8524 (M) Website | Facebook | Twitter

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Click here to complete a three question customer experience survey.

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Danielle A. Spendiff Chief, Regulatory & Customer Service Division Federal Consistency Coordinator Water & Science Administration Maryland Department of the Environment 1800 Washington Boulevard Baltimore, Maryland 21230 danielle.spendiff1@maryland.gov 410-537-4023 (O) 410-913-8524 (M) Website | Facebook | Twitter

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United States Department of the Interior



FISH AND WILDLIFE SERVICE

Chesapeake Bay Field Office 177 Admiral Cochrane Drive Annapolis, Maryland 21401 http://www.fws.gov/chesapeakebay

April 6, 2022

Colonel Estee S. Pinchasin District Engineer U.S. Army Corps of Engineers 10 South Howard Street Baltimore, MD 21201

Attn: Charles Leasure, Environmental Team Lead, Planning Division

RE: U.S. Fish and Wildlife Coordination Act 2(b) Report for the Baltimore Coastal Storm Risk Management Feasibility Study

Dear Colonel Pinchasin:

This letter constitutes the report of the U.S. Fish and Wildlife Service (Service) on the proposed Baltimore Coastal Storm Risk Management Feasibility Study in Baltimore City, MD. It is submitted in accordance with Section 2(b) of the Fish and Wildlife Coordination Act (48 Stat 401, as amended; 16 U.S.C. *et seq.*) and Section 7 of the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1513 *et seq.*). The present report summarizes pertinent information and sets forth the Service's official position on the U.S. Corps of Engineers, Baltimore Districts (Corps) recommended plan as described below.

Project Description

The U.S. Army Corps of Engineers (Corps) requested assistance from the U.S. Fish and Wildlife Service (Service) in identifying positive and/or negative effects from a project along the Baltimore metro area within the City of Baltimore, Anne Arundel County and Baltimore County. The objective of this study is to investigate coastal flooding problems, needs and potential solutions for key locations in the Baltimore coastal study area. The Baltimore Coastal Study is a 3-year, \$3 million study cost-shared evenly between the U.S. Army Corps of Engineers, Baltimore District, and the Maryland Department of Transportation, which is the non-Federal sponsor. A Federal cost-sharing agreement was signed in August 2019 between the agencies. The effort is a spin-off study of the 2-year North Atlantic Coast Comprehensive Study (NACCS) that was completed in January 2015 and was commissioned by Congress as part of Hurricane Sandy recovery. The purpose of NACCS was to help local communities better understand their changing flood risks due to climate change and provide them tools to be better prepared for the future. The Baltimore metropolitan region was one of nine high-risk areas identified in NACCS as needing further analysis. The goal is to reduce coastal flood risk at key locations to people, properties, infrastructure and resources in the study area, considering future



climate and sea level change scenarios. The intent of this study is to identify alternative plans to reduce coastal storm risk in a way that supports long-term resilience and sustainability of communities and ecosystems.

The tentatively selected plan (TSP) is a combination of certain components from previously proposed Alternative 5, and is being referred to as Alternative 5B, Critical Infrastructure and Select Nonstructural Plan. The structural components are floodwalls around the I-95 and I-895 tunnel entrances and associated critical infrastructure such as tunnel ventilation buildings. The nonstructural components associated with this alternative are floodproofing of select structures in the Inner Harbor, Canton, Fells Point and Locust Point areas. These were grouped into structures vulnerable under three storm scenarios and yielded the highest net benefits from areas proposed under the TSP (Appendix). As for the components previously discussed with the Corps regarding Martin State Airport, those are currently not included in the TSP and therefore will not be discussed in this document.

Service Comments

The Service reviewed the Feasibility Study with the objective of identifying the alternative that would meet the purpose and need while providing the largest benefit to fish and wildlife habitat. Under further discussion with the Corps, because the alternative proposed is in highly developed area with little wildlife value, it was agreed upon that a Fish and Wildlife Coordination Act letter would stand in place of a Planning Aid Report. This letter will still discuss potential for effects to fish and wildlife resources within the project area.

Within the Patapsco River, there are not any submerged aquatic vegetation (SAV) beds near the proposed project area. The Service recommends monitoring areas for runoff during construction to avoid potentially overloading the river with nutrients/sediment.

Wetland habitats are considered a trust resource, which are natural resources the Service has been entrusted with protecting for the benefit of American people. The Service's responsibility for protecting wetland habitats comes largely from the Fish and Wildlife Coordination Act; significantly concerned about wetland loss and the subsequent impacts on fish and wildlife populations. According to the February 23, 2022 data received from the National Wetlands Inventory Mapper, the main wetland type that occurs near any of the project areas are estuarine/marine deepwater wetlands. Because the project consists of construction on land, it is not expected to have negative effect on diadromous fish in the area. Major effects are not expected for wetlands, as proposed construction alternatives are only slated to place material on land. No construction is proposed to occur in the water, only on hardened shoreline. When possible, the construction should avoid placement via waterways to mitigate potential for displacement of benthic communities and fish and wildlife resources, and as previously suggested monitor any runoff during construction to avoid additional nutrient deposition to the Patapsco.

Information obtained from Atlantic Coast Joint Venture was through the American Black Duck Prioritization Tool on February 25, 2022 (Appendix). The Patapsco River portion of the project area falls within Maintenance Watersheds. These areas currently contain enough food to support black duck population objectives. Work in these areas could include restoring or protecting addition habitat should current habitat be lost or degraded. Because the project alternatives being considered are only expected to alter developed areas, areas not suitable for black duck nesting, the project alternatives are not expected to have any effect on American black ducks expected to be in that area.

This letter also considers at-risk species - species whose population is in decline but are not yet determined to be threatened or endangered. This includes species that are proposed for listing, candidates for listing, and/or petitioned for listing under the Endangered Species Act. The Service may also consider species of greatest conservation need as identified by the states. A polygon of the project area was mapped within IPaC, which generated a list of migratory birds and Birds of Conservation Concern within the Patapsco River project area. Several at-risk species were identified within the IPaC list as well, including monarch butterfly (Danaus plexippus), American oystercatcher (Haematopus pilliatus), cerulean warbler (Dendroica cerulea), Eastern whip-poor-will (Antrostomus vociferus), ruddy turnstone (Arenaria interpres morinella) and wood thrush (Hylocichla mustilina). Common terns (Sterna hirundo) and royal tern (Sterna Thalasseus maximus) also could be seen within the project area. Royal terns are not known to nest in the project area, there is an annual nesting common tern colony on a barge off the coast of Masonville Cove, it is approximately one mile from the nearest construction area. Due to the location in the TSP, because it is highly developed and does not offer suitable foraging or nesting habitat and offers a good bit of distance between the construction areas and potential nesting sites, it is not expected that this project will have any negative effects on these species.

IPaC identified only one threatened/endangered species, the northern long-eared bat (*Myotis septentrionalis*). Although it was identified in the screening, the developed area is not suitable habitat for this species, therefore it has been determined that the project is not likely to adversely affect the species. The bald eagle was also identified by IPaC due to its protection under the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. The nearest bald eagle nest to the project area is at Masonville Cove, approximately one mile from the nearest construction activity, therefore the TSP is not expected to have any affect on the bald eagle population expected to occur within the project area.

Conclusion

There are several species that are identified as utilizing the project area that are at-risk, threatened/endangered, and/or state listed as threatened or endangered. The Wildlife and Heritage Services within Maryland Department of Natural Resources is responsible for the identification and protection of these species in Maryland. Best management practices should be implemented to avoid detrimental impacts to aquatic resources, i.e., monitoring any runoff that occurs due to construction. Coordination with National Marine Fisheries Service (NMFS) is recommended regarding potential impacts to Essential Fish Habitat and NMFS trust resources. Consultation pursuant to the Endangered Species Act of 1973 will also be required with the Service if the presence of any threatened and endangered species occurs within the project area

of impact. Due to the nature of this project, and because the alternative outlined consists of construction in highly developed areas with low fish and wildlife resources, the species identified to be within the project area are not likely to be negatively impacted by this project. This alternative should minimize any adverse effects to Service trust resources and optimize for environmentally compatible options if possible. If there are any questions, please contact Amy O'Donnell, of my staff, at <u>amy_odonnell@fws.gov</u>.

Sincerely,

Genevieve LaRouche Field Supervisor

References

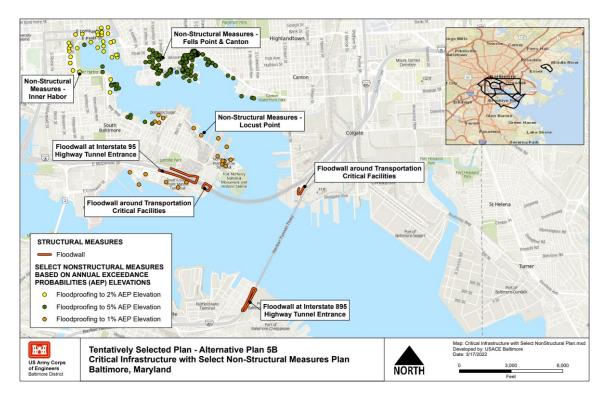
Atlantic Coast Joint Venture (ACJV) American Black Duck. 2020 https://acjv.org/americanblack-duck/ Accessed February 2022.

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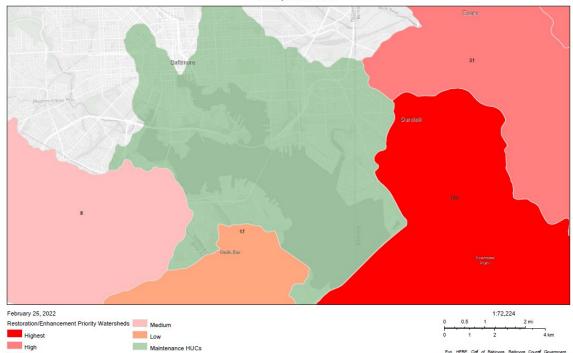
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Appendix

High



Patapsco River



Esri, HERE, Cinf of Baltimore, Baltimore County Government, Harford County Government, VITA, Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, EPA



United States Department of the Interior





.fws.gov/chesapeakebay/endsppweb/ProjectReview/Index.html

In Reply Refer To: Project Code: 2022-0003498 Project Name: Baltimore Coastal Storm Risk Management Feasibility Study February 04, 2022

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. This species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Wetlands

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Chesapeake Bay Ecological Services Field Office

177 Admiral Cochrane Drive Annapolis, MD 21401-7307 (410) 573-4599

Project Summary

-	
Project Code:	2022-0003498
Event Code:	None
Project Name:	Baltimore Coastal Storm Risk Management Feasibility Study
Project Type:	Land Preservation
Project Description:	The Baltimore Coastal Storm Risk Management Feasibility Study seeks to
	reduce coastal flood risk to vulnerable populations, properties,
	infrastructure, and environmental and cultural resources considering
	future climate and sea level rise scenarios to support resilient
	communities in Baltimore.

Project Location:

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@39.2431299000007,-76.5707463544322,14z</u>



Counties: Anne Arundel, Baltimore, and Baltimore counties, Maryland

Endangered Species Act Species

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 2 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
 Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: Projects with a federal nexus that have tree clearing = to or > 15 acres: 1. REQUEST A SPECIES LIST 2. NEXT STEP: EVALUATE DETERMINATION KEYS 3. SELECT EVALUATE under the Northern Long-Eared Bat (NLEB) Consultation and 4(d) Rule Consistency key Species profile: <u>https://ecos.fws.gov/ecp/species/9045</u> 	Threatened
Birds NAME	STATUS

Eastern Black Rail *Laterallus jamaicensis ssp. jamaicensis* No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/10477</u> Threatened

Insects

NAME

Monarch Butterfly Danaus plexippus

No critical habitat has been designated for this species.

This species only needs to be considered under the following conditions:

• The monarch is a candidate species and not yet listed or proposed for listing. There are generally no section 7 requirements for candidate species (FAQ found here: https://www.fws.gov/savethemonarch/FAQ-Section7.html).

Species profile: <u>https://ecos.fws.gov/ecp/species/9743</u>

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

STATUS

Candidate

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Wetlands

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of</u> <u>Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

FRESHWATER POND

- <u>PUBHx</u>
- <u>PUSAx</u>
- PUSCx
- <u>PUBFh</u>
- <u>PUBHh</u>
- <u>PUBH</u>
- <u>PUBFx</u>

ESTUARINE AND MARINE WETLAND

- <u>E2US2P</u>
- <u>E2USP</u>
- <u>E2USN</u>
- <u>E2EM1P6</u>
- <u>E2EM1Px</u>
- <u>E2EM1P</u>

FRESHWATER EMERGENT WETLAND

- <u>PEM1/SS1F</u>
- <u>PEM1Fx</u>
- <u>PEM1R</u>
- PEM1/SS1Cx
- <u>PEM1E</u>
- <u>PEM1D</u>
- <u>PEM1Cd</u>
- <u>PEM5A</u>
- <u>PEM1C</u>
- <u>PEM1F</u>
- <u>PEM1Eh</u>

- <u>PEM1Ch</u>
- <u>PEM1Cx</u>
- PEM1Fh
- PEM1Ax

FRESHWATER FORESTED/SHRUB WETLAND

- <u>PFO1/EM5A</u>
- <u>PFO1C</u>
- <u>PFO1R</u>
- <u>PFO1S</u>
- <u>PSS1R</u>
- <u>PFO1A</u>
- <u>PFO1Fx</u>
- <u>PFO1/SS1Ch</u>

RIVERINE

- <u>R1UBV</u>
- <u>R5UBH</u>
- <u>R4SBC</u>
- <u>R2UBH</u>
- <u>R1USQ</u>

ESTUARINE AND MARINE DEEPWATER

- <u>E1UBL</u>
- <u>E1UBLh</u>
- <u>E1UBL6</u>
- <u>E1UBLx</u>

LAKE

- <u>L1UBK</u>
- <u>L2USCh</u>

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Project information

NAME

Baltimore Coastal Storm Risk Management Feasibility Study

LOCATION

Anne Arundel, Baltimore, and Baltimore counties, Maryland



DESCRIPTION

Some(The Baltimore Coastal Storm Risk Management Feasibility Study seeks to reduce coastal flood risk to vulnerable populations, properties, infrastructure, and environmental and cultural resources considering future climate and sea level rise scenarios to support resilient communities in Baltimore.)

