Appendix C

Biological Resources

Draft Environmental Assessment Proposed Airport Traffic Control Tower and Associated Improvements at BWI Marshall Airport

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APPENDIX C: Biological Resources

The following attachments are included in this appendix to support the biological resources analysis:

- Attachment 1: USFWS Letter with Official Species List, February 14, 2024.
- Attachment 2: USFWS Determination for the Northern Long-Eared Bat, October 10, 2023.
- Attachment 3: MDNR WHS Environmental Review Request Letter, September 29, 2023.
- Attachment 4: MDNR WHS Response, November 8, 2023.
- Attachment 5: MDNR Aquatic Resources Screening Tool Map, November 13, 2023.
- Attachment 6: Forest Conservation Worksheets for Mitigation Requirements.
- Attachment 7: Updated Forest Stand Delineation for Direct Study Area, CRI, December 2023.
- Attachment 8: MDNR WHS Updated Forest Stand Delineation Approval Letter, to be provided.

Attachment 1:

USFWS Letter with Official Species List

February 14, 2024



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: February 14, 2024

Project Code: 2024-0002873

Project Name: BWI ATCT EA Tree Removal

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 IPaC 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 <u>Migratory Bird Permit | What We Do | U.S. Fish & Wildlife Service (fws.gov)</u>.

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

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 code: 2024-0002873

PROJECT SUMMARY

Project Code: 2024-0002873

Project Name: BWI ATCT EA Tree Removal
Project Type: Airport - Maintenance/Modification

Project Description: The Maryland Aviation Administration (MAA) is preparing an

Environmental Assessment (EA) to assist the Federal Aviation Administration (FAA) in evaluating potential environmental effects resulting from a new Airport Traffic Control Tower (ATCT) and

associated improvements at BWI Marshall Airport. The Proposed Action consists of the construction of a new air traffic control tower (ATCT), operational spaces for FAA staffing offices, a new hotel, removal of adjacent line of sight obstructions associated with the new ATCT and between the existing ATCT and future taxiway, upgrades to the ramp control tower so it can function as a supplemental ATCT during

construction, and construction of a duct bank to supply power to the new ATCT. The project study area consists of approximately 9 acres of currently paved terminal area, 13 acres of mature mixed forest, and 24 acres of potential staging area which is currently paved/impervious.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.1644119,-76.66945557759335,14z



Counties: Anne Arundel County, Maryland

Project code: 2024-0002873 02/14/2024

ENDANGERED SPECIES ACT SPECIES

There is a total of 2 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. NOAA Fisheries, 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

STATUS NAME Northern Long-eared Bat Myotis septentrionalis Endangered No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045

INSECTS

NAME **STATUS**

Monarch Butterfly *Danaus plexippus*

Candidate No critical habitat has been designated for this species.

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

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.

Project code: 2024-0002873 02/14/2024

IPAC USER CONTACT INFORMATION

Agency: Federal Aviation Administration

Name: Genevieve Walker

Address: 13783 Park Center Road, Suite 490S

City: Herndon State: VA Zip: 20171

Email genevieve.j.walker@faa.gov

Phone: 7034873979

Attachment 2:

USFWS Determination for the Northern Long-Eared Bat

October 10, 2023



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: October 10, 2023

Project code: 2024-0002873

Project Name: BWI ATCT EA Tree Removal

Federal Nexus: yes

Federal Action Agency (if applicable): Federal Aviation Administration

Subject: Federal agency coordination under the Endangered Species Act, Section 7 for 'BWI

ATCT EA Tree Removal'

Dear Genevieve Walker:

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 October 10, 2023, for 'BWI ATCT EA Tree Removal' (here forward, Project). This project has been assigned Project Code 2024-0002873 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (Act) requirements may not be complete.**

Ensuring Accurate Determinations When Using IPaC

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 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 Northern Long-eared Bat Rangewide Determination Key (DKey), invalidates this letter. *Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.*

Determination for the Northern Long-Eared Bat

Based upon your IPaC submission and a standing analysis completed by the Service, your project has reached the determination of "May Affect, Not Likely to Adversely Affect" the northern long-eared bat. Unless the Service advises you within 15 days of the date of this letter that your

IPaC-assisted determination was incorrect, this letter verifies that consultation on the Action is <u>complete</u> and no further action is necessary unless either of the following occurs:

- new information reveals effects of the action that may affect the northern long-eared bat in a manner or to an extent not previously considered; or,
- the identified action is subsequently modified in a manner that causes an effect to the northern long-eared bat that was not considered when completing the determination key.

15-Day Review Period

As indicated above, the Service will notify you within 15 calendar days if we determine that this proposed Action does not meet the criteria for a "may affect, not likely to adversely affect" (NLAA) determination for the northern long-eared bat. If we do not notify you within that timeframe, you may proceed with the Action under the terms of the NLAA concurrence provided here. This verification period allows the identified Ecological Services Field Office to apply local knowledge to evaluation of the Action, as we may identify a small subset of actions having impacts that we did not anticipate when developing the key. In such cases, the identified Ecological Services Field Office may request additional information to verify the effects determination reached through the Northern Long-eared Bat DKey.

You have indicated that you must remove a hazard tree in order to prevent imminent loss of human life. Be advised that the Act's implementing regulations (50 CFR part 17) include a take exemption pursuant to the defense of human life (for endangered species, see 50 CFR 17.21(c) (2)): "any person may take endangered [or threatened] wildlife in defense of his own life or the lives of others."). The regulations at 50 CFR 17.21(c)(4) require that any person taking, including killing, listed wildlife in defense of human life under this exception must notify our headquarters Office of Law Enforcement, at the address provided at 50 CFR 2.1(b), in writing, within 5 days. In addition, section 11 of the Act enumerates the penalties and enforcement of the Act. In regard to civil penalties, section 11(a)(3) of the Act states, "Notwithstanding any other provision of this [Act], no civil penalty shall be imposed if it can be shown by a preponderance of the evidence that the defendant committed an act based on a good faith belief that he was acting to protect himself or herself, a member of his or her family, or any other individual from bodily harm, from any endangered or threatened species" (16 U.S.C. 1540(a)(3)). Section 11(b) (3) of the Act contains similar language in regard to criminal violations (see 16 U.S.C. 1540(b) (3)). If you think incidental take of listed bats was reasonably certain to have occurred as a result of your hazard tree removal, we advise you to contact the Office of Law Enforcement as outlined above. In the future, we recommend planning ahead so that tree removal of potentially hazardous trees does not become an emergency. If you determine an emergency exists, however, and human life is in imminent danger, do not delay action. Also do not delay action if removal of the hazard tree is part of a federal response to a situation involving an act of God, disaster, casualty, national defense or security emergency, etc. - coordinate with the local USFWS field office as soon as practicable after the emergency is under control.

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination for the northern long-eared bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

• Monarch Butterfly *Danaus plexippus* Candidate

You may coordinate with our Office to determine whether the Action may affect the species and/ or critical habitat listed above. Note that reinitiation of consultation would be necessary if a new species is listed or critical habitat designated that may be affected by the identified action before it is complete.

If you have any questions regarding this letter or need further assistance, please contact the Chesapeake Bay Ecological Services Field Office and reference Project Code 2024-0002873 associated with this Project.

Action Description

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

1. Name

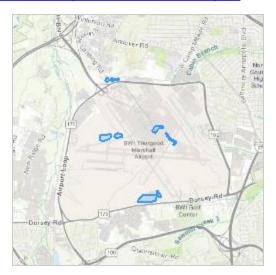
BWI ATCT EA Tree Removal

2. Description

The following description was provided for the project 'BWI ATCT EA Tree Removal':

The Maryland Aviation Administration (MAA) is preparing an Environmental Assessment (EA) to assist the Federal Aviation Administration (FAA) in evaluating potential environmental effects resulting from a new Airport Traffic Control Tower (ATCT) and associated improvements at BWI Marshall Airport. The Proposed Action consists of the construction of a new air traffic control tower (ATCT), operational spaces for FAA staffing offices, a new hotel, removal of adjacent line of sight obstructions associated with the new ATCT and between the existing ATCT and future taxiway, upgrades to the ramp control tower so it can function as a supplemental ATCT during construction, and construction of a duct bank to supply power to the new ATCT. The project study area consists of approximately 9 acres of currently paved terminal area, 13 acres of mature mixed forest, and 24 acres of potential staging area which is currently paved/impervious.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.1644189,-76.66944287198986,14z



DETERMINATION KEY RESULT

Based on the answers provided, the proposed Action is consistent with a determination of "may affect, but not likely to adversely affect" for the Endangered northern long-eared bat (*Myotis septentrionalis*).

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of the northern long-eared bat or any other listed species?

Note: Intentional take is defined as take that is the intended result of a project. Intentional take 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

2. The proposed action does not intersect an area where the northern long-eared bat is likely to occur, based on the information available to U.S. Fish and Wildlife Service as of the most recent update of this key. If you have data that indicates that northern long-eared bats are likely to be present in the action area, answer "NO" and continue through the key.

Do you want to make a no effect determination?

3. The action area does not overlap with an area for which U.S. Fish and Wildlife Service currently has data to support the presumption that the northern long-eared bat is present. Are you aware of other data that indicates that northern long-eared bats (NLEB) are likely to be present in the action area?

