WILDLIFE SITE CHARACTERIZATION REPORT

MILL POINT SOLAR PROJECT

TOWN OF GLEN, MONTGOMERY COUNTY, NEW YORK

Prepared For:



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Acronyms and Abbreviations

Notation	Definition
AMSL	Above mean sea level
Applicant	ConnectGen Montgomery County LLC
BBA	Breeding Bird Atlas

BBA Breeding Bird Atlas
BBS Breeding Bird Survey

BCI Bat Conservation International
BESS Battery Energy Storage System
BGEPA Bald and Golden Eagle Protection Act

CBC Christmas Bird Count

EAF Environmental Assessment Form ECL Environmental Conservation Law

ECOS Environmental Conservation Online System

ERM Environmental Resource Mapper

ESA Endangered Species Act
FE Federally Endangered
FT Federally Threatened

HPSGCN High Priority Species of Greatest Conservation Need

IBA Important Bird Area

IPaC Information for Planning and Consultation

MBTA Migratory Bird Treaty Act

MRLC Multi-Resolution Land Characteristics Consortium

MW megawatt

NLCD National Land Cover Database

NRCS Natural Resource Conservation Service

NWI National Wetlands Inventory

NYCRR New York Codes, Rules, and Regulations
NYNHP New York Natural Heritage Program

NYS New York State

NYSDEC New York State Department of Environmental Conservation

ORES Office of Renewable Energy Siting

PADUS Protected Areas Database of the United States

PFO palustrine forested wetlands
POI point of interconnection

Project Mill Point Solar
PSL Public Service Law

PV photovoltaic

RTE Rare, Threatened, and Endangered

SE State Endangered

SOSC State Species of Special Concern

ST State Threatened U.S. United States

USACE U.S. Army Corps of Engineers
USDA U.S. Department of Agriculture



Notation	Definition
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
WMA	Wildlife Management Area
WRP	Wetlands Reserve Program
WSCR	Wildlife Site Characterization Report



Regulatory Section	Documentation	Located
900-1.3 (g)(1)	At the earliest point possible in the applicant's preliminary project planning, the applicant shall conduct a wildlife site characterization summarizing existing public information on bird, bat, and other species, including, but not limited to, New York's Environmental Assessment Form (EAF) Mapper, New York Natural Heritage Program (NYNHP), United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) and Environmental Conservation Online System (ECOs) databases, New York's Environmental Resource Mapper (ERM), Nature Explorer, and Biodiversity and Wind Siting Mapping Tool, eBird, Audubon Christmas Bird Counts (CBC), United States Geological Survey (USGS) breeding bird surveys (BBS), the current New York Breeding Bird Atlas (BBA) III program, New York State (NYS) Ornithological Association, Bat Conservation International's (BCI) database on bat species ranges, NYS Department of Environmental Conservation (NYSDEC) bat information.	Section 2.0; Appendix B; Appendix C
900-1.3 (g)(1)(i)	Species documented at the proposed facility, access roads, interconnections, connecting lines, from available data sources. A subset of NYS threatened or endangered species identified within the last five (5) years shall be provided.	Section 3.7, Table 3-5
900-1.3 (g)(1)(ii)	For each listed animal species documented from available data sources, provide an evaluation of current habitat suitability for those species at the project site.	Section 3.7, Table 3-5
900-1.3 (g)(1)(iii)	Landscape features and resources of potential concern within five (5) miles of the facility that may function to funnel or concentrate birds and bats, with a focus on NYS threatened or endangered species, during migration or for feeding, breeding, wintering, or roosting activities, such as national wildlife refuges, wildlife management areas, grassland focus areas, core forest blocks (contiguous areas one hundred fifty (150) acres or larger), Audubon Important Bird Areas, high elevation mountaintops, prominent ridgelines, forested riparian areas, known hibernacula, records of caves and mines, or other significant habitat areas.	Sections 3.3 and 3.6
900-1.3 (g)(1)(iv)	Geographical, topographical, and other physical features within five (5) miles of the facility, interconnections, connecting lines, and access roads.	Section 3.6
900-1.3 (g)(1)(v)	National Wetlands Inventory (NWI) and NYSDEC mapped wetlands, streams, waterbodies, state forests, parks, land use, and other available information relevant to siting the facility.	Section 3.2; Table 3-3; Appendix A
900-1.3 (g)(1)(vi)	A review of National Audubon Society climate change modeling for listed bird species documented in the wildlife site characterization, and review of other climate change models relevant to listed bird species and other wildlife species documented at the facility site, as available.	Section 3.10



1.0 INTRODUCTION

1.1 Project Description

ConnectGen Montgomery County LLC (the Applicant), a subsidiary of ConnectGen LLC (ConnectGen) proposes the construction of an approximately 250-megawatt (MW) photovoltaic (PV) solar energy generation facility) called "Mill Point Solar" or the "Project" in the Town of Glen, Montgomery County, New York. The Project will be developed on approximately 2,000 acres of leased, private land owned by a number of participating landowners. The Project Area, for the purpose of this study, includes approximately 4,000 acres of land, of which approximately half of the area would be required to construct and operate the facility (Figure 1). Project components will include photovoltaic (PV) panels and associated racking systems, co-located inverters and medium voltage transformers, a Battery Energy Storage System (BESS), a new 345 kilovolt (kV) substation and switching station, underground and/or overhead alternating current (AC) collection, access roads, temporary laydown areas, and a potential operations and maintenance facility located within the Project Area. The final solar array specification, as well as locations of arrays, will be finalized as part of ongoing engineering efforts.

1.2 Objectives

TRC was contracted by ConnectGen Montgomery County LLC to characterize wildlife use and areas of critical environmental or regulatory concern that could impact Project development. The purpose of this report is to support the development of an application to the New York State (NYS) Office of Renewable Energy Siting (ORES) to construct the Project under Section 94-c of the New York Executive Law (New York Codes, Rules and Regulations (NYCRR) Chapter XVIII, Title 19 Part 900, subparts 900-1 through 900-14). This Wildlife Site Characterization Report (WSCR) is intended to meet the requirements of §900-1.3 (g)(1) of that regulation. This document is intended to provide sufficient information to ORES and New York State Department of Environmental Conservation (NYSDEC) to "indicate whether the agencies consider occupied habitat of NYS threatened or endangered species to be present on the facility site based on existing information or whether additional habitat assessments are required" (§900-1.3 (g)(1)).. Information in this report is provided to:

- Characterize wildlife species with the potential to occur within the Project Area by summarizing existing public information on bird, bat, and other species;
- With respect to NYS threatened or endangered species or Species of Special Concern (SOSC), this wildlife site characterization includes an evaluation of the following within the Project Area:
 - Species observations within the last five years and associated habitat suitability;
 - National Wetlands Inventory (NWI)-identified and NYSDEC-mapped wetlands and waterbodies;
 - Land use and vegetation cover types; and
 - A review of National Audubon Society climate change modeling for listed bird species documented within the Project Area and a review of other climate change models relevant to listed bird species and other wildlife species documented within the Project Area.



- With respect to NYS threatened or endangered species or SOSC, this wildlife site characterization includes an evaluation of the following within the Project Area and 5mile Study Area:
 - Geographical, topographical, and other physical features including prominent ridgelines and high elevation mountaintops; and
 - Landscape features, resources of potential concern, and significant natural communities including Wildlife Management Areas (WMAs), National Wildlife Refuges (NWRs), core forest blocks, Audubon Important Bird Areas (IBAs), known hibernacula, wildlife concentration areas, grassland focus areas, forested riparian areas, and potential roosting habitat.

2.0 METHODS

TRC, on behalf of ConnectGen Montgomery County LLC, has conducted both site visits and a desktop analysis of the Project Area and the 5-mile Study Area to characterize wildlife species and habitats potentially affected by Project development. The results of the desktop analysis and ongoing site visits are described in Section 3.0, below. While site visits are not required by § 900-1.3(g), on behalf of the Project, TRC has conducted regular site visits to the Project Area for wetland delineations and is conducting ongoing winter raptor surveys. The publicly available resources used in the analysis include those identified in the Section 94-c regulations and are listed as follows:

- Google Earth Pro 2020;
- Multi-Resolution Land Characteristics (MRLC) Consortium National Land Cover Database (NLCD);
- New York Ecoregion Maps;
- New York Natural Heritage Program (NYNHP) (Appendix C);
- New York State Department of Environmental Conservation (NYSDEC) Environmental Assessment Form (EAF) Mapper (Appendix C);
- New York State Environmental Resource Mapper (ERM) (Appendix C);
- NYSDEC Animal Species Databases;
- NYSDEC Atlases for Reptiles, Amphibians, and Fish;
- NYSDEC State Wildlife Action Plan (SWAP);
- NYSDEC State Forests;
- NYSDEC Wildlife Management Areas
- NYSDEC Grassland Focus Areas mapping;
- NYSDEC Freshwater Wetland mapping;
- NYSDEC Nature Explorer (Appendix C);
- U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Grassland Focus Areas;
- USDA Ecoregion Maps;
- U.S. Geological Survey (USGS) Protected Areas Database of the United States (PADUS);



- USGS Tribes Hill and Randall New York 7.5-minute quadrangles;
- USDA (NRCS) Wetlands Reserve Program (WRP); and
- USFWS National Wildlife Refuge Map.
- U.S. Fish and Wildlife Service (USFWS) NWI mapping;
- USFWS Information for Planning and Consultation (IPaC) report;
- USFWS Northern long-eared bat hibernacula and maternity roost tree locations;
- Bat Conservation International's (BCI) database;
- New York Breeding Bird Atlas (NYBBA);
- Audubon IBAs;
- Audubon Christmas Bird Count;
- National Audubon Society 'Survival By Degrees' climate change model;
- Journal of Fish and Wildlife Management;
- USGS Breeding Bird Survey;
- eBird Database; and
- New York State Ornithological Association

In addition to the sources utilized during the desktop review, field surveys are currently underway within the Project Area for grassland wintering raptor use and wetland and waterbodies. Although not required by the 94-c regulations for the WSCR, these surveys are being conducted in anticipation of a request from the NYSDEC Region 4 Office. A Winter Raptor Survey Plan, including methodology and survey locations, was coordinated with NYSDEC and submitted to the agency on November 6, 2020. The survey results will be submitted to ORES and NYSDEC upon survey completion.

Avian surveys are being conducted following the NYSDEC Draft Survey Protocols for State-listed Wintering Grassland Raptor Species. Delineations for wetlands and waterbodies were performed in accordance with criteria set forth in the 1987 United States Army Corps of Engineers (USACE) Wetlands Delineation Manual (Environmental Laboratory 1987) and the 2012 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0) (USACE 2012). Information from these surveys will be used to inform facility design which will, once completed, be submitted to the ORES and NYSDEC as part of an anticipated 94-c application.

