SCE #22061



November 4, 2022

Ms. Michele Palmer PLA, ASLA, LEED GA Whitham Planning & Design 142 E. State Street, Suite B Ithaca, NY 14850

Re: Ecological Screening Package Willow Island Park Enhancements Local Waterfront Revitalization Program Village of Canton, New York

Dear Ms. Palmer:

In accordance with our Scope of Services, Shumaker Consulting Engineering & Land Surveying, D.P.C. (SCE) performed an Ecological Screening at Willow Island in the Village of Canton, St. Lawrence County, NY. This field investigation was completed on behalf of Whitham Planning & Design on August 22, 2022. The intent of the visit was to determine the general ecology, habitat characteristics, and boundaries of jurisdictional wetland and stream resources.

Desktop Resource Review

The surveyed project area consists of approximately 2.5 acres of the island south of Main Street and is herein referred to as the Site. The Site is accessed from Main Street that traverses the northern portion of the island. The Site includes the portions of Willow Island Park south of Main Street and to the water's edge. There were no wetlands as a result of this investigation, but the ordinary high water mark of the Grasse River was recorded.

The site in Canton is adjoined by Main Street that runs along the north border of the Project Boundary and continues west and east of Willow Island, the Grasse River which flows north to south around the island, and both residential and commercial property. The NWI mapper does not indicate the presence of any wetlands on the site. The ERM mapper does not indicate the presence of wetlands or any NYSDEC classified streams onsite.

Prior to the field survey effort, several sources were consulted to obtain background information including:

- New York State Department of Environmental Conservation (NYSDEC) Environmental Resource Mapper (ERM)
- National Wetlands Inventory (NWI) Map published by the United States Fish and Wildlife Service (USFWS)
- St. Lawrence County Soil Survey Map
- U.S. Fish and Wildlife IPaC Service
- Federal Emergency Management Agency (FEMA) floodplain mapping
- Aerial photography, and contour mapping.

The county soil survey shows that the site contains the following mapped soils: Redwater fine sandy loam (Rd) and Urban Land (Ur). The soils range between 0-11% hydric, with Redwater fine sandy loam measuring at the 11% hydric. The Subject Property is seen to contain a majority of upland soil types.

Ecological Screening Findings

This wetland screening effort confirmed the absence of wetlands within the project boundary, however the Grasse River is adjacent to the project site. The site boundary is identified per the attached Figure 1. Wetlands are not present based on the lack of hydric soil indicators, hydrophytic vegetation, and wetland hydrology indicators.

The Grasse River surrounds the entirety of Willow Island. The Grasse River is a perennial stream with NYSDEC A classification and A standard per the Environmental Resource Mapper (ERM). Substrate within the Grasse River is a mix of sand and cobble. The river is approximately 180 feet wide from the Ordinary High Water Mark (OHWM) with a depth ranging from 3-12 feet. According to the ERM Mapper and the field visit, the Grasse River is located within the vicinity of a rare freshwater mussel. Any disturbance to the bed or banks of the Grasse River will require an Article 15 Protection of Waters permit. If work occurs below the OHWM, a Nationwide Permit would be required for in-water impacts, and a NYSDEC Section 401 Blanket Water Quality Certification would also be required.

Typically, freshwater mussels are found to live in flowing water, however they can be found anywhere from small streams to large rivers. Mussels bury in onto the stream substrate, and in areas of good habitat thousands of individuals can concentrate in an area creating a Mussel Bed. In addition to freshwater mussels, according to the USFWS, the monarch butterfly (*Danaus plexippus*) has the potential to have suitable habitat present within the region, which would entail the presence of any milkweed. The monarch butterfly is currently listed as a federal candidate species and slated to be listed on the endangered species list by 2024. No significant concentration of milkweed however is present within the project area.

According to the New York Natural Heritage Program database, three rare species have been document at the project site or in it's vicinity. The eastern pearlshell (*Margaritifer margaritifer*) is a NY unlisted species, but it is listed to be imperiled in NYS, has been document in a stretch of the Grasse River adjacent to the project site on August 7, 2020. If in water work is to be conducted, a freshwater mussel survey would be required. In addition, two state threatened plants were found to be 0.5 mile downstream of the project site; Drummond's rock cress (*Boechera stricta*) and meadow horsetail (*Equisetum pratense*). Drummond's rock cress was documented on June 02, 2002, and meadow horsetail was document on June 08, 2001. Per NYNHP, were found in a low sandy area with grasses with paths along both sides of the shore of the island. It is determined that it is not likely that either species would be found within the project boundaries because most of the project area is mowed and lacks sandy soils, however on the banks of the Grasse River where there are sandy soils either plant could be present.