Bat occurrence data may include identification of NLEBs in hibernacula, capture of NLEBs, tracking of NLEBs to roost trees, or confirmed NLEB acoustic detections. Data on captures, roost tree use, and acoustic detections should post-date the year when whitenose syndrome was detected in the relevant state. With this question, we are looking for data that, for some reason, may have not yet been made available to U.S. Fish and Wildlife Service.

No

4. Does any component of the action involve construction or operation of 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*

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

Yes

6. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

No

7. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

Note: This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

Yes

8. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

No

9. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)? *No*

10. Have you determined that your proposed action will have no effect on the northern longeared bat? Remember to consider the <u>effects of any activities</u> that would not occur but for the proposed action.

If you think that the northern long-eared bat may be affected by your project or if you would like assistance in deciding, answer "No" below and continue through the key. If you have determined that the northern long-eared bat does not occur in your project's action area and/or that your project will have no effects whatsoever on the species despite the potential for it to occur in the action area, you may make a "no effect" determination for the northern long-eared bat.

Note: Federal agencies (or their designated non-federal representatives) must consult with USFWS on federal agency actions that may affect listed species [50 CFR 402.14(a)]. Consultation is not required for actions that will not affect listed species or critical habitat. Therefore, this determination key will not provide a consistency or verification letter for actions that will not affect listed species. If you believe that the northern long-eared bat may be affected by your project or if you would like assistance in deciding, please answer "No" and continue through the key. Remember that this key addresses only effects to the northern long-eared bat. Consultation with USFWS would be required if your action may affect another listed species or critical habitat. The definition of Effects of the Action can be found here: https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions

No

11. [Semantic] Is the action area located within 0.5 miles of a known northern long-eared bat hibernaculum?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

12. Does the action area contain any caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating northern long-eared bats?

No

13. Is suitable summer habitat for the northern long-eared bat present within 1000 feet of project activities?

(If unsure, answer "Yes.")

Note: If there are trees within the action area that are of a sufficient size to be potential roosts for bats (i.e., live trees and/or snags ≥3 inches (12.7 centimeter) dbh), answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat can be found at: https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions

Yes

14. Will the action cause effects to a bridge?

No

15. Will the action result in effects to a culvert or tunnel?

No

16. Does the action include the intentional exclusion of northern long-eared bats from a building or structure?

Note: Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local U.S. Fish and Wildlife Services Ecological Services Field Office to help assess whether northern long-eared bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures

No

- 17. Does the action involve removal, modification, or maintenance of a human-made structure (barn, house, or other building) **known or suspected to contain roosting bats?**No
- 18. Will the action cause construction of one or more new roads open to the public?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

19. Will the action include or cause any construction or other activity that is reasonably certain to increase average daily traffic on one or more existing roads?

Note: For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

20. Will the action include or cause any construction or other activity that is reasonably certain to increase the number of travel lanes on an existing thoroughfare?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

21. Will the proposed action involve the creation of a new water-borne contaminant source (e.g., leachate pond pits containing chemicals that are not NSF/ANSI 60 compliant)? *No*

22. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

No

23. Will the action include drilling or blasting?

Yes

24. Will the drilling or blasting affect known or potentially suitable hibernacula, summer habitat, or active year-round habitat (where applicable) for the northern long-eared bat?

Note: In addition to direct impacts to hibernacula, consider impacts to hydrology or air flow that may impact the suitability of hibernacula. Additional information defining suitable summer habitat for the northern long-eared bat can be found at: https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions

No

- 25. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use)? *No*
- 26. Will the proposed action involve the use of herbicides or pesticides other than herbicides (e.g., fungicides, insecticides, or rodenticides)?
- 27. Will the action include or cause activities that are reasonably certain to cause chronic nighttime noise in suitable summer habitat for the northern long-eared bat? Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time.

Note: Additional information defining suitable summer habitat for the northern long-eared bat can be found at: https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions *No*

28. Does the action include, or is it reasonably certain to cause, the use of artificial lighting within 1000 feet of suitable northern long-eared bat roosting habitat?

Note: Additional information defining suitable roosting habitat for the northern long-eared bat can be found at: https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions *No*

29. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

Yes

30. Has a presence/probable absence summer bat survey targeting the northern long-eared bat following the Service's <u>Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines</u> been conducted within the project area? If unsure, answer "No."

No

31. Does the action include emergency cutting or trimming of hazard trees in order to remove an imminent threat to human safety or property? See hazard tree note at the bottom of the key for text that will be added to response letters

Note: A "hazard tree" is a tree that is an immediate threat to lives, public health and safety, or improved property and has a diameter breast height of six inches or greater.

Yes

- 32. Are any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming suitable for northern long-eared bat roosting (i.e., live trees and/or snags ≥3 inches dbh that have exfoliating bark, cracks, crevices, and/or cavities)? Yes
- 33. [Semantic] Does your project intersect a known sensitive area for the northern long-eared bat?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your state agency or USFWS field office

Automatically answered

No

34. <u>Will all tree cutting/trimming or other knocking or bringing down of trees be restricted to</u> the inactive season for the northern long-eared bat?

Note: Inactive Season dates for summer habitat outside of staging and swarming areas can be found here: https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas.

No

10/10/2023

PROJECT QUESTIONNAIRE

Enter the extent of the action area (in acres) from which trees will be removed - round up to the nearest tenth of an acre. For this question, include the entire area where tree removal will take place, even if some live or dead trees will be left standing.

13.35

In what extent of the area (in acres) will trees be cut, knocked down, or trimmed during the <u>inactive</u> (hibernation) season for northern long-eared bat? **Note:** Inactive Season dates for spring staging/fall swarming areas can be found here: https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas

13.35

In what extent of the area (in acres) will trees be cut, knocked down, or trimmed during the <u>active</u> (non-hibernation) season for northern long-eared bat? **Note:** Inactive Season dates for spring staging/fall swarming areas can be found here: https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas

13.35

Will all potential northern long-eared bat (NLEB) roost trees (trees ≥3 inches diameter at breast height, dbh) be cut, knocked, or brought down from any portion of the action area greater than or equal to 0.1 acre? If all NLEB roost trees will be removed from multiple areas, select 'Yes' if the cumulative extent of those areas meets or exceeds 0.1 acre.

Yes

Enter the extent of the action area (in acres) from which all potential NLEB roost trees will be removed. If all NLEB roost trees will be removed from multiple areas, entire the total extent of those areas. Round up to the nearest tenth of an acre.

13.35

For the area from which all potential northern long-eared bat (NLEB) roost trees will be removed, on how many acres (round to the nearest tenth of an acre) will trees be allowed to regrow? Enter '0' if the entire area from which all potential NLEB roost trees are removed will be developed or otherwise converted to non-forest for the foreseeable future.

0

Will any snags (standing dead trees) ≥3 inches dbh be left standing in the area(s) in which all northern long-eared bat roost trees will be cut, knocked down, or otherwise brought down?

No

Will all project activities by completed by April 1, 2024?

No

10/10/2023

IPAC USER CONTACT INFORMATION

Agency: Federal Aviation Administration

Name: Genevieve Walker

Address: 13783 Park Center Road, Suite 490S

City: Herndon State: VA Zip: 20171

Email genevieve.j.walker@faa.gov

Phone: 7034873979

Attachment 3:

MDNR WHS Environmental Review Request Letter

September 29, 2023



Via Email: lori.byrne@maryland.gov

September 29, 2023

Ms. Lori Byrne
Maryland Department of Natural Resources Wildlife and Heritage
Service Tawes State Office Bldg., E-1
580 Taylor Avenue
Annapolis, MD 21401

Subject: Environmental Review Request: Rare, Threatened, and/or Endangered Species

ATCT Environmental Assessment at Baltimore Washington International (BWI)

Thurgood Marshall Airport

Dear Ms. Byrne:

The Maryland Aviation Administration (MAA) is preparing an Environmental Assessment (EA) to assist the Federal Aviation Administration (FAA) in evaluating potential environmental effects resulting from a new Airport Traffic Control Tower (ATCT) and associated improvements at BWI Marshall Airport. The Proposed Action consists of the construction of a new air traffic control tower (ATCT), operational spaces for FAA staffing offices, a new hotel, removal of adjacent line of sight obstructions associated with the new ATCT and between the existing ATCT and future taxiway, upgrades to the ramp control tower so it can function as a supplemental ATCT during construction, and construction of a duct bank to supply power to the new ATCT. The project study area consists of approximately 9 acres of currently paved terminal area, 13 acres of mature mixed forest, and 24 acres of potential staging area which is currently paved/impervious. A vicinity map of the proposed project is included as **Attachment 1**.

The purpose of this letter is to request information and comments from the Maryland Department of Natural Resources (DNR) Wildlife and Heritage Service regarding the potential for impacts to rare, threatened, and endangered (RTE) species within the project study area. In addition to this letter, we have also used the DNR Environmental Review Program (ERP) Aquatic Resources Screening Tool online to assess potential project impacts to fisheries and other aquatic resources.

If you have any questions or concerns regarding this letter, please feel free to contact me at 717-433-3519 or emmab@cri.biz.