Local office

C: Tanphonentronontionmensionanceen

Chesapeake Bay Ecological Services Field Office

℃ √√410) 573-4599 **№**√(410) 266-9127

177 Admiral Cochrane Drive Annapolis, MD 21401-7307

http://www.fws.gov/chesapeakebay/ http://www.fws.gov/chesapeakebay/endsppweb/ProjectReview/Index.html

NOTFORCONSULTATION

https://ip c.ecosphere.f s.gov/project/B76BN BB6ZF DHKXFJWB5Z 4Q/resources w

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Log in to IPaC.
- 2. Go to your My Projects list.
- 3. Click PROJECT HOME for this project.
- 4. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

- 1. Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
- 2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME

Northern Long-eared Bat Myotis septentrionalis

Wherever found

Threatened

This species only needs to be considered if the following condition applies:

 Projects with a federal nexus that have tree clearing = to or > 15 acres: 1. REQUEST A SPECIES LIST 2. NEXT STEP: EVALUATE DETERMINATION KEYS 3. SELECT EVALUATE under the Northern Long-Eared Bat (NLEB) Consultation and 4(d) Rule Consistency key

No critical habitat has been designated for this species. <u>https://ecos.fws.gov/ecp/species/9045</u>

Birds

NAME	STATUS	N
Eastern Black Rail Laterallus jamaicensis ssp. jamaicensis Wherever found No critical habitat has been designated for this species.	Threatened	0,
https://ecos.fws.gov/ecp/species/10477	ILIA	
Insects	\sim	
NAME	STATUS	
Monarch Butterfly Danaus plexippus	Candidate	
This species only needs to be considered if the following conditior applies:	1	
 The monarch is a candidate species and not yet listed or proposed for listing. There are generally no section 7 requirements for candidate species (FAQ found here: 		
https://www.fws.gov/savethemonarch/FAQ-Section7.html).		

No critical habitat has been designated for this species. <u>https://ecos.fws.gov/ecp/species/9743</u>

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

兔

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The <u>Migratory Birds Treaty Act</u> of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <u>http://www.fws.gov/birds/management/managed-species/</u> <u>birds-of-conservation-concern.php</u>
- Measures for avoiding and minimizing impacts to birds <u>http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/</u> <u>conservation-measures.php</u>
- Nationwide conservation measures for birds <u>http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf</u>

The birds listed below are birds of particular concern either because they occur on the <u>USFWS Birds</u> of <u>Conservation Concern</u> (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ <u>below</u>. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the <u>E-bird data mapping tool</u> (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found <u>below</u>.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES

	THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)
American Oystercatcher Haematopus palliatus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/8935</u>	Breeds Apr 15 to Aug 31
Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/1626</u>	Breeds Oct 15 to Aug 31
Black Scoter Melanitta nigra This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Black Skimmer Rynchops niger This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/5234</u>	Breeds May 20 to Sep 15
Black-billed Cuckoo Coccyzus erythropthalmus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9399</u>	Breeds May 15 to Oct 10
Blue-winged Warbler Vermivora pinus This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 1 to Jun 30
Bobolink Dolichonyx oryzivorus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Jul 31
Brown Pelican Pelecanus occidentalis This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/6034</u>	Breeds Jan 15 to Sep 30

Canada Warbler Cardellina canadensis This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Aug 10
Cerulean Warbler Dendroica cerulea This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/2974</u>	Breeds Apr 29 to Jul 20
Common Loon gavia immer This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/4464	Breeds Apr 15 to Oct 31
Double-crested Cormorant phalacrocorax auritus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/3478</u>	Breeds Apr 20 to Aug 31
Eastern Whip-poor-will Antrostomus vociferus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Aug 20
Golden Eagle Aquila chrysaetos This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/1680</u>	Breeds elsewhere
Gull-billed Tern Gelochelidon nilotica This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9501</u>	Breeds May 1 to Jul 31
Hudsonian Godwit Limosa haemastica This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Kentucky Warbler Oporornis formosus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 20 to Aug 20

Lesser Yellowlegs Tringa flavipes This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9679</u>	Breeds elsewhere
Long-eared Owl asio otus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/3631</u>	Breeds Mar 1 to Jul 15
Long-tailed Duck Clangula hyemalis This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/7238</u>	Breeds elsewhere
Prairie Warbler Dendroica discolor This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Jul 31
Prothonotary Warbler Protonotaria citrea This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 1 to Jul 31
Purple Sandpiper Calidris maritima This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Red-breasted Merganser Mergus serrator This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Red-headed Woodpecker Melanerpes erythrocephalus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10
Red-necked Phalarope Phalaropus lobatus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere

Red-throated Loon Gavia stellata This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Ring-billed Gull Larus delawarensis This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Royal Tern Thalasseus maximus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Apr 15 to Aug 31
Ruddy Turnstone Arenaria interpres morinella This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Rusty Blackbird Euphagus carolinus This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Short-billed Dowitcher Limnodromus griseus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9480</u>	Breeds elsewhere
Surf Scoter Melanitta perspicillata This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
White-winged Scoter Melanitta fusca This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Willet Tringa semipalmata This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 20 to Aug 5

Wood Thrush Hylocichla mustelina

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (=)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

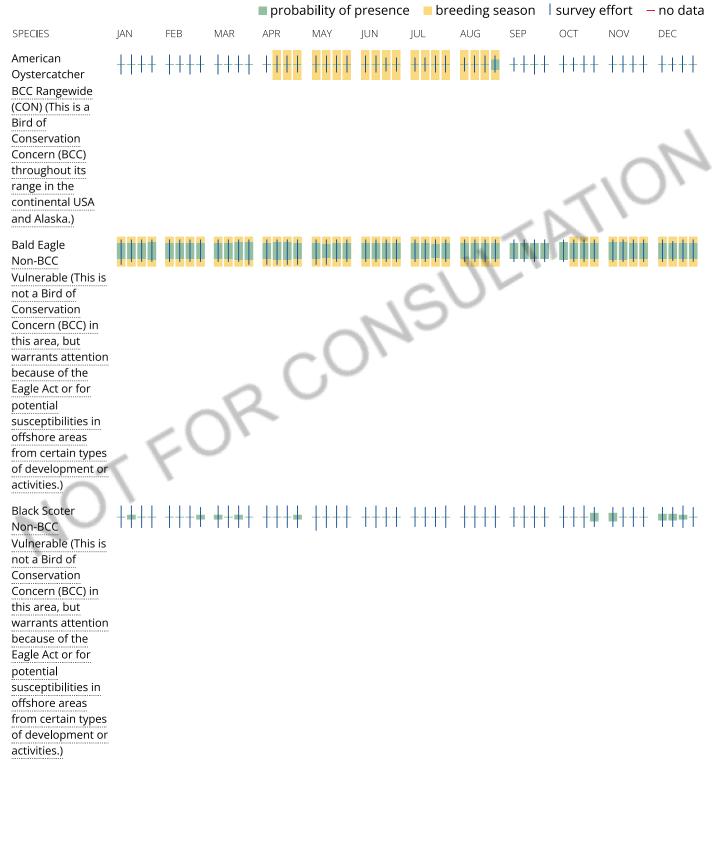
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Black Skimmer BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++ ++++ ++++ ++++ ++++ ++++ +++++ ++++
Black-billed Cuckoo BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	
Blue-winged Warbler BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)	CUL
Bobolink BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	<u>++++</u> ++++ +++++ +++++ +++++ +++++ +++++ ++++

Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

Canada Warbler **BCC Rangewide** (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Cerulean Warbler **BCC** Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

Brown Pelican +++# ++++ ++++ ┼┼┼┼ ┼┼┼┼ ┼┼┼┿ **┿<u></u>╝┆**┿ ++++ ++++ +++++ ++++ +++ Common Loon

Double-crested Cormorant Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.) SPECIES		FEB	MAR	APR	ΜΑΥ			AUG	SEP	Ост	NOV	DEC
Eastern Whip- poor-will BCC Rangewide (CON) (This is a	jan ++++	++++	++++	+ ++ +	ŧŧ₩		jul 	╂╂╂┼	+++	***	H.	}++++
Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)					C	N	S	ار	71			
Golden Eagle Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)		+++1	++++ S	+++++	++++	++++	++++	++++	++++	++++	++++	++++
Gull-billed Tern BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	++++	++++	++++	++++	1+++	++++	++++	++++	++++	++++

Hudsonian Godwit BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++ -	++++	++++	++++	++++	++++	++++	++++	++∎+	++++	++++	++++
Kentucky Warbler BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++ -	++++	++++	┼┼╂╂	<u>+</u> #++	+++++++++++++	 	 +	₩ <u>+</u> <u></u>	++++	++++ C	HHH M
Lesser Yellowlegs BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++ -	++++	++ + +	++++	••••	++++	+## 5	 ار		MH.	₩¥ ++	++++
Long-eared Owl BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	+++++ <			HH	HII	ŦŦŦŦ	╂╂╂┼	++++	++++	++++	+ +++	++++
Long-tailed Duck Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	+++ * •	Þ # ++	∳¦∳ ¦	₩ <u>+</u> <u>₩</u> +	<u>+</u> ++ # +	₩ ₩	++++	++++	++++	++++	+++++++++	++ ₩♥

Prairie Warbler BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	++++	 				++++	+#! +	** ++	++++	++++
Prothonotary Warbler BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	++++	╂╋╋╇	***	### #	++++	++++	++++		++++ \C	}N
Purple Sandpiper BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++	++++	++++	++++	++++ •,C	++++	++++ S	+++++	++++	+ +++	++++++	++++
Red-breasted Merganser Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.) SPECIES	JAN	FEB	MAR	APR	₩ ₩₩	₩₩	JUL	♦ + + + + + + + +	++++ SEP	++++ ↓	+ ∳ ∳∳ NOV	↓↓↓
	<u> </u>	-				<u> </u>	<u>.</u> –	-				

Red-headed Woodpecker BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++ ++	++ ++++	┼┼╇┿╺┿		++	## + # ##++ ++++	
Red-necked Phalarope Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.) Red-throated Loor Non-BCC Vulnerable (This is not a Bird of	· · ++++ ••	++ ++++ •• •••	++++ ++++ ++++ +++	• •+++ ++++ • •++++ • •+++++++++++++++			ja la
Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	()	04					

Ring-billed Gull Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)												
Royal Tern Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)		++++	++++	+++++	;.C	n.		יייי \ر	****	***	*++++ C	HHA
Ruddy Turnstone BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)	1		774	+ +++	++++	++++	++++	****	*+**	++++	++++	++++
Rusty Blackbird BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)		+++	****	****	++++	++++	++++	++++	++++	+ * *	+++	₩ ₩₩

Short-billed Dowitcher BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	+++++ +++++ +++++ +++++ +++++ +++++ ++++
Surf Scoter Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	TATIO
White-winged Scoter Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)	
Willet BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	<u>+++++</u> +++++ ++ ++ ++++ ++++ ++++ ++++ + +++

Wood Thrush BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

<u>Nationwide Conservation Measures</u> describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. <u>Additional measures</u> or <u>permits</u> may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network</u> (<u>AKN</u>). The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>AKN Phenology Tool</u>.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen</u> <u>science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: <u>The Cornell Lab of Ornithology All About Birds Bird Guide</u>, or (if you are unsuccessful in locating the bird of interest there), the <u>Cornell Lab of Ornithology Neotropical Birds</u>

<u>guide</u>. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <u>Northeast Ocean Data Portal</u>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the <u>NOAA NCCOS</u> <u>Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf</u> project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam</u> <u>Loring</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid

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or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of</u> <u>Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

ESTUARINE AND MARINE DEEPWATER

E1UBL E1UBL6 E1UBLh E1UBLx

ESTUARINE AND MARINE WETLAND <u>E2EM1P</u> <u>E2EM1P6</u> E2USP E2US2P E2USN E2EM1Px

FRESHWATER EMERGENT WETLAND

PEM1/SS1F PEM1Fx PEM1Cd PEM1C PEM1Fh PEM1F PEM1Ch PEM1/SS1Cx PEM1Cx PEM1E PEM1Eh PEM1Ax PEM1D PEM5A PEM1R FRESHWATER FORESTED/SHRUB WETLAND PFO1A PFO1C

PFO1/SS1Ch

<u> PFO1S</u>

<u>PSS1R</u>

PFO1/EM5A

PFO1Fx

PFO1R

FRESHWATER POND

PUBHx PUBH PUBHh PUBFx PUBFh PUSCx

<u>PUSAx</u>

LAKE

<u>L2USCh</u> L1UBK

RIVERINE

<u>R4SBC</u> R1UBV C: Explore Loc tion resources w

ORCONSULTATION

<u>R5UBH</u>	
R2UBH	
<u>R1USQ</u>	

A full description for each wetland code can be found at the National Wetlands Inventory website

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.