Comprehensive field surveys have not been conducted, and we cannot provide a definitive statement as to the presence or absence of all rare or state-listed species. No threatened or endangered species however were observed within the project boundary.

If you have any questions or require additional information, please do not hesitate to contact Markku McGlynn at our Albany office at mmcglynn@shumakerengineering.com.

Very truly yours, SHUMAKER CONSULTING ENGINEERING & LAND SURVEYING, D.P.C.

Jessica E. Hefferon Environmental Scientist I

Enclosures

- Site Location Map
- Project Site Photo Sheet
- USDA Soil Survey Map
- NYNHP Letter
- IPaC Species Coordination



Path: E:\2022\22061 Willow Island Park\Graphics\wetland\Figure 1.mxd



PHOTOGRAPHS

Project Name & Job Number: Willow Island 22061

Project Address(es): Willow Island, Canton, NY 13617

<u>Photo Number:</u> 1 <u>Photo Date:</u> 08/22/2022 <u>Photo Location:</u> Willow Island <u>Direction Facing:</u> North <u>Photo Description:</u> Entrance Road to the property



Photo Number:2Photo Date:08/22/2022Photo Location:Willow IslandDirection Facing:SouthPhoto Description:Willow Island south of Main Street.



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<u>Photo Number:</u> 3 <u>Photo Date:</u> 08/22/2022 <u>Photo Location:</u> Willow Island <u>Direction Facing:</u> North <u>Photo Description:</u> East side of Willow Island, pictured Grass River and Main Street bridge.



<u>Photo Number:</u> 4 <u>Photo Date:</u> 08/22/2022 <u>Photo Location:</u> Willow Island <u>Direction Facing:</u> East <u>Photo Description:</u> Art sculptures on Willow Island south of Main Street, part of the Heritage Trail.



<u>Photo Number:</u> 5 <u>Photo Date:</u> 08/22/2022 <u>Photo Location:</u> Willow Island <u>Direction Facing:</u> South <u>Photo Description:</u> Grass River south of Willow Island.



 Photo Number:
 6

 Photo Date:
 08/22/2022

 Photo Location:
 Willow Island

 Direction Facing:
 North

 Photo Description:
 Eastern Elliptio (*Elliptio complanate*) found north of the Project Boundary on Willow

 Island.



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10/17/2022 Page 1 of 3

Conservation Service

Web Soil Survey National Cooperative Soil Survey

| | MAP LE | GEND | MAP INFORMATION |
|--|--|---|---|
| Area of Interest (Area | AOI) of Interest (AOI) | Spoil Area | The soil surveys that comprise your AOI were mapped at 1:24,000. |
| Soils Soil M Soil M Soil M | lap Unit Polygons lap Unit Lines lap Unit Points | ⊘ Very Stony Spot ?? Wet Spot △ Other | Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can caus misunderstanding of the detail of mapping and accuracy of s line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more deta |
| Special Point F | eatures out w Pit | Special Line Features Water Features Streams and Canals | Please rely on the bar scale on each map sheet for map measurements |
| ĭi Clay Clay Close | Spot d Depression | Transportation +++ Rails Comparison Rails | Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857) |
| Grave | el Pit elly Spot ill | US Routes Major Roads Local Roads | Maps from the Web Soil Survey are based on the Web Merc projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required |
| ∧ Lava 业 Marst ऌ Mine | n or swamp or Quarry | Background Aerial Photography | This product is generated from the USDA-NRCS certified da of the version date(s) listed below. |
| Misce Perer Rock | Ilaneous Water mial Water Outcrop | | Survey Area Data: Version 23, Sep 10, 2022 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. |
| Saline Sand | e Spot | | Date(s) aerial images were photographed: Oct 20, 2021– 2021 The orthophoto or other base map on which the soil lines w |
| Sever | rely Eroded Spot ole or Slip | | compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident. |
| jø Sodic | Spot | | |



Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI | | |
|-----------------------------|--------------------------|--------------|----------------|--|--|
| Rd | Redwater fine sandy loam | 1.8 | 71.9% | | |
| Ur | Urban land | 0.4 | 13.7% | | |
| W | Water | 0.4 | 14.4% | | |
| Totals for Area of Interest | | 2.6 | 100.0% | | |