3.0 RESULTS

3.1 Land Use and Vegetation Cover

Based on the desktop analysis, land use within the 4,129.5-acre Project Area is primarily agricultural (73.4 percent) consisting of cultivated crops, pastureland, or hay. Some undeveloped wooded areas also occur within the Project Area including mixed forest (10.8 percent), deciduous forest (4.3 percent), and evergreen forest (1.0 percent). Less than one percent of the Project Area consists of barren land (0.01 percent), grassland/herbaceous areas (0.2 percent), open water (0.2 percent), and shrub/scrub (0.002 percent) areas. Developed space within the Project Area



comprises 3.5 percent, including high intensity (0.1 percent), medium intensity (0.2 percent) and low intensity (0.8 percent), with developed open space representing the largest amount of developed land (2.5 percent). Table 3-1 summarizes land use and vegetation cover types within the Project Area. Figure 2 (Appendix A) illustrates land use and vegetation cover types within both the Project Area.

Table 3-1: Land Use and Vegetation Cover Types Identified within the Project Area

Land Use/Vegetation Cover Type	Acres within Project Area	Percentage of Project Area
Barren Land (Rock/Sand/Clay)	0.6	0.01
Cultivated Crops	1,557.5	37.7
Deciduous Forest	175.7	4.3
Developed, High Intensity	3.9	0.1
Developed, Low Intensity	33.0	0.8
Developed, Medium Intensity	6.8	0.2
Developed, Open Space	98.4	2.4
Emergent Herbaceous Wetlands	36.1	0.9
Evergreen Forest	40.3	1.0
Grassland/Herbaceous	9.6	0.2
Mixed Forest	444.6	10.8
Open Water	9.3	0.2
Pasture/Hay	1,476.3	35.7
Shrub/Scrub	0.1	0.002
Woody Wetlands	237.5	5.8
Total	4,129.5	100.0
Source: MLRC 2016		

3.2 Wetlands and Waterbodies

Based on a desktop review, 59.7 acres of NWI wetlands occur within the Project Area, as shown below in Table 3-2, with a cover type breakdown in Table 3-3. Table 3-2 also illustrates a breakdown of the amount of NYSDEC-mapped wetlands within the Project Area by wetland class, with 28.8 acres of NYSDEC-mapped wetland occurring within the Project Area. The most common NWI wetland cover type within the Project Area is R5UBH (riverine, perennial, unconsolidated bottom, permanently flooded) which is largely associated with streams, followed by palustrine unconsolidated shore (PUS), which coincide with farm ponds. Figures 7 and 8 (Appendix A) illustrate the NWI and NYSDEC-mapped resources in the Project Area.

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Table 3-2: Wetlands Identified from Public Databases Within the Project Area

Туре	Acres in Project Area		
NWI Wetlands	59.7		
NYSDEC	Wetlands		
Class	Acres in Project Area		
Class I	0		
Class II	28.8		
Class III	0		
Total	28.8		

Table 3-3: NWI Wetland Cover Types Identified Within the Project Area

Cover Type	Acres in Project Area
PEM	0
PFO	0
PSS	0
PUB	0
PUS	18.2
R2UBH	3.6
R3UBH	0
R4SBC	1.3
R5UBH	36.7

The Project Area is located entirely within the Mohawk sub-basin (Hydrologic Unit Code (HUC) 02020004) The Project Area is almost entirely within the Auries Creek – Mohawk River (HUC 020200041006) sub-watershed, with the western-most portions located in the Yatesville Creek – Mohawk River (HUC 020200041003) sub-watershed.

The NYSDEC classifies watersheds more generally within NYS. The NYSDEC uses the definitions of watersheds and drainage basins interchangeably. New York's waters (e.g., lakes, rivers, wetlands, and streams) fall within one of seventeen major drainage basins. The NYSDEC defines these drainage basins or watersheds as an area of land that drains water into a specific body of water within or adjacent to NYS, and includes networks of rivers, streams, lakes, and the surrounding lands. The NYSDEC-classified watersheds are separated by high elevation geographic features (e.g., mountains, hills, and ridges). Each major drainage basin corresponds to one or more USGS sub-basins (USGS HUC 8-digit codes). The Project Area is located within the Mohawk River watershed (NYSDEC 2020c).

There are numerous tributaries from four NYSDEC-mapped streams flowing throughout the Project Area including the following:

- Van Wie Creek and Tributaries (NYSDEC ID: 1201-0122);
- Minor Tributaries to the Mohawk River (NYSDEC ID: 1201-0030);



- Auries Creek and Tributaries (NYSDEC ID: 1201-0116); and
- Minor Tributaries to the Mohawk River (NYSDEC ID: 0201-0121).

State-mapped wetlands within the Project Area includes wetlands TH-17 and R-20 in the central and southwestern portion of the Project Area. NYSDEC-mapped waterways and watersheds within the Project Area are depicted in Figure 7 (Appendix A). Each of the NYSDEC-mapped wetlands within the Project Area are classified as Class II wetlands, which do not require enhancements or mitigation with the installation of solar panels if a 100-foot setback is established.

Wetland and waterbody delineations are ongoing for the Project Area with partial completion in fall 2020. Wetland and waterbody delineations will be completed in spring 2021 and results will be shared with both the NYSDEC and U.S. Army Corps of Engineers (USACE) for jurisdictional determination, as applicable. Early wetland and waterbody screenings and delineation results are being utilized in the Project siting and design. Identified wetlands and waterbodies may be considered jurisdictional and subject to regulation pursuant to § 900.1-3 (e) and (f), pertaining to wetlands and waterbodies, respectively.

3.3 Geographic, Topographic, and Physical Features

The Project Area has variable topography, ranging from 400 to 1,100 feet above mean sea level (AMSL), with a woodlot comprising the highest point in the Project Area. There are multiple areas eclipsing 800 feet throughout the Project Area, with low points typically coinciding with streams.

The Project Area resides within the Hudson-Mohawk and Allegheny Plateau Physiographic Provinces, and the Study Area resides within the Hudson-Mohawk, Allegheny Plateau, and Adirondack Mountains Physiographic Provinces, within the Eastern Great Lakes and Hudson Lowlands Level III Ecoregion (83) and the Mohawk Valley level IV Ecoregion (83f) (Bailey 1995; Bryce et al. 2010; NYS 2020; Figure 5, Appendix A). In addition, the Mohawk River intersects the northern portion of the Study Area and may provide habitat for bird species.

The Project Area and 5-mile Study Area are heavily disturbed by agriculture, primarily corn (*Zea mays*). Dominant natural vegetation within the undisturbed portions of the Project and Study Areas includes red oak (*Quercus rubra*), eastern cottonwood (*Populus deltoides*), red maple (*Acer rubrum*), and eastern hemlock (*Tsuga canadensis*) in the tree stratum; American beech (*Fagus grandifolia*), white willow (*Salix alba*), and white dogwood (*Cornus alba*) in the shrub stratum; and reed canary grass (*Phalaris arundinacea*), sensitive fern (*Onoclea sensibilis*), narrowleaf cattail (*Typha angustifolia*), and corn (*Zea mays*) in the herb stratum.

The following ecological communities, as defined by Ecological Communities of NYS (Edinger et al., 2014), were identified within the Project Area at the time of wetland delineation surveys:

- Beech-maple forest,
- Confined river,

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- Cropland/field crops,
- Cropland/row crops,
- Ditch/artificial intermittent stream,
- Farm pond/artificial pond,
- · Hemlock-northern hardwood forest,
- Interior of barn/agricultural building,
- Intermittent stream,
- Mowed lawn,
- Mowed lawn with trees,
- Mowed roadside/pathway,
- Pastureland,
- Paved road/path,
- Purple loosestrife marsh,
- Red maple-hardwood swamp,
- Rural structure exterior,
- Shallow emergent marsh,
- Shrub swamp,
- Successional old field,
- Successional shrubland,
- Successional southern hardwoods, and
- Unpaved road/path.

3.4 Classified Lands

The Project is located entirely on private land, no protected areas, including state forests and parks, are found within the Project Area. Table 3-4 summarizes the results of the USDA Protected Areas Database findings within the Project Area, as well as the Study Area (PADUS 2020). Figure 3



(Appendix A) illustrates the locations of the USDA Protected Areas Database within both the Project and Study Area.

Table 3-4: Land Ownership Identified within the Project and Study Area

Ownership	Acres within Project Area	Acres within Study Area
Federal	0	0.5
USDA NRCS WRP Easement	0	24.6
State	0	5,953.7
Private	4,039.4	76,254.1
Unknown ¹	0	19,098.9
Total	4,039.4	101,307.2

Source: PADUS 2020.

Note:

3.5 Significant Habitat Areas

Based on the desktop analysis, the Project and Study Areas overlap multiple areas containing core forest blocks but do not overlap Grassland Focus Areas. In addition to the core forest blocks, the Project Area contains approximately 35 acres of forested riparian habitat, and approximately 236 acres of forested riparian habitat is located within the 5-mile Study Area (USFWS 2020a). For the purposes of this desktop analysis, forested riparian habitat is defined as NWI-identified PFO wetlands.

3.5.1 Core Forest Blocks

A core forest block is a contiguous areas of forest 150 acres of larger. They are important for sensitive wildlife including many bat species and forest songbirds, which avoid nesting near areas with human disturbance (NYNHP 2019). Fragmentation of large forests by new development reduces or eliminates core forest and is a leading driver of biodiversity loss (NYNHP 2019). Fragmentation decreases forest habitat quality, disrupts wildlife movement, and facilitates the spread of invasive species (NYNHP 2019). Based on a desktop review, there are approximately 161.5 acres of core forest blocks located throughout the Study Area (Figure 6, Appendix A).

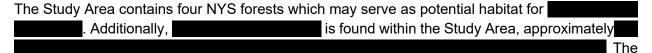
3.6 Resources of Potential Concern

The Project Area is located entirely within private land, and thus does not overlap with any state or federal lands, including USFWS National Wildlife Refuge System lands (USFWS 2020d), Wildlife Management Areas (WMAs), or National Wildlife Refuges (NWRs). The Project Area also does not cross any Audubon IBAs or Wildlife Concentration Areas. The Study Area contains a

¹ PADUS outlines protected areas of the U.S. that are dedicated to the "preservation of biological diversity and to other natural, recreational, and cultural uses (PADUS 2020). This database identifies "ownership" of protected and non-protected lands. The ownership of 19,098.0 acres of the Study Area are unknown. The majority of this area is likely to be privately owned and not identified as protected areas.



mixture of private and state lands, as well as areas enrolled in conservation easements such as the Wetlands Reserve Program (WRP).



Mohawk River is located directly north of the Project Area, and intersects the Study Area, which may attract foraging bald eagles, though none have been recorded within the Project Area by publicly available databases or winter raptor surveys. The Mohawk River may also attract migratory birds, however no NYS threatened or endangered migratory birds have been recorded within the Project Area within the last five years.