United States Department of the Interior

FISH AND WILDLIFE SERVICE Chesapeake Bay Ecological Services Field Office 177 Admiral Cochrane Drive Annapolis, MD 21401-7307 Phone: (410) 573-4599 Fax: (410) 266-9127



In Reply Refer To: Project Code: 2022-0003498 Project Name: Baltimore Coastal Storm Risk Management Feasibility Study

February 12, 2024

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see https://www.fws.gov/program/migratory-bird-permit/whatwe-do.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Wetlands

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Chesapeake Bay Ecological Services Field Office

177 Admiral Cochrane Drive Annapolis, MD 21401-7307 (410) 573-4599

PROJECT SUMMARY

Project Code:	2022-0003498
Project Name:	Baltimore Coastal Storm Risk Management Feasibility Study
Project Type:	Land Preservation
Project Description:	The Baltimore Coastal Storm Risk Management Feasibility Study seeks to
	reduce coastal flood risk to vulnerable populations, properties,
	infrastructure, and environmental and cultural resources considering
	future climate and sea level rise scenarios to support resilient
	communities in Baltimore.

Project Location:

The approximate location of the project can be viewed in Google Maps: <u>https://</u>www.google.com/maps/@39.24333690000003,-76.57093721595646,14z



Counties: Anne Arundel, Baltimore, and Baltimore counties, Maryland

ENDANGERED SPECIES ACT SPECIES

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/9045</u>	Endangered
BIRDS NAME	STATUS
Eastern Black Rail <i>Laterallus jamaicensis ssp. jamaicensis</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/10477</u>	Threatened
INSECTS NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/9743</u>	Candidate

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

WETLANDS

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of</u> <u>Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

RIVERINE

- R2UBH
- R1USQ
- R1UBV
- R4SBC
- R5UBH

ESTUARINE AND MARINE WETLAND

- E2EM1P
- E2EM1P6
- E2US2P
- E2USP
- E2USN
- E2EM1Px

FRESHWATER FORESTED/SHRUB WETLAND

- PFO1R
- PFO1/SS1Ch
- PFO1A
- PSS1R
- PFO1C
- PFO1/EM5A

- PFO1Fx
- PFO1S

FRESHWATER EMERGENT WETLAND

- PEM1Cd
- PEM1R
- PEM1E
- PEM1Cx
- PEM1Ax
- PEM1F
- PEM1/SS1Cx
- PEM1Fx
- PEM1C
- PEM1Ch
- PEM1Fh
- PEM5A
- PEM1Eh
- PEM1D
- PEM1/SS1F

LAKE

- L1UBK
- L2USCh

ESTUARINE AND MARINE DEEPWATER

- E1UBL
- E1UBLx
- E1UBLh
- E1UBL6

FRESHWATER POND

- PUSCx
- PUBHx
- PUBHh
- PUBFx
- PUSAx
- PUBFh
- PUBH

IPAC USER CONTACT INFORMATION

- Agency: Department of Defense
- Name: Chris Johnson
- Address: 2 Hopkins Place
- City: Baltimore
- State: MD
- Zip: 21201
- Email christopher.a.johnson@usace.army.mil
- Phone: 4438077461



United States Department of the Interior

FISH AND WILDLIFE SERVICE Chesapeake Bay Ecological Services Field Office 177 Admiral Cochrane Drive Annapolis, MD 21401-7307 Phone: (410) 573-4599 Fax: (410) 266-9127



February 13, 2024

In Reply Refer To: Project code: 2022-0003498 Project Name: Baltimore Coastal Storm Risk Management Feasibility Study

Federal Nexus: yes Federal Action Agency (if applicable): Department of Defense

Subject: Federal agency coordination under the Endangered Species Act, Section 7 for 'Baltimore Coastal Storm Risk Management Feasibility Study'

Dear Chris Johnson:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on February 13, 2024, for "Baltimore Coastal Storm Risk Management Feasibility Study" (here forward, Project). This project has been assigned Project Code 2022-0003498 and all future correspondence should clearly reference this number.

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into the IPaC must accurately represent the full scope and details of the Project. Failure to accurately represent or implement the Project as detailed in IPaC or the Northeast Determination Key (DKey), invalidates this letter. To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative effect(s)), to a federally listed species or designated critical habitat.

Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17). Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no further consultation with, or concurrence from, the Service is required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required (except when the Service concurs, in writing, that a proposed action "is

not likely to adversely affect" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13]).

The IPaC results indicated the following species is (are) potentially present in your project area and, based on your responses to the Service's Northeast DKey, you determined the proposed Project will have the following effect determinations:

Species	Listing Status	Determination
Eastern Black Rail (Laterallus jamaicensis ssp.	Threatened	No effect
jamaicensis)		

Conclusion If there are no updates on listed species, no further consultation/coordination for this project is required for the species identified above. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional consultation with the Service should take place before project implements any changes which are final or commits additional resources.

In addition to the species listed above, the following species and/or critical habitats may also occur in your project area and are not covered by this conclusion:

- Monarch Butterfly Danaus plexippus Candidate
- Northern Long-eared Bat *Myotis septentrionalis* Endangered

Please Note: If the Action may impact bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act (BGEPA) (54 Stat. 250, as amended, 16 U.S.C. 668a-d) by the prospective permittee may be required. Please contact the Migratory Birds Permit Office, (413) 253-8643, or PermitsR5MB@fws.gov, with any questions regarding potential impacts to Eagles.

If you have any questions regarding this letter or need further assistance, please contact the Chesapeake Bay Ecological Services Field Office and reference the Project Code associated with this Project.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

Baltimore Coastal Storm Risk Management Feasibility Study

2. Description

The following description was provided for the project 'Baltimore Coastal Storm Risk Management Feasibility Study':

The Baltimore Coastal Storm Risk Management Feasibility Study seeks to reduce coastal flood risk to vulnerable populations, properties, infrastructure, and environmental and cultural resources considering future climate and sea level rise scenarios to support resilient communities in Baltimore.

The approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@39.2433369000003,-76.57093721595646,14z</u>



QUALIFICATION INTERVIEW

- 1. As a representative of this project, do you agree that all items submitted represent the complete scope of the project details and you will answer questions truthfully? *Yes*
- 2. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed species?

Note: This question could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered, or proposed species.

No

3. Is the action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Yes

4. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) the lead agency for this project?

No

5. Are you including in this analysis all impacts to federally listed species that may result from the entirety of the project (not just the activities under federal jurisdiction)?

Note: If there are project activities that will impact listed species that are considered to be outside of the jurisdiction of the federal action agency submitting this key, contact your local Ecological Services Field Office to determine whether it is appropriate to use this key. If your Ecological Services Field Office agrees that impacts to listed species that are outside the federal action agency's jurisdiction will be addressed through a separate process, you can answer yes to this question and continue through the key.

Yes

6. Are you the lead federal action agency or designated non-federal representative requesting concurrence on behalf of the lead Federal Action Agency?

Yes

7. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)?

No

- 8. Will the proposed project involve the use of herbicide where listed species are present? *No*
- 9. Are there any caves or anthropogenic features suitable for hibernating or roosting bats within the area expected to be impacted by the project?

No

10. Does any component of the project associated with this action include structures that may pose a collision risk to **birds** (e.g., land-based or offshore wind turbines, communication towers, high voltage transmission lines, any type of towers with or without guy wires)?

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.). *No*

11. Does any component of the project associated with this action include structures that may pose a collision risk to **bats** (e.g., land-based wind turbines)?

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.). *No*

12. Will the proposed project result in permanent changes to water quantity in a stream or temporary changes that would be sufficient to result in impacts to listed species?

For example, will the proposed project include any activities that would alter stream flow, such as water withdrawal, hydropower energy production, impoundments, intake structures, diversion structures, and/or turbines? Projects that include temporary and limited water reductions that will not displace listed species or appreciably change water availability for listed species (e.g. listed species will experience no changes to feeding, breeding or sheltering) can answer "No". Note: This question refers only to the amount of water present in a stream, other water quality factors, including sedimentation and turbidity, will be addressed in following questions.

No

13. Will the proposed project affect wetlands where listed species are present?

This includes, for example, project activities within wetlands, project activities within 300 feet of wetlands that may have impacts on wetlands, water withdrawals and/or discharge of contaminants (even with a NPDES).

No

14. Will the proposed project activities (including upland project activities) occur within 0.5 miles of the water's edge of a stream or tributary of a stream where listed species may be present?

Yes

- 15. Will the proposed project directly affect a streambed (below ordinary high water mark (OHWM)) of the stream or tributary where listed species may be present? *No*
- 16. Will the proposed project bore underneath (directional bore or horizontal directional drill) a stream where listed species may be present?

No

17. Will the proposed project involve a new point source discharge into a stream or change an existing point source discharge (e.g., outfalls; leachate ponds) where listed species may be present?

No

18. Will the proposed project involve the removal of excess sediment or debris, dredging or instream gravel mining where listed species may be present?

No

19. Will the proposed project involve the creation of a new water-borne contaminant source where listed species may be present?

Note New water-borne contaminant sources occur through improper storage, usage, or creation of chemicals. For example: leachate ponds and pits containing chemicals that are not NSF/ANSI 60 compliant have contaminated waterways. Sedimentation will be addressed in a separate question.

No

20. Will the proposed project involve perennial stream loss, in a stream of tributary of a stream where listed species may be present, that would require an individual permit under 404 of the Clean Water Act?

No

- 21. Will the proposed project involve blasting where listed species may be present? *No*
- 22. Will the proposed project include activities that could result in an increase to recreational fishing or potentially affect fish movement temporarily or permanently (including fish stocking, harvesting, or creation of barriers to fish passage)?

No

23. Will the proposed project involve earth moving that could cause erosion and sedimentation, and/or contamination along a stream or tributary of a stream where listed species may be present?

NoteAnswer "Yes" to this question if erosion and sediment control measures will be used to protect the stream. *No*

24. Will the proposed project involve vegetation removal within 200 feet of a perennial stream bank where listed species may be present?

No

25. Will erosion and sedimentation control Best Management Practices (BMPs) associated with applicable state and/or Federal permits, be applied to the project? If BMPs have been provided by and/or coordinated with and approved by the appropriate Ecological Services Field Office, answer "Yes" to this question.

Yes

- 26. [Semantic] Does the project intersect the Virginia big-eared bat critical habitat? **Automatically answered** *No*
- 27. [Semantic] Does the project intersect the Indiana bat critical habitat?Automatically answeredNo
- 28. [Semantic] Does the project intersect the candy darter critical habitat? Automatically answered No
- 29. [Semantic] Does the project intersect the diamond darter critical habitat? **Automatically answered** *No*
- 30. [Semantic] Does the project intersect the Big Sandy crayfish critical habitat?
 Automatically answered
 No
- 31. [Hidden Semantic] Does the project intersect the Guyandotte River crayfish critical habitat?

Automatically answered No

- 32. [Hidden Semantic] Does the project intersect the Eastern black rail AOI? Automatically answered *Yes*
- 33. Does the action area include persistent emergent wetlands (salt, brackish, or freshwater)? *No*
- 34. Do you have any other documents that you want to include with this submission? *No*

PROJECT QUESTIONNAIRE

- 1. Approximately how many acres of trees would the proposed project remove? 0.0
- 2. Approximately how many total acres of disturbance are within the disturbance/ construction limits of the proposed project?

1.0

3. Briefly describe the habitat within the construction/disturbance limits of the project site. Urban land

IPAC USER CONTACT INFORMATION

- Agency: Department of Defense
- Name: Chris Johnson
- Address: 2 Hopkins Place
- City: Baltimore
- State: MD
- Zip: 21201
- Email christopher.a.johnson@usace.army.mil
- Phone: 4438077461

Baltimore Coastal Storm Risk Management Feasibility Study
Cultural Resources Coordination

Agency/Stakeholder	Format	Date	Description
USACE to MD SHPO	Email	February 3, 2022	Formal letter emailed
			to MD SHPO
			initiating Section 106
			consultation and
			describing the
			focused array of
			alternatives.
USACE to Baltimore	Email	February 3, 2022	Formal letter emailed
City Commission for			to CHAP initiating
Historical and			Section 106
Architectural			consultation and
Preservation (CHAP)			describing the
			focused array of
			alternatives.
USACE to Baltimore	Email	February 3, 2022	Formal letter emailed
County Department of		•	to the Baltimore
Planning			County Department
			of Planning initiating
			Section 106
			consultation and
			describing the
			focused array of
			alternatives.
USACE to Delaware	Email	February 3, 2022	Formal letter emailed
Nation			to the Delaware
			Nation initiating
			Section 106
			consultation and
			describing the
			focused array of
			alternatives.
USACE to Delaware	Email	February 3, 2022	Formal letter emailed
Tribe of Indians			to the Delaware Tribe
			of Indians initiating
			Section 106
			consultation and
			describing the
			focused array of
			alternatives.
USACE to Seneca-	Email	February 3, 2022	Formal letter emailed
Cayuga Tribe of			to the Seneca-Cayuga
Oklahoma			Tribe of Oklahoma
			initiating Section 106
			consultation and
			describing the

Agency/Stakeholder	Format	Date	Description
			focused array of
			alternatives.
MHT to USACE	Email	March 24, 2022	Formal letter emailed to USACE discussing what resources may be affected by the project and providing additional potential consulting parties.
USACE to MHT	Email	June 10, 2022	Formal letter emailed to MHT informing them of the TSP and requesting assistance with development of a Programmatic Agreement for the project.
USACE to Baltimore City CHAP	Email	June 10, 2022	Formal letter emailed to CHAP informing them of the TSP and requesting assistance with development of a Programmatic Agreement for the project.
USACE to Baltimore County Department of Planning	Email	June 10, 2022	Formal letter emailed to the Baltimore County Department of Planning informing them of the TSP and requesting assistance with development of a Programmatic Agreement for the project.
USACE to Delaware Nation	Email	June 10, 2022	Formal letter emailed to Delaware Nation informing them of the TSP and requesting assistance with development of a Programmatic Agreement for the project.