Page 1 of 5

Conservation Service

Web Soil Survey National Cooperative Soil Survey



Hydric Rating by Map Unit

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|---------------------------|-----------------------------|--------|--------------|----------------|
| Rd | Redwater fine sandy loam | 11 | 1.8 | 71.9% |
| Ur | Urban land | 0 | 0.4 | 13.7% |
| W | Water | 0 | 0.4 | 14.4% |
| Totals for Area of Intere | st | 2.6 | 100.0% | |



Description

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States. Federal Register. September 18, 2002. Hydric soils of the United States. Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

Rating Options

Aggregation Method: Percent Present Component Percent Cutoff: None Specified Tie-break Rule: Lower



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program 625 Broadway, Fifth Floor, Albany, NY 12233-4757 P: (518) 402-8935 | F: (518) 402-8925 www.dec.ny.gov

October 31, 2022

Jessica Hefferon Shumaker Land Surveying and Consulting LLC 143 Court St Binghamton, NY 13901

Re: 22061 Willow Island Park Enhancements County: St Lawrence Town/City: Canton

Dear Jessica Hefferon:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

Enclosed is a report of rare or state-listed animals and plants, and significant natural communities that our database indicates occur in the vicinity of the project site.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our database. We cannot provide a definitive statement as to the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

The presence of the plants and animals identified in the enclosed report may result in this project requiring additional review. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the NYS DEC Region 6 Office, Division of Environmental Permits, at dep.r6@dec.ny.gov.

Sincerely,

Heidi Krahling Environmental Review Specialist New York Natural Heritage Program





The following rare plants, rare animals, and significant natural communities have been documented at your project site, or in its vicinity.

We recommend that potential impacts of the proposed project on these species or communities be addressed as part of any environmental assessment or review conducted as part of the planning, permitting and approval process, such as reviews conducted under SEQR. Field surveys of the project site may be necessary to determine the status of a species at the site, particularly for sites that are currently undeveloped and may contain suitable habitat. Final requirements of the project to avoid, minimize, or mitigate potential impacts are determined by the lead permitting agency or the government body approving the project.

The following animal, while not listed by New York State as Endangered or Threatened, is of conservation concern to the state, and is considered rare by the New York Natural Heritage Program.

| COMMON NAME | SCIENTIFIC NAME | NY STATE LISTING | HERITAGE CONSERVATION STATUS | | | |
|-------------------------|---|-----------------------|------------------------------|-------|--|--|
| Freshwater Mussels | | | | | | |
| Eastern Pearlshell | Margaritifera margaritifera | Unlisted | Imperiled in NYS | | | |
| Documented in a stretch | o of the Grass River adjacent to the proj | ect site. 2020-08-07. | | 13915 | | |

The following plants are listed as Endangered or Threatened by New York State, and/or are considered rare by the New York Natural Heritage Program, and are a vulnerable natural resource of conservation concern.

| COMMON NAME | SCIENTIFIC NAME | NY STATE LISTING | HERITAGE CONSERVATION STATU | | |
|---|---|--|-----------------------------|------|--|
| Vascular Plants | | | | | |
| Drummond's Rock Cress | Boechera stricta | Threatened | Imperiled in NYS | | |
| Documented within 1/2 mile arvense, and poison ivy. Th | e downstream of the project site. here are paths along the shore o | 2002-06-02: A low sandy are n both sides of the island. | a with grasses, Equisetum | 6393 | |
| Meadow Horsetail | Equisetum pratense | Threatened | Imperiled in NYS | | |

Documented within 1/2 mile downstream of the project site. 2001-06-08: A low sandy area with grasses, Equisetum ⁷⁵³¹ arvense, and poison ivy. There are paths along both sides of the shore of the island.

This report only includes records from the NY Natural Heritage database. For most sites, comprehensive field surveys have not been conducted, and we cannot provide a definitive statement as to the presence or absence of all rare or state-listed species. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

If any rare plants or animals are documented during site visits, we request that information on the observations be provided to the New York Natural Heritage Program so that we may update our database.

Information about many of the rare animals and plants in New York, including habitat, biology, identification, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org.