3.6.1 New York State Forests

There are four NYS Forests within the Study Area, including the following:

- Charleston State Forest;
- Lost Valley State Forest;
- Rural Grove State Forest; and
- Yatesville Falls State Forest.

The Charleston State Forest is a 4,026-acre hardwood and mixed forest located approximately two miles south of the Project Area and contains more than 22 miles of cross-country ski trails and 11 wildlife marshes that were constructed in the 1950's under Federal Aid to Wildlife Programs to provide habitat for waterfowl (NYSDEC 2020b).

The Lost Valley State Forest is a 748-acre forest located 3.5 miles southeast of the Project Area and features snowmobile trails and hunting and trapping opportunities. The Lost Valley State Forest is managed for timber production, wildlife habitat, and recreation. This forest also contains 2.18 miles of trails through the forest that allow motorized access for people with mobility impairments (NYSDEC 2020b).

The Rural Grove State Forest (0.7 miles south) and Yatesville Falls State Forest (1.5 miles southwest) are located on opposite sides of Logtown Road from each other and thus, are managed similarly. The Rural Grove State Forest is a 1,286-acre forest purchased for timber production and watershed protection. The Yatesville Falls State Forest is a 712-acre forest also purchased for timber production and watershed protection. Each of these forests provide big-game hunting opportunities for white-tailed deer (Odocoileus virginianus) and small-game hunting including turkey (Meleagris gallopavo) and ruffed grouse (Bonasa umbellus). Yatesville Falls State Forest also has three locations left unplowed to provide recreation opportunities for snowmobiles and cross-country skiing. Yatesville Falls State Forest also contains Yatesville Falls, which can be viewed from a universally accessible platform (NYSDEC 2020b).



3.6.2 Wetlands Reserve Program and Open Space Conservation Program

Results of the desktop analysis identified private lands outside of the Project Area, but within the Study Area that were enrolled in the USDA NRCS Wetlands Reserve Program (WRP) and Open Space Conservation Program (Figure 3, Appendix A). The WRP is a voluntary program that offers landowners the opportunity to protect, restore, and enhance wetlands on their property (USDA NRCS 2020). There are eight areas, totaling approximately 172 acres within the Study Area which are enrolled in the WRP. Open Space is defined by the Forest Service as public or private land that is "...valued for natural processes and wildlife, agricultural and forest production, aesthetic beauty, active and passive recreation, and other public benefits" (USDA Forest Service 2021). There is a 151.2-acre tract of farmland (owned by the Dillenbeck Family) classified as Open Space 1.5 miles west of the Project Area.

3.7 Wildlife

As detailed above in Section 3.1, the majority of the Project Area consists of cultivated crop, pasture, and haylands. The diversity of vegetation communities and land uses within the 5-mile Study Area is greater and supports numerous species of birds, mammals, reptiles, amphibians, and fish in comparison to the Project Area. Lists of species with the potential to occur in the Project Area and 5-mile Study Area based on review of publicly available databases are included in Appendix B. Several of the wildlife species known to, or expected to, occur in the area include federally listed species under the Endangered Species Act, NYS listed as threatened, endangered, or NYS SOSC.

3.7.1 New York State Listed Species

The potential for occurrence within the Project Area of New York State species listed as endangered, threatened, or SOSC were reviewed using publicly reported data from 2015 to 2020. State definitions of NYS listed species are as follows (NYSDEC 2019):

- Endangered species are determined by the NYSDEC to be in imminent danger of extinction or extirpation in New York State, or are federally listed as endangered. All such species are protected under New York State ECL 11-0535.
- Threatened species are determined by the NYSDEC as likely to become endangered within the foreseeable future in New York State, or are federally listed as threatened. All such species are protected under New York State ECL 11-0535.
- SOSC are those native species which are not yet recognized as endangered or threatened, but for which documented evidence exists relating to their continued welfare in New York State. Legislation passed 4 October 2005 gave Protected Wildlife status



under ECL 11-0103 to all species listed as Special Concern. Special Concern species may also be protected under other laws.



Table 3-5: New York State Listed Species Potentially Occurring in the Study Area						
Common Name	Scientific Name	Status ¹	Habitat Requirements	Potential for Occurrence within Project Area	Observed within Project Area in Last Five Years	Source(s) ²
			Bir	rds		
						•



Table 3-5: New York State Listed Species Potentially Occurring in the Study Area						
Common Name	Scientific Name	Status ¹	Habitat Requirements	Potential for Occurrence within Project Area	Observed within Project Area in Last Five Years	Source(s) ²
-						
		-				
-						-



Table 3-5: New York State Listed Species Potentially Occurring in the Study Area						
Common Name	Scientific Name	Status ¹	Habitat Requirements	Potential for Occurrence within Project Area	Observed within Project Area in Last Five Years	Source(s) ²
		_				
		-				



Table 3-5: New York State Listed Species Potentially Occurring in the Study Area						
Common Name	Scientific Name	Status ¹	Habitat Requirements	Potential for Occurrence within Project Area	Observed within Project Area in Last Five Years	Source(s) ²
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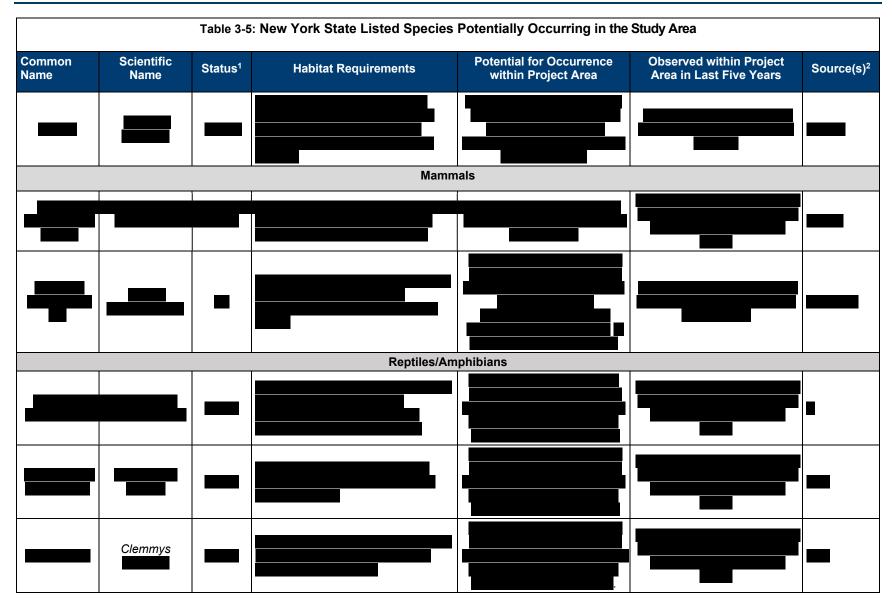




Table 3-5: New York State Listed Species Potentially Occurring in the Study Area							
Common Scientific Name Status ¹ Habitat Requirements Potential for Occurrence within Project Area in Last Five Years							
		-				-	

¹ SE: State Endangered; ST: State Threatened; SOSC: State Species of Special Concern;

² A: Observed on-site by TRC Biologists; B: Observed during avian surveys; C: NYSDEC/NYNHP mammals webpage Range maps and Descriptions; D: Species identified by USFWS online database (IPaC); E: Species identified in the NYS Breeding Bird Atlas; F: Species identified in the Audubon Christmas Bird Count; G: Species identified in eBird; H: Species identified in the NYS Amphibian and Reptile Atlas Project; I: Species identified in the NYSDEC Statewide Fisheries Database; J: Species identified by USGS Breeding Bird Survey; K: Species distribution Range in NYSDEC SWAP; L: Species identified in the Bat Conservational International Range Maps; M: Species identified during consultations with state or federal agencies



3.7.2 Federally Listed Species

3.7.3 Migratory Birds and Eagles

To assess the potential for NYS listed threatened and endangered migratory birds and eagles, BBA III data for the Project and Study Areas was reviewed. This review included data located entirely within or overlapping the Study Area for the Project, with special status species shown below on Table 3-5. The Project Area intersects four BBA III survey blocks including Tribes Hill CW, Randall CE, Randall SE, and Tribes Hill SW (NYBBA 2020). The nearest USGS BBS Route (# 61206 - Duanesburg) is located approximately 11 miles southeast of the Project Site near Duanesburg, New York outside of the Study Area. Audubon CBC circles NYFP and NYJG were reviewed (Audubon 2020a, b).



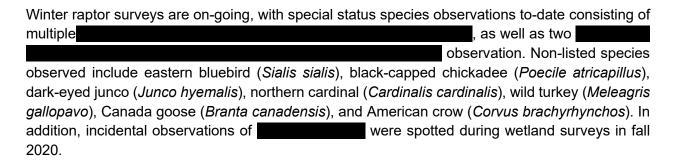
The Project Area contains NYBBA III Tribes Hill CW, Randall CE, Randall SE, and Tribes Hill SW Survey Blocks (NYBBA 2020). Three special status species have been recorded in the Tribes Hill CW Block including the Four special status species were recorded in the Randall CE Block including the Three special status species were recorded in the Randall SE Block including the . Two special status species were recorded in the Tribes Hills SW Block including the (NYBBA 2020). The Study Area contains the following Survey Blocks: Randall NE; Tribes Hill NW; Tribes Hill SE; Tribes Hill NE; Tribes Hill CE: Esperance NW; Esperance NE; Carlisle NE: Carlisle CE; and Carlisle NW.

The Project Area contains suitable habitat for a variety of special status species including farm ponds, mixed-deciduous forests, and agricultural row crop, pasture, and hay fields. Publicly available databases contain records of six special status bird species and one special status mammal species within the Project Area. Presence of special status bird species can be confirmed through ongoing winter raptor surveys.

Summary

Based on a review of publicly available data, five (5) special status species have been recorded within the Project Area, including one (1) state endangered, one (1) state threatened, one (1) state threatened and federally threatened species, and two (2) state species of special concern





Information from winter raptor surveys will be used to inform facility design which will, once completed, be submitted to NYSDEC as part of the Section 94-c application.

The proposed Project will be largely sited over open agricultural lands. Slightly more than two-thirds of these areas (Table 3-1) exist as cultivated crops or pasture/hay and can provide various forms of habitat for NYS-protected grassland bird species. The most common habitat uses are foraging, roosting, and nesting, all of which can be greatly affected by the type and extent of farming in a given year. Public data sources pertaining to species occurrences in and around the Project Area are summarized in the preceding section, and surveys are either underway or planned for spring 2021, which will offer more exact data on habitat use by NYS-protected grassland bird species in these areas.