Agency/Stakeholder	Format	Date	Description
USACE to Delaware	Email	June 10, 2022	Formal letter emailed
Tribe of Indians			to the Delaware Tribe
			of Indians informing
			them of the TSP and
			requesting assistance
			with development of
			a Programmatic
			Agreement for the
			project.
USACE to Seneca-	Email	June 10, 2022	Formal letter emailed
Cayuga Tribe of	Linun	June 10, 2022	to the Seneca-Cayuga
Oklahoma			Tribe of Oklahoma
Okidilollid			informing them of the
			TSP and requesting
			assistance with
			development of a
			Programmatic
			Agreement for the
			project.
USACE to NPS	Email	June 10, 2022	Formal letter emailed
		vuiie 10, 2022	to NPS informing
			them of the TSP and
			requesting assistance
			with development of
			a Programmatic
			Agreement for the
			project.
USACE to Preservation	Email	June 10, 2022	Formal letter emailed
Maryland		,	to Preservation
			Maryland informing
			them of the TSP and
			requesting assistance
			with development of
			a Programmatic
			Agreement for the
			project.
Delaware Nation to	Email	June 21, 2022	Formal letter emailed
USACE			to USACE stating
			they would like to
			consult on the
			development of the
			Programmatic
			Agreement for the
			project.
	Email	June 21, 2022	Agreement for the project. Formal letter emailed to USACE stating they would like to consult on the development of the Programmatic Agreement for the

Agency/StakeholderFormatDateDescriptionNPS to USACEEmailJune 30, 2022Informal email USACE statim would like to a the invitation consulting parUSACE to MHTEmailJanuary 26, 2023Informal email sending a prel draft PA for red sending a prelUSACE to NPSEmailJanuary 26, 2023Informal email sending a prel draft PA for red sending a prel	ng they accept to be a
USACE to MHTEmailUSACE stating would like to the invitation consulting part draft PA for red USACE to NPSUSACE to MHTUSACE to NPSEmailJanuary 26, 2023Informal email sending a prel 	ng they accept to be a
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USACE to Delaware Email January 26, 2023 Informal email	
Nation sending a prel	
draft PA for re	
USACE to ACHP Email January 31, 2023 E106 form	
submission	
requesting AC	CHP
review and	
involvement.	
NPS to USACE Email February 8, 2023 email sending	
comments on	the
draft PA.	
Delaware Nation to Email February 10, 2023 email stating t	-
USACE have no comm	
the draft PA a	nd
attaching the	
Delaware Nat	
inadvertent /h	
remains disco	very
policy	
ACUD to USACE Emoil Eshare 15, 2022 Est 11, 11, 11	
ACHP to USACE Email February 15, 2023 Email and lett	
stating they do	
wish to partici	ipate m
MHT to USACEEmailJune 6, 2023email sending	
MHT to USACEEmailJune 6, 2023email sending comments on	
draft PA.	uic
drait PA.	
USACE to MHT Email June 8, 2023 email sending	revised
draft PA back	
consulting par	

Agency/Stakeholder	Format	Date	Description
USACE to NPS	Email	June 8, 2023	email sending revised draft PA back to consulting parties.
USACE to Delaware Nation	Email	June 8, 2023	email sending revised draft PA back to consulting parties.



DEPARTMENT OF THE ARMY CORPS OF ENGINEERS, BALTIMORE DISTRICT 2 HOPKINS PLAZA BALTIMORE, MARYLAND 21201

Elizabeth Hughes State Historic Preservation Officer Maryland Historical Trust 100 Community Place Crownsville, MD 21032 3 February 2022

Dear Ms. Hughes:

The purpose of this letter is to initiate consultation with your office in accordance with Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations at 36 CFR Part 800, regarding the Baltimore Coastal Storm Risk Management Feasibility Study being conducted by the U.S. Army Corps of Engineers, Baltimore District (USACE). The purpose of the project is to reduce coastal flood risk to vulnerable areas in the Baltimore Metropolitan area as authorized by a resolution of the U.S. House of Representatives Committee on Public Works and Transportation dated April 30, 1992. The project's study area is divided into seven planning units: Inner Harbor, Locust Point, Martin State Airport, Middle Branch, Patapsco East, Patapsco North, and Patapsco South (Enclosure 1).

The original project scope consisted of an initial array of eleven draft alternatives. The initial alternatives were screened down to a focused array of four alternatives, (Alternatives 4 through 7), which are being considered at this time.

Alternative 4 is defined as the Critical Infrastructure Only plan and consists of a combination of proposed floodwalls and nonstructural measures (Enclosure 2). Floodwalls are proposed around the Interstate 95 and Interstate 895 tunnel entrances, and around transportation facilities along Interstate 95. Non-structural measures are proposed for federal facilities near Fort McHenry, the Patapsco Wastewater Treatment Plant, and Martin State Airport.

Alternative 5 is defined as the Critical Infrastructure and Nonstructural plan and consists of a combination of proposed floodwalls and nonstructural measures (Enclosure 3). Floodwalls are proposed around the Interstate 95 and Interstate 895 tunnel entrances, and around transportation facilities along Interstate 95. Nonstructural measures are proposed for the Inner Harbor and Canton areas, the Patapsco Wastewater Treatment Plant, Martin State Airport, and other select areas within the Locust Point and Patapsco South planning units.

Alternative 6 is defined as the Critical Balanced plan and consists of a combination of proposed floodwalls and nonstructural measures (Enclosure 4). Floodwalls are proposed around the Interstate 95 and Interstate 895 tunnel entrances, around transportation facilities along

Interstate 95, and along the Seagirt Marine Terminal. Nonstructural measures are proposed for the Inner Harbor and Canton areas, the Patapsco Wastewater Treatment Plant, Martin State Airport, and other select areas within the Locust Point and Patapsco South planning units.

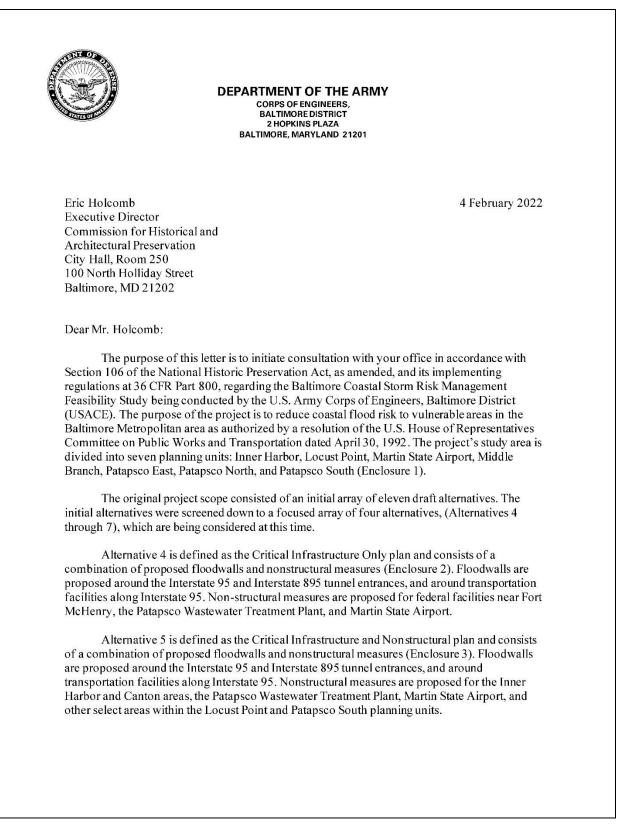
Alternative 7 is defined as the Mid-Tier Balanced plan and consists of a combination of proposed floodwalls, nonstructural measures, and road and walkway elevations (Enclosure 5) Floodwalls are proposed around the Inner Harbor and Canton areas, Locust Point, "Wheelabrator" Incinerator Plant, Interstate 95 and Interstate 895 tunnel entrances, transportation facilities along Interstate 95, and along the Seagirt Marine Terminal. Non-structural measures are proposed for the Patapsco Wastewater Treatment Plant, Martin State Airport, and other select areas within the Patapsco South planning unit. Proposed road and walkway elevations include an elevated walkway along the Inner Harbor and an elevated perimeter road at Martin State Airport.

The area of potential effect (APE) for the project may be defined as the area of direct construction impacts and the areas within which the undertaking may directly or indirectly cause alterations to the character or use of historic properties, including visual effects. The viewsheds of any nearby historic properties would also be included in the APE. A preliminary examination of the APE was completed using Medusa, the Maryland Historical Trust's cultural resources information system (CRIS). The CRIS indicated that numerous historic properties are located in and around the project areas.

We look forward to consulting with your office regarding the nature and scope of possible additional investigations to identify historic properties in the project areas, and to assess potential effects to those properties. As they become available, we will provide you with more detailed site plans illustrating the location and boundaries of all proposed ground-disturbing activities. In the interim, we ask that your office review the enclosed information and assist us in identifying and assessing the project's effects on historic properties. We also ask that your office assist us in identifying additional consulting parties that should be contacted for this project. If you have any questions about the project, please contact Ethan A. Bean at (410) 962-2173 or ethan.a.bean@usace.army.mil.

Sincerely,

Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division



Alternative 6 is defined as the Critical Balanced plan and consists of a combination of proposed floodwalls and nonstructural measures (Enclosure 4). Floodwalls are proposed around the Interstate 95 and Interstate 895 tunnel entrances, around transportation facilities along Interstate 95, and along the Seagirt Marine Terminal. Nonstructural measures are proposed for the Inner Harbor and Canton areas, the Patapsco Wastewater Treatment Plant, Martin State Airport, and other select areas within the Locust Point and Patapsco South planning units.

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Sincerely,

Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division



DEPARTMENT OF THE ARMY CORPS OF ENGINEERS, BALTIMORE DISTRICT 2 HOPKINS PLAZA BALTIMORE, MARYLAND 21201

Caitlin Merritt Chief of Preservation Services Baltimore County Department of Planning 400 Washington Avenue Towson, MD 21204 4 February 2022

Dear Ms. Merritt:

The purpose of this letter is to initiate consultation with your office in accordance with Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations at 36 CFR Part 800, regarding the Baltimore Coastal Storm Risk Management Feasibility Study being conducted by the U.S. Army Corps of Engineers, Baltimore District (USACE). The purpose of the project is to reduce coastal flood risk to vulnerable areas in the Baltimore Metropolitan area as authorized by a resolution of the U.S. House of Representatives Committee on Public Works and Transportation dated April 30, 1992. The project's study area is divided into seven planning units: Inner Harbor, Locust Point, Martin State Airport, Middle Branch, Patapsco East, Patapsco North, and Patapsco South (Enclosure 1).

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Alternative 4 is defined as the Critical Infrastructure Only plan and consists of a combination of proposed floodwalls and nonstructural measures (Enclosure 2). Floodwalls are proposed around the Interstate 95 and Interstate 895 tunnel entrances, and around transportation facilities along Interstate 95. Non-structural measures are proposed for federal facilities near Fort McHenry, the Patapsco Wastewater Treatment Plant, and Martin State Airport.

Alternative 5 is defined as the Critical Infrastructure and Nonstructural plan and consists of a combination of proposed floodwalls and nonstructural measures (Enclosure 3). Floodwalls are proposed around the Interstate 95 and Interstate 895 tunnel entrances, and around transportation facilities along Interstate 95. Nonstructural measures are proposed for the Inner Harbor and Canton areas, the Patapsco Wastewater Treatment Plant, Martin State Airport, and other select areas within the Locust Point and Patapsco South planning units.

Alternative 6 is defined as the Critical Balanced plan and consists of a combination of proposed floodwalls and nonstructural measures (Enclosure 4). Floodwalls are proposed around the Interstate 95 and Interstate 895 tunnel entrances, around transportation facilities along

Interstate 95, and along the Seagirt Marine Terminal. Nonstructural measures are proposed for the Inner Harbor and Canton areas, the Patapsco Wastewater Treatment Plant, Martin State Airport, and other select areas within the Locust Point and Patapsco South planning units.