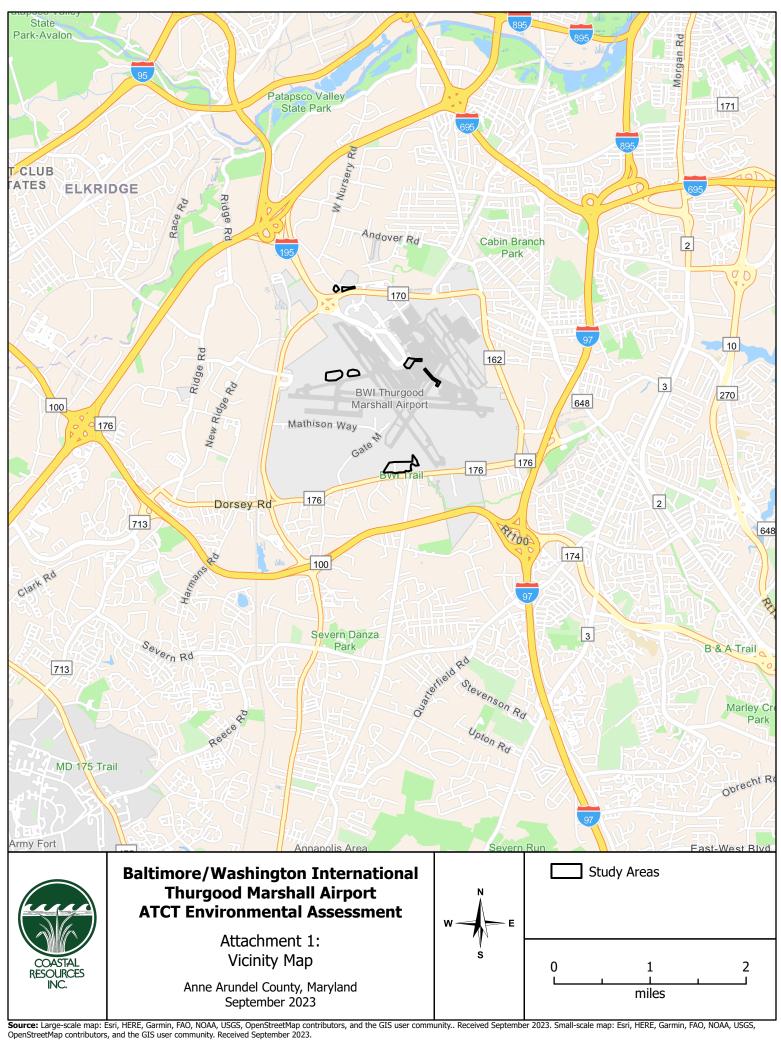
Sincerely,

Emma C. Beck

Environmental Scientist

Emma (Feel

Enclosure: Attachment 1 – Vicinity Map



Attachment 4:

MDNR WHS Response

November 8, 2023



Wes Moore, Governor
Aruna Miller, Lt. Governor
Josh Kurtz, Secretary
David Goshorn, Deputy Secretary

November 8, 2023

Ms. Emma C. Beck Coastal Resources, Inc. 25 Old Solomons Island Road Annapolis, MD 21401

RE: Environmental Review for New Air Traffic Control Tower at BWI Marshall Airport and Associated Improvements, Anne Arundel County, Maryland.

Dear Ms. Beck:

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 lori.byrne@maryland.gov or at (410) 260-8573.

Sincerely,

Lori A. Byrne,

Louia. Bym

Environmental Review Coordinator Wildlife and Heritage Service MD Dept. of Natural Resources

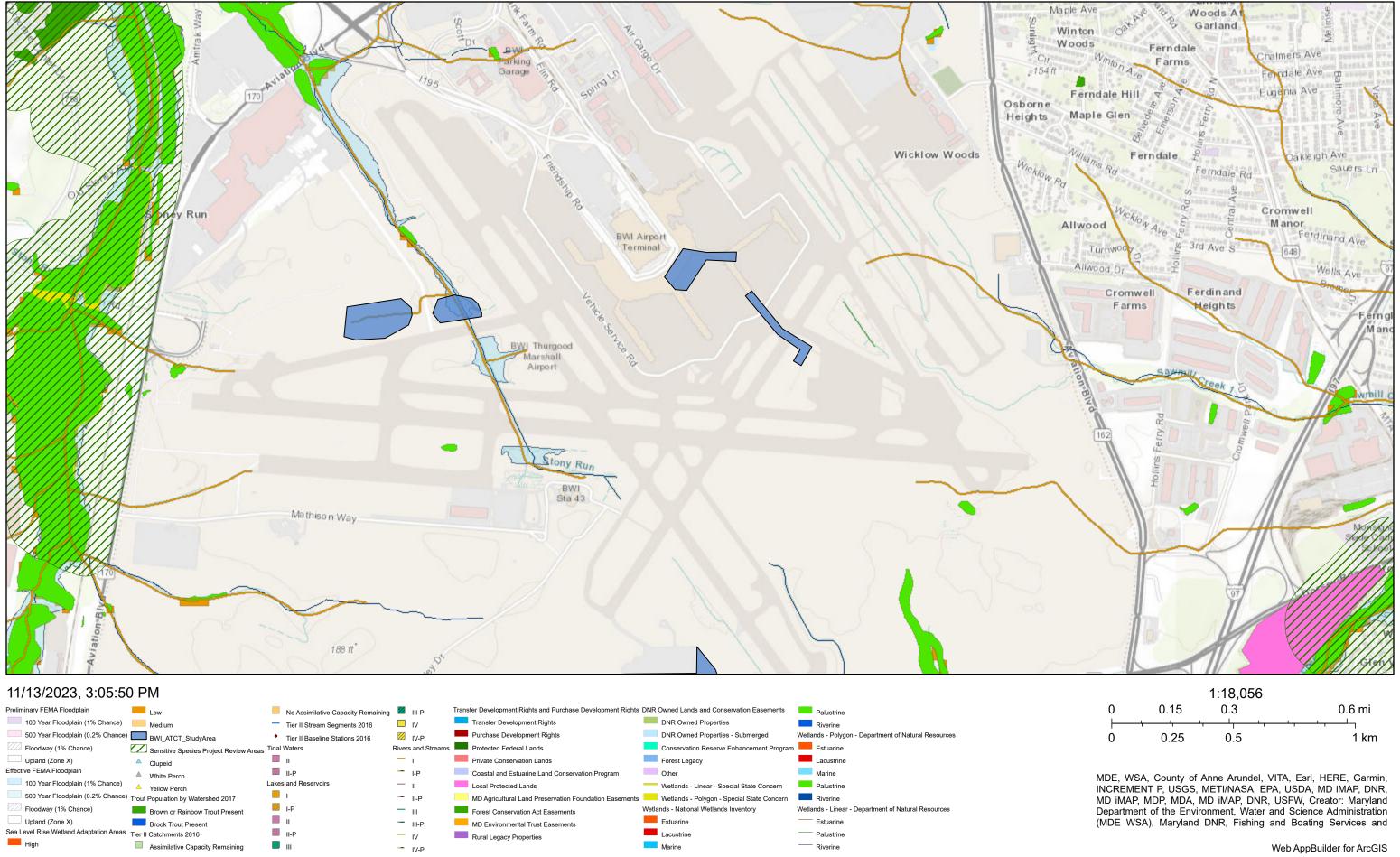
ER# 2023.1522.aa

Attachment 5:

MDNR Aquatic Resources Screening Tool Map

November 13, 2023

ArcGIS Web Map



Attachment 6:

Forest Conservation Worksheets for Mitigation Requirements
February 2024

Forest Conservation Worksheet

ATCT and C-D Connector Program (including hotel and FAA offices)

Net Tract	Area		
A.	Total Tract Area	A =	2.50
B.	Deductions	B =	0.00
C.	Net Tract Area	C =	2.50
Land Use	Category	_	_
	Input the number "1" under the appropriate land use	;	
	zoning, and limit to only one entry		
	ARA MDR IDA HDR MPD CIA	4	
	0 0 1 0 0 0		
D.	Afforestation Threshold (Net Tract Area x 15%)	D =	0.38
E.	Conservation Threshold (Net Tract Area x 20%)	E = -	0.50
Existing F	Forest Cover	-	
F.	Existing Forest Cover within the Net Tract Area	F =	0.00
G.	Area of Forest Above Conservation Threshold	G =	0.00
Break Eve	en Point	_	_
H.	Break Even Point	H = _	0.00
1.	Forest Clearing Permitted Without Mitigation	Ι= _	0.00
Proposed	Forest Clearing		
J.	Total Area of Forest to be Cleared	J =	0.00
K.	Total Area of Forest to be Retained	K =	0.00
Planting F	Requirements		
L.	Reforestation for Clearing Above the Conservation Threshold	L = _	0.00
M.	Reforestation for Clearing Below the Conservation Threshold	M = _	0.00
N.	Credit for Retention above the Conservation Threshold	N = _	0.00
P.	Total Reforestation Required	P = _	0.00
Q.	Total Afforestation Required	Q = _	0.38
R.	Total Planting Requirement	R =	0.38
	Sq. Ft Acres PIL		16,335.00 0.38 \$1,633.50