Otherwise, development within the Project Area is expected to have general effects, some of which may be beneficial, on the distribution and movement patterns of common birds, small mammals, and game species (e.g. white-tailed deer and turkey (*Malleagris gallopavo*)) who frequent open areas such as agricultural crop and hay fields.

in addition, based on a review of species-specific na	abitat requirements, range and distribution, and
current Project and Study Area conditions,	
. No known	have been identified within the Project Area.
However, forested areas capable of supporting	make up approximately 16
percent of the Project Area and 35 percent of the S	tudy Area.

3.8 Climate Change for Bird Species

The National Audubon Society *Survival by Degrees* climate change model assesses the vulnerability of over 600 avian species to climate change. According to the model, the summer and winter range and distribution of each bird species presented in this document is vulnerable as a result of an increase in ambient air temperature ranging from 1.5-3.0°C. The model results indicate that each species range and distribution will shift, expand, or contract as a result of increased global temperatures.

Table 3-6 includes the climate vulnerability for listed bird species identified as potentially occurring within the 5-mile Study Area. The summer range of arctic birds, boreal birds, coastal eastern forest birds, and water birds within the Project Area are assigned a high vulnerability ranking, representing a moderate to high loss of habitat for year-round residents and nesting, foraging, and



migratory populations. According to Audubon's climate change model, birds with high to moderate vulnerability may lose more than half their current range and will be forced to search for suitable habitat elsewhere. However, the winter range of these species is assigned a lesser vulnerability ranking, representing a stable, low, to moderate loss of habitat in southern climates where migrating populations spend the winter (Audubon 2020b).

Table 3-6: Climate Vulnerability for State-Listed Species within the 5-mile Study Area

Common Name	Seasonal Range within the 5-mile Study Area	Overall Species Vulnerability Status for each Warming Scenario			
	the 5-mile Study Area	+1.5 °C	+2.0 °C	+3.0 °C	
	Summer/Breeding Uncommon	Moderate	Moderate	Moderate	
	Summer/Breeding Uncommon	Stable	Stable	Stable	
	All Seasons Uncommon	Stable	Stable	Stable	
	All Seasons Uncommon	Moderate	Moderate	Moderate	
	All Seasons Uncommon	Low	Low	Low	
	Summer/Breeding Uncommon	Low	Low	Low	
	Migration Uncommon	Low	Low	Low	
	Migration Common	Stable	Stable	Stable	
	Breeding Common	Stable	Stable	Stable	

Source: Audubon 2020b.

Aside from the National Audubon Society *Survival by Degrees* climate change model, no regionalor species-specific climate change models or model results were identified for the wildlife and fish species presented in this document.

Summary

Based on a review of the National Audubon Society *Survival by Degrees* climate change model in conjunction with the Project type and scope, implementation of the Project would result in a substantial increase (+1.5-3.0°C) in ambient air temperature, by which suitable habitat range and distribution would be affected. While the anticipated cumulative impacts of solar arrays have the potential to cause regional changes in temperature and precipitation by altering the amount of solar radiation absorbed by the Earth or disrupting local airflow patterns (Hu et al. 2015), they also have the potential to reduce and/or replace existing fossil fuel emitting energy systems, thereby reducing carbon emissions. The Project would contribute to a reduction of global carbon emissions, which may result in a lesser global ambient air temperature increase. According to the National Audubon Society, if global ambient air temperatures are limited to 1.5°C above pre-industrial levels, the risk of bird species vulnerability will be lessened in comparison to projections associated with traditional and current fossil fuel emission sources.

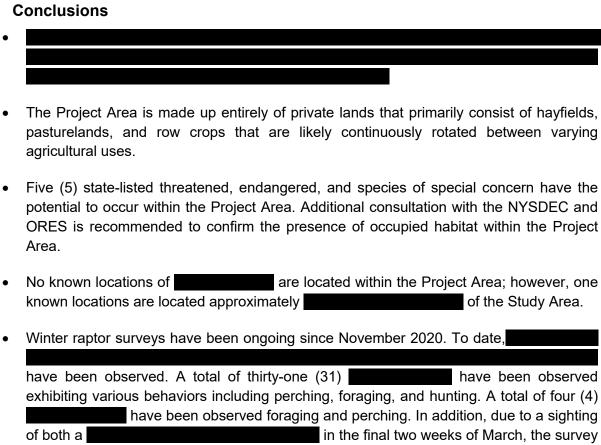


4.0 CONCLUSIONS AND RECOMMENDATIONS

This document is intended to provide sufficient information to ORES and NYSDEC to determine whether occupied habitat for NYS listed species exists on site or whether additional surveys may be necessary. This compilation of information on species and habitat preferences is provided to assist in the assessment of the likelihood that occupied habitat for NYS-protected species exists on site and whether the construction and operation of a ground-mounted solar energy facility would affect NYS listed species. Based on this review, the following conclusions were identified that will be considered during facility design which will be submitted as part of the Project's 94-c application:

4.1 Conclusions

upon completion.



The development of the Project would not contribute to the effects of climate change portrayed in current models. Instead, the development of the Project would be beneficial in preventing the loss of current wildlife species' ranges within the region.

will continue through April 15. Comprehensive survey results will be provided to ORES

Wetland and waterbody delineations are ongoing for the Project Area and results will be provided to ORES upon completion.

April 2021 22



4.2 Recommendations

Grassland breeding bird surveys are planned to commence in the spring of May 2021, subsequent to coordination with NYSDEC on survey methodology. Winter Raptor Surveys are on-going. Results of the surveys will be provided to ORES and NYSDEC in accordance with 900-1.3(g)(5). The Applicant anticipates discussing whether ORES and NYSDEC consider occupied habitat to be present on the facility site based on existing information in a meeting to occur within four weeks of the delivery of this report, in accordance with 94-c regulations. The Applicant understands that survey work is on-going and a final determination as to occupied habitat may not occur until such results have been provided to ORES and NYSDEC and additional meetings have occurred in accordance with the 94-c regulations.



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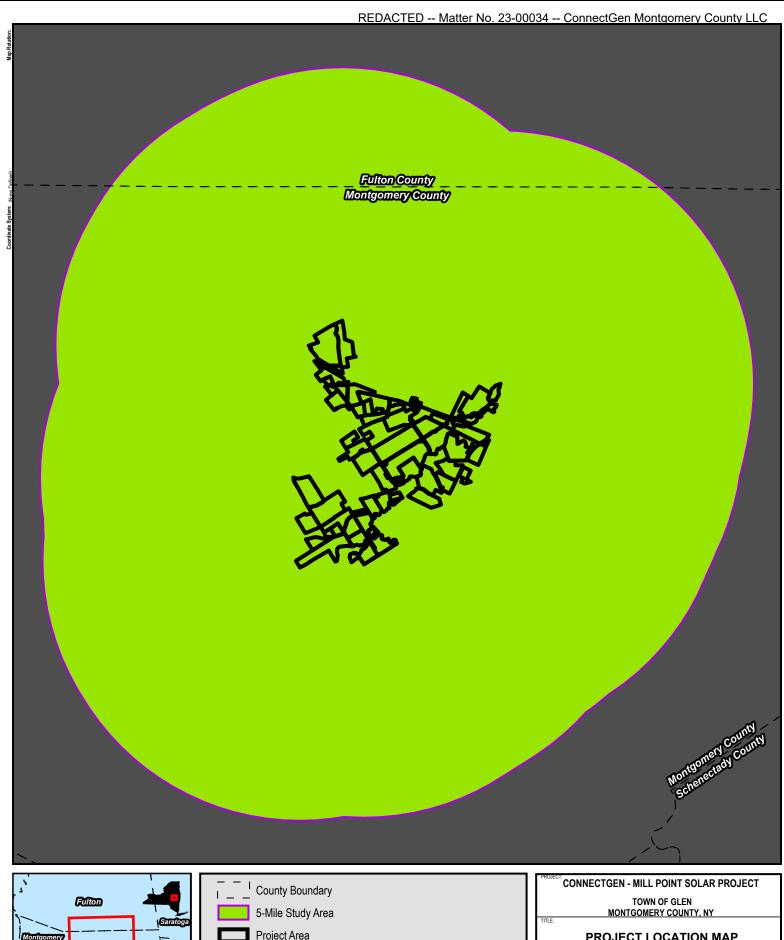


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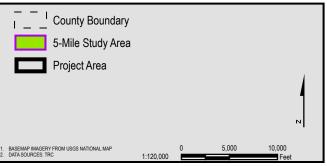


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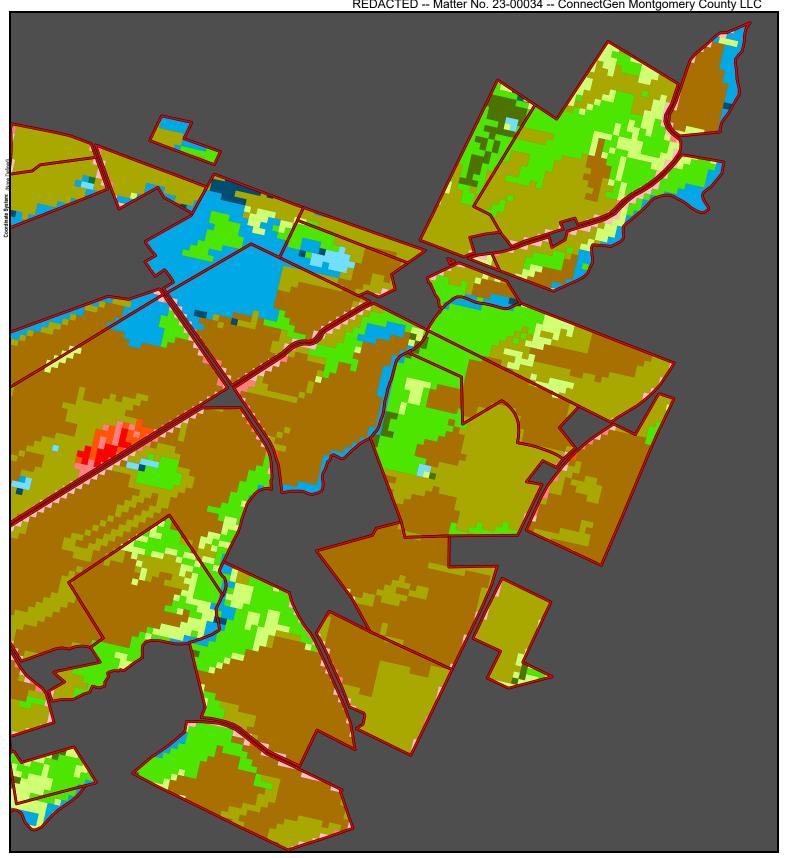
Appendix A: Figures