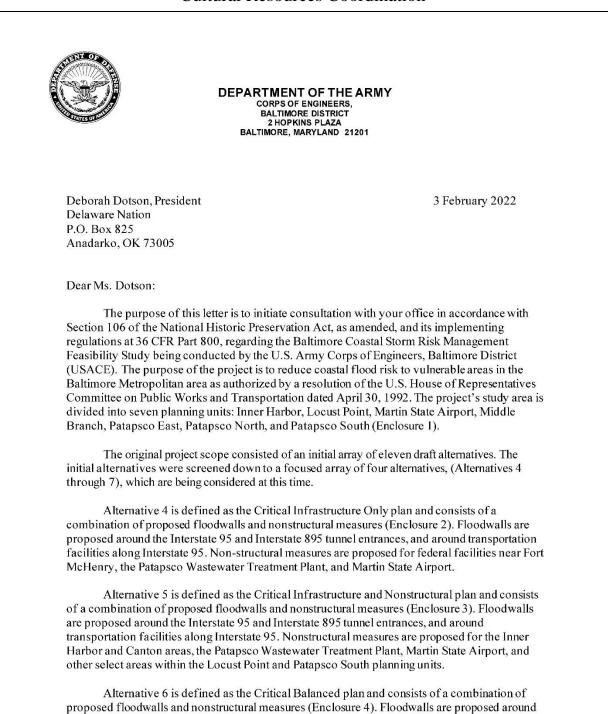
Alternative 7 is defined as the Mid-Tier Balanced plan and consists of a combination of proposed floodwalls, nonstructural measures, and road and walkway elevations (Enclosure 5) Floodwalls are proposed around the Inner Harbor and Canton areas, Locust Point, "Wheelabrator" Incinerator Plant, Interstate 95 and Interstate 895 tunnel entrances, transportation facilities along Interstate 95, and along the Seagirt Marine Terminal. Non-structural measures are proposed for the Patapsco Wastewater Treatment Plant, Martin State Airport, and other select areas within the Patapsco South planning unit. Proposed road and walkway elevations include an elevated walkway along the Inner Harbor and an elevated perimeter road at Martin State Airport.

The area of potential effect (APE) for the project may be defined as the area of direct construction impacts and the areas within which the undertaking may directly or indirectly cause alterations to the character or use of historic properties, including visual effects. The viewsheds of any nearby historic properties would also be included in the APE. A preliminary examination of the APE was completed using Medusa, the Maryland Historical Trust's cultural resources information system (CRIS). The CRIS indicated that numerous historic properties are located in and around the project areas.

We look forward to consulting with your office regarding the nature and scope of possible additional investigations to identify historic properties in the project areas, and to assess potential effects to those properties. As they become available, we will provide you with more detailed site plans illustrating the location and boundaries of all proposed ground-disturbing activities. In the interim, we ask that your office review the enclosed information and assist us in identifying and assessing the project's effects on historic properties. If you have any questions about the project, please contact Ethan A. Bean at (410) 962-2173 or ethan.a.bean@usace.army.mil.

Sincerely,

Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division



proposed floodwalls and nonstructural measures (Enclosure 4). Floodwalls are proposed around the Interstate 95 and Interstate 895 tunnel entrances, around transportation facilities along Interstate 95, and along the Seagirt Marine Terminal. Nonstructural measures are proposed for the Inner Harbor and Canton areas, the Patapsco Wastewater Treatment Plant, Martin State Airport, and other select areas within the Locust Point and Patapsco South planning units.

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Please let us know if you are interested in consulting on this project on a Government-to-Government basis, and the extent to which you wish to participate. We will provide a USACE representative at consultation meetings, and we will fully consider any information you wish to provide.

Thank you for your assistance with this project. We ask that your office review the enclosed information and assist us in identifying and assessing the project's effect on historic properties. If you have any questions about the project, please contact Ethan A. Bean at (410) 962-2173 or ethan.a.bean@usace.army.mil.

Sincerely,

Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division



DEPARTMENT OF THE ARMY CORPS OF ENGINEERS, BALTIMORE DISTRICT 2 HOPKINS PLAZA BALTIMORE, MARYLAND 21201

Susan Bachor Deputy Director, THPO Delaware Tribe of Indians 126 University Circle Stroud Hall, Room 437 East Stroudsburg, PA 18301 3 February 2022

Dear Ms. Bachor:

The purpose of this letter is to initiate consultation with your office in accordance with Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations at 36 CFR Part 800, regarding the Baltimore Coastal Storm Risk Management Feasibility Study being conducted by the U.S. Army Corps of Engineers, Baltimore District (USACE). The purpose of the project is to reduce coastal flood risk to vulnerable areas in the Baltimore Metropolitan area as authorized by a resolution of the U.S. House of Representatives Committee on Public Works and Transportation dated April 30, 1992. The project's study area is divided into seven planning units: Inner Harbor, Locust Point, Martin State Airport, Middle Branch, Patapsco East, Patapsco North, and Patapsco South (Enclosure 1).

The original project scope consisted of an initial array of eleven draft alternatives. The initial alternatives were screened down to a focused array of four alternatives, (Alternatives 4 through 7), which are being considered at this time.

Alternative 4 is defined as the Critical Infrastructure Only plan and consists of a combination of proposed floodwalls and nonstructural measures (Enclosure 2). Floodwalls are proposed around the Interstate 95 and Interstate 895 tunnel entrances, and around transportation facilities along Interstate 95. Non-structural measures are proposed for federal facilities near Fort McHenry, the Patapsco Wastewater Treatment Plant, and Martin State Airport.

Alternative 5 is defined as the Critical Infrastructure and Nonstructural plan and consists of a combination of proposed floodwalls and nonstructural measures (Enclosure 3). Floodwalls are proposed around the Interstate 95 and Interstate 895 tunnel entrances, and around transportation facilities along Interstate 95. Nonstructural measures are proposed for the Inner Harbor and Canton areas, the Patapsco Wastewater Treatment Plant, Martin State Airport, and other select areas within the Locust Point and Patapsco South planning units.

Alternative 6 is defined as the Critical Balanced plan and consists of a combination of proposed floodwalls and nonstructural measures (Enclosure 4). Floodwalls are proposed around

the Interstate 95 and Interstate 895 tunnel entrances, around transportation facilities along Interstate 95, and along the Seagirt Marine Terminal. Nonstructural measures are proposed for the Inner Harbor and Canton areas, the Patapsco Wastewater Treatment Plant, Martin State Airport, and other select areas within the Locust Point and Patapsco South planning units.

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The area of potential effect (APE) for the project may be defined as the area of direct construction impacts and the areas within which the undertaking may directly or indirectly cause alterations to the character or use of historic properties, including visual effects. The viewsheds of any nearby historic properties would also be included in the APE. A preliminary examination of the APE was completed using Medusa, the Maryland Historical Trust's cultural resources information system (CRIS). The CRIS indicated that numerous historic properties are located in and around the project areas.

Please let us know if you are interested in consulting on this project on a Government-to-Government basis, and the extent to which you wish to participate. We will provide a USACE representative at consultation meetings, and we will fully consider any information you wish to provide.

Thank you for your assistance with this project. We ask that your office review the enclosed information and assist us in identifying and assessing the project's effect on historic properties. If you have any questions about the project, please contact Ethan A. Bean at (410) 962-2173 or ethan.a.bean@usace.army.mil.

Sincerely,

Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division



DEPARTMENT OF THE ARMY CORPS OF ENGINEERS, BALTIMORE DISTRICT 2 HOPKINS PLAZA BALTIMORE, MARYLAND 21201

Chief William Fisher Seneca-Cayuga Tribe of Oklahoma P.O. Box 45322 Grove, OK 74345 3 February 2022

Dear Chief Fisher:

The purpose of this letter is to initiate consultation with your office in accordance with Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations at 36 CFR Part 800, regarding the Baltimore Coastal Storm Risk Management Feasibility Study being conducted by the U.S. Army Corps of Engineers, Baltimore District (USACE). The purpose of the project is to reduce coastal flood risk to vulnerable areas in the Baltimore Metropolitan area as authorized by a resolution of the U.S. House of Representatives Committee on Public Works and Transportation dated April 30, 1992. The project's study area is divided into seven planning units: Inner Harbor, Locust Point, Martin State Airport, Middle Branch, Patapsco East, Patapsco North, and Patapsco South (Enclosure 1).

The original project scope consisted of an initial array of eleven draft alternatives. The initial alternatives were screened down to a focused array of four alternatives, (Alternatives 4 through 7), which are being considered at this time.

Alternative 4 is defined as the Critical Infrastructure Only plan and consists of a combination of proposed floodwalls and nonstructural measures (Enclosure 2). Floodwalls are proposed around the Interstate 95 and Interstate 895 tunnel entrances, and around transportation facilities along Interstate 95. Non-structural measures are proposed for federal facilities near Fort McHenry, the Patapsco Wastewater Treatment Plant, and Martin State Airport.

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the Inner Harbor and Canton areas, the Patapsco Wastewater Treatment Plant, Martin State Airport, and other select areas within the Locust Point and Patapsco South planning units.

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The area of potential effect (APE) for the project may be defined as the area of direct construction impacts and the areas within which the undertaking may directly or indirectly cause alterations to the character or use of historic properties, including visual effects. The viewsheds of any nearby historic properties would also be included in the APE. A preliminary examination of the APE was completed using Medusa, the Maryland Historical Trust's cultural resources information system (CRIS). The CRIS indicated that numerous historic properties are located in and around the project areas.

Please let us know if you are interested in consulting on this project on a Government-to-Government basis, and the extent to which you wish to participate. We will provide a USACE representative at consultation meetings, and we will fully consider any information you wish to provide.

Thank you for your assistance with this project. We ask that your office review the enclosed information and assist us in identifying and assessing the project's effect on historic properties. If you have any questions about the project, please contact Ethan A. Bean at (410) 962-2173 or ethan.a.bean@usace.army.mil.

Sincerely,

Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division

Larry Hogan, Governor Robert S. McCord, Secretary Boyd Rutherford, Lt. Governor Sandy Schrader, Deputy Secretary Maryland DEPARTMENT OF PLANNING MARYLAND HISTORICAL TRUST March 24, 2022 Mr. Daniel M. Bierly Chief, Civil Project Development Branch **Planning Division** U.S. Army Corps of Engineers, Baltimore District 2 Hopkins Plaza Baltimore, MD 21201 Re[.] MHT Review of Baltimore Coastal Storm Risk Management Feasibility Study Baltimore City and Baltimore County, Maryland Dear Mr. Bierly: Thank you for initiating consultation and providing the Maryland Historical Trust (MHT) with preliminary information regarding the above-referenced project. It is our understanding that the purpose of the proposed undertaking(s) is to reduce coastal flood risk to vulnerable areas in the Baltimore Metropolitan area, and that the original project scope has already been screened down to an array of four alternatives - Alternatives 4, 5, 6, and 7 - that are being considered at this time. We have begun our review of the alternatives to assess their potential effects on historic properties in accordance with Section 106 of the National Historic Preservation Act and the Maryland Historical Trust Act of 1985 and are writing to offer the following comments and recommendations. Due to the early planning stages of the project at this time, of course, we are only able to provide *preliminary* comments and recommendations regarding potential effects on historic properties. Alternative Plan 4 – Critical Infrastructure – The proposed floodwalls and non-structural measures included in this plan may involve impacts to the historic properties listed below: - B-5333, Baltimore Harbor Tunnel and the Canton Ventilation Building - National Register eligible B-5094 - Naval Reserve Readiness Center - National Register eligible B-4606 - Ordinance Storehouse and Coal House, Fort McHenry BA-2081 - Glenn L. Martin Airport - National Register eligible Alternative Plan 5 – Critical Infrastructure with Non-Structural Measures – The proposed floodwalls will involve impacts to the historic properties listed below: Maryland Historical Trust • 100 Community Place • Crownsville • Maryland • 21032 Tel: 410.697.9591 • toll free 877.767.6272 • TTY users: Maryland Relay • MHT.Maryland.gov

- B-5333, Baltimore Harbor Tunnel and the Canton Ventilation Building National Register eligible
- BA-2081 Glenn L. Martin Airport National Register eligible

Meanwhile, the proposed non-structural measures will involve impacts to several other historic properties, including (but not limited to) many contributing structures, archeological sites, and MHT easement properties located within a variety of National Register-listed historic districts:

- U.S. Coast Guard Yard Curtis Bay National Register listed
- B-5094 Naval Reserve Readiness Center National Register eligible
- B-4606 Ordinance Storehouse and Coal House, Fort McHenry
- Proctor and Gamble Baltimore Plant National Register listed
- B-994 Domino Sugar Plant
- Baltimore Museum of Industry MHT Easement Property
- Federal Hill Historic District National Register listed
- Business and Government Historic District National Register listed
- Baltimore Children's Museum MHT Easement Property
- Fells Point Historic District National Register listed
- South Central Avenue Historic District National Register listed

Alternative Plan 6 – Critical Balanced Plan – Critical Infrastructure with Non-Structural Measures Plan and Port of Baltimore Floodwalls, Baltimore & Martin State Airport –

The proposed floodwalls may involve impacts to the historic properties listed below:

- B-5333, Baltimore Harbor Tunnel and the Canton Ventilation Building National Register eligible
- B-5298 Western Electric Company, Point Breeze Plant Historic District National Register eligible
- BA-2081 Glenn L. Martin Airport National Register eligible

Meanwhile, the proposed non-structural measures will involve impacts to several other historic properties, including (but not limited to) many contributing structures, archeological sites, and MHT easement properties located within a variety of National Register-listed historic districts:

- U.S. Coast Guard Yard Curtis Bay National Register listed
- B-5094 Naval Reserve Readiness Center National Register eligible
- B-4606 Ordinance Storehouse and Coal House, Fort McHenry
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- Federal Hill Historic District National Register listed
- Business and Government Historic District National Register listed
- Baltimore Children's Museum MHT Easement Property
- Fells Point Historic District National Register listed
- South Central Avenue Historic District National Register listed

Alternative Plan 7 – Mid-Tier Balanced Plan – The proposed floodwalls may involve impacts to the historic properties listed below:

- B-5333, Baltimore Harbor Tunnel and the Canton Ventilation Building National Register eligible
- Fort McHenry National Monument and Historic Shrine
- B-5298 Western Electric Company, Point Breeze Plant Historic District National Register eligible
- BA-2081 Glenn L. Martin Airport National Register eligible
- B-994 Domino Sugar Plant
- Baltimore Museum of Industry MHT Easement Property
- Federal Hill Historic District National Register listed
- Fells Point Historic District National Register listed
- Canton Historic District National Register listed
- B-1019 Bethlehem Steel Key Highway Shipyard
- Pratt Street Power Plant National Register listed
- Archeological sites such as 18BC11 (19th c. Baltimore Glass works), 18BC52 (18th c. rowhouses), 18BC53 (18th c. rowhouses and 19th c. warehouses), and 18BC59 (late 18th c. Brown's Wharf)

Meanwhile, the proposed non-structural measures will involve impacts to several other historic properties, including (but not limited to) many contributing structures, archeological sites, and MHT easement properties located within a variety of National Register-listed historic districts:

- BA-2081 Glenn L. Martin Airport National Register eligible
- B-5094 Naval Reserve Readiness Center National Register eligible
- B-4606 Ordinance Storehouse and Coal House, Fort McHenry
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- B-994 Domino Sugar Plant
- Baltimore Museum of Industry MHT Easement Property
- Federal Hill Historic District National Register listed
- Business and Government Historic District National Register listed
- Baltimore Children's Museum MHT Easement Property
- Fells Point Historic District National Register listed
- South Central Avenue Historic District National Register listed

Given the presence of these numerous historic properties, we would like to request that we be provided with detailed site plans illustrating the location and boundaries of all proposed activities and impact areas, when they become available, so that we may assess the project's *potential* impacts on historic properties. Upon our review of this information, we will be able to provide more informed recommendations regarding what avoidance or minimization measures or cultural resources investigations will be necessary prior to construction. MHT would also recommend that the Corps begin to coordinate with the relevant consulting parties, including (but not limited

to) Preservation Maryland, Baltimore City's Commission for Historical and Architectural Preservation (CHAP), the Baltimore Heritage Area Association, the National Park Service, and the Baltimore County Department of Planning.

We look forward to receiving the information requested above and to further coordination as project planning proceeds on this important initiative. If you have any questions or we may be of assistance, please do not hesitate to contact me at <u>dixie.henry@maryland.gov</u> /410-697-9553. Thank you for providing us with this opportunity to comment.

Sincerely,

Dixie Henry (signed electronically)

Dixie L. Henry, Ph.D. Preservation Officer Maryland Historical Trust

DLH/202200668

cc: Ethan A. Bean (COE)



DEPARTMENT OF THE ARMY CORPS OF ENGINEERS, BALTIMORE DISTRICT 2 HOPKINS PLAZA BALTIMORE, MARYLAND 21201

Caitlin Merritt Chief of Preservation Services Baltimore County Department of Planning 400 Washington Avenue Towson, Maryland 21204 June 10, 2022

Dear Ms. Merritt:

The purpose of this letter is to continue consultation with your office in accordance with Section 106 of the National Historic Preservation Act (NHPA), as amended, and its implementing regulations at 36 CFR Part 800, regarding the Baltimore Coastal Storm Risk Management Feasibility Study being conducted by the U.S. Army Corps of Engineers, Baltimore District (USACE). The purpose of the project is to reduce coastal flood risk to vulnerable areas in the Baltimore Metropolitan area as authorized by a resolution of the U.S. House of Representatives Committee on Public Works and Transportation, dated April 30, 1992. The project's study area is divided into seven planning units: Inner Harbor, Locust Point, Martin State Airport, Middle Branch, Patapsco East, Patapsco North, and Patapsco South.

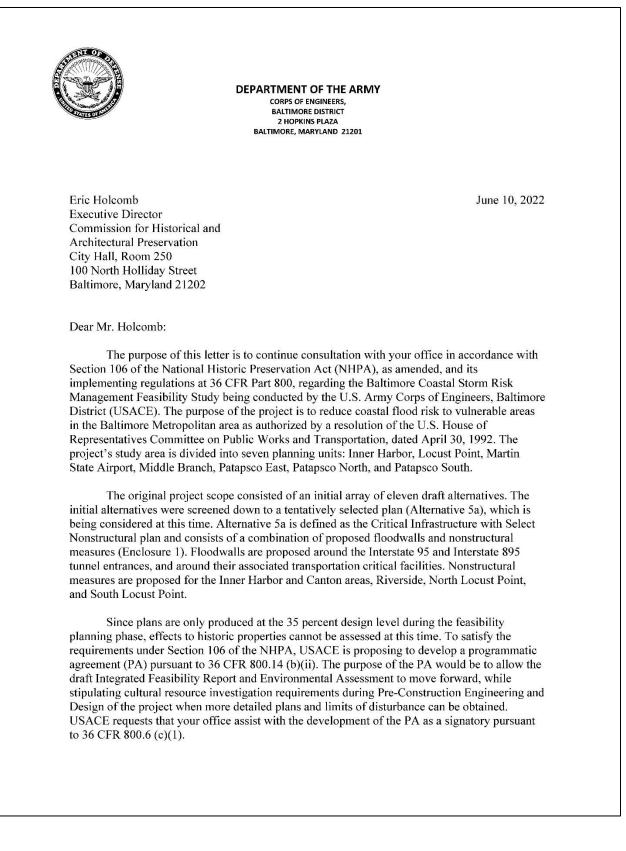
The original project scope consisted of an initial array of eleven draft alternatives. The initial alternatives were screened down to a tentatively selected plan (Alternative 5a), which is being considered at this time. Alternative 5a is defined as the Critical Infrastructure with Select Nonstructural plan and consists of a combination of proposed floodwalls and nonstructural measures (Enclosure 1). Floodwalls are proposed around the Interstate 95 and Interstate 895 tunnel entrances, and around their associated transportation critical facilities. Nonstructural measures are proposed for the Inner Harbor and Canton areas, Riverside, North Locust Point, and South Locust Point.

Since plans are only produced at the 35 percent design level during the feasibility planning phase, effects to historic properties cannot be assessed at this time. To satisfy the requirements under Section 106 of the NHPA, USACE is proposing to develop a programmatic agreement (PA) pursuant to 36 CFR 800.14 (b)(ii). The purpose of the PA would be to allow the draft Integrated Feasibility Report and Environmental Assessment to move forward, while stipulating cultural resource investigation requirements during Pre-Construction Engineering and Design of the project when more detailed plans and limits of disturbance can be obtained. USACE requests that your office assist with the development of the PA as a signatory pursuant to 36 CFR 800.6 (c)(1).

Thank you for your assistance with this project. We look forward to continued consultation with your office on the Baltimore Coastal Storm Risk Management Feasibility Study. We ask that your office review the enclosed information and notify us as to whether you wish to participate with the development of a PA for this project. If you have any questions about the project, please contact Ethan A. Bean at (410) 962-2173 or <u>ethan.a.bean@usace.army.mil</u>.

Sincerely,

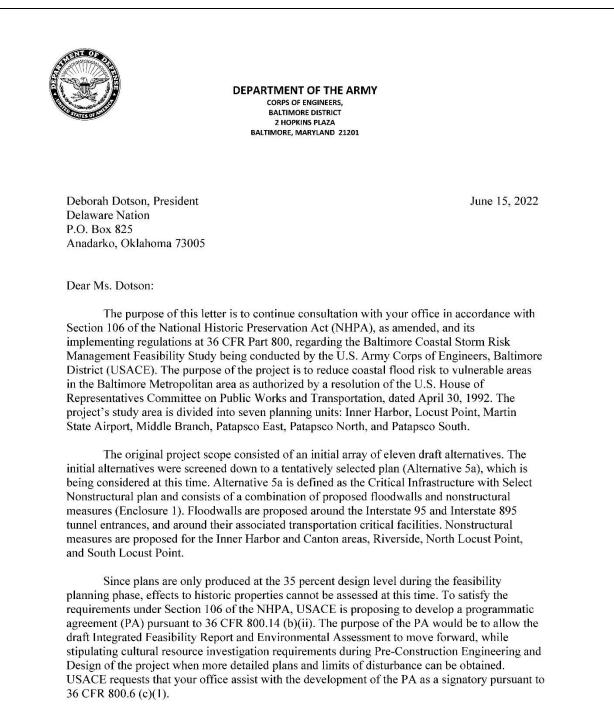
Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division



Thank you for your assistance with this project. We look forward to continued consultation with your office on the Baltimore Coastal Storm Risk Management Feasibility Study. We ask that your office review the enclosed information and notify us as to whether you wish to participate with the development of a PA for this project. If you have any questions about the project, please contact Ethan A. Bean at (410) 962-2173 or <u>ethan.a.bean@usace.army.mil</u>.

Sincerely,

Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division



Thank you for your assistance with this project. We look forward to continued consultation with your office on the Baltimore Coastal Storm Risk Management Feasibility

Study. We ask that your office review the enclosed information and notify us as to whether you wish to participate with the development of a PA for this project. If you have any questions about the project, please contact Ethan A. Bean at (410) 962-2173 or <u>ethan.a.bean@usace.army.mil</u>.

Sincerely,

Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division



DEPARTMENT OF THE ARMY CORPS OF ENGINEERS, BALTIMORE DISTRICT 2 HOPKINS PLAZA BALTIMORE, MARYLAND 21201

Susan Bachor Deputy Director, THPO Delaware Tribe of Indians 126 University Circle Stroud Hall, Room 437 East Stroudsburg, PA 18301 June 10, 2022

Dear Ms. Bachor:

The purpose of this letter is to continue consultation with your office in accordance with Section 106 of the National Historic Preservation Act (NHPA), as amended, and its implementing regulations at 36 CFR Part 800, regarding the Baltimore Coastal Storm Risk Management Feasibility Study being conducted by the U.S. Army Corps of Engineers, Baltimore District (USACE). The purpose of the project is to reduce coastal flood risk to vulnerable areas in the Baltimore Metropolitan area as authorized by a resolution of the U.S. House of Representatives Committee on Public Works and Transportation, dated April 30, 1992. The project's study area is divided into seven planning units: Inner Harbor, Locust Point, Martin State Airport, Middle Branch, Patapsco East, Patapsco North, and Patapsco South.

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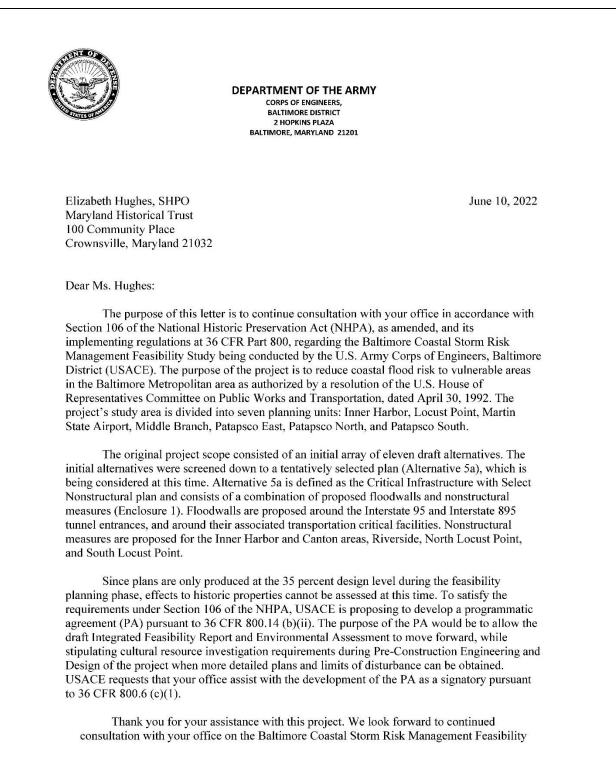
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Thank you for your assistance with this project. We look forward to continued consultation with your office on the Baltimore Coastal Storm Risk Management Feasibility Study. We ask that your office review the enclosed information and notify us as to whether you wish to participate with the development of a PA for this project. If you have any questions about the project, please contact Ethan A. Bean at (410) 962-2173 or <u>ethan.a.bean@usace.army.mil</u>.

Sincerely,

ma

Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division

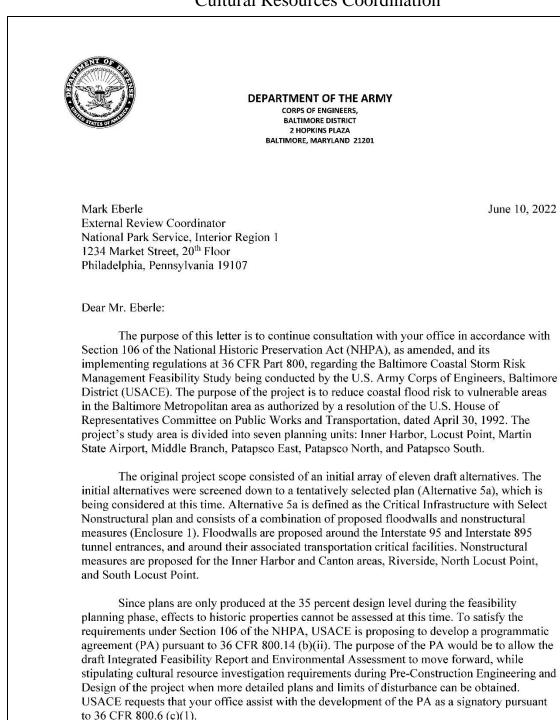


Study. We ask that your office review the enclosed information and notify us as to whether you concur with the development of a PA for this project. If you have any questions about the project, please contact Ethan A. Bean at (410) 962-2173 or <u>ethan.a.bean@usace.army.mil</u>.