Forest Conservation Worksheet

Proposed Action Alternative - Existing & Proposed ATCT LOS Obstr

Net Tract	Area						
A.	Total Tract Area			A =	9.09		
B.	Deductions			B =	1.09		
C.	Net Tract Area			C =	8.00		
Land Use	Category			<u>-</u>	_		
	Input the number "1" under the ap						
	zoning, and limit to only one entry						
	ARA MDR IDA HDR	MPD	CIA				
	0 0 1 0	0	0				
D.	Afforestation Threshold (Net Tract Area x	15%)	D =	1.20		
E.	Conservation Threshold (Net Tract Area x	20%)	E = .	1.60		
Existing F	orest Cover			-			
F.	Existing Forest Cover within the Net Tract Ar	ea		F =	8.00		
G.	Area of Forest Above Conservation Threshol	d		G =	6.40		
Break Eve	en Point			_			
H.	Break Even Point			H = _	2.88		
1.	Forest Clearing Permitted Without Mitigation		I =	5.12			
Proposed	Forest Clearing						
J.	Total Area of Forest to be Cleared		J =	7.74			
K.	Total Area of Forest to be Retained		K =	0.26			
Planting Requirements							
L.	Reforestation for Clearing Above the Conservation		L = _	1.60			
M.	Reforestation for Clearing Below the Conserv	eshold	M = _ N =	2.68			
N.	Credit for Retention above the Conservation Threshold				0.00		
P.	Total Reforestation Required		P = _	4.28			
Q.	Total Afforestation Required			Q =	0.00		
R.	Total Planting Requirement			R = _	4.28		
			Sq. Ft. Acres		186,436.80 4.28		
			PIL		\$18,643.68		

Forest Conservation Worksheet

No Action Alternative - Existing ATCT LOS Obstructions

Net Tract	Area							
A.	Total Tract	Area					A =	9.09
B.	Deductions					B =	3.40	
C.	Net Tract Area						C =	5.69
Land Use	d Use Category							
	Input the number "1" under the appropriate land use							
	zoning, and limit to only one entry							
	ARA	MDR	IDA	HDR	MPD	CIA		
	0	0	1	0	0	0		
D	A fforcetatio	n Throchold (Not Troo	t Aron v	15%	\	D -	0.85
D. E.		n Threshold (on Threshold (20%)	D = . E =	1.14
_ -	Forest Cove		Net Hat	Alea X	20%)	<u> </u>	1.14
F.			nin the Net	t Tract Δres	<u>.</u>		F =	5.69
G.	Existing Forest Cover within the Net Tract Area Area of Forest Above Conservation Threshold					G =	4.55	
Break Eve		001710070 001	ioci valion	TTILCOTTOIG			٠.	4.00
H.	Break Even	Point					H =	2.05
I.	Forest Clearing Permitted Without Mitigation					l =	3.64	
	Forest Clea						•	0.0.
J.	_					J =	5.44	
K.	Total Area of Forest to be Retained					K =	0.25	
Planting Requirements								
L.	Reforestation for Clearing Above the Conservation Threshold L =							1.14
M.	Reforestation for Clearing Below the Conservation Threshold					M =	1.78	
N.	Credit for Retention above the Conservation Threshold					N =	0.00	
P.	Total Refor	estation Requ	red				P =	2.91
Q.	Total Afforestation Required					Q =	0.00	
R.	Total Planti	ng Requireme	nt				R =	2.91
							_	
						Sq. Ft.		126,933.84
						Acres		2.91
						PIL		\$12,693.38

Attachment 7:

Updated Forest Stand Delineation for Direct Study Area

CRI

December 2023

MEMORANDUM

DATE: December 22, 2023

TO: Dan Hinder, Maryland Aviation Administration

FROM: Emma Beck, Coastal Resources Inc.

CC: Kim Hughes, HNTB

Sean Sipple, Coastal Resources, Inc.

SUBJECT: Baltimore/Washington International Thurgood Marshall Airport Air Traffic Control

Tower (ATCT) Environmental Assessment Forest Stand Delineation

1.0 Introduction

Coastal Resources, Inc. (CRI), sub-consultant to HNTB Corporation (HNTB), under contract to the Maryland Department of Transportation Maryland Aviation Administration (MAA), delineated and characterized forest stands and identified specimen trees within the Air Traffic Control Tower (ATCT) and associated improvements Environmental Assessment (EA) Study Area. The Study Area consists of two forested areas north of Taxiway F where MAA is proposing to remove trees that have been identified as either obstructions to the Federal Aviation Regulations (FAR) Part 77 airspace protective surfaces or will impede line-of-sight (LOS) from the existing/future Air Traffic Control Tower to the future Taxiway F end (See Appendix A – Forest Stand Delineation Map).

2.0 Methodology

A forest stand delineation and specimen tree survey were conducted within the study area, in accordance with the State Forest Conservation Technical Manual (Third Edition, 1997). For this survey, specimen trees measuring 30 inches or greater in diameter at breast height (DBH) were identified. All trees were measured using a DBH tape at 4.5 feet above the ground. The species, size, and condition of all identified trees were recorded. All specimen trees were tagged and numbered. Forest stand boundaries were delineated on project mapping and stand characteristics were recorded on datasheets. Information collected for each identified forest stand included successional stage, dominant and co-dominant species, common understory and herbaceous species, percent canopy closure, prevalence of downed woody debris, presence of invasive species, and basal area. Each forest stand was photographed.

3.0 Results

Forest Stand Characterization

A total of three forest stands were identified within the study area. The location of the forest stands is displayed on the Forest Stand Delineation Map in **Appendix A.** The identified forest stands are described below and datasheets are included in **Appendix B.** Photographs of each stand are included in **Appendix C.**

Stand A is a Virginia pine and southern red oak forest occurring north of Taxiway F and east and west of Taxiway W. The canopy of this early to mid-successional forest is dominated by Virginia Pine (*Pinus virginiana*) ranging from 6-24" DBH and southern red oak (Quercus *falcata*) ranging from 2-10" DBH. Codominant species include black cherry (*Prunus serotina*) in the 6-16" DBH range, red maple (*Acer rubrum*) in the 3-12" DBH range, tuliptree (*Liriodendron tulipifera*) in the 1-10" DBH range, and black oak (*Quercus velutina*) in the 1-8" DBH range. No specimen trees were identified within this stand and canopy closure is approximately 70 percent. The understory contains Japanese honeysuckle (*Lonicera japonica*), horsebrier (*Smilax rotundifolia*), southern arrow wood (*Viburnum dentatum*), highbush blueberry (*Vaccinium corymbosum*), and America holly (*Ilex opaca*) resulting in approximately 10 percent of the understory being comprised of invasive species. Dominant herbaceous species includes southern ground cedar (*Diphasiastrum digitatum*) and Japanese honeysuckle acting as groundcover, resulting in approximately 60 percent of the herbaceous layer being comprised of invasive species. Downed woody debris is common throughout the stand. Overall, Stand A is in good condition, as the canopy is diverse, with most trees in good health, and low invasive species presence in the canopy and understory.

Stand B is a red maple forest occurring north of Stand A, east and west of Taxiway W. The canopy of this early to mid-successional forest is dominated by red maple ranging from 8-31" DBH. Co-dominant species include sweet gum (*Liquidambar styraciflua*) in the 1-6" DBH range, tuliptree in the 1-16" DBH range, and black gum (*Nyssa sylvatica*) in the 1-12" DBH range. Three specimen trees were identified within this stand and canopy closure is approximately 80 percent. The understory contains horsebrier, highbush blueberry, American holly, Japanese honeysuckle, rambler rose (*Rosa multiflora*), southern arrow wood, and Asian bittersweet (*Celastrus orbiculatus*), resulting in 50 percent of the understory being comprised on invasive species. Dominant herbaceous species includes southern ground cedar, English ivy (*Hedra helix*), and netted chain fern (*Woodwardia areolate*), resulting in approximately 40 percent of the groundcover being comprised of invasive species. Downed woody debris is common throughout the stand. Overall, Stand B is in fair condition with low species diversity, most trees are in fair health, and moderate invasive species presence in the understory and herbaceous layers.

Stand C is a mixed deciduous forest occurring east of Kitten Branch. The canopy of this early successional forest is dominated by black willow (*Salix nigra*) ranging from 4-10" DBH, tuliptree in the 2-14" DBH range, American sycamore (*Platanus occidentalis*) in the 2-12" DBH range, common persimmon (*Diospyros virginiana*) in the 3-6" DBH range, red maple in the 6-14" DBH range, and black locust (*Robinia pseudoacacia*) in the 1-4" DBH range. No specimen trees were identified within this stand and canopy closure is 60 percent. The understory contains Japanese honeysuckle, northern spicebush (*Lindera benzoin*), Chinese privet (*Ligustrum sinense*), Pennsylvania blackberry (*Rubus pensilvanicus*), and rambler

rose, resulting in approximately 60 percent of the understory being comprised of invasive species. Common herbaceous species includes common reed (*Phragmites australis*), resulting in approximately 30 percent of the herbaceous layer being comprised of invasive species. Downed woody debris is rare throughout this stand. Overall, Stand C is in poor condition, as many trees appear to be in fair or poor health, with many invasive species and vines in the canopy.

Specimen Tree Survey

A total of 3 specimen trees were identified within the study area. The locations of these trees are included on the maps in **Appendix B**. Information regarding the species, size, and condition of each identified specimen tree is included in **Table 1**.