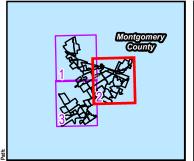


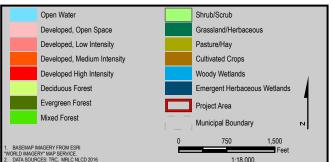




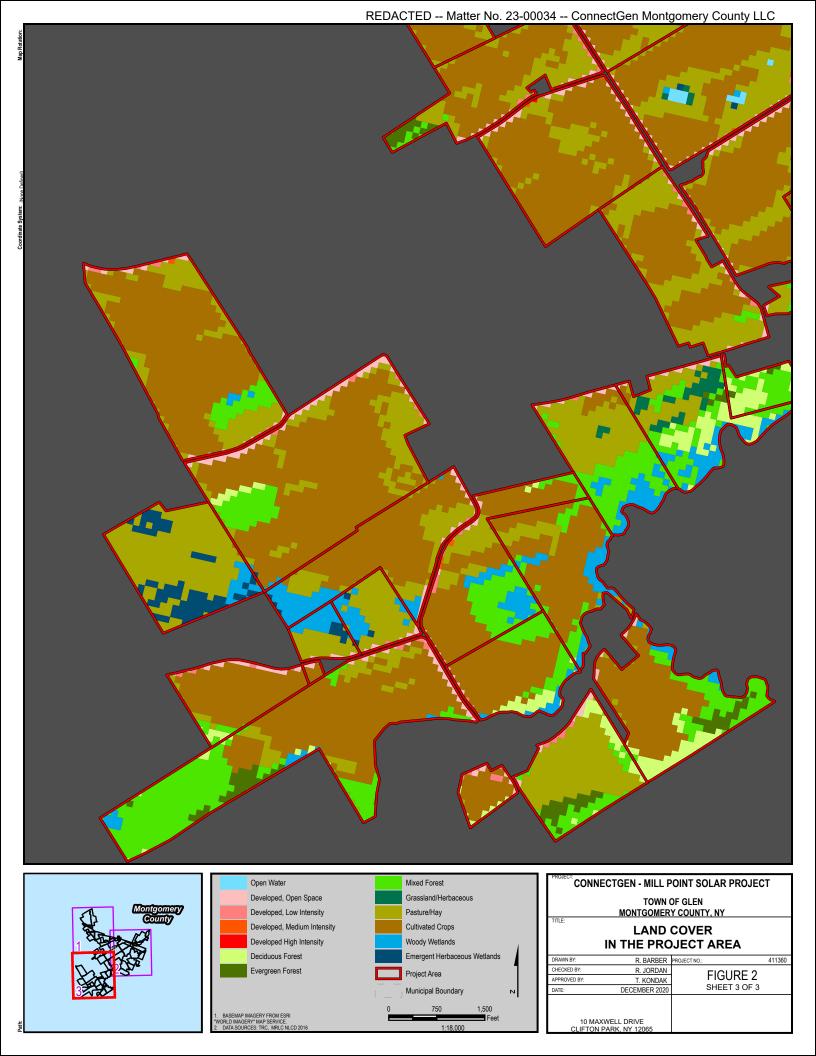
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CHECKED BY:	R. JORDAN		FIGURE 4				
APPROVED BY:	T. KONDAK		FIGURE 1				
DATE:	DECEMBER 2020						
	XWELL DRIVE PARK, NY 12065						

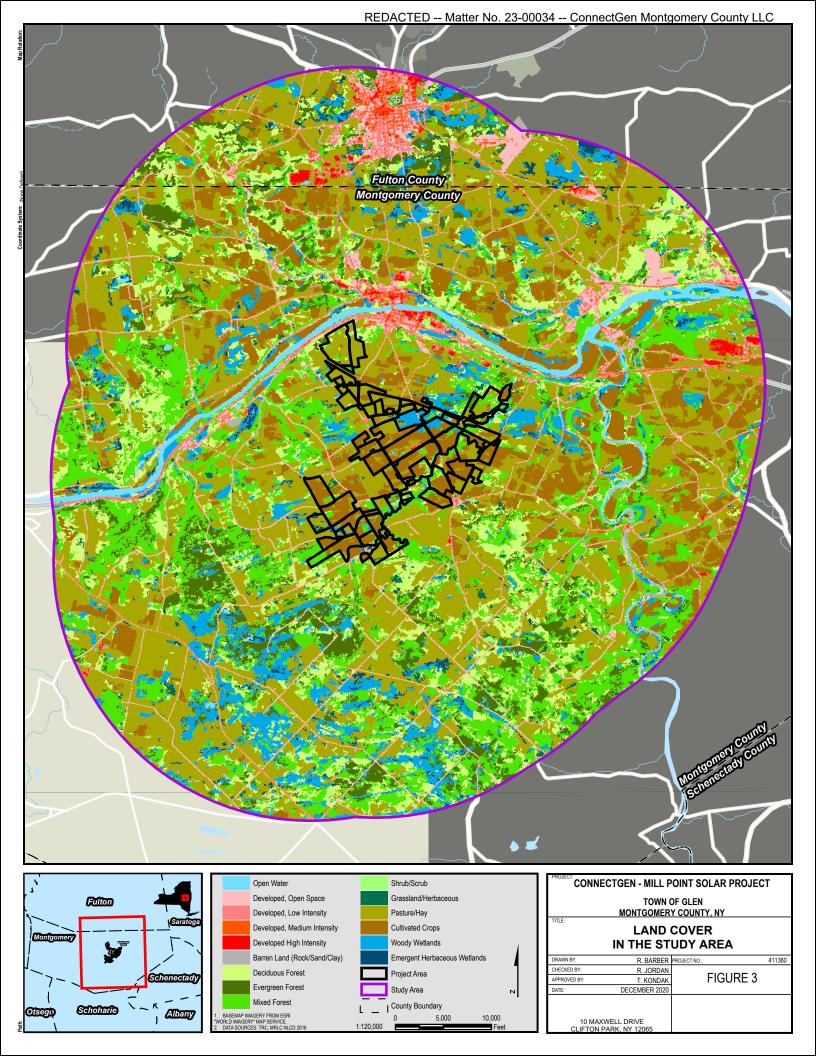


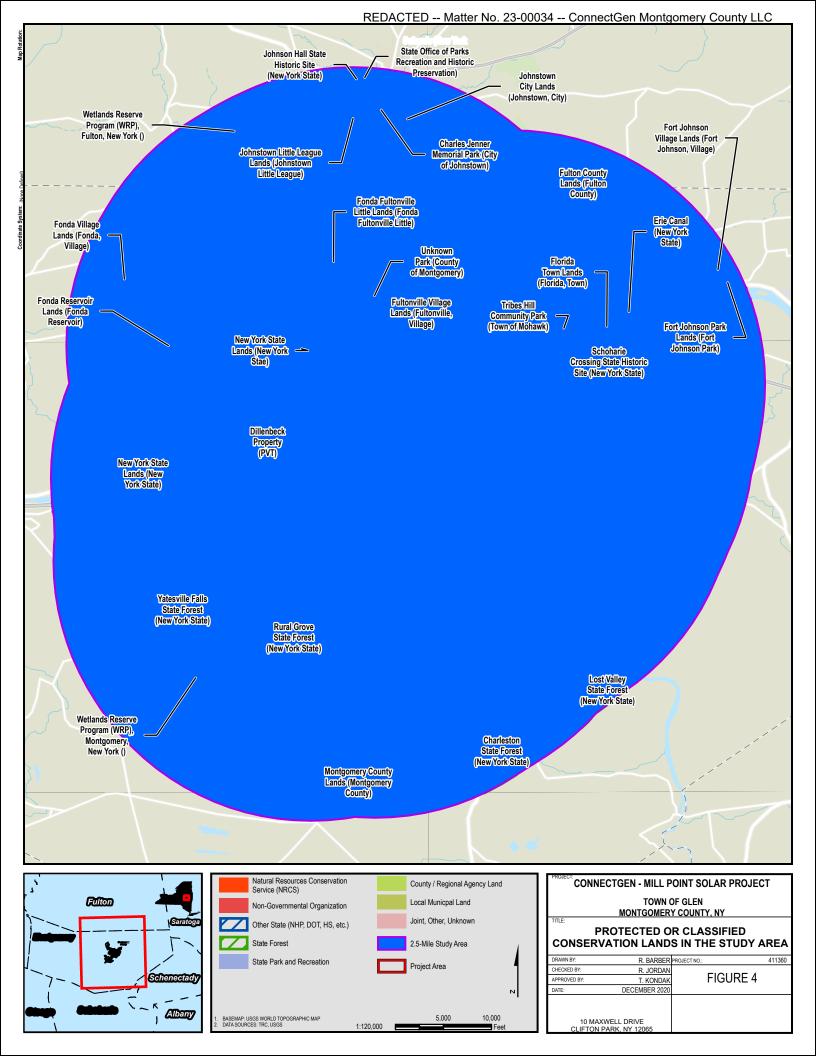




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CHECKED BY:	R. BARBER R. JORDAN	PROJECT NO.:		411360					







CONNECTGEN - MILL POINT SOLAR PROJECT

DRAWN BY:

CHECKED BY:

APPROVED BY:

TOWN OF GLEN MONTGOMERY COUNTY, NY ECOREGION'S AND MAPPED ENVIRONMENTAL DATA IN THE STUDY AREA

R. BARBER PROJECT NO.

R. JORDAN

T. KONDAK MARCH 2021

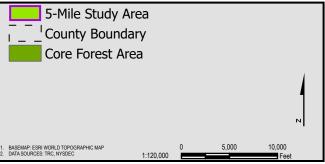
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FIGURE 5



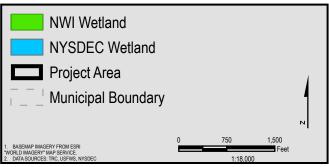
Adliondack Foothills





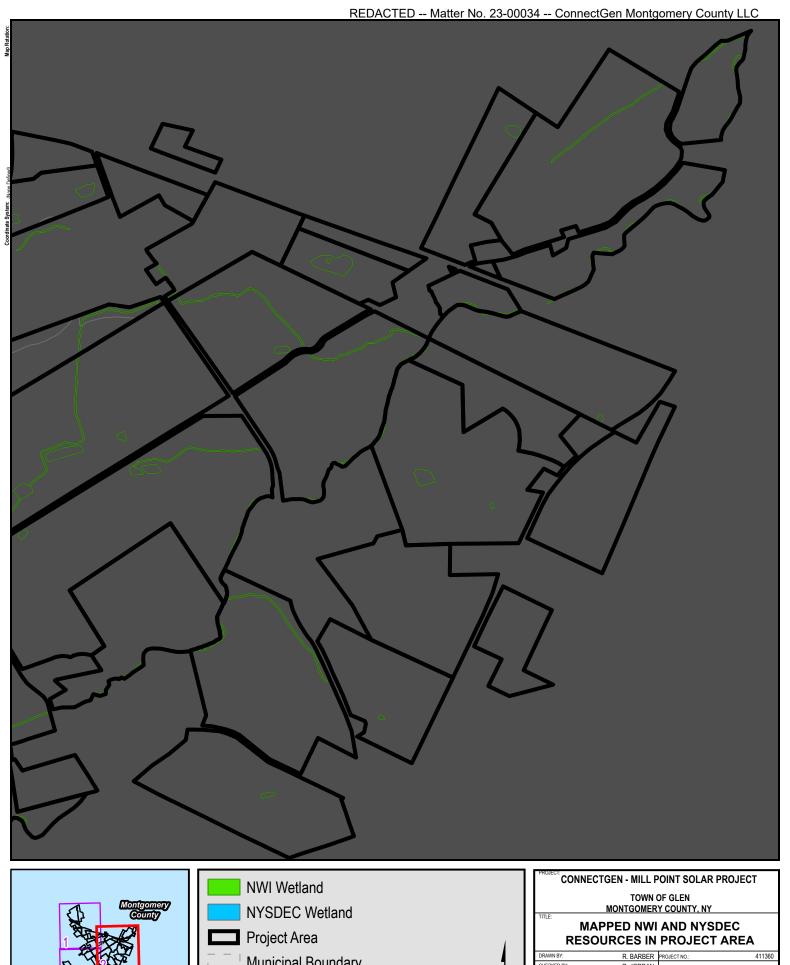
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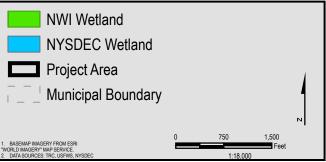