Sincerely,

mp

Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division



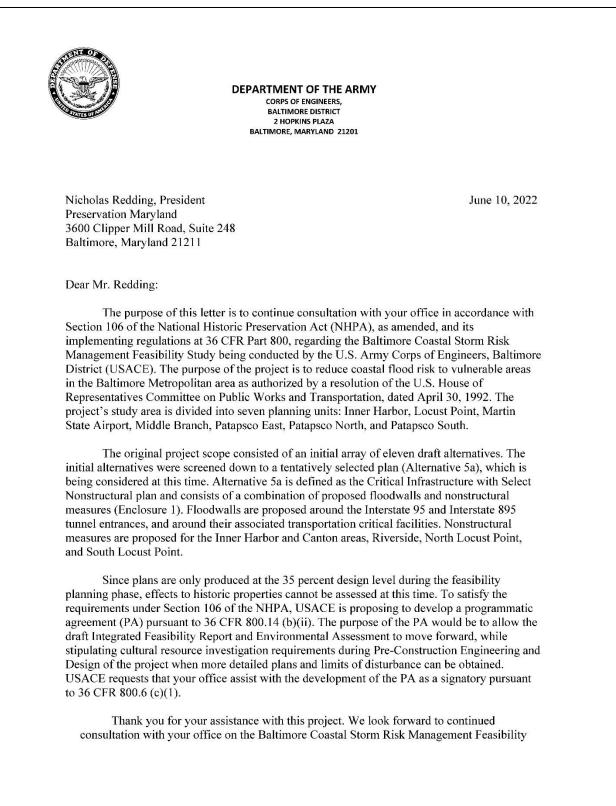
June 10, 2022

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Sincerely,

ma

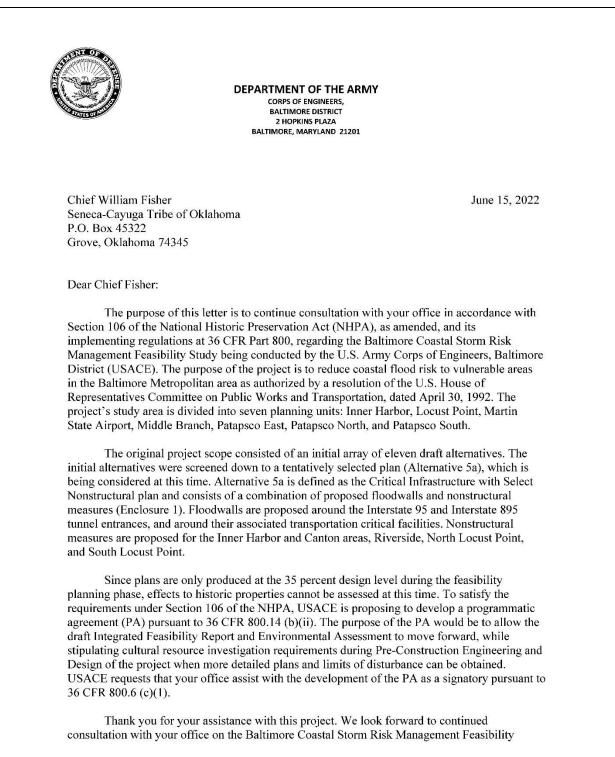
Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division



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Sincerely,

Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division



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Sincerely,

Daniel M. Bierly, P.E. Chief, Civil Project Development Branch Planning Division

From: To: Subject: Date: Katelyn Lucas Bean, Ethan A CIV USARMY CENAB (USA) [Non-DoD Source] RE: Section 106 Review – Baltimore Coastal Storm Risk Management Feasibility Study Tuesday, June 21, 2022 10:19:00 PM

Hello,

Yes, we would like to consult in the development of a PA for this project. Please keep me updated on any future developments for this project and the PA, thank you.

Sincerely, Katelyn Lucas Delaware Nation Historic Preservation Assistant; PhD Candidate 405-544-8115 klucas@delawarenation-nsn.gov

CONFIDENTIALITY NOTE:

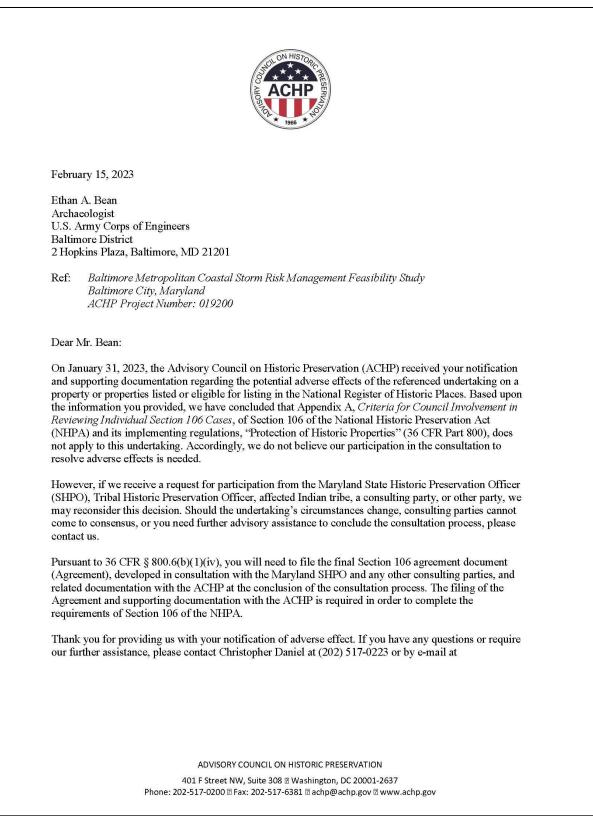
This e-mail (including attachments) may be privileged and is confidential information covered by the Electronic Communications Privacy Act 18 U.S.C. 2510-2521 and any other applicable law, and is intended only for the use of the individual or entity named herein. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any retention, dissemination, distribution or copying of this communication is strictly prohibited. Although this e-mail and any attachments are believed to be free of any virus or other defect that might affect any computer system in to which it is received and opened, it is the responsibility of the recipient to ensure that it is virus free and no responsibility is accepted by Delaware Nation or the author hereof in any way from its use. If you have received this communication in error, please immediately notify us by return e-mail. Thank you.

From: Bean, Ethan A CIV USARMY CENAB (USA) <ETHAN.A.BEAN@usace.army.mil>
Sent: Wednesday, June 15, 2022 5:01 PM
To: Katelyn Lucas
Subject: Section 106 Review – Baltimore Coastal Storm Risk Management Feasibility Study

Good afternoon,

Please find attached for your review information regarding the Baltimore Coastal Storm Risk Management Feasibility Study being conducted in Baltimore City and Baltimore County, Maryland. We are assessing alternatives that would reduce coastal flood risk to vulnerable areas in the Baltimore Metropolitan area. At this time, we are requesting assistance with the development of a programmatic agreement for the project. Please let me know if you are interested in consulting on

From: To: Subject: Date:	Eberle, Mark D Bean, Ethan A CIV USARMY CENAB (USA) [URL Verdict: Neutral][Non-DoD Source] Re: [EXTERNAL] Section 106 Review – Baltimore Coastal Storm Risk Management Feasibility Study Thursday, June 30, 2022 1:56:00 PM
Li Ethan	
Hi Ethan,	eur un with very en this study. Ves the National Dark Comise will be a sensulting
	ow up with you on this study. Yes, the National Park Service will be a consulting
	is programmatic agreement. We will follow up with an official letter to the USACE
confirming	
Also, coul	d you please share some of the project background information (feasibility
report/draf	t EA), so we can see how you got to the tentatively selected plan. I would like to
share with	the NPS Team.
Thanks,	
Mark	
Mark Eberle External Revie	w Coordinator / Resource Planning Specialist
National Park	51
	n 1, North Atlantic-Appalachian
	nning and Compliance Division Street, 20th Floor, Philadelphia, PA-19107
Cell Phone: 2	
General Work	Hours and Schedule: M: office 8:00am-4:00pm; T-F: telework 8:00am-4:30pm
DOI folks: che	k out the new and improved <u>RPC Division SharePoint Site</u>
From: Eberl	e, Mark D <mark_eberle@nps.gov></mark_eberle@nps.gov>
	day, June 16, 2022 8:52 AM
	han A CIV USARMY CENAB (USA) <ethan.a.bean@usace.army.mil></ethan.a.bean@usace.army.mil>
Subject: Re	[EXTERNAL] Section 106 Review - Baltimore Coastal Storm Risk Management Feasibility
Study	
Hi Ethan,	
0. 11194-119900000000000	coordinating this project with the National Park Service (NPS). I'll share the
Thanks fo	
Thanks fo informatio	n with the internal NPS team, and we will get back to you on whether we would like
Thanks fo information to consult o	n with the internal NPS team, and we will get back to you on whether we would like on this project. Also, could you please share some of the project background
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cdaniel@achp.gov and reference the ACHP Project Number above.

Sincerely,

Thompson tiske

Artisha Thompson Historic Preservation Technician Office of Federal Agency Programs

Baltimore Coastal Storm Risk Management Feasibility Study – Public Comments

Comment Number	1
Comment Submitter	
	James Looper Jr
Submitter Email	XXXXXXXXX
Method	Website
Comment	Please consider green infrastructure solutions! Including wetland & oyster reef restoration to combat storm surges as a compliment to traditional grey infrastructure
Action Needed in	
Report/Appendices	Add more reasoning for why NNBF was not as feasible in study area, within analysis text in report.
Response	Thank you for your comment. Natural and nature-based (NNBF) features were considered in the alternatives evaluated for the Baltimore Coastal Storm Risk Management Feasibility Study. The Middle Branch area was targeted for NNBF as part of multiple alternatives proposed. However, similar efforts were approved and received funding through a separate initiative called Reimagine Middle Branch. Additional information on the Reimagine Middle Branch initiative and how it ties into the Baltimore Coastal Storm Risk Management Feasibility study can be found in Section ### of the Final Report. Due to existing shoreline conditions, challenges in converting open water to wetland habitat, and space limitations, NNBF was determined to not meet the coastal storm risk management reduction goals.
Comment Number	2
Comment Submitter	
	Matthew Garono
Submitter Email	XXXXXXXXX
Method	Website
Comment	Storm surges have wreaked the most havoc in Fell's Point in the past so mitigating those should be a high priority. A permanent easement on real estate with so many restrictions is not ideal. Particularly no residences below grade even if flood resistant doors and windows are installed. This is a significant impairment to the property value as there are apartments in the lower levels of some of these buildings. Can you provide more detailed maps of the affected areas in Fell's Point?
Action Needed in	
Report/Appendices	
Response	Thank you for your comment. Participation in floodproofing would be voluntary. The non-federal sponsor would be responsible for obtaining all the required real estate interests on the affected parcels. Floodproofing would likely

	require a non-standard estate or agreement between the non-federal sponsor and the property owner(s). The
	agreement would define property owner rights, limitations, and responsibilities related to the project and the subject
	property. For additional information, please refer to Section 5 of Appendix F: Real Estate Plan in the final report.
Comment Number	3
Comment Submitter	
	Kyle St Denny
Submitter Email	XXXXXXXXX
Method	Website
Comment	So your plan for waterfront neighborhoods is to tell property owners to by storm windows and sump pumps? Thank oh wise civic leaders for our city's salvation. Like at least build some storm gardens or something, literally anything, do literally anything.
Action Needed in	
Report/Appendices	
Response	Thank you for your comment. The Recommended Plan includes floodproofing of vulnerable structures in the Canton, Fells Point, Inner Harbor and Locust Point areas. The recommended plan would be cost shared with a non-Federal sponsor at a break down of 65% federal and 35% non-federal. Floodproofing would be voluntary.
Comment Number	4
Comment Submitter	Blue Water Baltimore
Submitter Email	xxxxxxxx
Method	Website
Comment	***See Attachment below comment matrix.***
Action Needed in Report/Appendices	
Response	Modeling of storm scenarios with future sea level rise showed that some areas within the boundary of the Patapsco Wastewater Treatment Plant would experience water surface elevations above the ground elevation. The modeling conducted for this study did not show extensive damage from these future conditions. However, as the facility undergoes maintenance and upgrades, resilience to flooding should be considered for facility improvements.
Comment Number	5
Comment Submitter	The Nature Conservancy
Submitter Email	XXXXXXXXX

Method	Website
Comment	Thank you for the opportunity to provide comment on the Baltimore Metropolitan Coastal Storm Risk Management Feasibility Study Draft Integrated Feasibility Report & Environmental Assessment. I am the Baltimore Community Project Manager with The Nature Conservancy Maryland/DC chapter's Baltimore Program; Our Program focuses on addressing community-based interests and concerns around conservation and climate resiliency within the Baltimore City and Baltimore County geographic area.
	I would like to raise concerns regarding the following items: 1. The lack of effort to address diversity, equity, inclusion, and justice (DEIJ) concerns 2. The insufficient account of nature-based solutions as an area of opportunity 3. The omission of the Patapsco River mouth within the study area
	While the report in section 2.4.14 and 2.4.15 provides data on the socioeconomic and environmental justice conditions of communities within the study area, it makes no attempt to address these issues in the solutions offered. As an example, throughout the whole report, the word 'equity' is mentioned once. We highly recommend the application of a substantial DEIJ lens to the assessment moving forward.
	In section 1.7, Problems and Opportunities, the report says the following "shorelines are developed with limited opportunity for storm surge and wave attenuation and storage of floodwaters. There is limited opportunity for application of natural and nature-based features (NNBF) in most of the study area." The report then proceeds to outline two plan alternatives that include nature-based solutions but then, eliminate them from consideration in the evaluation. The treatment of nature-based solutions feels cursory and insufficient given the potential co-benefits provided to communities adjacent to the study area. Because of this, we suggest a more thorough investigation into nature-based solutions as a storm risk management tool.
	The report's study area did not include the mouth of the Patapsco River which is an overlook of resiliency issues as system issues. Excluding this presents an incomplete picture of the challenges and opportunities of storm risk management and leaves out an important part of the estuary system that could support wave attenuation. We recommend expanding the study area to include the mouth of the Patapsco River.
	Thank you for your consideration of the above while adjusting the report.
Action Needed in Report/Appendices	