Tree DBH Condition **Species Name Common Name** No. (inches) Acer rubrum 1 Red maple 30 Good 2 Acer rubrum Red maple Good, few vines 31 3 Liriodendron tulipifera Tuliptree 31.5 Good, few vines

Table 1. Specimen Tree Table

4.0 Conclusions

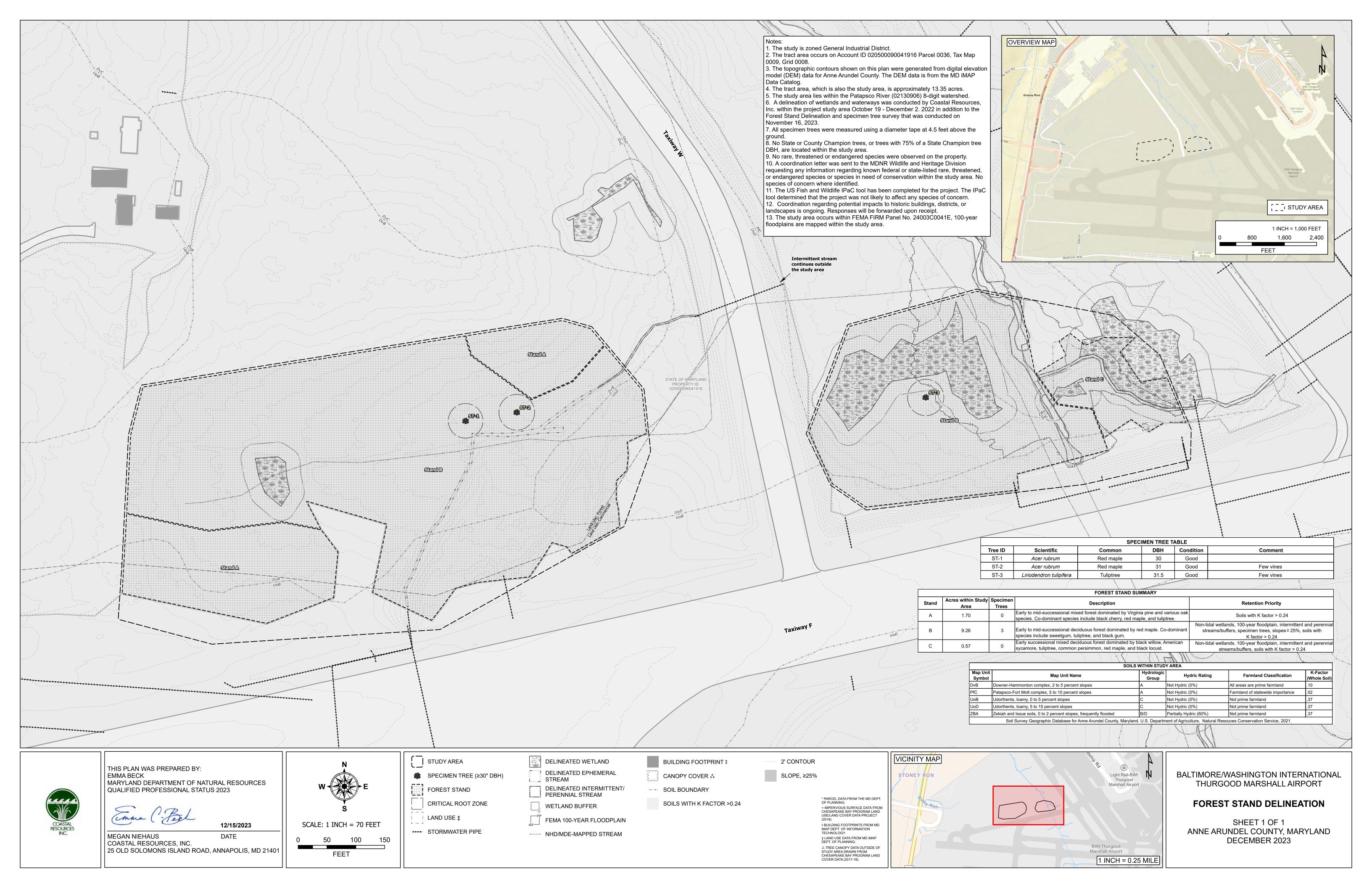
A total of three forest stands and three specimen trees were identified within the study area. Impacts to these forest stands and/or specimen trees may require authorization from Maryland Department of Natural Resources (MDNR). Agency coordination with DNR, United States Fish and Wildlife Service (USFWS), and the National Marine Fisheries Service (NMFS) regarding rare, threatened, and endangered (RTE) and other sensitive species has been completed. Based on the results of federal and state agency coordination, there are no anticipated impacts to listed species and no additional consultation is required. RTE coordination can be found in **Appendix D**.

5.0 References

Maryland Department of Natural Resources. 3rd Edition, 1997. *State Forest Conservation Technical Manual*.

P	N/I-Thurgon	d Marshall	Airport ATCT	FA Forest 9	Stand Delineation	١
ш	, vvi-iiiui 200	u iviai siiaii	AIIDUILAICI	LA I DIESE.	otanu Denneation	

APPENDIX A: FOREST STAND DELINEATION MAP



Memorandum	BWI-Thurgood Marshall Airport ATCT EA Forest Stand Delineation
	APPENDIX B: FOREST STAND CHARACTERIZATION SHEETS

Forest Characterization Field Datasheet

Project Area: BWI ATCT			Date: 11/16/23	
Stand ID: A			nvestigators: Eb	3, LP
Location: North of Taxiway F. E.	+ W of Taxiwa	1W	Photos: 1-5; 4	-N
Forest Association: Virginia pine	- Oak species		,	
Successional Stage: Early - Mid	/		Slope/Aspect: 57	2/N
Average DBH Size Class (in): 2-5	.9 16 -11.9	□ 12-19.		□ ≥30
Condition: ☐ good ☐ fair ☐ poo	or Explain:	good div	ersity low	invasive
presence trees in good h	ealth		0,	
Retention Potential: good fair	poor Explain:	Nothin 6	DD Cleanin	+ grading
area			C	0 0
Transplant and Regenerative Potential:	□ good □ fair	poor E	Explain: Project	Will likely
prevent regeneration				0
Dominant and Co-dominant Tree	Most Common	DBH	Approximate % of	Dominant Species
Species	DBH (in)	Range	Canopy	Understory
1. Pinus virginiana		6-24	30	
2. Quercus Galcata	6	2-10	15	10
3. Prinus serofina	10_	6-16	_5	3
4. Acer rubrum	8	3-12	0	
5. Liriodendron tulipitera	9	1-10	3	-5
6. Quereus velotina	_3_	1-8		
	and ON			
Other Common Tree Species: Querus	spp., I'm			
Common Regenerating Species: Common Shrub and Vine Average	Anney 9/	Cammi	on Herbaceous	Anna. 0/
Common Shrub and Vine Average Species Height		Specie		Approx. % Cover
1 Vibrunum dentatum 5	3	0.1	jastnim digita	tun 60
2. Smilax rotundifolia 8	50	2.	asias i again	0001_00
3. Lonicera japonica	15	3.		_
4. Vaccinium corymoosum (0	3	4.		
5. Hex onaca 15	10	5.		
c		6		
7.		7		
8		8		
Estimate total % cover of exotic invasive	1			
	Grou	und Cover: _	50	
Approximate % Cover:	80		4 0	
Canopy: 70 Understory:	Herl	paceous:	60	
Basal Area (ft² - taken in two locations with	h 10x prism): 1. 🔇	<u> </u>	20	
Downed Woody Debris (≥6" DBH): □	rare 🖸 comm	non □ abu	ındant	
Additional Notes:				
<u> </u>				