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10 MAXWELL DRIVE



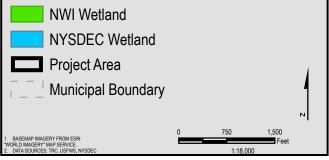




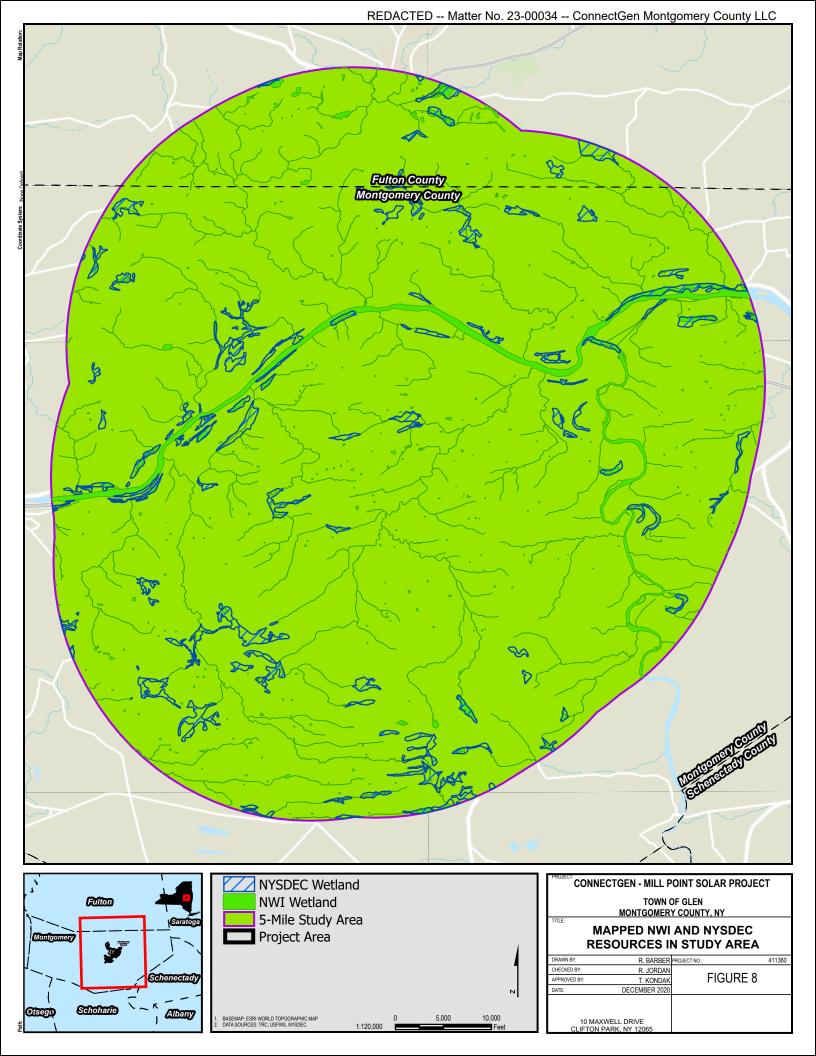
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Appendix B: Wildlife Inventory Tables

Common Name	Scientific Name and Family	Species Status	Observed on-site by TRC Biologists	USFWS online database (IPaC)	USGS Breeding Bird Survey	NYS Breeding Bird Atlas III	Audubon IBAs and Christmas Bird Count	eBird	NYSDEC Threatened, Endangered, SC Lists	Species distribution range in the NYSDEC SWAP
Swans, Geese, & Ducks	Anatidae									
Wood Duck	Aix sponsa				Х			Х		
Northern Pintail	Anas acuta	SGCN			X		X	Х		X
Mallard	Anas platyrhynchos				X	X		Х		
American Black Duck	Anas rubripes	HPSGCN			X	X	X	Х	Х	X
Greater-white Fronted Goose	Anser albifrons							Х		
Green-winged Teal	Anus crecca							Х		
Lesser Scaup	Aythya affinis	SGCN						X		X
Redhead	Aythya americana							X		
Ring-necked Duck	Aythya collaris							X		
Greater Scaup	Aythya marila	SGCN						X		
Canvasback	Aythya valisineria							X		
Brant	Branta bernicla							X		
Canada Goose	Branta canadensis		Х		X	X	Х	X		
Cackling Goose	Branta hutchinsii							X		
Bufflehead	Bucephala albeola						X	X		
Common Goldeneye	Bucephala clangula						Х	X		X
Snow Goose	Chen caerulescens					X	Х	X		
Long-tailed Duck	Clangula hyemalis	SGCN						X		X
Tundra Swan	Cygnus columbianus							X		
Mute Swan	Cygnus olor							X		
Hooded Merganser	Lophodytes cucullatus				X	X	X	X		
American Wigeon	Mareca americana							X		
Gadwall	Mareca strepera							Х		
Black Scoter	Melanitta americana	SGCN						Х		X
White-winged scoter	Melanitta deglandi	SGCN						X		X

	Scientific Name and Family	Species Status	on-site by TRC Biologists	online database (IPaC)	Breeding Bird Survey	Breeding Bird Atlas III	IBAs and Christmas Bird Count	eBird	Threatened, Endangered, SC Lists	range in the NYSDEC SWAP
Surf Scoter	Melanitta perspicillata	SGCN						Х		Х
Common Merganser	Mergus merganser				X	X	Х	X		
Red-breasted Merganser	Mergus serrator							X		
Ruddy Duck	Oxyura jamaicensis	SGCN						X		Х
Northern Shoveler	Spatula clypeata							X		
Blue-winged Teal	Spatula discors	SGCN						X		Х
Partridges, Grouse, & Turkeys Partridges	Phasianidae									
Ring-necked Pheasant	Phasianus colchicus				Х	Х	Х			
Ruffed Grouse	Bonasa umbellus	SGCN			Х		Х	X		Х
Wild Turkey	Meleagris gallopavo		Х		X	X	Х	X		
Grebes Pe	Podicipedidae									
Horned Grebe	Podiceps auritus	SGCN						Х		Х
Red-necked Grebe	Podiceps grsegena							X		
								X	X	
Pigeons & Doves Co	Columbidae									
Rock Pigeon	Columba livia				Х	Х	Х	Х		
Mourning Dove	Zenaida macroura				Х	Х	Х	X		
Cuckoos, Roadrunners, & Anis C	Cuculidae									
Yellow-billed Cuckoo	Coccyzus americanus				Х	Х		Х		
Black-billed Cuckoo	Coccyzus erythropthalmus	SGCN		Х	Х			Х		Х
					Х			Х	Х	Х
Swifts A	Apodidae									
	-p									
Chimney Swift	Chaetura pelagica				Х	Х		X		

Common Name	Scientific Name and Family	Species Status	Observed on-site by TRC Biologists	USFWS online database (IPaC)	USGS Breeding Bird Survey	NYS Breeding Bird Atlas III	Audubon IBAs and Christmas Bird Count	eBird	NYSDEC Threatened, Endangered, SC Lists	Species distribution range in the NYSDEC SWAP
Ruby-throated Hummingbird	Archilochus colubris				Х	Х		X		
Rails, Gallinules, & Coots	Rallidae									
Common Gallinule	Gallinula galeata				X			Х		
Virginia Rail	Rallus limicola									
Plovers & Lapwings	Charidriidae									
Semipalmated Plover	Charadrius semipalmatus							X		
Killdeer	Charadrius vociferus				X	X		X		
Black-bellied Plover	Pluvialis squatarola	SGCN						X		Х
Sandpipers, Phalaropes, &	Caalammaidaa									
Allies	Scolopacidae				v					
Spotted Sandpiper	Actitis macularius				X			X X	X	х
Sanderling	Calidris alba							X	^	^
Dunlin	Calidris alpina							X		
White-rumped Sandpiper	Calidris fuscicollis							X		
Pectoral Sandpiper	Calidris melanotos							X		
Least Sandpiper	Calidris minutilla							X		
Wilson's Snipe	Gallinago delicata						Х	X		
American Woodcock	Scolopax minor				X			X		Х
Lesser Yellowlegs	Tringa flavipes							Х		
Greater Yellowlegs	Tringa melanoleuca	SGCN						Х		Х
Solitary Sandpiper	Tringa solitaria							X		
Skuas, Gulls, Terns, & Skimmers	Laridae									
								Х	Х	Х
Bonaparte's Gull	Chroicocephalus philadelphia	SGCN						X		Х
Caspian Tern	Hydroprogne caspia	SGCN						X		Х

Common Name	Scientific Name and Family	Species Status	Observed on-site by TRC Biologists	USFWS online database (IPaC)	USGS Breeding Bird Survey	NYS Breeding Bird Atlas III	Audubon IBAs and Christmas Bird Count	eBird	NYSDEC Threatened, Endangered, SC Lists	Species distribution range in the NYSDEC SWAP
Herring Gull	Larus argentatus					Х	X	Х		
Ring-billed Gull	Larus delawarensis							Х		
Lesser Black-backed Gull	Larus fuscus							Х		
Iceland Gull	Larus glaucoides							Х		
Glaucous Gull	Larus hyperboreus							Х		
Great Black-backed Gull	Larus marinus						X	Х		
Franklin's Gull	Leucophaeus pipixcan							X		
								X	Х	Х
								X	Х	Х
								X		
Cormorants	Phalacrocoracidae									
Double-crested Cormorant	Phalacrocorax auritus					X		X		
Bitterns, Herons, & Allies	Ardeidae									
Great Egret	Ardea alba							Х		
Great Blue Heron	Ardea herodias				Х	X	X	X		
								X	Х	Х
Cattle Egret	Bubulcus ibis	HPSGCN						Х		Х
Green Heron	Butorides virescens				X			X		
Black-crowned Night Heron	Nycticorax nycticorax	SGCN						X		Х
Vultures	Cathartidae									
Turkey Vulture	Cathartes aura				Х	Х	X	Х		
Black Vulture	Coragyps atratus					Х	X	Х		
			х			Х		Х	Х	