IPaC resource list

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

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

Location

St. Lawrence County, New York

Local office

New York Ecological Services Field Office

- **\$** (607) 753-9334
- 💼 (607) 753-9699
- ✓ <u>fw5es_nyfo@fws.gov</u>

IPaC: Explore Location resources

3817 Luker Road Cortland, NY 13045-9385

NOTFORCONSULTATION

Endangered species

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

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

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

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

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

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

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

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

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

Insects

| NAME | STATUS |
|---|-----------|
| Monarch Butterfly Danaus plexippus Wherever found | Candidate |
| No critical habitat has been designated for this species. <u>https://ecos.fws.gov/ecp/species/9743</u> | 2 |

Critical habitats

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

There are no critical habitats at this location.

Migratory birds

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

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

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

Additional information can be found using the following links:

- Birds of Conservation Concern https://www.fws.gov/program/migratory-birds/species
- Measures for avoiding and minimizing impacts to birds <u>https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-</u> <u>migratory-birds</u>
- Nationwide conservation measures for birds <u>https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-</u>

measures.pdf

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

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

| NAME | BREEDING SEASON |
|--|-------------------------|
| American Golden-plover Pluvialis dominica This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. | Breeds elsewhere |
| Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626 | Breeds Dec 1 to Aug 31 |
| Belted Kingfisher Megaceryle alcyon This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA | Breeds Mar 15 to Jul 25 |
| Black-billed Cuckoo Coccyzus erythropthalmus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9399</u> | Breeds May 15 to Oct 10 |

| Blue-winged Warbler Vermivora pinus This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA | Breeds May 1 to Jun 30 |
|---|-------------------------|
| Bobolink Dolichonyx oryzivorus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. | Breeds May 20 to Jul 31 |
| Canada Warbler Cardellina canadensis This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. | Breeds May 20 to Aug 10 |
| Chimney Swift Chaetura pelagica This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. | Breeds Mar 15 to Aug 25 |
| Eastern Meadowlark Sturnella magna This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA | Breeds Apr 25 to Aug 31 |
| Eastern Whip-poor-will Antrostomus vociferus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. | Breeds May 1 to Aug 20 |
| Evening Grosbeak Coccothraustes vespertinus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. | Breeds May 15 to Aug 10 |
| Golden Eagle Aquila chrysaetos This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680 | Breeds Jan 1 to Aug 31 |
| Golden-winged Warbler Vermivora chrysoptera This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. | Breeds May 1 to Jul 20 |

https://ecos.fws.gov/ecp/species/8745

Lesser Yellowlegs Tringa flavipes This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9679</u>

Red-headed Woodpecker Melanerpes erythrocephalus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Upland Sandpiper Bartramia longicauda This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <u>https://ecos.fws.gov/ecp/species/9294</u>

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

Probability of Presence Summary

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

Probability of Presence (

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

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

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum

Breeds elsewhere

Breeds May 1 to Aug 31

Breeds May 10 to Aug 31

11

probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

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

Breeding Season (=)

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

Survey Effort (I)

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

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

No Data (–)

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

Survey Timeframe

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

| \sim | | × . | p r | obability | of pres | sence | breed | ing seas | ion Is | urvey ef | fort — | no data |
|---|------|--------------|------------|-----------|--------------------|--------------|-------|----------|--------|-----------------------|--------|---------|
| SPECIES | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| American Golden-plover BCC Rangewide (CON) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | +11++ | ++++ | ++++ | ++++ |
| Bald Eagle Non-BCC Vulnerable | ‡∔∎⊥ | <u>∎</u> +⊕+ | 1+1+ | ₽┼┿₽ | # +++ | ‡++ Ⅰ | 1+++ | ++++ | ┼║♥║ | ↓ + ↓ Ⅲ | + | +++ |
| Belted Kingfisher BCC - BCR | ++++ | ++++ | +++++ | 1111 | | +++ I | ++11 | + | | ∦ + + | +++1 | ++++ |
| Black-billed Cuckoo BCC Rangewide (CON) | ++++ | ++++ | ++++ | ++++ | + <mark>≢∎∎</mark> | + +∎+ | ++[+ | 1++1 | ++++ | <mark>∔</mark> ∎++ | ++++ | ++++ |