Forest Characterization Field Datasheet

Project Area: SWI ATCT				Date: 11/16/2	3
Stand ID: B				nvestigators:	B, LP
Location: Nof Stand A, E+ M	1 of Taxiwa	WYW		Photos: 2-N',	3-5E
Forest Association: Red ma				,	
Successional Stage: Early -	Mid		_ / :	Slope/Aspect: <u>5</u>	70/N
Average DBH Size Class (in):	□ 2-5.9	□ 6-11.9	回 12-19	.9 🔲 20-29.9	□≥30
Condition: ☐ good ☐ fair	□ poor	Explain:	ow dive	sity, trees	in fair health
moderate invasive pr	resence 11	n under	estory +	herb laye	U
Retention Potential: ☐ good ☐	I fair poor	Explain: 1	NITHIN C	learing/grading	g LOD
prevent				0, - 0	1 1-1 1
Transplant and Regenerative Po	tential: 🗆 go	od 🛭 fair	poor E	Explain: <u>Project</u>	WII) likely
prevent regeneration	07				J
Dominant and Co-dominant Tree		t Common	DBH		f Dominant Species
Species)BH (in)	Range	Canopy	Understory
1. Acer rubrum	7	12	8-31	70	10
2. Liquidanbar styraciff 3. Ligodendron telipite	lua .	3	1-0	10	2
4. Nussa sulvatical	na .	5	1-12	7	12
5.			1 12		
6.					
7.		000=	Dul. 1		
Other Common Tree Species: D	// MIIDL	- URST	PIVI OIL	IAL, QUHAZ	
	,	1	111,00	,	
Common Regenerating Species:	LITU, LIS	T	1.7	,	
Common Regenerating Species: Common Shrub and Vine	LITU, LIST Average	1	Comm	on Herbaceous	Approx. % Cover
Common Regenerating Species:	LITU, LIS	7 Approx. %	Commo Specie	on Herbaceous s	Cover
Common Regenerating Species: Common Shrub and Vine Species	Average Height (ft)	7 Approx. %	Commo Specie	on Herbaceous s	Cover
Common Regenerating Species:	Average Height (ft)	7 Approx. %	Comme Specie 1. Diphas 2. Jedera	on Herbaceous s	Cover
Common Regenerating Species: Lecommon Shrub and Vine Species 1. Smilax rotundifolia 2. Vaccinium corymbosum 3. Lex op acad 4. Lonicula japonica	Average Height (ft)	7 Approx. %	Common Specie 1. Diphas 2. Hedera 3. Woodwa 4.	on Herbaceous s jastrum digita helix	Cover
Common Regenerating Species: Le Common Shrub and Vine Species 1. Smilax rotundifolia 2. Vaccinium Corymbosum 3. Lex op acad 4. Lonicala japonica 5. Rosa multiflora	Average Height (ft)	Approx. % Cover	Comme Specie 1. Diphas 2. Heave 3. Woodwa 4.	on Herbaceous s jastrum digita helix dia aerolata	Cover 60 20 5
Common Regenerating Species: Decommon Shrub and Vine Species 1. Smilax rotundifolia 2. Vaccinium corymbosum 3. Lex opacar 4. Jonicala japonica 5. Rosa multiflora 6. Viburnum dantatum	Average Height (ft)	Approx. % Cover	Comme Specie 1. Diphas 2. Hedera 3. Woodwa 4 5 6	on Herbaceous s jastrum digita helix rdia aerolata	Cover 60 20 5
Common Regenerating Species: Le Common Shrub and Vine Species 1. Smilax rotundifolia 2. Vaccinium Corymbosum 3. Lex op acad 4. Lonicala japonica 5. Rosa multiflora	Average Height (ft)	Approx. % Cover	Comme Specie 1. Diphas 2. Hedera 3. Woodwa 4 5 6	on Herbaceous s jastrum digita helix dia aerolata	Cover 60 20 5
Common Regenerating Species: Le Common Shrub and Vine Species 1. Smilax rotundifolia 2. Vaccinium Corymbosum 3. Lex op aca 4. Lonicela ja ponica 5. Rosa multiflora 6. Viburnum dentatum 7. Clastrus orbiculatus 8.	Average Height (ft) 5 10 10 6 5	Approx. % Cover (55 8 (60 10 3 10	Comme Specie 1. Diphas 2. Ledera 3. Woodwa 4. 5. 6. 7.	on Herbaceous s jastrum digita helix dia aerolata	Cover 14
Common Regenerating Species: December Shrub and Vine Species 1. Smilax rotundifolia 2. Vaccinium corymbosum 3. Lex op a can 4. Lonicala japonica 5. Rosa multiflora 6. Viburnum dentatum 7. Clastrus orbiculatus	Average Height (ft)	Approx. % Cover 65 8 70 3 70 Is (include "*	Comme Specie 1. Diphas 2. Ledera 3. Woodwa 4. 5. 6. 7.	on Herbaceous s jastrum digita helix rdia aerolata	Cover 14
Common Regenerating Species: Common Shrub and Vine Species 1. Smilax rotundifolia 2. Vaccinium corymbosum 3. Lex op acau 4. Inicala japonica 5. Rosa multiflora 6. Viburnum dentatum 7. Clastrus orbitulatus 8. Estimate total % cover of exotic	Average Height (ft)	Approx. % Cover 65 8 70 3 70 Is (include "*	Common Specie 1. Diphas 2. Head and 4. Lead and 5. Lead and 6. Lead and 7. Lead and 8. Lead and 8. Lead and 9. Le	on Herbaceous s jastrum digita helix rdia aerolata	Cover 14
Common Regenerating Species:	Average Height (ft) S 10 10 6 5 invasive plant erstory: 5	Approx. % Cover 65 8 60 70 3 70 ss (include "**	Comme Specie 1. Diphas 2. Head and 4 5 6 7 8 " next to invalid Cover:	on Herbaceous s jastrum digita helix rdia aerolata asives listed above)	Cover 14
Common Regenerating Species: Common Shrub and Vine Species 1. Smilax rotundifolia 2. Vaccinium corymbosum 3. Lex op acad 4. Lonicala japonica 5. Rosa multiflora 6. Viburnum dentatum 7. Clastrus orbitulatus 8. Estimate total % cover of exotic in Canopy: Under	Average Height (ft) S O O O O O O O O O O O O	Approx. % Cover 65 8 70 3 70 cs (include "* Herb	Comme Specie 1. Diphas 2. Head and 4.	on Herbaceous s jastrum digita helix rdia aerolata asives listed above)	Cover 14
Common Regenerating Species:	Average Height (ft) 3 10 3 invasive plant erstory: 50 erstory: 90 tions with 10x p	Approx. % Cover 65 8 70 3 70 cs (include "* Herb	Comme Specie 1. Diphas 2. Harana 3. Woodwa 4.	on Herbaceous s jastrum digita helix rdia aerolata asives listed above)	Cover 14
Common Regenerating Species:	Average Height (ft) Solution Column	Approx. % Cover 65 8 70 3 70 ss (include "* Coron Herborism): 1. 5	Comme Specie 1. Diphas 2. Ledura 3. Ledura 4 5 6 7 8 and Cover: baceous: 2. on	nelix digital dia accolata	Cover 14
Common Regenerating Species:	Average Height (ft) Solution Column	Approx. % Cover 65 8 70 3 70 ss (include "* Coron Herborism): 1. 5	Comme Specie 1. Diphas 2. Ledura 3. Ledura 4 5 6 7 8 and Cover: baceous: 2. on	nelix digital dia accolata	Cover 14

Forest Characterization Field Datasheet

Project Area: BWI ATCI		Date: 11/16	123
Stand ID:		Investigators	EB, LP
Location: E of Kitten Branch		Photos: <u>5 -</u>	Wile-E
Forest Association: Mixed Decid	duous		
Successional Stage: Early		Slope/Aspec	t: 570/W
Average DBH Size Class (in):	-5.9 🗆 6-11.9	□ 12-19.9 □ 20-	29.9 □≥30
Condition: □ good □ fair □ p	poor Explain:	any masure	2 4 Vines in
Canopy. Trees are in-	an to pour	health	
Retention Potential: good Gair	poor Explain:	Inly select tr	uswillbe
removed		0	
Transplant and Regenerative Potentia	il: □ good ଢ fair	Poor Explain: Fee	a healthy trees
to provide seed source, in	11 / //	s to prevent ger	/ . / /
Dominant and Co-dominant Tree	Most Common	DBH Approximat	e % of Dominant Species
Species	DBH (in)	Range Canop	y Understory
1 Salix rigra	<u>(</u>	4-10 15	5
2. Plataneis Occidentalis		2-12 5	10
3. Linodendron tulipifera.	<u> </u>	2-14 0	
5. Acerbian		6-14 10	
6. Robinia Dseudoacia	2	1-4 0	3
7.			
Other Common Tree Species:	***		···
Other Common Tree Species: Common Regenerating Species:			
Common Regenerating Species: Common Shrub and Vine Ave	rage Approx. % ht (ft) Cover	Common Herbaceo	Cover
Common Regenerating Species: Common Shrub and Vine Ave	ht (ft) Cover		Cover
Common Regenerating Species: Common Shrub and Vine Ave Heig 1. ONICOLA JAPONICO S. 2. Japonico S.	ht (ft) Cover 40	1. Phragmites au	Cover
Common Regenerating Species: Common Shrub and Vine Ave Heig 1. Micora Japonica 3 2. Japutrus Miense 2 3. Japana benzoin (G	ht (ft) Cover 40	1. Phragmites au 2. 3.	Cover
Common Regenerating Species: Common Shrub and Vine Species 1. Micora Japanica 3 2. Japanica Berrain 3. Japanica Berrain 4. Rubus penduyanicus	ht (ft) Cover 40 15 25 25	1. Phragmites au 2. 3. 4.	Cover
Common Regenerating Species: Common Shrub and Vine Species 1. Micora Japonico 3 2. Japonico 3 3. Japonico 4. Rubus pensuranicus 4 5. Rosa multiflora (4	ht (ft) Cover 40 15 15 15 15 15 15 15 15 15 15 15 15 15	1. Phragmites au 2. 3. 4.	Cover
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APPENDIX C: PHOTOGRAPH LOG

Appendix C: BWI – Thurgood Marshall ATCT EA Forest Stand Delineation Photograph Log



Photo 1. Looking south at Stand A



Photo 2. Looking north at Stand A

Appendix C: BWI – Thurgood Marshall ATCT EA Forest Stand Delineation Photograph Log



Photo 3. Looking north at Stand B



Photo 4. Looking southeast at Stand B

Appendix C: BWI – Thurgood Marshall ATCT EA Forest Stand Delineation Photograph Log



Photo 5. Looking west towards Stand C



Photo 6. Looking east towards Stand C

Memorandum

APPENDIX D: RTE COORDINATION





Wes Moore, Governor Aruna Miller, Lt. Governor Josh Kurtz, Secretary David Goshorn, Deputy Secretary

November 8, 2023

Ms. Emma C. Beck Coastal Resources, Inc. 25 Old Solomons Island Road Annapolis, MD 21401

RE: Environmental Review for New Air Traffic Control Tower at BWI Marshall Airport and Associated Improvements, Anne Arundel County, Maryland.

Dear Ms. Beck:

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 lori.byrne@maryland.gov or at (410) 260-8573.