Response	 Baltimore District believes the IFR/EA contains a robust Environmental Justice section. The section identifies 'EJ communities' from EPA screen and Disadvantaged communities from the Council of Environmental Quality Environmental and Economic Screening tool. Baltimore District hosted a public meeting at the Enoch Pratt Street Library – Southeast Anchor Branch, (which is adjacent to several disadvantaged areas according to the CEJST tool) to provide an opportunity for people in those communities to express their thoughts or concerns with the project. Section 4.2.14 includes that the project proponents are not expected to disproportionately impact EJ communities. Conversely, implementation of the alternatives proposed in the IFR/EA are expected to benefit EJ communities by ensuring public transportation through the Baltimore and Harbor tunnels is continually open, even during potential natural hazards or severe weather events. Please reference Section 5.3.4 Other Social Effects for additional information regarding health and safety, social vulnerability, economic vitality and community identity. The Middle Branch area provides the best opportunity within the study area for development of NNBF solutions and as this study progressed the initial efforts of the Middle Branch Resilience Initiative received funding. Our study assumes that the Future Condition of Middle Branch includes the construction of the NNBF and the benefits that are derived from them. The Patapsco River mouth was not totally in the Baltimore CSRM study area, and Baltimore County was not responsive with wanting to participate in the study.
Comment Number	6
Comment Submitter	
	South Baltimore Gateway Partnership
Submitter Email	XXXXXXXXX
Method	Website
Comment	I read the draft Baltimore Coastal Storm Risk Management Study with great interest, and appreciate the work that went into it.
	However, I would like to suggest that the preferred Alternative 5A be augmented to include the enhanced NNBF features shown in Alternative 9 (plus the resiliency features being executed around MedStar Harbor Hospital, which were not included). This change more accurately reflects the reality that these NNBF features are currently being funded and executed under the Middle Branch Resiliency Initiative (MBRI).
	At present, the \$47 million worth of work now underway under Stage 1 of the MBRI (along with the tens of millions of dollars in Stage 2 projects now in development) are relegated to background information about the study area. It is not even visible in Alternative 5A. This leads to an artificial and unnecessary splintering of the Patapsco-wide resiliency effort, dividing the "official" scenario of 5A from the "external" reality of work.

	If the MBRI were merely aspirational (e.g. a plan with no implementation capacity) or small in scale (e.g. a community- based tree-planting effort) I would understand this artificial distinction. But the fully-funded Stage 1 of MBRI constitutes a full third of the still-unfunded cost of Alternative 5A. It is also worth noting that the excluded MBRI work is in closest physical proximity to the low-income and minority communities shown in Figures 2-8 and 2-9. My intent in making this suggestion is not to obligate USACE to pay for NNBF elements in the Middle Branch, but rather to achieve a single unified strategy towards addressing resiliency across the Patapsco study area. This will assist all parties with policy, planning, permitting, and execution.
Action Needed in	
Report/Appendices	
Response	Thank you for your comment. Additional information on the Reimagine Middle Branch effort is included in Section 1.11 of the final report. Section 1.11 and 2.3.1 discusses how the Reimagine Middle Branch effort ties into the Baltimore Coastal Storm Risk Management Feasibility Effort to collectively enhance the resiliency in the Patapsco River Baltimore Metro Area.
Comment Number	7
Comment Submitter	
	Virginia Olyniec
Submitter Email	XXXXXXXXX
Method	Website
Comment	While this was done in coordination with MDOT, I see no references to Transit assets. Currently, there are light rail tracks and stations in this area. Also, the Shot Tower Metro station is listed in the State Hazard Mitigation Plan because of flooding. This should be included in any Inner Harbor flood mitigation project. We do not want another New York City situation with flooded tunnels.
Action Needed in	
Report/Appendices	Add text in section 3.3.3 with references to transit assets.
Response	A reference to the Shot Tower Metro Station and its identification in the Climate Change Vulnerability Assessment has been added to the description of the Inner Harbor Planning Unit in Section 3.3.3. The assets of the Shot Tower Metro Station were evaluated within the economic model as outlined in the Economic Appendix (Appendix E, Section 4.1).
Comment Number	8
Comment Submitter	
	Henry Farkas
Submitter Email	XXXXXXXX
Method	Website

Comment	The Army Corps of Engineers isn't thinking big enough.
	Army Corps floats \$134M plan for new flood walls, floodproofing to prevent future storm damage in Baltimore https://www.baltimoresun.com/news/environment/bs-md-army-corps-flooding-project-20220809- qgf4kdvepnhqvexwanl6zm4dq4-story.html
	The plan offer minimal protection for some places in Baltimore. That's silly. I know it's unusual for an old retired country doctor like me to tell a group of civil engineers that they're silly, but here's the plan they should be working on.
	They should emulate the flood control of the Netherlands. No, not the little Dutch boy with his finger in the little hole in the dike. The Netherlands have a flood control wall that normally sits on the bottom of the ocean where it won't impede shipping. When flooding is predicted, and flooding is always predictable, the wall is raised to prevent the flood.
	We need two of them. And the obvious places to put them are at the mouth of the Chesapeake Bay way down near Virginia Beach and at the mouth of the Chesapeake and Delaware Canal near Delaware City.
	Those two projects will protect all the communities along the Chesapeake Bay and its tributaries for a hundred years. If the Netherlands can do it, so can we.
Action Needed in Report/Appendices	
Response	A structure at the mouth of Chesapeake was outside the scope of this study. This study did examine two potential storm surge barrier locations within the Patapsco River. These were eliminated from consideration due to environmental concerns, economics, and real estate concerns.
Comment Number	9
Comment Submitter	Maryland Honey Shop – Nicole Poulos
Submitter Email	XXXXXXXXX
Method	
Comment	I have 4 honey bee hives in the Locust Point community garden, this is their 3rd year thriving there. The community has really embraced them and us and value having them in the neighborhood, and I fear a major flood would wipe our their hives, and their resources. I absolutely would value having some protection taken by the city in the event of a flood.

	Once a honeybee colony gets wet, especially in cold weather months, their survival is doomed. Honeybees shiver and fan to monitor humidity and temperature within their hive, and once a major amount of water enters, they can not mitigate and will drown. Moving hives requires advanced planning, and, since bees navigate by the coordinates of the sun, hives cannot be moved more than two feet at a time, unless they are moved beyond a five mile radius. I fear that if the Haubert and Hull street location would flood, close to the harbor, we would not have a chance to save these
	colonies we've been nurturing over the last 3 years. Lastly, the bees source from the local garden, neighborhood clover and flowers, trees and plant. If Locust Point were to flood, and recovery of plants, vegetation and soil were to take a long time to recover, we would not be able to re-start hives potentially for at least an additional year. We started these hives because of the love of these insects, and hoped the community would not mind their presence. When we work in the hives, we constantly have people asking about their health, expressing their love of them and the honey, and if there's anything they could do to help. I really believe that we would all be devastated if Locust Point were to flood, and these colonies were to be wiped out.
	Feel free to reach out if you have any questions or concerns.
Action Needed in Report/Appendices	
Response	Thank you for your comment. The analysis of storm inundation indicates that the Locust Point Community Garden is at an elevation higher than projected flooding. Road and sidewalks are projected to be above flood elevations from Fort Avenue. Damage from winds, power outages, and other effects not directly related to inundation were not evaluated in this study.
Comment Number	10
Comment Submitter	Locust Point (LPCA)
Submitter Email	XXXXXXXXX
Method	
Comment	Locust Point concerns include making sure policies address chemical and industrial sites due to increased risk caused by Climate Change (sea level rise, storm surges and large rain events). In Locust Point we have hazardous waste in storage farms, on trains/rail yards and in piles. We also have contaminated soils that, if flooded, could be detrimental to residents, houses and the harbor/bay.

Locust Point does not have any evacuation or notification plans for residents or business in case of storm surges or flood events. Being a peninsula, there are only three exit roads out of the community and two of them have a strong potential of being flooded. In addition, Locust Point already gets some street flooding due to large rain events caused by having too much hardscape, lack of storm water retention areas and limited tree coverage.

The US Army Corp of Engineers needs to work and plan with the EPA to support robust worst-case discharge planning regulations for above-ground tanks, other onshore facilities that store or use hazardous substances, rail yards and transportation of material out of the community(rails/truck). Below is our request to the items that is needed to be incorporated into the EPA's plans and subsequent USACE and MDOT plans.

• EPA needs to define "facility" in a way that reflects reality and prevents gamesmanship. EPA should adopt the common-ownership, -operation, or -control definition of "facility" from the EPCRA and Clean Air Act contexts to ensure owners and operators cannot dodge compliance simply by breaking their operations into numerous "mini-facilities" that won't reach EPA's screening thresholds.

• While EPA properly focuses the initial screening analysis on a facility's location and storage capacity of hazardous substances, the proposed screening thresholds are too restrictive. Under the proposed rule many dangerous chemical facilities do not even need to assess the risk a worst-case discharge would pose to public health or the environment. In the final rule, EPA should decrease the hazardous substance storage threshold and base compliance with that threshold on the facility's aggregate storage capacity for all hazardous substances on-site. EPA should also supplement its half-mile distance threshold with alternative thresholds based on real-world hazard-based criteria, including whether a facility is located within a FEMA-defined 500-year floodplain, in an area particularly susceptible to wildfires, or near a community that reflects environmental justice concerns.

• For facilities that pass the initial screening, EPA should expand its substantial-harm criteria to better account for facility discharge history, drinking water risks, and facility density. The final rule should require any facility with a hazardous substance discharge within the last ten years, located within a Source Water Protection Area, or within an area with a high density of hazardous substance facilities to prepare a facility response plan.

• EPA's definition of "worst case discharge" is too narrow and therefore does not capture the largest foreseeable discharge in adverse weather conditions. The final rule should define "worst case discharge" based on a facility's total hazardous substance capacity to capture the foreseeable occurrence of multi-tank discharges caused by natural hazards like floods, hurricanes, and earthquakes. Facilities should also have to separately analyze the worst-case

discharge for each hazardous substance on site, unless the analysis prepared for another hazardous substance adequately accounts for the risks involved and the necessary response.
• For facilities preparing response plans, EPA should strengthen the required hazard evaluation by mandating consideration of all hazardous substances stored at a facility, as well as cascading effects on co-located or proximate facilities. The final rule should also require that hazard evaluations use up-to-date projections of climate risks as determined by EPA and prescribe specific types of analysis and consultation to assess hazards to environmental justice communities.
• For facilities preparing response plans, EPA should mandate consideration of—and to the extent practicable, the implementation of—inherently safer technologies and designs related to hazardous substance storage, discharge prevention, and discharge response on site.
• EPA should expand its criteria for when facilities must update response plans, require annual plan reviews to ensure plans are based on up-to-date information, and require, in any event, plan amendments every five years.
• EPA must prioritize the public's right to know by committing to setting up a searchable, online database with the current and past substantial harm analyses and facility response plans. The final rule should also require facilities to regularly share information and consult with nearby public drinking water systems.
• EPA should require facilities to contract with a third-party to assess and monitor community health effects following a discharge that reaches a public water system or public receptors, and to make the information publicly available.
In conjunction with the EPA and MDOT, the USACE should at least once each calendar year, the owner or operator of a stationary source with any Program 2 or Program 3 process must conduct an exercise of the stationary source's emergency response notification mechanisms per 40 CFR 68.90(b)(3) or 68.95(a)(1)(i), as appropriate, before December 19, 2024, and annually thereafter (40 CFR Section 68.96(a)). Additionally, the owner or operator of a stationary source subject to the requirements of 40 CFR Section 68.95 must develop and implement an exercise program that includes field and/or tabletop exercises for its emergency response program (40 CFR Section 68.96(b)).
We urge the USACE to adopt our recommendations to ensure the final plans lives up to its potential of providing robust protections for communities, public health, and the environment in the age of a changing climate.
Thank you,

	Dave Arndt
Action Needed in	
Report/Appendices	
Response	USACE policy and guidance (ER 1165-2-132 and ER 1105-2-100) limits USACE participation in clean up of materials regulated by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or by the Resource Conservation and Recovery Act (RCRA). While measures to improve water quality parameters may be included in projects with an ecosystem restoration component, the ecosystem restoration portion of these projects should not principally result in treating or otherwise abating pollution or other compliance responsibility. In short, policy is to avoid expenditure of Civil Works funds for HTRW remediation by avoiding contaminated areas where practicable. The objective of the current project was to reduce risk from coastal storms. The PDT avoided proposing constructing measures that would impact known areas with chromium ore contamination. Shoreline erosion from coastal storms was not identified as a problem in the study area. The location and potential damage to above-ground petroleum storage tanks were evaluated.