| Blue-winged Warbler BCC - BCR | ++++ | ++++ | ++++ | ++++ | ┼┼┼║ | ++++ | ++++ | +∎++ | ++++ | ++++ | ++++ | ++++ |
|--|------|------|------|--------------------|---------------------------------|---------------------|----------------|--------------------|--------------------|----------------------|------|-------|
| Bobolink BCC Rangewide (CON) | ++++ | ++++ | ++++ | ++++ | | †III | <u>I I</u> I I | | | ++++ | ++++ | ++++ |
| Canada Warbler BCC Rangewide (CON) | ++++ | ++++ | ++++ | ++++ | ┼┼ <mark>║</mark> ║ | ++++ | ++++ | <mark>∎</mark> +++ | ▋▋♥┼ | ++++ | ++++ | ++++ |
| Chimney Swift BCC Rangewide (CON) | ++++ | ++++ | ++++ | ++++ | | ↓+]] | 1111 | 111 | ₩11++ | ++++ | ++++ | ++++ |
| Eastern Meadowlark BCC - BCR | ++++ | ++++ | +++# | ₩₩₩ <mark>┼</mark> | ₿∳≢₿ | ++ <mark>1</mark> 1 | ++1+ | ∎+++ | ++++ | +#++ | ++++ | t+++) |
| Eastern Whip- poor-will BCC Rangewide (CON) | ++++ | ++++ | ++++ | ++++ | <u></u> | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| Evening Grosbeak BCC Rangewide (CON) | +∎+∎ | ┼╢╢╢ | ♥┼▋▋ | | | ++++ | | ++++ | ++++ | ┼┼ ╋ ║ | + | |
| Golden Eagle Non-BCC Vulnerable | ++++ | ++++ | | HH | HH | 1+++ | ++++ | ++++ | ++++ | ┼┼┼║ | ++++ | ++++ |
| SPECIES | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| Golden-winged Warbler BCC Rangewide (CON) | ++++ | ++++ | ++++ | ++++ | ++11 | ++11 | +++ | ++∎+ | ++++ | ++++ | ++++ | ++++ |
| Lesser Yellowlegs BCC Rangewide (CON) | ++++ | ++++ | ++++ | ++++ | ₩ ₩++ | ++++ | ++∎+ | +++ | ₩+++ | +++Ⅲ | ++++ | ++++ |
| Red-headed Woodpecker BCC Rangewide (CON) | ++++ | ++++ | ++++ | ₩+++ | + <mark>+</mark> ++ | ++++ | ++++ | ++++ | <mark>┼┼</mark> ♥┼ | ++++ | ++++ | ++++ |
| Upland Sandpiper BCC - BCR | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | +1++ | ++++ | ++++ | ++++ | ++++ |
| Wood Thrush BCC Rangewide (CON) | ++++ | ++++ | ++++ | +++# | | 1111 | 11+1 | +++ | ∎∎∎+ | ++++ | ++++ | ++++ |

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

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

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

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

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

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

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

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

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

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the <u>RAIL Tool</u> and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

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

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

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

Details about birds that are potentially affected by offshore projects

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

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

What if I have eagles on my list?

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

Proper Interpretation and Use of Your Migratory Bird Report

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

more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Coastal Barrier Resources System

Projects within the John H. Chafee Coastal Barrier Resources System (CBRS) may be subject to the restrictions on federal expenditures and financial assistance and the consultation requirements of the Coastal Barrier Resources Act (CBRA) (16 U.S.C. 3501 et seq.). For more information, please contact the local Ecological Services Field Office or visit the CBRA Consultations website. The CBRA website provides tools such as a flow chart to help determine whether consultation is required and a template to facilitate the consultation process.

There are no known coastal barriers at this location.

Data limitations

The CBRS boundaries used in IPaC are representations of the controlling boundaries, which are depicted on the <u>official CBRS maps</u>. The boundaries depicted in this layer are not to be considered authoritative for in/out determinations close to a CBRS boundary (i.e., within the "CBRS Buffer Zone" that appears as a hatched area on either side of the boundary). For projects that are very close to a CBRS boundary but do not clearly intersect a unit, you may contact the Service for an official determination by following the instructions here: <u>https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation</u>

Data exclusions

CBRS units extend seaward out to either the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward extent of the units is not shown in the CBRS data, therefore projects in the offshore areas of units (e.g., dredging, breakwaters, offshore wind energy or oil and gas projects) may be subject to CBRA even if they do not intersect the CBRS data. For additional information, please contact <u>CBRA@fws.gov</u>.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns. There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory

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

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

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

This location overlaps the following wetlands:

RIVERINE

Riverine

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

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

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

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

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

Data exclusions

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

Data precautions

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

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