Sincerely,

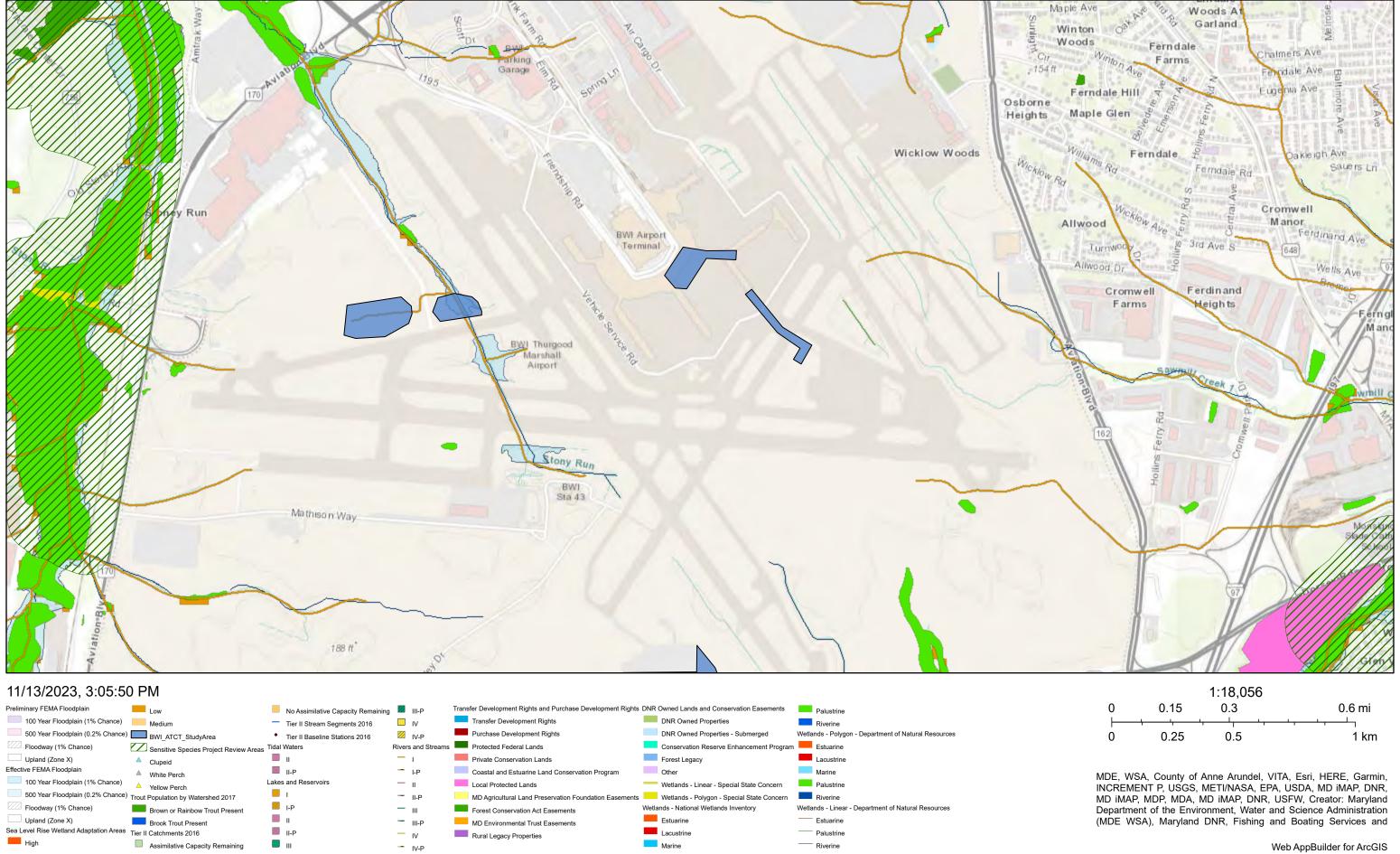
Lori A. Byrne,

Loui a. Bym

Environmental Review Coordinator Wildlife and Heritage Service MD Dept. of Natural Resources

ER# 2023.1522.aa

ArcGIS Web Map





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: October 10, 2023

Project code: 2024-0002873

Project Name: BWI ATCT EA Tree Removal

Federal Nexus: yes

Federal Action Agency (if applicable): Federal Aviation Administration

Subject: Federal agency coordination under the Endangered Species Act, Section 7 for 'BWI

ATCT EA Tree Removal'

Dear Genevieve Walker:

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 October 10, 2023, for 'BWI ATCT EA Tree Removal' (here forward, Project). This project has been assigned Project Code 2024-0002873 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (Act) requirements may not be complete.**

Ensuring Accurate Determinations When Using IPaC

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 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 Northern Long-eared Bat Rangewide Determination Key (DKey), invalidates this letter. *Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.*

Determination for the Northern Long-Eared Bat

Based upon your IPaC submission and a standing analysis completed by the Service, your project has reached the determination of "May Affect, Not Likely to Adversely Affect" the northern long-eared bat. Unless the Service advises you within 15 days of the date of this letter that your

IPaC-assisted determination was incorrect, this letter verifies that consultation on the Action is <u>complete</u> and no further action is necessary unless either of the following occurs:

- new information reveals effects of the action that may affect the northern long-eared bat in a manner or to an extent not previously considered; or,
- the identified action is subsequently modified in a manner that causes an effect to the northern long-eared bat that was not considered when completing the determination key.

15-Day Review Period

As indicated above, the Service will notify you within 15 calendar days if we determine that this proposed Action does not meet the criteria for a "may affect, not likely to adversely affect" (NLAA) determination for the northern long-eared bat. If we do not notify you within that timeframe, you may proceed with the Action under the terms of the NLAA concurrence provided here. This verification period allows the identified Ecological Services Field Office to apply local knowledge to evaluation of the Action, as we may identify a small subset of actions having impacts that we did not anticipate when developing the key. In such cases, the identified Ecological Services Field Office may request additional information to verify the effects determination reached through the Northern Long-eared Bat DKey.

You have indicated that you must remove a hazard tree in order to prevent imminent loss of human life. Be advised that the Act's implementing regulations (50 CFR part 17) include a take exemption pursuant to the defense of human life (for endangered species, see 50 CFR 17.21(c) (2)): "any person may take endangered [or threatened] wildlife in defense of his own life or the lives of others."). The regulations at 50 CFR 17.21(c)(4) require that any person taking, including killing, listed wildlife in defense of human life under this exception must notify our headquarters Office of Law Enforcement, at the address provided at 50 CFR 2.1(b), in writing, within 5 days. In addition, section 11 of the Act enumerates the penalties and enforcement of the Act. In regard to civil penalties, section 11(a)(3) of the Act states, "Notwithstanding any other provision of this [Act], no civil penalty shall be imposed if it can be shown by a preponderance of the evidence that the defendant committed an act based on a good faith belief that he was acting to protect himself or herself, a member of his or her family, or any other individual from bodily harm, from any endangered or threatened species" (16 U.S.C. 1540(a)(3)). Section 11(b) (3) of the Act contains similar language in regard to criminal violations (see 16 U.S.C. 1540(b) (3)). If you think incidental take of listed bats was reasonably certain to have occurred as a result of your hazard tree removal, we advise you to contact the Office of Law Enforcement as outlined above. In the future, we recommend planning ahead so that tree removal of potentially hazardous trees does not become an emergency. If you determine an emergency exists, however, and human life is in imminent danger, do not delay action. Also do not delay action if removal of the hazard tree is part of a federal response to a situation involving an act of God, disaster, casualty, national defense or security emergency, etc. - coordinate with the local USFWS field office as soon as practicable after the emergency is under control.

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination for the northern long-eared bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

Monarch Butterfly Danaus plexippus Candidate

You may coordinate with our Office to determine whether the Action may affect the species and/ or critical habitat listed above. Note that reinitiation of consultation would be necessary if a new species is listed or critical habitat designated that may be affected by the identified action before it is complete.

If you have any questions regarding this letter or need further assistance, please contact the Chesapeake Bay Ecological Services Field Office and reference Project Code 2024-0002873 associated with this Project.

Action Description

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

1. Name

BWI ATCT EA Tree Removal

2. Description

The following description was provided for the project 'BWI ATCT EA Tree Removal':

The Maryland Aviation Administration (MAA) is preparing an Environmental Assessment (EA) to assist the Federal Aviation Administration (FAA) in evaluating potential environmental effects resulting from a new Airport Traffic Control Tower (ATCT) and associated improvements at BWI Marshall Airport. The Proposed Action consists of the construction of a new air traffic control tower (ATCT), operational spaces for FAA staffing offices, a new hotel, removal of adjacent line of sight obstructions associated with the new ATCT and between the existing ATCT and future taxiway, upgrades to the ramp control tower so it can function as a supplemental ATCT during construction, and construction of a duct bank to supply power to the new ATCT. The project study area consists of approximately 9 acres of currently paved terminal area, 13 acres of mature mixed forest, and 24 acres of potential staging area which is currently paved/impervious.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.1644189,-76.66944287198986,14z



DETERMINATION KEY RESULT

Based on the answers provided, the proposed Action is consistent with a determination of "may affect, but not likely to adversely affect" for the Endangered northern long-eared bat (*Myotis septentrionalis*).

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of the northern long-eared bat or any other listed species?

Note: Intentional take is defined as take that is the intended result of a project. Intentional take 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

2. The proposed action does not intersect an area where the northern long-eared bat is likely to occur, based on the information available to U.S. Fish and Wildlife Service as of the most recent update of this key. If you have data that indicates that northern long-eared bats are likely to be present in the action area, answer "NO" and continue through the key.