Common Name	Scientific Name and Family	Species Status	Observed on-site by TRC Biologists	USFWS online database (IPaC)	USGS Breeding Bird Survey	NYS Breeding Bird Atlas III	Audubon IBAs and Christmas Bird Count	eBird	NYSDEC Threatened, Endangered, SC Lists	Species distribution range in the NYSDEC SWAP
					Х	Х	Х	Х	Х	
					Х		X	Х	X	Х
					Х	X	X	X	X	
								X		Х
Broad-winged Hawk	Broad-winged Hawk							X		
Red-tailed Hawk	Buteo jamaicensis		Х		X	Х	X	Х		
Rough-legged Hawk	Buteo lagopus						X	Х		
								Х	Х	Х
					X	X	X	X	Х	Х
			Х		Х	Х	X	Х	Х	Х
Owls	Strigidae									
Northern Saw-whet Owl	Aegolius acadicus						X			
			Х				X	Х	Х	Х
Snowy Owl	Bubo scandiacus							Х		
Great Horned Owl	Bubo virginianus						X	Х		
Eastern Screech-Owl	Megascops asio						X	Х		
Barred Owl	Strix varia						X	Х		
Kingfishers	Alcedinidae									
Belted Kingfisher	Megaceryle alcyon				Х	Х	X	Х		
Woodpeckers & Allies	Picidae									
Northern Flicker	Colaptes auratus				X	Х	X	X		
Pileated Woodpecker	Dryocopus pileatus				Х	Х	X	X		
Red-belled Woodpecker	Melanerpes carolinus				Х	Х	X	Х		
	1				Х				Х	X
Downy Woodpecker	Picoides pubescens				Х	Х	X	X		
Hairy Woodpecker	Picoides villosus				Х	Х	X	X		

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Yellow-bellied Sapsucker	Sphyrapicus varius				Х	Х	Х	Х		
Caracaras & Falcons	Falconidae									
Merlin	Falco columbarius						Х	Х		
						X	Х	X		X
American Kestrel	Falco sparverius	SGCN			Х	X	X	X		Х
Tyrant Flycatchers	Tyrannidae									
Olive-sided Flycatcher	Contopus cooperi	HPSGCN						X	Х	X
Eastern Wood-Peewee	Contopus virens				Х	X		X		
Alder Flycatcher	Empidonax alnorum				Х			X		
Yellow-bellied Flycatcher	Empidonax flaviventris							Х		
Least Flycatcher	Empidonax minimus				Х			Х		
Willow Flycatcher	Empidonax traillii				Х	X		X		
Great Crested Flycatcher	Myiarchus crinitus				Х	X		Х		
Eastern Pheobe	Sayornis phoebe				Х	X		X		
Eastern Kingbird	Tyrannus tyrannus				Х			Х		
Vireos	Vireonidae									
Yellow-throated Vireo	Vireo flavifrons				X	X	Х	X		
Blue-headed Vireo	Vireo solitarius				Х	X		X		
Warbling Vireo	Vireo gilvus				Х	Х		X		
Red-eyed Vireo	Vireo olivaceus				Х	X		Х		
Philadelphia Vireo	Vireo philadeplphicus							Х		
Shrikes	Laniidae									
Northern Shrike	Lanius borealis						Х	Х		
Jays, Magpies, & Crows	Corvidae									
American Crow	Corvus brachyrhynchos		Х		Х	Х	Х	Х		
Fish Crow	Corvus brachyrhynchos					X	х	Х		

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Common Raven	Corvus corax				Х	Х	Х	Х		
Blue Jay	Cyanocitta cristata				X	X	X	X		
Chickadees & Titmice	Paridae									
Tufted Titmouse	Baeolophus bicolo				Х	Х	X	Х		
Black-capped Chickadee	Poecile atricapillus		Х		Х	X		Х		
			X		X	X	X	X	Х	Х
Swallows	Hirundinidae									
Barn Swallow	Hirundo rustica				Х	Х		X		
Cliff Swallow	Petrochelidon pyrrhonota				Х	X		Х		
Purple Martin	Progne subis				Х			X		
Bank Swallow	Riparia riparia				Х	Х		X		
Northern Rough-winged	6. 1.1.				, v			v		
Swallow	Stelgidopteryx serripennis		v		X	X		X		
Tree Swallow	Tachycineta bicolo		X		Х	X		X		
Kinglets	Regulidae							.,		
Ruby-crowned Kinglet	Regulus calendula						v	X		
Golden-crowned Kinglet	Regulus satrapa					Х	Х	Х		
Nuthatches	Sittidae									
Red-breasted Nuthatch	Sitta canadensis					X	X	X		
White-breasted Nuthatch	Sitta carolinensis				Х	Х	Х	Х		
Creepers	Certhiidae									
Brown Creeper	Certhia americana				Х		Х	Х		
Gnatcatchers	Polioptilidae									
Blue-gray Gnatcatcher	Polioptila caerulea				Х			X		
Wrens	Troglodytidae									

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Marsh Wren	Cistothorus palustris							Х		
Carolina Wren	Thryothorus Iudovicianus				Х	Х	Х	Х		
House Wren	Troglodytes aedon				Х	Х		Х		
Winter Wren	Troglodytes hiemalis							Х		
Starlings & Allies	Sturnidae									
European Starling	Sturnus vulgaris		Х		Х	Х	Х	Х		
Mockingbirds, Thrashers, &										
Allies	Mimidae									
Gray Catbird	Dumetella carolinensis				Х	X		X		
Northern Mockingbird	Mimus polyglottos				Х		Х	X		
Brown Thrasher	Toxostoma rufum	HPSGCN			X	X		X	Х	X
Thrushes	Turdidae									
Veery	Catharus fuscescens				Х			Х		
Hermit Thrush	Catharus guttatus				Х	X		Х		
Swainson's Thrush	Catharus ustulatus					Х		Х		
Wood Thrush	Hylocichla mustelina	SGCN		Х	Х	Х		Х		X
Eastern Bluebird	Sialia sialis		Х		Х	X	X	Х		
American Robin	Turdus migratorius				Х	Х	X	Х		
Waxwings	Bombycillidae									
Cedar Waxwing	Bombycilla cedrorum				Х	Х	Х	Х		
Old World Sparrows	Passeridae									
House Sparrow	Passer domesticus				Х	Х	Х	Х		
Finches	Fringillidae									
American Goldfinch	Carduelis tristis				Х	Х	Х	Х		
House Finch	Carpodacus mexicanus				х	Х	X	Х		
Purple Finch	Carpodacus purpureus				X	х	X	Х		

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Evening Grosbeak	Coccothraustes vespertinus					Х	Х	Х		
Red Crossbill	Loxia curvirostra				Х					
Pine Grosbeak	Pinicola enucleator						X			
Pine Siskin	Spinus pinus					Х	Х	X		
Longspurs	Calcariidae									
Lapland Longspur	Calcarius lapponicus							X		
Snow Bunting	Plectrophenax nivalis						X	X		
New World Sparrows	Passerellidae									
					Х		X	X	Х	x
Dark-eyed Junco	Junco hyemalis		Х			Х	X	X		
Swamp Sparrow	Melospiza georgiana				Х	X		X		
Lincoln's Sparrow	Melospiza lincolnii					X		X		
Song Sparrow	Melospiza melodia				Х	X		X		
Savannah Sparrow	Passerculus sandwichensis				Х	X		X		
Fox Sparrow	Passerella iliaca							X		
Eastern Towhee	Pipilo erythrophthalmus				Х	X		X		
					Х			X	X	X
Chipping Sparrow	Spizella passerine				Х	X	X	X		
Clay-colored Sparrow	Spizella pallida					X		X		
Field Sparrow	Spizella pusilla				Х	X		X		
American Tree Sparrow	Spizelloides arborea					X	X	X		
White-throated Sparrow	Zonotrichia albicollis				Х	X	X	X		
White-crowned Sparrow	Zonotrichia leucophrys					Х	X	X		
Blackbirds	Icteridae									
Red-winged Blackbird	Agelaius phoeniceus				Х	Х	X	X		
Bobolink	Dolichonyx oryzivorus	HPSGCN		X	х	X		X	X	X

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Rusty Blackbird	Euphagus carolinus	HPSGCN						Х	Х	Х
Baltimore Oriole	Icterus galbula				X	X		Х	X	
Orchard Oriole	Icterus spurius				Х			Х		
Brown-headed Cowbird	Molothrus ater				Х	X	X	Х		
Common Grackle	Quiscalus quiscula				Х	X	X	Х		
Eastern Meadowlark	Sturnella magna	HPSGCN			Х	X		Х		х
New World Warblers	Parulidae									
Canada Warbler	Cardellina canadensis	HPSGCN		Х	Х			Х	Х	Х
Wilson's Warbler	Cardinella pusilla					Х		Х		
								Х		x
Chestnut-sided Warbler	Dendroica pensylvanica				Х	X		Х		
Common Yellowthroat	Geothlypis trichas				Х	X		Х		
Tennessee Warbler	Leiothlypis peregrina					X		Х		
Nashville Warbler	Leiothlypis ruficapilla					Х		X		
Black-and-White Warbler	Mniotilta varia				Х			Х		
Mourning Warbler	Oporornis philadelphia				Х			Х		
Lousiana Waterthrush	Parkesia motacilla				Х			Х		
Northern Waterthrush	Parkesia noveboracensis							Х		
Prothonotary Warbler	Protonotaria citrea	HPSGCN						Х		x
Ovenbird	Seiurus aurocapilla				X	X		Х		
Northern Parula	Setophaga americana							Х		
Black-throated Blue Warbler	Setophaga caerulescens	SGCN				X		Х		x
Bay-breasted Warbler	Setophaga castanea	HPSGCN						X		Х
Yellow-rumped Warbler	Setophaga coronata							Х		
Prairie Warbler	Setophaga discolor	SGCN		Х	Х			Х		Х
Blackburnian Warbler	Setophaga fusca					X		X		

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Magnolia Warbler	Setophaga magnolia				Х	Х	Х	Х		
Palm Warbler	Setophaga palmarum							X		
Pine Warbler	Setophaga pinus							X		
American Redstart	Setophaga ruticilla				Х	X		X		
Backpoll Warbler	Setophaga striata					X		X		
Cape May Warbler	Setophaga tigrina	HPSGCN						X		Х
Black-throated Green Warbler	Setophaga virens				Х			X		
Orange-crowned Warbler	Vermivora celata							X		
					Х				X	X
Blue-winged Warbler	Vermivora pinus	SGCN			Х			X		Х
Hooded Warbler	Wilsonia citrina							X		
Yellow Warbler	Yellow Warbler				Х	X		X		
Grosbeaks & Buntings	Cardinalidae									
Northern Cardinal	Cardinalis cardinalis		X		Х	X	X	X		
Indigo Bunting	Passerina cyanea				х	X		X		
Rose-breasted Grosbeak	Pheucticus ludovicianus				Х	X		X		
Scarlet Tanager	Piranga olivacea	SGCN			Х	X		X		X

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Possums	Didelphidae						
Virginia Opossum	Didelphis virginiana				х		
Shrews	Soricidae						
Northern Short-tailed Shrew	Blarina brevicauda				х		
Cinereus Shrew	Sorex cinereus				x		
Long-tailed Shrew	Sorex dispar				x		
Smoky Shrew	Sorex fumeus				x		
American Water Shrew	Sorex palustris				х		
Moles	Talpidae						
Star-nosed Mole	Condylura cristata						X
Hairy-tailed Mole	Parascalops breweri						Х
Bats	Vespertillionidae						
Big Brown Bat	Eptesicus fuscus					x	
Silver-haired Bat	Lasionycteris noctivagans					x	X
Eastern red Bat	Lasiurus borealis					х	X
Hoary Bat	Lasiurus cinereus					x	x
					x	x	х
Little Brown Myotis	Myotis lucifugus	HPSGCN			x	х	х
				Х	X	х	х
Tri-colored Bat	Perimyotis subflavus	HPSGCN			Х	Х	Х
Canids	Canidae						
Coyote	Canis Latrans				Х		
Red Fox	Vulpes vulpes				Х		
Gray Fox	Urocyon cinereoargentus				Х		
Bears	Ursidae						
American Black Bear	Ursus Americanus				X		

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Skunks	Mephitidae						
Striped Skunk	Mephitis Mephitis				X		
Raccoons	Procyonidae						
Raccoon	Procyon lotor				X		
Weasels	Mustelidae						
Fisher	Pekania pennanti				x		
Long-tailed Weasel	Mustela frenata				x		
American Mink	Neovisin vision				X		
Felids	Felidae						
Bobcat	Lynx rufus				Х		
Ungulates	Cervidae						
White-tailed Deer	Odocoileus virginianus		Х		x		
Squirrels	Sciuridae						
Eastern Chipmunk	Tamias striatus		х		x		
Woodchuck	Marmota monax				X		
Eastern Gray Squirrel	Sciurus carolinensis		Х		X		
Red Squirrel	Tamisciurus hudsonicus				x		
Southern Flying Squirrel	Glaucomys volans				x		
Northern Flying Squirrel	Glaucomys sabrinus				Х		
Beavers	Castoridae						
American Beaver	Castor canadensis				X		
Voles, Lemmings, Mice, & Muskrats	Cricetidae						
North American Deer							
Mouse	Peromyscus maniculatus				X		
White-footed Deer Mouse	Peromyscus leucopus		1		Х		

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Southern Red-backed Vole	Myodes gapperi				x		
Meadow Vole	Mictrotus pennsylvanicus				X		
Common Muskrat	Ondatra zibethicus				X		
Southern Bog Lemming	Synaptomys cooperi				Х		
Jumping Mice	Dipodidae						
Meadow Jumping Mouse	Zapus hudsonius				x		X
Woodland Jumping Mouse	Napaeozapus insignis				X		Х
New World Porcupines	Erethizontidae						
North American Porcupine	Erethizon dorsata				X		_
Rabbits and Hares	Leporidae						
Eastern Cottontail	Sylvilagus floridanus				X		

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True Bass	Moronidae						
White Perch	Morone americana					x	
Striped Bass	Morone chrysops					Х	
Catfishes	Ictaluridae						
Brown Bullhead	Ameiurus nebulosus					х	
Smelts	Osmeridae						
Rainbow Smelt	Osmerus mordax					X	
Herrings	Clupeidae						
Gizzard Shad	Dorosoma cepedianum					Х	
Minnows and							
C	Communication and an ar						
Carps	Cyprinidae						
Central Stoneroller	Campostoma anomalum					X	
•						X X	
Central Stoneroller	Campostoma anomalum						
Central Stoneroller Redside Dace	Campostoma anomalum Clinostomus elongatus					х	
Central Stoneroller Redside Dace Common Carp	Campostoma anomalum Clinostomus elongatus Cyprinus carpio					x x	
Central Stoneroller Redside Dace Common Carp Cutlips Minnow	Campostoma anomalum Clinostomus elongatus Cyprinus carpio Exoglossum maxillingua					X X X	
Central Stoneroller Redside Dace Common Carp Cutlips Minnow Common Shiner	Campostoma anomalum Clinostomus elongatus Cyprinus carpio Exoglossum maxillingua Luxilus cornutus					х х х х	
Central Stoneroller Redside Dace Common Carp Cutlips Minnow Common Shiner Spottail Shiner	Campostoma anomalum Clinostomus elongatus Cyprinus carpio Exoglossum maxillingua Luxilus cornutus Notropis budsonius					x x x x	
Central Stoneroller Redside Dace Common Carp Cutlips Minnow Common Shiner Spottail Shiner Fathead Minnow	Campostoma anomalum Clinostomus elongatus Cyprinus carpio Exoglossum maxillingua Luxilus cornutus Notropis budsonius Pimephales promelas					x x x x x	
Central Stoneroller Redside Dace Common Carp Cutlips Minnow Common Shiner Spottail Shiner Fathead Minnow Blacknose Dace Longnose Dace Creek Chub	Campostoma anomalum Clinostomus elongatus Cyprinus carpio Exoglossum maxillingua Luxilus cornutus Notropis budsonius Pimephales promelas Rhinicthys atratulus Rhinicthys cataractae Semotilus atromaculatus					X X X X X	
Central Stoneroller Redside Dace Common Carp Cutlips Minnow Common Shiner Spottail Shiner Fathead Minnow Blacknose Dace Longnose Dace	Campostoma anomalum Clinostomus elongatus Cyprinus carpio Exoglossum maxillingua Luxilus cornutus Notropis budsonius Pimephales promelas Rhinicthys atratulus					x x x x x x x	
Central Stoneroller Redside Dace Common Carp Cutlips Minnow Common Shiner Spottail Shiner Fathead Minnow Blacknose Dace Longnose Dace Creek Chub	Campostoma anomalum Clinostomus elongatus Cyprinus carpio Exoglossum maxillingua Luxilus cornutus Notropis budsonius Pimephales promelas Rhinicthys atratulus Rhinicthys cataractae Semotilus atromaculatus					x x x x x x x	
Central Stoneroller Redside Dace Common Carp Cutlips Minnow Common Shiner Spottail Shiner Fathead Minnow Blacknose Dace Longnose Dace Creek Chub Fallfish	Campostoma anomalum Clinostomus elongatus Cyprinus carpio Exoglossum maxillingua Luxilus cornutus Notropis budsonius Pimephales promelas Rhinicthys atratulus Rhinicthys cataractae Semotilus atromaculatus Semotilus corporalis					x x x x x x x	
Central Stoneroller Redside Dace Common Carp Cutlips Minnow Common Shiner Spottail Shiner Fathead Minnow Blacknose Dace Longnose Dace Creek Chub Fallfish	Campostoma anomalum Clinostomus elongatus Cyprinus carpio Exoglossum maxillingua Luxilus cornutus Notropis budsonius Pimephales promelas Rhinicthys atratulus Rhinicthys cataractae Semotilus atromaculatus Semotilus corporalis Catostomidae					x x x x x x x x	

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Perches	Percidae						
Iowa Darter	Etheostoma exile	SGCN				X	х
Fantail Darter	Etheostoma flabellare					x	
Yellow Perch	Perca flavescens					X	
Logperch	Percina caprodes					x	
Walleye	Sander vitreus					Х	
Pikes	Esocidae						
Northern Pike	Esox lucius					x	
Chain Pickerel	Esox niger					x	
Tiger Muskellunge	Exos lucius X Esox maquinongy					X	
Sculpins	Cottidae						
Slimy Sculpin	Cottus cognatus					X	
Sunfishes	Centrarchidae						
Rock Bass	Ambloplites rupestris					х	
Pumpkinseed	Lepomis gibbosus					X	
Bluegill	Lepomis macrochirus					x	
Smallmouth Bass	Micropterus dolomieui					x	
Largemouth Bass	Micropterus salmoides					x	
Black Crappie	Pomoxis nigromaculatus					Х	
Trout	Salmonidae						
Rainbow Trout	Oncorhynchus mykiss					x	
Brown Trout	Salmo trutta					x	

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Lungless Salamanders	Plethodontidae							
						Х		x
Spotted Salamander	Ambystoma maculatum					Х		
						Х	X	Х
Dusky Salamander	Desmognathus fuscus					Х		
Allegheny Mountain Dusky Salamander	Desmognathus ochrophaeus					x		
Northern Two-lined Salamander	Eurycea bislineata					x		
Spring Salamander	Gyrinophilus porphyriticus					Х		
Mudpuppy	Necturus maculosus	SGCN				Х	X	
Northern Red-backed Salamander	Plethodon cinereus					X		
True Toads	Bufonidae							
American Toad	Anaxyrus americanus					Х		
Tree Frogs	Hylidae							
Gray Treefrog	Hyla veriscolor					Х		
Spring Peeper	Pseudacris crucifer					Х		
True Frogs	Ranidae							
American Bullfrog	Lithobates catesbeiana					Х		
Green Frog	Lithobates clamitans					Х		
Pickerel Frog	Lithobates palustris					Х		
Northern Leopard Frog	Lithobates pipiens					Х		
Wood Frog	Lithobates sylvaticus					Х		
True Salamanders	Salamandridae							
Eastern Newt	Notophthalmus viridescens					Х		

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Snapping Turtles	Chelydridae						
Common Snapping Turtle	Chelydra serpentina					х	X
Terrapins, Pond & Marsh Turtles	Emydidae						
Painted Turtle	Chrysemys picta					Х	
Slider	Trachemys scripta					х	
					Х	Х	Х
Colubrids	Colubridae						
Common Gartersnake	Thamnophis sirtalis					Х	
Dekay's Brownsnake	Storeria dekayi					Х	
Eastern Ratsnake	Pantherophis spiloides	SGCN				Х	x
Milksnake	Lampropeltis triangulum					Х	
Northern Watersnake	Nerodia sipedon					Х	
Red-bellied Snake	Storeria occipitomaculata					Х	
Ring-necked Snake	Diadophis punctatus					Х	
					Х	х	X