Do you want to make a no effect determination?

3. The action area does not overlap with an area for which U.S. Fish and Wildlife Service currently has data to support the presumption that the northern long-eared bat is present. Are you aware of other data that indicates that northern long-eared bats (NLEB) are likely to be present in the action area?

Bat occurrence data may include identification of NLEBs in hibernacula, capture of NLEBs, tracking of NLEBs to roost trees, or confirmed NLEB acoustic detections. Data on captures, roost tree use, and acoustic detections should post-date the year when whitenose syndrome was detected in the relevant state. With this question, we are looking for data that, for some reason, may have not yet been made available to U.S. Fish and Wildlife Service.

No

No

4. Does any component of the action involve construction or operation of 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.).

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

Yes

6. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

No

7. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

Note: This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

Yes

8. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

No

9. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)? *No*

10. Have you determined that your proposed action will have no effect on the northern longeared bat? Remember to consider the <u>effects of any activities</u> that would not occur but for the proposed action.

If you think that the northern long-eared bat may be affected by your project or if you would like assistance in deciding, answer "No" below and continue through the key. If you have determined that the northern long-eared bat does not occur in your project's action area and/or that your project will have no effects whatsoever on the species despite the potential for it to occur in the action area, you may make a "no effect" determination for the northern long-eared bat.

Note: Federal agencies (or their designated non-federal representatives) must consult with USFWS on federal agency actions that may affect listed species [50 CFR 402.14(a)]. Consultation is not required for actions that will not affect listed species or critical habitat. Therefore, this determination key will not provide a consistency or verification letter for actions that will not affect listed species. If you believe that the northern long-eared bat may be affected by your project or if you would like assistance in deciding, please answer "No" and continue through the key. Remember that this key addresses only effects to the northern long-eared bat. Consultation with USFWS would be required if your action may affect another listed species or critical habitat. The definition of Effects of the Action can be found here: https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions

No

11. [Semantic] Is the action area located within 0.5 miles of a known northern long-eared bat hibernaculum?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

12. Does the action area contain any caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating northern long-eared bats?

No

13. Is suitable summer habitat for the northern long-eared bat present within 1000 feet of project activities?

(If unsure, answer "Yes.")

Note: If there are trees within the action area that are of a sufficient size to be potential roosts for bats (i.e., live trees and/or snags ≥3 inches (12.7 centimeter) dbh), answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat can be found at: https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions

Yes

14. Will the action cause effects to a bridge?

15. Will the action result in effects to a culvert or tunnel?

No

16. Does the action include the intentional exclusion of northern long-eared bats from a building or structure?

Note: Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local U.S. Fish and Wildlife Services Ecological Services Field Office to help assess whether northern long-eared bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures

No

- 17. Does the action involve removal, modification, or maintenance of a human-made structure (barn, house, or other building) **known or suspected to contain roosting bats?**No
- 18. Will the action cause construction of one or more new roads open to the public?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

19. Will the action include or cause any construction or other activity that is reasonably certain to increase average daily traffic on one or more existing roads?

Note: For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

20. Will the action include or cause any construction or other activity that is reasonably certain to increase the number of travel lanes on an existing thoroughfare?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

21. Will the proposed action involve the creation of a new water-borne contaminant source (e.g., leachate pond pits containing chemicals that are not NSF/ANSI 60 compliant)? *No*

22. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

No

23. Will the action include drilling or blasting?

Yes

24. Will the drilling or blasting affect known or potentially suitable hibernacula, summer habitat, or active year-round habitat (where applicable) for the northern long-eared bat?

Note: In addition to direct impacts to hibernacula, consider impacts to hydrology or air flow that may impact the suitability of hibernacula. Additional information defining suitable summer habitat for the northern long-eared bat can be found at: https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions

No

- 25. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use)? *No*
- 26. Will the proposed action involve the use of herbicides or pesticides other than herbicides (e.g., fungicides, insecticides, or rodenticides)?
- 27. Will the action include or cause activities that are reasonably certain to cause chronic nighttime noise in suitable summer habitat for the northern long-eared bat? Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time.

Note: Additional information defining suitable summer habitat for the northern long-eared bat can be found at: https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions *No*

28. Does the action include, or is it reasonably certain to cause, the use of artificial lighting within 1000 feet of suitable northern long-eared bat roosting habitat?

Note: Additional information defining suitable roosting habitat for the northern long-eared bat can be found at: https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions **No**

29. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

30. Has a presence/probable absence summer bat survey targeting the northern long-eared bat following the Service's <u>Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines</u> been conducted within the project area? If unsure, answer "No."

31. Does the action include emergency cutting or trimming of hazard trees in order to remove an imminent threat to human safety or property? See hazard tree note at the bottom of the key for text that will be added to response letters

Note: A "hazard tree" is a tree that is an immediate threat to lives, public health and safety, or improved property and has a diameter breast height of six inches or greater.

Yes

- 32. Are any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming suitable for northern long-eared bat roosting (i.e., live trees and/or snags ≥3 inches dbh that have exfoliating bark, cracks, crevices, and/or cavities)? Yes
- 33. [Semantic] Does your project intersect a known sensitive area for the northern long-eared bat?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your <u>state agency or USFWS field office</u>

Automatically answered

No

34. <u>Will all tree cutting/trimming or other knocking or bringing down of trees be restricted to</u> the inactive season for the northern long-eared bat?

Note: Inactive Season dates for summer habitat outside of staging and swarming areas can be found here: https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas.

10/10/2023

PROJECT QUESTIONNAIRE

Enter the extent of the action area (in acres) from which trees will be removed - round up to the nearest tenth of an acre. For this question, include the entire area where tree removal will take place, even if some live or dead trees will be left standing.

13.35

In what extent of the area (in acres) will trees be cut, knocked down, or trimmed during the <u>inactive</u> (hibernation) season for northern long-eared bat? **Note:** Inactive Season dates for spring staging/fall swarming areas can be found here: https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas

13.35

In what extent of the area (in acres) will trees be cut, knocked down, or trimmed during the active (non-hibernation) season for northern long-eared bat? **Note:** Inactive Season dates for spring staging/fall swarming areas can be found here: https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas

13.35

Will all potential northern long-eared bat (NLEB) roost trees (trees ≥3 inches diameter at breast height, dbh) be cut, knocked, or brought down from any portion of the action area greater than or equal to 0.1 acre? If all NLEB roost trees will be removed from multiple areas, select 'Yes' if the cumulative extent of those areas meets or exceeds 0.1 acre.

Yes

Enter the extent of the action area (in acres) from which all potential NLEB roost trees will be removed. If all NLEB roost trees will be removed from multiple areas, entire the total extent of those areas. Round up to the nearest tenth of an acre.

13.35

For the area from which all potential northern long-eared bat (NLEB) roost trees will be removed, on how many acres (round to the nearest tenth of an acre) will trees be allowed to regrow? Enter '0' if the entire area from which all potential NLEB roost trees are removed will be developed or otherwise converted to non-forest for the foreseeable future.

0

Will any snags (standing dead trees) ≥3 inches dbh be left standing in the area(s) in which all northern long-eared bat roost trees will be cut, knocked down, or otherwise brought down?

No

Will all project activities by completed by April 1, 2024?

10/10/2023

IPAC USER CONTACT INFORMATION

Agency: Federal Aviation Administration

Name: Genevieve Walker

Address: 13783 Park Center Road, Suite 490S

City: Herndon State: VA Zip: 20171

Email genevieve.j.walker@faa.gov

Phone: 7034873979



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: October 10, 2023

Project Code: 2024-0002873

Project Name: BWI ATCT EA Tree Removal

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/what-we-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: 2024-0002873

Project Name: BWI ATCT EA Tree Removal
Project Type: Airport - Maintenance/Modification

Project Description: The Maryland Aviation Administration (MAA) is preparing an

Environmental Assessment (EA) to assist the Federal Aviation Administration (FAA) in evaluating potential environmental effects resulting from a new Airport Traffic Control Tower (ATCT) and

associated improvements at BWI Marshall Airport. The Proposed Action consists of the construction of a new air traffic control tower (ATCT), operational spaces for FAA staffing offices, a new hotel, removal of adjacent line of sight obstructions associated with the new ATCT and between the existing ATCT and future taxiway, upgrades to the ramp control tower so it can function as a supplemental ATCT during

construction, and construction of a duct bank to supply power to the new ATCT. The project study area consists of approximately 9 acres of currently paved terminal area, 13 acres of mature mixed forest, and 24 acres of potential staging area which is currently paved/impervious.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.1644189,-76.66944287198986,14z



Counties: Anne Arundel County, Maryland

ENDANGERED SPECIES ACT SPECIES

There is a total of 2 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 Myotis septentrionalis

Endangered

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045

INSECTS

NAME STATUS

Monarch Butterfly *Danaus plexippus*

Candidate

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743

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> Engineers District.

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.

WETLAND INFORMATION WAS NOT AVAILABLE WHEN THIS SPECIES LIST WAS GENERATED. PLEASE VISIT https://www.fws.gov/wetlands/data/mapper.html OR CONTACT THE FIELD OFFICE FOR FURTHER INFORMATION.

IPAC USER CONTACT INFORMATION

Agency: Federal Aviation Administration

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Attachment 8:

MDNR WHS Updated Forest Stand Delineation Approval Letter

PLACEHOLDER - to be provided

Biological Resources Appendix C